City of San Diego

ORIGINAL

CONTRACTOR'S NAME: Southwest Pipeline & Trenchless Corp.
ADDRESS: 22118 S. Vermont Ave., Torrance, CA 90502
TELEPHONE NO.: 310-329-8717 **FAX NO.:** 310-329-0981
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
M. Liaghat / A. Jaro / mlw

BIDDING DOCUMENTS

e - Bidding **FOR**

SEWER PIPELINE REHABILITATION AE1

BID NO.: K-17-1468-DBB-3
SAP NO. (WBS/IO/CC): B-14030
CLIENT DEPARTMENT: 2011
COUNCIL DISTRICT: 2
PROJECT TYPE: JA

THIS CONTRACT WILL BE SUBJECT TO THE FOLLOWING:

- PHASED-FUNDING
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE ☒ FEDERAL ☐
- APPRENTICESHIP

BID DUE DATE:

2:00 PM
DECEMBER 8, 2016
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer.

Seal:

For the City Engineer

11/14/16
Date

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NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **Sewer Pipeline Rehabilitation AE1.** For additional information refer to Attachment A.

2. **FULL AND OPEN COMPETITION:** This contract is open to full competition and may be bid on by Contractors who are on the City's current Prequalified Contractors' List. For information regarding the Contractors Prequalified list visit the City's web site: http://www.sandiego.gov.

3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **$5,600,000.**

4. **BID DUE DATE AND TIME ARE: DECEMBER 8, 2016 at 2:00 PM**

5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.

6. **LICENSE REQUIREMENT**: The City has determined that the following licensing classification are required for this contract: A or C34

7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.

   7.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1.	SLBE participation	**4.8%**
2.	ELBE participation	**10.5%**
3.	Total mandatory participation	**15.3%**

   7.2. The Bid may be declared non-responsive if the Bidder fails the meet the following requirements:

   7.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**

   7.2.2. Submit Good Faith Effort documentation, saved in searchable Portable Document Format (PDF) and stored on Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Bid opening if the overall mandatory participation percentage is not met.

8. PRE-BID MEETING:

8.1. Prospective Bidders are encouraged to attend the Pre-Bid Meeting. The purpose of the meeting is to discuss the scope of the Project, submittal requirements, the pre-qualification process and any Equal Opportunity Contracting Program requirements and reporting procedures. To request a sign language or oral interpreter for this visit, call the Public Works Contracts Division at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. The Pre-Bid meeting is scheduled as follows:

Date:	**November 22, 2016**
Time:	**10:00 AM**
Location:	**1010 Second Avenue, Suite 1400 (Large Conference Room), San Diego, CA 92101**

9. AWARD PROCESS:

9.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.

9.2. Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening. The City will then award the Contract within approximately 14 days of receipt of properly signed Contract, bonds, and insurance documents.

9.3. This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form by the City Attorney's Office.

9.4. The low Bid will be determined by Base Bid alone.

9.5. Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid alone.

10. SUBMISSION OF QUESTIONS:

10.1. The Public Works Department is responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. Any questions related to this solicitation shall be submitted to:

Public Works Contracts
1010 Second Avenue, 14th Floor
San Diego, California, 92101
Attention: Clementina Giordano

OR:

CGiordano@sandiego.gov

10.2. Questions received less than 14 days prior to the date for opening of Bids may not be considered.

10.3. Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.

10.4. Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's responsibility to be informed of any addenda that have been issued and to include all such information in its Bid.

11. **PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.

INSTRUCTIONS TO BIDDERS

1. PREQUALIFICATION OF CONTRACTORS:

1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award. Complete information and links to the on-line prequalification application are available at:

http://www.sandiego.gov/cip/bidopps/prequalification.shtml

1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.

1.3. Due to the City's fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on PlanetBids™.

2. ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS:

Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego's electronic bidding (eBidding) site, at: http://www.sandiego.gov/cip/bidopps/index.shtml and are due by the date, and time shown on the cover of this solicitation.

2.1. BIDDERS MUST BE PRE-REGISTERED with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic bid.

2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.

2.3. The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.

2.4. BIDS REMAIN SEALED UNTIL BID DEADLINE. eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter which has until the "Bid Due Date and Time" to change, rescind or retrieve its proposal should it desire to do so.

2.5. BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME. Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, EOCP compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.

2.6. RECAPITULATION OF THE WORK. Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.

2.7. BIDS MAY BE WITHDRAWN by the Bidder only up to the bid due date and time.

2.7.1. Important Note: Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.

2.8. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE. : To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed on the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

3. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT

3.1. The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.

3.2. By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and

incorporated by reference in the Contract Documents.

3.3. The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this bid are true and correct.

3.4. The Bidder agrees to the construction of the project as described in Attachment "A– Scope of Work" for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at $500,000 or less) from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.

4. **BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

5. **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**

5.1. **Prior** to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City's web-based vendor registration and bid management system. For additional information go to:

http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml.

5.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

6. **JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 2-1.1.2, "Joint Venture Contractors" in The WHITEBOOK for details.

7. **PREVAILING WAGE RATES WILL APPLY:** Refer to Attachment D.

8. **SUBCONTRACTING PARTICIPATION PERCENTAGES**: Subcontracting participation percentages apply to this contract. Refer to Attachment E.

9. INSURANCE REQUIREMENTS:

9.1. All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.

9.2. Refer to sections 7-3, "LIABILITY INSURANCE", and 7-4, "WORKERS' COMPENSATION INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

10. REFERENCE STANDARDS: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") http://www.greenbookspecs.org/	2015	PWPI070116-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* https://www.sandiego.gov/publicworks/edocref/greenbook	2015	PWPI070116-02
City of San Diego Standard Drawings* https://www.sandiego.gov/publicworks/edocref/standarddraw	2016	PWPI070116-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/publicworks/edocref/drawings	2016	PWPI092816-04
California Department of Transportation (CALTRANS) Standard Specifications - http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2015	PWPI092816-05
CALTRANS Standard Plans - http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2015	PWPI092816-06
California Manual on Uniform Traffic Control Devices Revision 1 (CA MUTCD Rev 1) - http://www.dot.ca.gov/trafficops/camutcd/	2014	PWPI092816-07
NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml		

11. CITY'S RESPONSES AND ADDENDA: The City, at its discretion, may respond to any or all questions submitted in writing via the City's eBidding web site in the **form of an addendum**. No other responses to questions, oral or written shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addenda are made

effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.

12. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.

13. **CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.

14. **SUBCONTRACTOR INFORMATION:**

14.1. **LISTING OF SUBCONTRACTORS**. In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR**, **CONSULTANT** or **SUPPLIER**. The Bidder shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3, "Subcontracts", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

14.2. **LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY)** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be

paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.

14.3. **LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.

15. SUBMITTAL OF "OR EQUAL" ITEMS: See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.

16. AWARD PROCESS:

16.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.

16.2. Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.

16.3. This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.

17. SUBCONTRACT LIMITATIONS: The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.

18. AVAILABILITY OF PLANS AND SPECIFICATIONS: Contract Documents may be obtained by visiting the City's website: http://www.sandiego.gov/cip/. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracts.

19. ONLY ONE BID PER CONTRACTOR SHALL BE ACCCEPTED: No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in

the rejection of all bids submitted.

20. SAN DIEGO BUSINESS TAX CERTIFICATE: The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, First floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.

21. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY):

21.1. For bids $250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.

21.2. This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.

21.3. The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.

21.4. At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. Within twenty-four (24) hours after the bid due date and time, the first five (5) apparent low bidders must provide the City with the original bid security.

21.5. Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original within twenty-four (24) hours may cause the bid to be rejected and deemed **non-responsive**.

22. AWARD OF CONTRACT OR REJECTION OF BIDS:

22.1. This contract may be awarded to the lowest responsible and reliable Bidder.

22.2. Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.

22.3. The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.

22.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.

22.5. A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.

22.6. The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.

22.7. Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.

22.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

23. BID RESULTS:

23.1. The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.

23.2. To obtain the bid results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

24. THE CONTRACT:

24.1. The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

24.2. If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form

adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

24.3. If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.

24.4. Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.

24.5. The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.

25. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK: The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.

26. CITY STANDARD PROVISIONS: This contract is subject to the following standard provisions. See The WHITEBOOK for details.

26.1. The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.

26.2. The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to

the Americans with Disabilities Act.

26.3. The City of San Diego Municipal Code §22.3004 for Contractor Standards.

26.4. The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.

26.5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.

26.6. The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).

26.7. The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

27. PRE-AWARD ACTIVITIES:

27.1. The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified in the herein and in the Notice of Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive.**

27.2. The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

Triplicate Execution
Bond Number: 02071409
Premium: $32,769.00

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Southwest Pipeline and Trenchless Corp., a corporation, as principal, and Liberty Mutual Insurance Company, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of **Four Million Three Hundred Ninety-Four Thousand Sixteen Dollars and 50/100 ($4,394,016.50)** for the faithful performance of the annexed contract, and in the sum of **Four Million Three Hundred Ninety-Four Thousand Sixteen Dollars and 50/100 ($4,394,016.50)** for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND
(continued)

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated January 24, 2017

Approved as to Form

Mara W. Elliot, City Attorney

By _____
Deputy City Attorney

Approved:

By: _____
Stephen Samara
Principal Contract Specialist
Public Works Department

Southwest Pipeline and Trenchless Corp.

Principal

By _____

Justin Duchaineau- President

Printed Name of Person Signing for Principal

Liberty Mutual Insurance Company

Surety

By _____

Noemi Quiroz, Attorney-in-fact

790 The City Drive South, Suite 200

Local Address of Surety

Orange, CA 92868

Local Address (City, State) of Surety

(714) 634-5720

Local Telephone No. of Surety

Premium $ 32,769.00

Bond No. 024071409

ATTACHMENTS

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT — Civil Code § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
) ss
County of Los Angeles)

On JAN 2 4 2017, before me, Natalie K. Trofimoff, Notary Public, personally appeared Noemi Quiroz, who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~/are~~ subscribed to the within instrument and acknowledged to me that ~~he/~~she~~/they~~ executed the same in ~~his/~~her~~/their~~ authorized capacity~~(ies)~~, and that by ~~his/~~her~~/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

NATALIE K. TROFIMOFF
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
COMMISSION # 2127860
MY COMM. EXPIRES OCT. 22, 2019

Signature: _____
Natalie K. Trofimoff, Notary Public

(Seal)

NATALIE K. TROFIMOFF
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
COMMISSION # 2127860
MY COMM. EXPIRES OCT. 22, 2019

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees. To confirm the validity of this Power of Attorney call 610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Noemi Quiroz

of the city of Los Angeles, state of CA its true and lawful attorney-in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the following surety bond:

Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: City of San Diego

Surety Bond Number: 024071409 **Bond Amount:** See Bond Form

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 26th day of September, 2016.

The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: _____
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 26th day of September, 2016, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2017
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 24th day of January, 2017.

By: _____
Renee C. Llewellyn, Assistant Secretary

ATTACHMENT A

SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** Rehabilitation of approximately 46,464 LF (8.8 miles) of existing 8" and 10" aging VC sewer mains and replace in-place of 371 LF of existing VC sewer mains using open trench construction. This project also included point repairs, manhole replacement and manholes rehabilitation, assessment of sewer laterals by CCTV, and rehabilitation of existing sewer laterals and installation of cleanouts at properly line, if needed, street resurfacing, installation of ADA Compliant curb ramps, and, etc.

   1.1. The Work shall be performed in accordance with:

      1.1.1. The Notice Inviting Bids, Location Map in Appendix E, and Appendices L, M, N, O and R.

2. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **$5,600,000.**

3. **LOCATION OF WORK: The location of the Work is as follows:**

   See Location Map Appendix E.

4. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **330 Working Days**.

5. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid, appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) may render the Bid as **non-responsive** and ineligible for award.

   5.1. The City has determined that the following licensing classification is required for this contract:

Option	Classification(s)
1	CLASS A
2	CLASS C34

   5.2. The Bidder shall satisfy the licensing requirement by meeting at least one of the listed options.

ATTACHMENT B

PHASED FUNDING PROVISIONS

1. PHASED FUNDING:

1.1. For phased funded contracts, the City typically secures enough funds for the first 90 days of the contract prior to award. Within 10 Working Days after Bid opening date the Apparent Low Bidder must contact the Project Manager to discuss fund availability and the duration of the first phase and submit the Pre-Award Schedule to the City for approval and preparation of the first Phased Funding Schedule Agreement.

1.2. The Apparent Low Bidder will be required to provide a Pre-award Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT" prior to award of Contract.

1.3. If the Bid submitted by the Apparent Low Bidder is rejected by the City for any reason, the next Apparent Low Bidder is to provide the Pre-Award Schedule within 5 Working Days after receiving notice. This process will continue until the City selects an Awardee or rejects all Bids.

1.4. The first Phased Funding Schedule Agreement must show the fund availability for the first phase. Upon selection of the Awardee and acceptance by the City of the Pre-Award Schedule, the City will present the first Phased Funding Schedule Agreement to you.

1.5. At the City's request, meet with the City's project manager before execution of the first Phased Funding Schedule Agreement to discuss their comments and requests for revision to the Pre-Award Schedule.

1.6. Your failure to perform the any of the following may result in the Bid being rejected as non-responsive:

1. Meet with the City's project manager, if requested to do so, to discuss and respond to the City's comments regarding the Pre-Award Schedule,
2. Revise the Pre-Award Schedule as requested by the City within the specified 22 Working Days timeframe, or
3. Execute the first Phased Funding Schedule Agreement within a day after receipt.

PHASED FUNDING SCHEDULE AGREEMENT

Check one:

☐ First Phased Funding Schedule Agreement

☒ Final Phased Funding Schedule Agreement

BID NUMBER: K-17-1468-DBB-3

CONTRACT OR TASK TITLE: Sewer Pipeline Rehabilitation AE1

CONTRACTOR: Southwest Pipelien and Trenchless Corp.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Construction Services	NTP	11/31/2018	$4,394,016.50
			Total	$4,394.016.50

Notes:

(1) City Supplements 9-3.6, "PHASE FUNDING COMPENSATION" applies.

(2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.

(3) This PHASE FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by a written modification to the CONTRACT.

CITY OF SAN DIEGO

By: _____

Name: Maryam Liaghat
Project Manager
E&CP / Public Works Department

Date: 2/09/17

CONTRACTOR

By: _____

Name: JUSTIN P. DUCHAINEAU
PRESIDENT/TREASURER/RMO
SOUTHWEST PIPELINE AND TRENCHLESS CORP.

Title: _____

Date: 2/9/17

-END OF PHASE FUNDING SCHEDULE AGREEMENT-

ATTACHMENT C

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ATTACHMENT D

PREVAILING WAGES

PREVAILING WAGES

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding $25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding $15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.

   1.1. Compliance with Prevailing Wage Requirements. Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.

      1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.

      1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

   1.2. Penalties for Violations. Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.

1.3. Payroll Records. Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.

1.3.1. For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.

1.4. Apprentices. Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.

1.5. Working Hours. Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on design professionals and subcontractors of $25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections1810 through 1815.

1.6. Required Provisions for Subcontracts. Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.

1.7. Labor Code Section 1861 Certification. Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."

1.8. Labor Compliance Program. The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.

1.9. Contractor and Subcontractor Registration Requirements. This project is subject to compliance monitoring and enforcement by the DIR. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5 By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City upon request.

1.9.1. A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

ATTACHMENT E

SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

1. The **2015 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2015 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), addressed as the "City Supplement" herein, including the following:
   a) General Provisions (A) for all Contracts.

SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 **TERMS AND DEFINITIONS.** To the City Supplement, item 54, "Normal Working Hours", ADD the following:

The **Normal Working Hours** are 8:30 AM to 3:30 PM.

SECTION 2 - SCOPE AND CONTROL OF WORK

2-3.2 **Self Performance.** DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least 50% of the base Bid.

2-14.3 **Coordination.** To the City Supplement, ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of Sewer Pipeline Rehabilitation AE1 See Appendix "F" for the approximate location. Coordinate the Work with the adjacent projects as listed below:

   a. Block 6H UUD, Jie Xiao, 619-533-5496
   b. Baker St/Shawnee RD UUD, Jie Xiao, 619-533-5496
   c. Elvira to Morena PL Relocation (S), Jesus Garcia, 619 533-5410
   d. Elvira To Morena PL Relocation (W), Jesus Garcia, 619-533-5410
   e. Mid-Coast Corridor Transit Project PL (W), Jesus Garcia, 619-533-5410
   f. Water Group 955A, Mahmoud Oriqat, 619-533-5232
   g. Sewer Group Job 835, Sheila Gamueda, 619-533-4244

h. Residential Project Block 6H, James Bajet, 619-533-3046

i. Sewer and AC Water Group 785, Roberto Vejar-Parra, 619-533-5402

j. Group Job 13B Bond CR Obstruction DS, Jericho Gallardo, 619-533-7523

k. Ingulf Street, James Bajet, 619-533-3046

2-16 CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM. To the City Supplement, item 1, DELETE in its entirety.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.6 Preapproved Materials. To the City Supplement, ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-1.6 Trade Names or Equals. To the City Supplement, ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item **no less than 15 Working Days prior to the Bid due date** and on the City's Product Submittal Form available at:

http://www.sandiego.gov/publicworks/edocref/index.shtml

SECTION 5 – UTILITIES

5-2 PROTECTION. To the City Supplement, item 2, ADD the following:

g) Refer to Appendix "J" for more information on the protection of AMI devices.

5-6 COOPERATION. ADD the following:

1. Notify SDG&E at least **10 Working Days** prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

6-2.1 Moratoriums. To the City Supplement, ADD the following:

a) See Appendix "Q"

ADD:

6-3.2.1.1 Environmental Document.

1. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a Notice of Exemption] for Sewer Pipeline Rehabilitation AE1, DEP No. B-14030.02.06, as referenced in the Contract Appendix. You shall comply with all requirements of the Notice of Exemption as set forth in Appendix A.

2. Compliance with the City's environmental document shall be included in the Contract Price, unless separate bid items have been provided.

6-7 TIME OF COMPLETION. To the City Supplement, ADD the following:

2. You shall complete the liner installation of 4 miles of sewer mains by June 30, 2017 and the remaining liner installation of sewer mains and all the lateral reinstatements as verified by the Engineer within 240 Working Days from the date of NTP. Complete the remaining Work as part of this project, including lateral lining and post-lining CCTV video, within the remaining number of Working Days.

6-7.1 General. To the City Supplement, item 3, ADD the following:

d) 30 Days for full depth asphalt final mill and resurfacing work required per SDG-107.

6-8.3 Warranty. To the City Supplement, item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date that the Work was accepted by the City. Additionally, you shall warranty the Work against all latent and patent defects for a period of 10 years.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-3 INSURANCE. DELETE in its entirety and SUBSTITUTE with the following:

7-3 INSURANCE.

1. The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

7-3.1 Policies and Procedures.

1. You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.

2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.

3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.

4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.

5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.

2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).

3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You

shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.

4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

General Annual Aggregate Limit	Limits of Liability
Other than Products/Completed Operations	$2,000,000
Products/Completed Operations Aggregate Limit	$2,000,000
Personal Injury Limit	$1,000,000
Each Occurrence	$1,000,000

7-3.2.2 Commercial Automobile Liability Insurance.

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of $1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").

2. All costs of defense shall be outside the limits of the policy.

7-3.2.3 Contractors Pollution Liability Insurance.

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than $2,000,000 limit for bodily injury and property damage.

2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.

3. For approval of a substitution of your Subcontractor's insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed $25,000 per claim.

4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or

organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability.

5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.

6. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

7-3.3 **Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

7-3.3.1 **Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

7-3.4 **Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

7-3.5 **Policy Endorsements.**

7-3.5.1 **Commercial General Liability Insurance.**

7-3.5.1.1 **Additional Insured.**

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.

2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.

3. The additional insured coverage for projects for which the Engineer's Estimate is $1,000,000 or more shall include liability arising out of:

   a) Ongoing operations performed by you or on your behalf,

   b) your products,

   c) your Work, e.g., your completed operations performed by you or on your behalf, or

   d) premises owned, leased, controlled, or used by you.

4. The additional insured coverage for projects for which the Engineer's Estimate is less than $1,000,000 shall include liability arising out of:

   a) Ongoing operations performed by you or on your behalf,

   b) your products, or

   c) premises owned, leased, controlled, or used by you.

7-3.5.1.2 **Primary and Non-Contributory Coverage.** The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

7-3.5.1.3 **Project General Aggregate Limit.** The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

7-3.5.2 **Commercial Automobile Liability Insurance.**

7-3.5.2.1 **Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on

your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

7-3.5.3 Contractors Pollution Liability Insurance Endorsements.

7-3.5.3.1 Additional Insured.

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:

   a) Ongoing operations performed by you or on your behalf,

   b) your products,

   c) your work, e.g., your completed operations performed by you or on your behalf, or

   d) premises owned, leased, controlled, or used by you.

   Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

7-3.5.3.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

7-3.5.3.3 Severability of Interest. For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured

against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

7-3.6 **Deductibles and Self-Insured Retentions.** You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

7-3.7 **Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

7-3.8 **Notice of Changes to Insurance.** You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

7-3.9 **Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

7-3.10 **Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**

1. For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc.) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of $**1,000,000** per claim and $**2,000,000** annual aggregate in full force and effect.
2. You shall ensure the following:
   a) The policy retroactive date is on or before the date of commencement of the Project.
   b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
   a) Certify this to the City in writing and
   b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

7-4 **NOT USED.** DELETE in its entirety and SUBSTITUTE with the following:

7-4 **WORKERS' COMPENSATION INSURANCE AND EMPLOYERS LIABILITY INSURANCE.**

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance shall be not less than the following:

Workers' Compensation	Statutory Employers Liability
Bodily Injury by Accident	$1,000,000 each accident
Bodily Injury by Disease	$1,000,000 each employee
Bodily Injury by Disease	$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

7-4.1. **Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

7-8.6 **Water Pollution Control.** To the City Supplement, ADD the following:

6. Based on a preliminary assessment by the City, this Contract is subject to WPCP.

7-20 **ELECTRONIC COMMUNICATION.** To the City Supplement, ADD the following:

2. Virtual Project Manager shall be used on this Contract.

7-21.1 **General.** To the City Supplement, item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. During the construction phase of projects, the minimum waste management reduction goal is 90% of the inert material (a material not subject to decomposition such as concrete, asphalt, brick, rock, block, dirt,

metal, glass, and etc.) and 65% of the remaining project waste. You shall provide appropriate documentation, including a Waste Management Form attached as an appendix, and evidence of recycling and reuse of materials to meet the waste reduction goals specified.

7-22.17 **Monitoring of Potentially Petroleum Contaminated Soil.** To the City Supplement, ADD the following:

5. The areas of known or suspected contamination are as follows:

   a) There are 25 underground leaking storage tank (LUST) cases documented within 1,000 feet of the project, and 1 Envirostor case within 1,000 feet

SECTION 9 - MEASUREMENT AND PAYMENT

ADD:

9-3.7 **Compensation Adjustments for Price Index Fluctuations.** To the City Supplement ADD the following:

5. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

SECTION 203 – BITUMINOUS MATERIALS

203-3.4.4 **RUBBER POLYMER MODIFIED SLURRY (RPMS).** To the City Supplement, ADD the following:

1. RPMS shall be used on this Contract.

SECTION 302 – ROADWAY SURFACING

302-4.12.2.1 **General.** To the City Supplement, ADD the following:

3. When Type I is to be applied over Type III, corrective action in accordance with 302-4.11.1.2, "Reduction in Payment Based on WTAT" such as reductions in payment, non-payment, or removal of Type III material not meeting specifications as directed by the Engineer shall be executed prior to the application of the Type I material.

302-4.12.4 **Measurement and Payment.** To the City Supplement, item 2, Bid Description Table, ADD the following:

BID DESCRIPTION	UNIT
Rubber Polymer Modified Slurry (RPMS) Type I Over Type III and Striping	SF

302-7.4 **Payment.** To the City Supplement, item 1, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Payment shall not be made for additional fabric for overlapped areas.

SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

306-15.2 **Shoring and Bracing.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

1. The Bid Item for "Trench Shoring" shall include full compensation for furnishing, installing, maintaining, and removing all sheeting, shoring, or bracing for any conditions encountered that require shoring including the preparation of engineered Shoring Plans in accordance with Section 7-10.4.2.2 "Shoring Plan". No additional payment shall be made.

SECTION 500 – PIPELINE, MANHOLE, AND STRUCTURE REHABLITATION

500-1.1.2.1 **Initial Submittals.** To the City Supplement, ADD the following:

4. Within 3 Working Days of the Bid opening date, the 3 apparent low bidders shall submit the following:

   a) Contractor's Experience; past project documentation

   b) Manufacturer Certification

   c) Authorize Installer Certificates

ADD:

500-1.1.6.1 **Order of Work for Rehabilitation Installation.**

1. Rehabilitation shall be performed in the following order of Work:

   a) First: Rehabilitation of Sewer Main, including sampling and testing.

   b) Second: Installation of Sewer Lateral Connections and End Seals.

c) Third: Rehabilitation of Sewer Laterals, including sampling and testing.

2. You shall plan and schedule Work accordingly. Additional payment for demobilization or mobilization and additional Working Days shall not be granted for delays due to the order of rehabilitation Work.

500-1.6.6 **Payment.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

1. The payment for the service lateral rehabilitation Work of existing sewer laterals, existing cast iron sewer laterals, cleanout installations at the access point, and manual excavations for cleanout pits shall be included in the following Bid items:

Service Lateral Rehabilitation with Cleanout up to 7 Feet in Depth
Service Lateral Rehabilitation with Cleanout Greater than 7 Feet in Depth

These Bid items shall include all necessary labor, materials, and equipment in order to clean, repair, and line the Sewer Lateral.

2. The point repair Work for sewer laterals shall be in accordance with 500-1.2, "Pipeline Point Repair/Replacement" and shall be included in the Bid item for each "Point Repair for Existing Sewer Lateral". Measurement shall be made at the pipe and shall be based on the length of pipe repaired. You shall be paid for 1 point repair for each repair 8 ft (2.43 m) or less in length. This payment shall include all necessary labor, materials, and equipment to clean, repair, excavate, and inspect the Point Repair.

3. The payment for cleaning and video inspection for rehabilitated laterals shall be paid in accordance with 306-18.7, "Payment".

SECTION 601- TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES

601-2.1.2 **Engineered Traffic Control Plans (TCP).** ADD the following:

6. Engineered TCP (2 foot x 3 foot size) shall be required for the following areas:

   a) Clairemont Drive between Morena Blvd and Denver Street

   b) Portions of Morena Blvd

   c) Other streets within the project, as required.

SECTION 700 – MATERIALS

700-9.1 **Pedestrian Barricade.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

3. Pedestrian barricades shall be constructed in accordance with the City of San Diego Standard Drawing SDE-103, "Pedestrian Barricade".

4. Curb ramp barricades shall be constructed in accordance with the City of San Diego Standard Drawing SDG-140, "Curb Ramp Barricade".

5. Assembly shall be commercial quality galvanized material.

SECTION 701 – CONSTRUCTION

701-2 **PAYMENT.** To the City Supplement, ADD the following:

19. The payment for Pedestrian Barricades shall be included in the Bid item for each "Pedestrian Barricade".

20. The payment for Curb Ramp Barricades shall be included in the Bid item for each "Curb Ramp Barricade".

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)
SECTION A – GENERAL REQUIREMENTS

4.1 **NONDISCRIMINATION IN CONTRACTING ORDINANCE.** To the City Supplement, subsection 4.1.1, paragraph (2), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

SUPPLEMENTARY SPECIAL PROVISIONS

APPENDICES

APPENDIX A

NOTICE OF EXEMPTION AND NOTICE OF RIGHT TO APPEAL (NORA) ENVIRONMENTAL DETERMINATION

NOTICE OF EXEMPTION

(Check one or both)

TO: __X__ RECORDER/COUNTY CLERK
P.O. BOX 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422

_____ OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

FROM: CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT
525 B STREET, SUITE 750, MS 908A
SAN DIEGO, CA 92101

PROJECT/WBS NO.: B-14030.02.06

PROJECT TITLE: Pipeline Rehabilitation AE-1

PROJECT LOCATION-SPECIFIC: The project is located along Stacy Place, Stacy Avenue, Ute Drive, Waco Street, Tomahawk Lane, Cowley Way, the alley between Clairemont Drive and Waco Street, Clairemont Drive, Shawnee Road, Mark Trail, Natchez Avenue, Iroquois Avenue, Iroquois Way, Jumano Avenue, Huron Avenue, Lackawanna Way, Denver Street, Dakota Drive, Donley Street, Fallbrook Lane, Field Street, Kaibab Court, Erie Street, Gesner Street, Chicago Street, Edison Street, Dillon Way, Morena Boulevard, McGraw Street, Cobridge Way, Lloyd Street, Lloyd Terrace, Lloyd Place, Baker Street, Borreson Street, Crete Street, Baltimore Street, MacTibby Street, Ticonderoga Street, Vista De La Orilla, Vista Del Conquistador, Via Beltran, Vista De La Bahia, Mount Laurence Drive, Don Lorenzo Drive, Mount Sandy Drive, Brandywine Street, Bunker Hill Street, Trenton Avenue, the alley west of Trenton Avenue, Moultrie Avenue, the alley west of Moultrie Avenue, Princeton Avenue, the alley west of Princeton Avenue, Ethan Allen Avenue, the alley west of Ethan Allen Avenue, and the alley west of Paul Jones Avenue; and in the following easements: between 3559 Waco Street and 3552 Tomahawk Lane; between 3569 Tomahawk Lane and 3560 Cowley Way; between 3619 Vista De La Bahia, and 3814 Vista del Conquistador; between 3807 Vista del Conquistador, and 3760 Sioux Avenue; within the Clairemont Mesa community planning area (Council District 2).

PROJECT LOCATION-CITY/COUNTY: San Diego/San Diego

DESCRIPTION OF NATURE, PURPOSE & BENEFICIARIES OF PROJECT: The project will rehabilitate approximately 8.8 miles of existing 8-inch and 10-inch aging sewer mains, perform point repairs as needed, and line the laterals in the right-of-way. It will top-hat *only* laterals in easements. It will also rehabilitate, replace, and repair manholes, replace 25 plugs with cleanouts in the street, and install a lateral cleanout at each property line when lining a lateral. On Stacy Avenue 371 linear feet of existing sewer main will be constructed as replace-in-place using open-trench construction, including up to 12 laterals that will be replumbed. Point repairs will require a smaller open trench to replace segments of pipe that may be unsuitable for lining to pass through. After a point repair, the main or lateral will be lined. Installation of ADA compliant curb ramps, street resurfacing, and any necessary lane painting may be included in the project. The project, including staging activities, would occur entirely within urban/developed land, and it will occur entirely within previously disturbed soils. Sewer Rehab AE-1 will implement storm water best management practices. No impact to sensitive biological resources would result from project implementation.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego Public Works Department;
Contact: Maryam Liaghat; Ph: (619) 533-5192
525 B Street, Suite 750, San Diego, CA 92101

EXEMPT STATUS: (CHECK ONE)

( ) MINISTERIAL (SEC. 21080(b)(1); 15268);
( ) DECLARED EMERGENCY (SEC. 21080(b)(3); 15269(a));
( ) EMERGENCY PROJECT (SEC. 21080(b)(4); 15269 (b)(c))
(X) CATEGORICAL EXEMPTION: §15301(b) [Existing Facilities], and §15302(c) [Replacement or Reconstruction]
( ) STATUTORY EXEMPTIONS:

REASONS WHY PROJECT IS EXEMPT: The City of San Diego conducted an environmental review and determined the project meets the categorical exemption criteria set forth in the CEQA State Guidelines §15301(B) [EXISTING FACILITIES], which allows for the repair and maintenance of existing public facilities, including publicly owned utilities, involving negligible or no expansion of the use beyond that existing at the time of the lead agency's determination; §15302(C) [REPLACEMENT OR

RECONSTRUCTION], which allows for the replacement or reconstruction of existing utility systems, where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced; and where the exceptions listed in CEQA Guidelines §15300.2 would not apply. This project would not impact sensitive resources.

LEAD AGENCY CONTACT PERSON: JUAN BALIGAD, SENIOR PLANNER TELEPHONE: (619) 533-5473

IF FILED BY APPLICANT:

1. ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING.
2. HAS A NOTICE OF EXEMPTION BEEN FILED BY THE PUBLIC AGENCY APPROVING THE PROJECT?
   ( ) YES ( ) NO

CARRIE PURCELL, PRINCIPAL PLANNER

12/28/15
DATE

CHECK ONE:
(X) SIGNED BY LEAD AGENCY
( ) SIGNED BY APPLICANT

DATE RECEIVED FOR FILING AT OPR:

THE CITY OF SAN DIEGO

Date of Notice: December 11, 2015

NOTICE OF RIGHT TO APPEAL ENVIRONMENTAL DETERMINATION

PUBLIC WORKS DEPARTMENT
WBS No. B-14030.02.06

PROJECT NAME/NUMBER: Pipeline Rehabilitation AE-1

COMMUNITY PLAN AREA: Clairemont

COUNCIL DISTRICT: 2

LOCATION: The project is located along Stacy Place, Stacy Avenue, Ute Drive, Waco Street, Tomahawk Lane, Cowley Way, the alley between Clairemont Drive and Waco Street, Clairemont Drive, Shawnee Road, Mark Trail, Natchez Avenue, Iroquois Avenue, Iroquois Way, Jumano Avenue, Huron Avenue, Lackawanna Way, Denver Street, Dakota Drive, Donley Street, Fallbrook Lane, Field Street, Kaibab Court, Erie Street, Gesner Street, Chicago Street, Edison Street, Dillon Way, Morena Boulevard, McGraw Street, Cobridge Way, Lloyd Street, Lloyd Terrace, Lloyd Place, Baker Street, Borreson Street, Crete Street, Baltimore Street, MacTibby Street, Ticonderoga Street, Vista De La Orilla, Vista Del Conquistador, Via Beltran, Vista De La Bahia, Mount Laurence Drive, Don Lorenzo Drive, Mount Sandy Drive, Brandywine Street, Bunker Hill Street, Trenton Avenue, the alley west of Trenton Avenue, Moultrie Avenue, the alley west of Moultrie Avenue, Princeton Avenue, the alley west of Princeton Avenue, Ethan Allen Avenue, the alley west of Ethan Allen Avenue, and the alley west of Paul Jones Avenue; and in the following easements: between 3559 Waco Street and 3552 Tomahawk Lane; between 3569 Tomahawk Lane and 3560 Cowley Way; between 3619 Vista De La Bahia, and 3814 Vista del Conquistador; between 3807 Vista del Conquistador, and 3760 Sioux Avenue; within the Clairemont Mesa community planning area (Council District 2).

PROJECT DESCRIPTION: The project will rehabilitate approximately 8.8 miles of existing 8-inch and 10-inch aging sewer mains, perform point repairs as needed, and line the laterals in the right-of-way. It will top-hat *only* laterals in easements. It will also rehabilitate, replace, and repair manholes, replace 25 plugs with cleanouts in the street, and install a lateral cleanout at each property line when lining a lateral. On Stacy Avenue 371 linear feet of existing sewer main will be constructed as replace-in-place

using open-trench construction, including up to 12 laterals that will be replumbed. Point repairs will require a smaller open trench to replace segments of pipe that may be unsuitable for lining to pass through. After a point repair, the main or lateral will be lined. Installation of ADA compliant curb ramps, street resurfacing, and any necessary lane painting may be included in the project. The project, including staging activities, would occur entirely within urban/developed land, and it will occur entirely within previously disturbed soils. Sewer Rehab AE-1 will implement storm water best management practices. No impact to sensitive biological resources would result from project implementation.

ENTITY CONSIDERING PROJECT APPROVAL: City of San Diego

ENVIRONMENTAL DETERMINATION: Categorically exempt from CEQA pursuant to CEQA State Guidelines Sections 15301(b) [Existing Facilities], and 15302(c) [Replacement or Reconstruction]

ENTITY MAKING ENVIRONMENTAL DETERMINATION: City of San Diego Public Works Department

STATEMENT SUPPORTING REASON FOR ENVIRONMENTAL DETERMINATION: The City of San Diego conducted an environmental review and determined the project meets the categorical exemption criteria set forth in the CEQA State Guidelines §15301(B) [EXISTING FACILITIES], which allows for the repair and maintenance of existing public facilities, including publicly owned utilities, involving negligible or no expansion of the use beyond that existing at the time of the lead agency's determination; §15302(C) [REPLACEMENT OR RECONSTRUCTION], which allows for the replacement or reconstruction of existing utility systems, where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced; and where the exceptions listed in CEQA Guidelines §15300.2 would not apply. This project would not impact sensitive resources.

CITY CONTACT:	**Maryam Liaghat, Associate Engineer**
MAILING ADDRESS:	525 B Street, Suite 750, MS 908A San Diego, CA 92101
PHONE NUMBER:	**(619) 533-5192**

POSTED IN THE OFFICE OF DSD
Posted DEC 09 2015 mu
Removed DEC 30 2015
Posted by Myrallo

On December 11, 2015, the City of San Diego made the above-referenced environmental determination pursuant to the California Environmental Quality Act (CEQA). This determination is appealable to the City Council. If you have any questions about this project, contact the City Project Manager listed above.

Applications to appeal CEQA determination made by staff to the City Council must be filed in the office of the City Clerk within 10 business days from the date of the posting of this Notice: December 24, 2015. The appeal application can be obtained from the City Clerk, 202 'C' Street, Second Floor, San Diego, CA 92101.

This information will be made available in alternative formats upon request.

APPENDIX B

FIRE HYDRANT METER PROGRAM

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 1OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

Reference

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.

3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. POLICY

4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.

4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.

4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:

a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.

b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:

1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.

3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).

4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).

5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).

6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.

7. All private fire hydrant meters shall have backflow devices attached when installed.

8. The customer must maintain and repair their own private meters and private backflows.

9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.

10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.

12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.

13. The outlet shall have a 2 ½ "National Standards Tested (NST) fire hydrant male coupling.

14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).

4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.

4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 **Conditions and Processes for Issuance of a Fire Hydrant Meter**

Process for Issuance

a. Fire hydrant meters shall only be used for the following purposes:

1. Temporary irrigation purposes not to exceed one year.

2. Construction and maintenance related activities (see Tab 2).

b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.

c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.

d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.

e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.

f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.

g. After the fees have been paid and an account has been created, the

meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 **Relocation of Existing Fire Hydrant Meters**

a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as "Hotline"), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter's relocation.

b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.

c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 **Disconnection of Fire Hydrant Meter**

a. After ten (10) months a "Notice of Discontinuation of Service" (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.

b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

for removal of the meter.

c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.

d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.

e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. EXCEPTIONS

5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. MOBILE METER

6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

a) **Vehicle Mounted Meters**: Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters**: Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

    1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.

    2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

7. FEE AND DEPOSIT SCHEDULES

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. Theses deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. UNAUTHORIZED USE OF WATER FROM A HYDRANT

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

Larry Gardner
Water Department Director

Tabs:
1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index:
Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders

Application for Fire Hydrant Meter (EXHIBIT A)

City of San Diego PUBLIC UTILITIES Water & Wastewater

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Application Date	Requested Install Date:

Meter Information

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) Zip:	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so , explain:		
Estimated Duration of Meter Use: ☐ Check Box If Reclaimed Water		

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
*Business license#	*Contractor license#		
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: (PERSON IN ACCOUNTS PAYABLE)			Phone: ( )
Site Contact Name and Title:			Phone: ( )
Responsible Party Name:			Title:
Cal ID#			Phone: ( )
Signature:		Date:	

Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter

☐ Fire Hydrant Meter Removal Request		Requested Removal Date:
Provide Current Meter Location If Different from Above:		
Signature:	Title:	Date:
Phone: ( )	Pager: ( )	

☐ City Meter	☐ Private Meter		
Contract Acct #:	Deposit Amount: $ 936.00	Fees Amount: $ 62.00	
Meter Serial #	Meter Size: 05	Meter Make and Style: 6-7	
Backflow #	Backflow Size:	Backflow Make and Style:	
Name:	Signature:	Date:	

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number:_____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter #_____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619)_____-_____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D

SAMPLE CITY INVOICE

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123		**Contractor's Name:**	
Project Name:		Contractor's Address:	
Work Order No or Job Order No.			
City Purchase Order No.		Contractor's Phone #:	**Invoice No.**
Resident Engineer (RE):		Contractor's fax #:	**Invoice Date:**
RE Phone#:	Fax#:	Contact Name:	Billing Period: (to

Item #	Item Description	Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
		Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1					$ -		$ -		$ -	0.00%	$ -
2					$ -		$ -		$ -	0.00%	$ -
3					$ -		$ -		$ -	0.00%	$ -
4					$ -		$ -		$ -	0.00%	$ -
5					$ -		$ -		$ -	0.00%	$ -
6					$ -		$ -		$ -	0.00%	$ -
7					$ -		$ -		$ -	0.00%	$ -
8					$ -		$ -		$ -	0.00%	$ -
9					$ -		$ -		$ -	0.00%	$ -
10					$ -		$ -		$ -	0.00%	$ -
11					$ -		$ -		$ -	0.00%	$ -
12					$ -		$ -		$ -	0.00%	$ -
13					$ -		$ -		$ -	0.00%	$ -
14					$ -		$ -		$ -	0.00%	$ -
15					$ -		$ -		$ -	0.00%	$ -
16					$ -		$ -		$ -	0.00%	$ -
17	**Field Orders**				$ -		$ -		$ -	0.00%	$ -
18					$ -		$ -		$ -	0.00%	$ -
	CHANGE ORDER No.				$ -		$ -		$ -	0.00%	$ -
					$ -		$ -		$ -	0.00%	$ -
	Total Authorized Amount (including approved Change Order)				**$ -**		$ -		$ -	**Total Billed**	$ -

SUMMARY

A. Original Contract Amount	$ -
B. Approved Change Order #00 Thru #00	$ -
C. Total Authorized Amount (A+B)	$ -
D. Total Billed to Date	$ -
E. Less Total Retention (5% of D)	$ -
F. Less Total Previous Payments	$ -
G. Payment Due Less Retention	**$0.00**
H. Remaining Authorized Amount	$0.00

I certify that the materials have been received by me in the quality and quantity specified

Resident Engineer

Construction Engineer

Retention and/or Escrow Payment Schedule

Total Retention Required as of this billing (Item E)	$0.00
Previous Retention Withheld in PO or in Escrow	$0.00
Add'l Amt to Withhold in PO/Transfer in Escrow:	***$0.00***
Amt to Release to Contractor from PO/Escrow:	

Contractor Signature and Date: _____

APPENDIX E

LOCATION MAP

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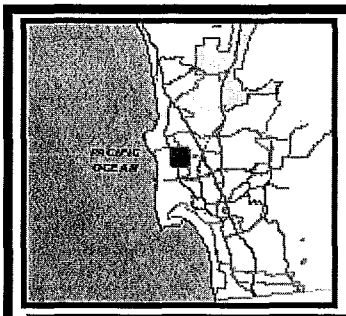


The City of
SAN DIEGO Public Works

Pipeline Rehabilitation AE-1

SENIOR ENGINEER	PROJECT MANAGER	PROJECT ENGINEER	FOR QUESTIONS ABOUT THIS PROJECT
Michael Ninh	Maryam Liaghat	Lisa Canning	Call: (619) 533-4207
(619) 533-7443	(619) 533-5192	(619)-533-4613	Email: engineering@sandiego.gov

Legend

Work to be Performed

- PR/Rehab
- Rehab
- Replace

0 0.1 0.2 0.4 Miles

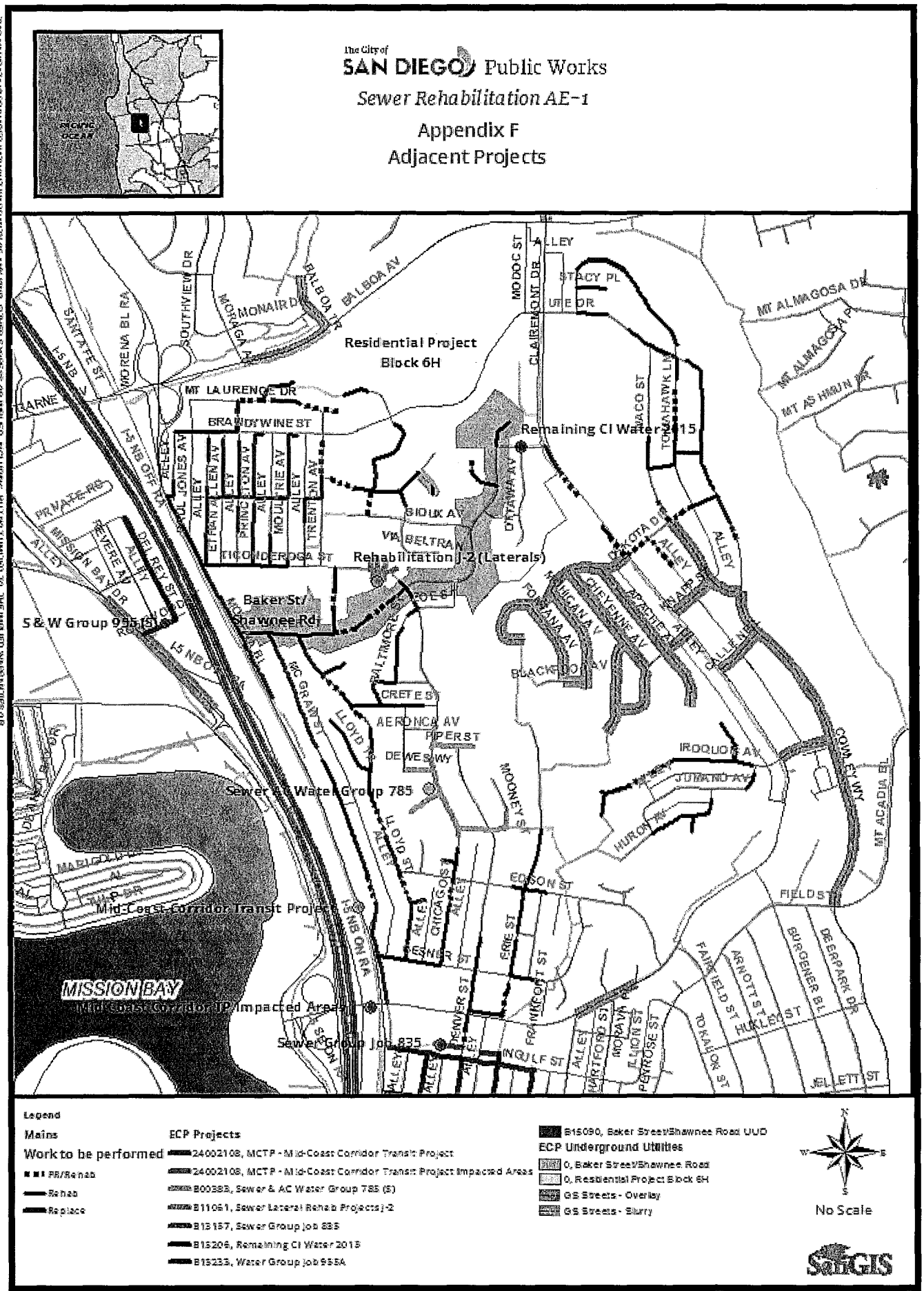
COMMUNITY NAME: CLAIREMONT MESA,

COUNCIL DISTRICT: 2

SAP ID: B-14030

APPENDIX F

ADJACENT PROJECTS



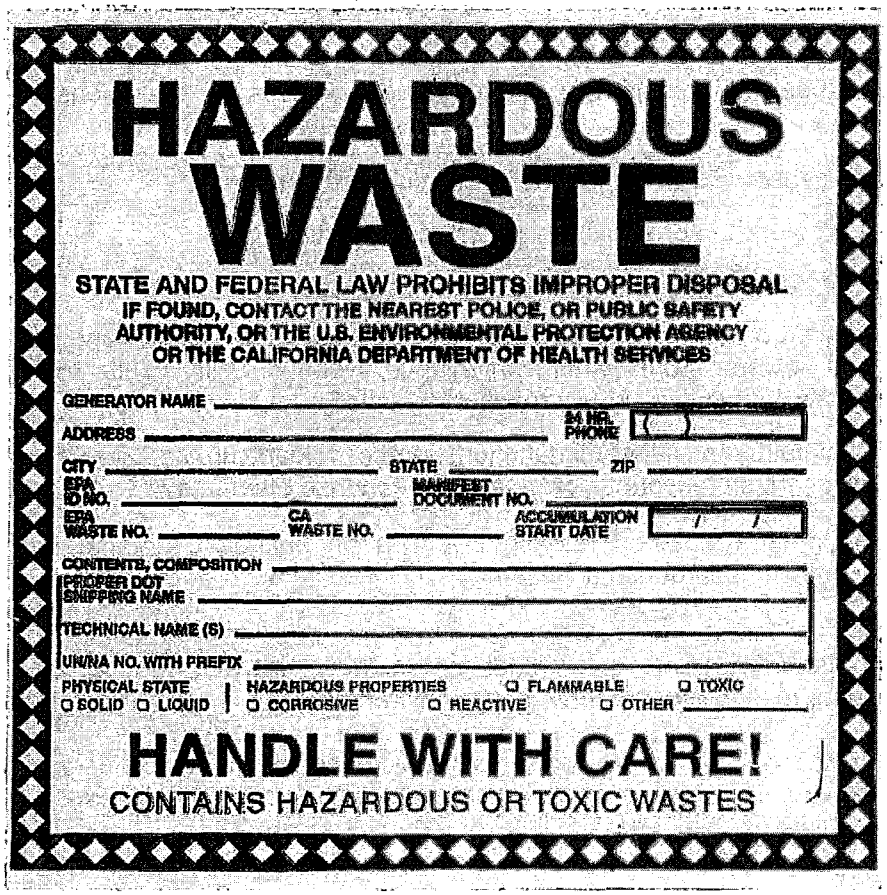
COMMUNITY NAME: CLAIREMONT MESA | COUNCIL DISTRICT: 2 | SAP ID: B-14030

AE-1 Map No(s)	Street	Project CIP/ WBS	Project Name	CIP Type	Begin Const	End Const	Moratorium End	Department	Contact Email	Project Manager	PM Phone #
11	Ticonderoga	B-11061	Rehabilitation J-2 (Laterals)	Sewer	12/18/2015	3/23/2018	n/a	PW-ROW	LCanning@sandiego.gov	M. Liaghat	619-533-5198
32, 7	Rappahannock, Morena	B-15206	Remaining CI Water 2015	Water	5/11/2017	12/29/2017	12/29/2018	PW-AEP	Aaltes@sandiego.gov	A. Altes	619-990-2635
22	Denver St.	B-13157	Sewer Group Job 835	Sewer	11/29/2016	2/27/2018	2/27/2019	PW-ROW	Rnavarro@sandiego.gov	S. Gamueda	619-533-5227
1 thru 11	various	UU874	Residential Project Block 6H	Utilities	12/6/2016	2/8/2019	2/8/2020	T&SW	Mreyes@sandiego.gov	M. Reyes	619-980-2089
9-11, 32	Baker, Chicage, Mark, Shawnee	UU302	Baker Street/Shawmee Road	Utilties	6/23/2016	6/23/2018	6/23/2019	T&SW	Mreyes@sandiego.gov	M. Reyes	619-980-2089
22	Denver St.	B-15233	Water Group Job 955A	Water	7/27/2016	9/1/2017	9/1/2018	PW-ROW	RDiawatan@sandiego.go	M.Oriqat	619-533-5232
17	Chicago St	B-00383	Sewer & AC Water Group 785 (S)	Sewer & Water	3/1/2016	5/31/2017	5/31/2018	PW-ROW	Jsoriano@sandiego.gov	J. Soriano	
9-11, 23	Baker, Shawnee	B-15090	Baker St/ Shawnee Rd/UUD	Utilities	9/1/2016	9/29/2017	8/29/2018	T&SW	Jxiao@sandiego.gov	J. Xiao	619-533-5496
26	Cowley Wy	SS-008153	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
28	Cowley Wy	SS-008154	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
34	Iroquois St	SS-014243	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
33	Iroquois St	SS-014244	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
35	Iroquois St	SS-014247	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
20	Frankfort	SS-011422	AC Overlay 1501-JOC6	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
19	Gesner	SS-012092	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
20	Gesner	SS-012094	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
20	Gesner	SS-012096	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
23	Gesner	SS-012098	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
23	Gesner	SS-012099	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
19	Gesner	SS-012100	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
17	Edison St	SS-009913	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
21	Edison St	SS-009914	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
21	Edison St	SS-009920	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
21	Erie St	SS-010412	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
20, 21	Erie St	SS-010413	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
22	Erie St	SS-010415	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
20	Field St	SS-011088	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
19, 17	Chicago St	SS-007122	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
19	Gesner St	SS-007267	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
22	Clairemont Dr.	SS-007277	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
22	Clairemont Dr.	SS-007278	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov		
3	Vista de la Bahia	SS-028047	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
27	Dakota Dr	SS-028169	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
26, 27, 29	Waco St.	SS-028171	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
28	Dakota Dr	SS-008595	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
29	Dakota Dr	SS-008596	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
29. 30	Dakota Dr	SS-008600	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
22	Ticonderoga St	SS-026485	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
24	Ute Dr	SS-027300	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081

10	Boreseson St	SS-004612	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
30	Clairemont Dr.	SS-007259	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
31	Clairemont Dr.	SS-007272	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
31	Clairemont Dr.	SS-007273	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
13	Lloyd Pl.	SS-007475	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
16, 17	Lloyd, Edison	SS-009912	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
20	Gesner St	SS-012095	AC Overlay 1510 JOC6	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
33	Jumano Av	SS-014746	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
33	Iroquois Wy	SS-014248	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
33	Kaibab Ct	SS-014856	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
34	Lackawanna Wy	SS-015714	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
18	Lloyd St	SS-016627	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
34	Huron Av	SS-013899	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
33, 34	Huron Av	SS-013900	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
34, 35	Huron Av	SS-013901	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
35	Iroquois Av	SS-014242	AC Overlay Group 1601	Streets	3/15/2016	10/15/2016	10/15/2021	T&SW	chudson@sandiego.gov	C. Hudson	619-527-8081
1, 23	Garnet Dr, Clairemont Dr.	24002108	MCTP -MidCoast Corridor Transit Project	CA HWY	10/30/2015	7/8/2019		CALTRANS	lschaar@sandiego.gov	L. Schaar	

APPENDIX G

HAZARDOUS LABEL /FORMS



HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR NAME _____

ADDRESS _____ 24 HR. PHONE ( )

CITY _____ STATE _____ ZIP _____

EPA ID NO. _____ MANIFEST DOCUMENT NO. _____

EPA WASTE NO. _____ CA WASTE NO. _____ ACCUMULATION START DATE / /

CONTENTS, COMPOSITION _____

PROPER DOT SHIPPING NAME _____

TECHNICAL NAME (S) _____

UN/NA NO. WITH PREFIX _____

PHYSICAL STATE ☐ SOLID ☐ LIQUID | HAZARDOUS PROPERTIES ☐ CORROSIVE ☐ REACTIVE ☐ FLAMMABLE ☐ TOXIC ☐ OTHER _____

HANDLE WITH CARE!

CONTAINS HAZARDOUS OR TOXIC WASTES

INCIDENT/RELEASE ASSESSMENT FORM [1]

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Questions for Incident Assessment:		YES	NO
1.	Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	☐	☐
2.	Did anyone, other than employees in the immediate area of the release, evacuate?	☐	☐
3.	Did the release cause off-site damage to public or private property?	☐	☐
4.	Is the release greater than or equal to a reportable quantity (RQ)?	☐	☐
5.	Was there an uncontrolled or unpermitted release to the air?	☐	☐
6.	Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	☐	☐
7.	Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	☐	☐
8.	Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	☐	☐
9.	Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	☐	☐
10.	Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	☐	☐

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

Call 911 in an emergency

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a "no" response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

[1] This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION Incident #

Date/Time Discovered	Date/Time Discharge	Discharge Stopped ☐ Yes ☐ No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: ☐Yes ☐No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

3. CHEMICAL INFORMATION

Chemical	Quantity ☐ GAL ☐ LBS ☐ FT^3
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT^3
Chemical	Quantity ☐ GAL ☐ LBS ☐ FT^3
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A

BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER ( ) -

B

INCIDENT DATE MO DAY YR	TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.

C

INCIDENT ADDRESS LOCATION	CITY / COMMUNITY	COUNTY ZIP

D

CHEMICAL OR TRADE NAME (print or type)	CAS Number

CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A ☐	CHECK IF RELEASE REQUIRES NOTIFI - CATION UNDER 42 U.S.C. Section 9603 (a) ☐

PHYSICAL STATE CONTAINED ☐ SOLID ☐ LIQUID ☐ GAS	PHYSICAL STATE RELEASED ☐ SOLID ☐ LIQUID ☐ GAS	QUANTITY RELEASED

ENVIRONMENTAL CONTAMINATION ☐ AIR ☐ WATER ☐ GROUND ☐ OTHER	TIME OF RELEASE	DURATION OF RELEASE ___DAYS ___HOURS ___MINUTES

E

ACTIONS TAKEN

F

KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information)

☐ ACUTE OR IMMEDIATE (explain) _____

☐ CHRONIC OR DELAYED (explain) _____

☐ NOTKNOWN (explain)

G

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

H

COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)

I

CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

REPORTING FACILITY REPRESENTATIVE (print or type) _____

SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____

EMERGENCY RELEASE FOLLOW-UP NOTICE
REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

State Emergency Response Commission (SERC)
Attn: Section 304 Reports
Hazardous Materials Unit
3650 Schriever Avenue
Mather, CA 95655

NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

APPENDIX H

SEWER MAINS AND MANHOLE REHABILITATION SAMPLE DATE TEMPLATES

REHAB DATA COLLECTION - MANHOLES

MH FSN	REHAB DATE	LINING TYPE	LINING MATERIAL VENDOR	LINING SYSTEM	REHAB CONTRACTOR	RIM ELEVATION	INVERT ELEVATION	ACTUAL DEPTH (VF)	COMMENTS	ACCEPTANCE DATE
70536	3/28/2007	POLYURETHANE	ZEBRON	ZEBRON CORPORATION	ZEBRON CORPORATION	49.8	41.95	7	Leave this row as a sample.	3/28/2007

APPENDIX I

SAMPLE OF PUBLIC NOTICES

The City of SAN DIEGO

CONSTRUCTION NOTICE

Sewer Rehabilitation AE-1

A Capital Improvement Program (CIP) project will begin in a week to rehabilitate the major sewer pipeline in the street and the service laterals up to the property lines in your area.

How your neighborhood may be impacted:

- For a limited time, crews will need to block off your sewer connection. **PLEASE AVOID USING YOUR WATER** since it is possible your system **MAY BACK UP AND FLOOD YOUR HOME.** Please **DO NOT** do laundry, wash dishes, bathe, shower or flush toilets during the hours of construction.
- Please observe the parking restrictions posted. "No Parking" and "Tow Away" signs will be posted 24 hrs. in advance of enforcement in affected areas. Access to your driveway may be temporarily restricted.
- Two-way traffic will be maintained at all times,

Hours and Days of Operation

- Monday through Friday from 7:30 a.m. to 4p.m.

Anticipated Construction Schedule:

- Spring 2017 to Summer 2018.

City of San Diego Contractor –

To contact the City of San Diego: SD Public Works
(619) 533-4207 | engineering@sandiego.gov | sandiego.gov/CIP

This information is available in alternative formats upon request.

The City of SAN DIEGO

CONSTRUCTION NOTICE

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City of San Diego Contractor –

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(619) 533-4207 | engineering@sandiego.gov | sandiego.gov/CIP

This information is available in alternative formats upon request.

APPENDIX J

ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

Protecting AMI Devices in Meter Boxes and on Street Lights

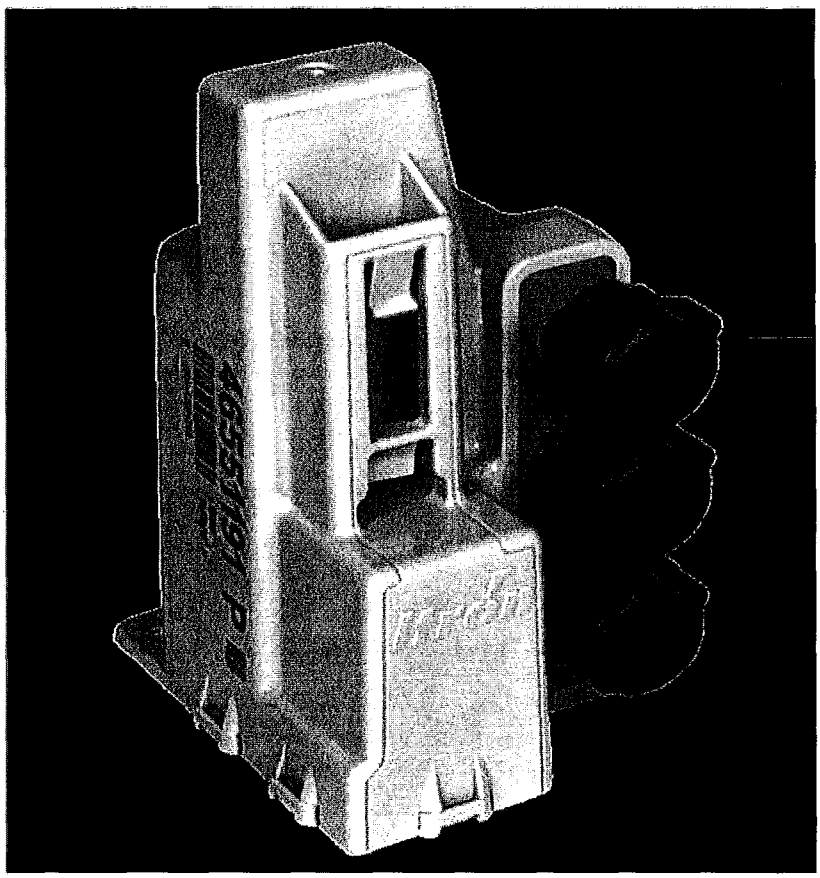
The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 5-2, "Protection", of the 2015 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

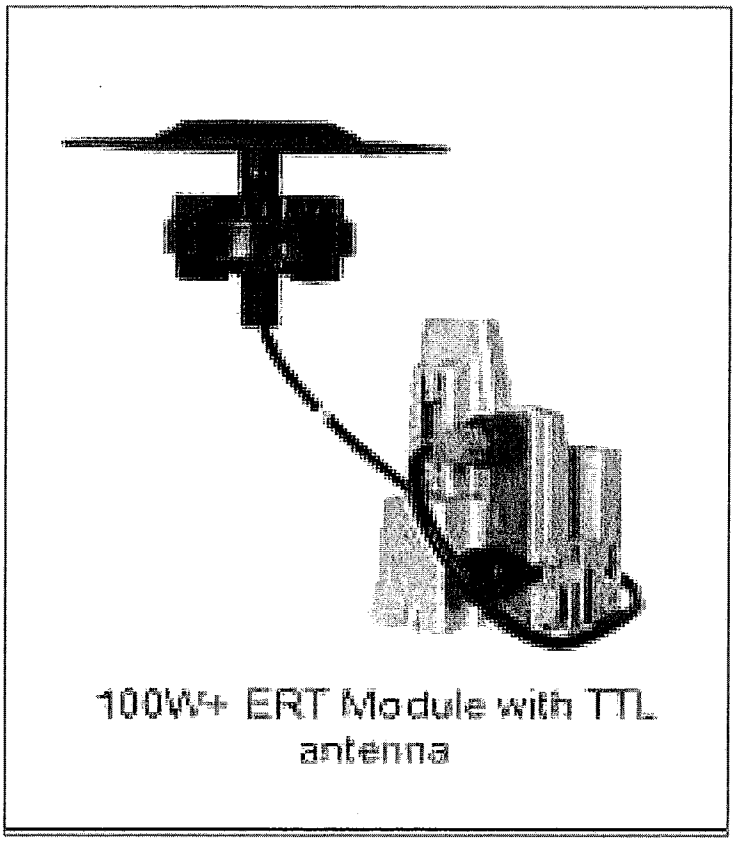
A. Endpoints, see Photo 1:

Photo 1



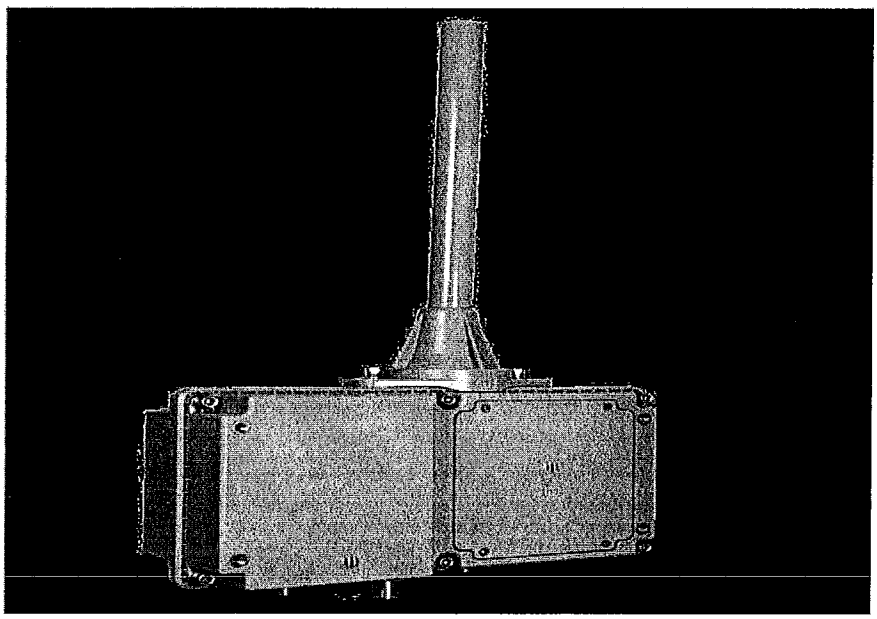
B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

Photo 2



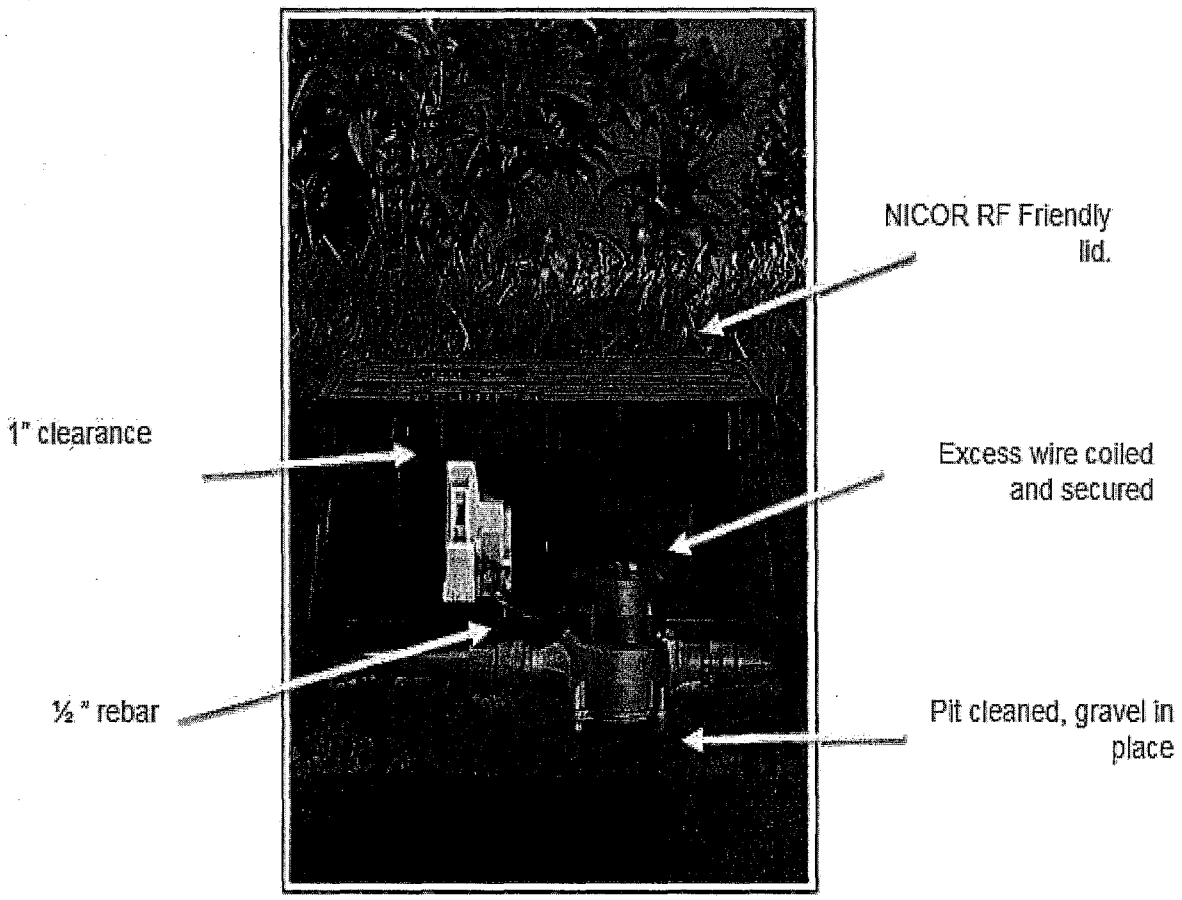
Network Devices, see Photo 3:

Photo 3



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

Photo 4



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document
Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

Photo 5

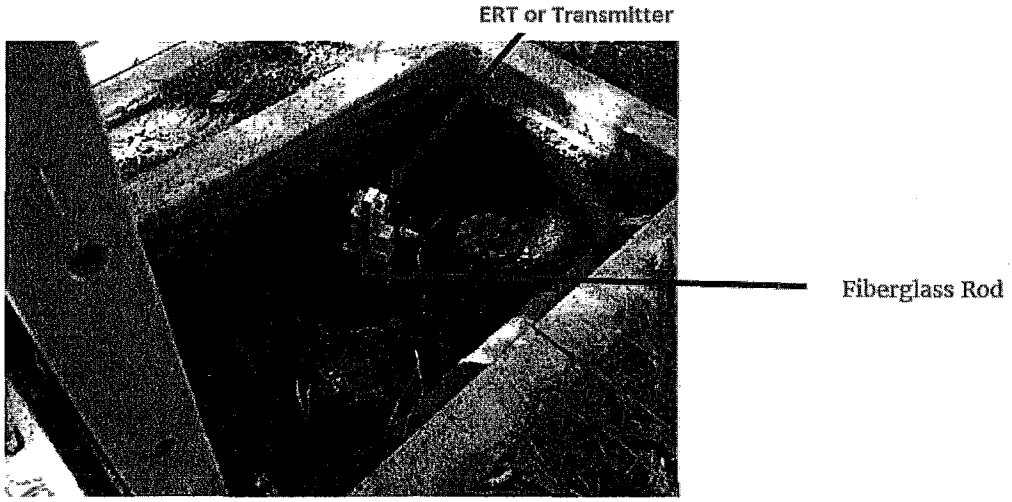
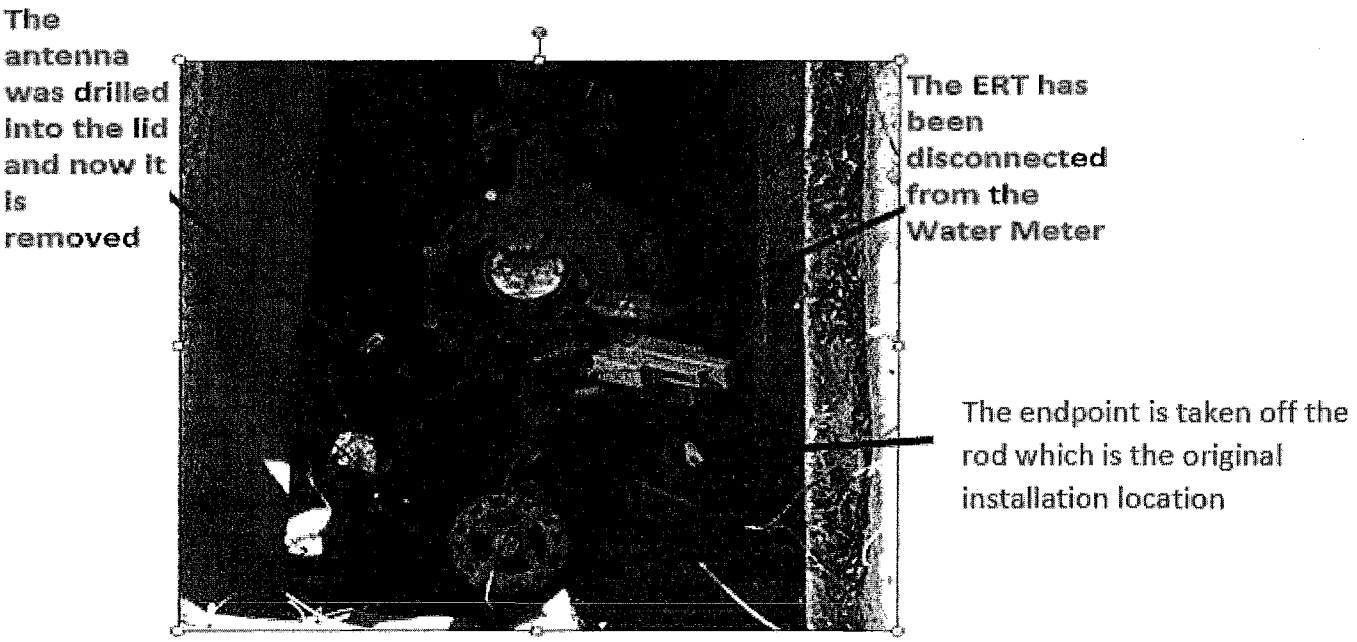


Photo 6 below is an example of disturbance that shall be avoided:

Photo 6



You are responsible when working in and around meter boxes. If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

Photo 7

Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

Photo 8

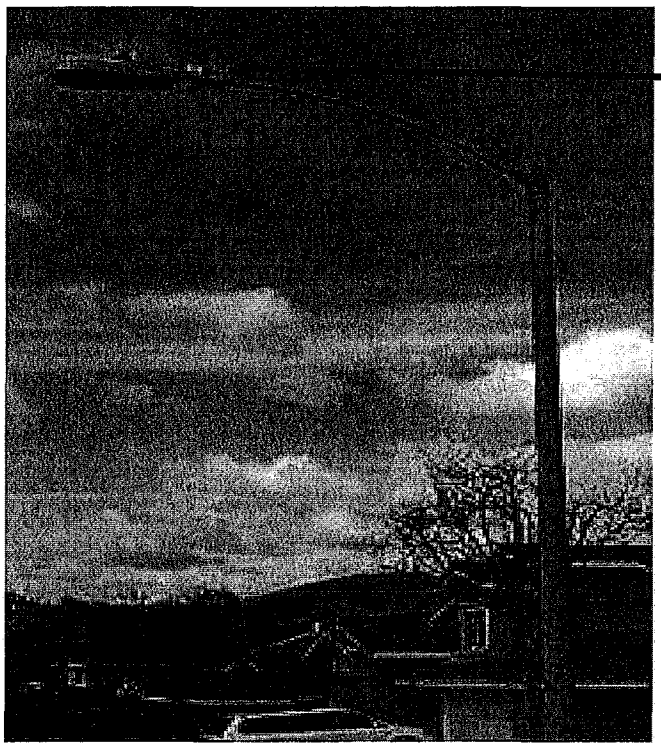
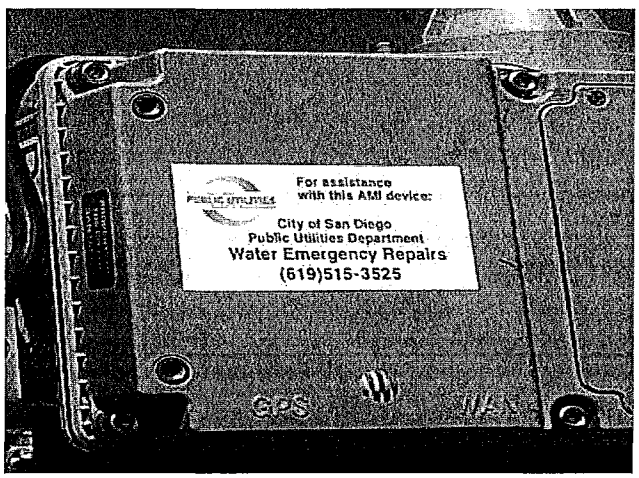


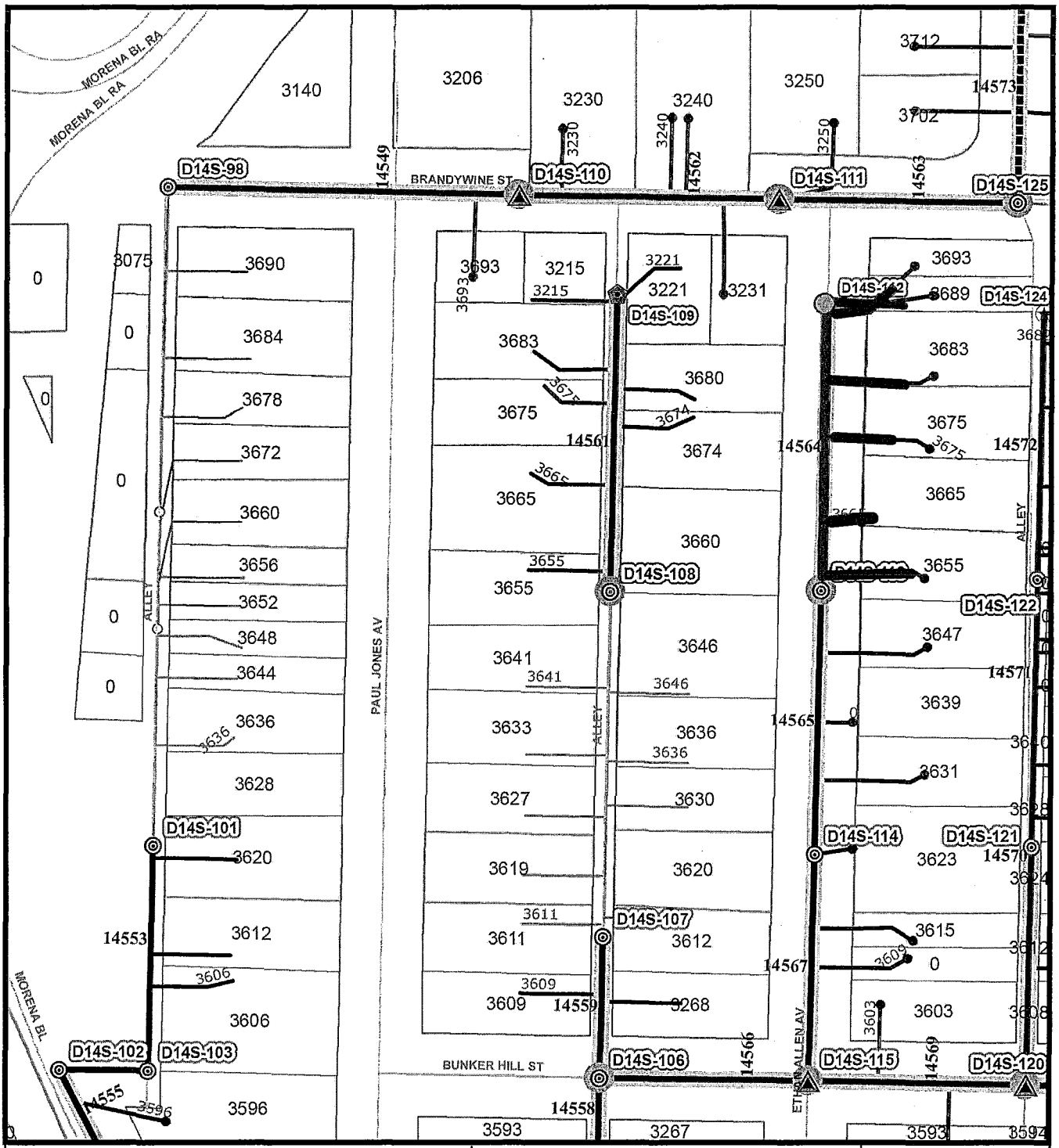
Photo 9



If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.

APPENDIX K

AS-BUILTS SAMPLE



WORK DONE:	
FSN, Sewer Main	XXXXX
Rehabilitated-CIPP	xx/xx/xxxx
Rehabilited-Expanda	xx/xx/xxxx
SLCs-Top Hats Installed	xx/xx/xxxx
Point Repair	xx/xx/xxxx
Manhole Rehab	xx/xx/xxxx
Manhole Installed	xx/xx/xxxx
Clean Out Installed	xx/xx/xxxx

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 1

Brandywine St, Ethan Allen St, Bunker Hill St

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D14S
FLD BK PG
1248-5D
THOS BROS

CONTRACTOR:_____ DATE STARTED_____

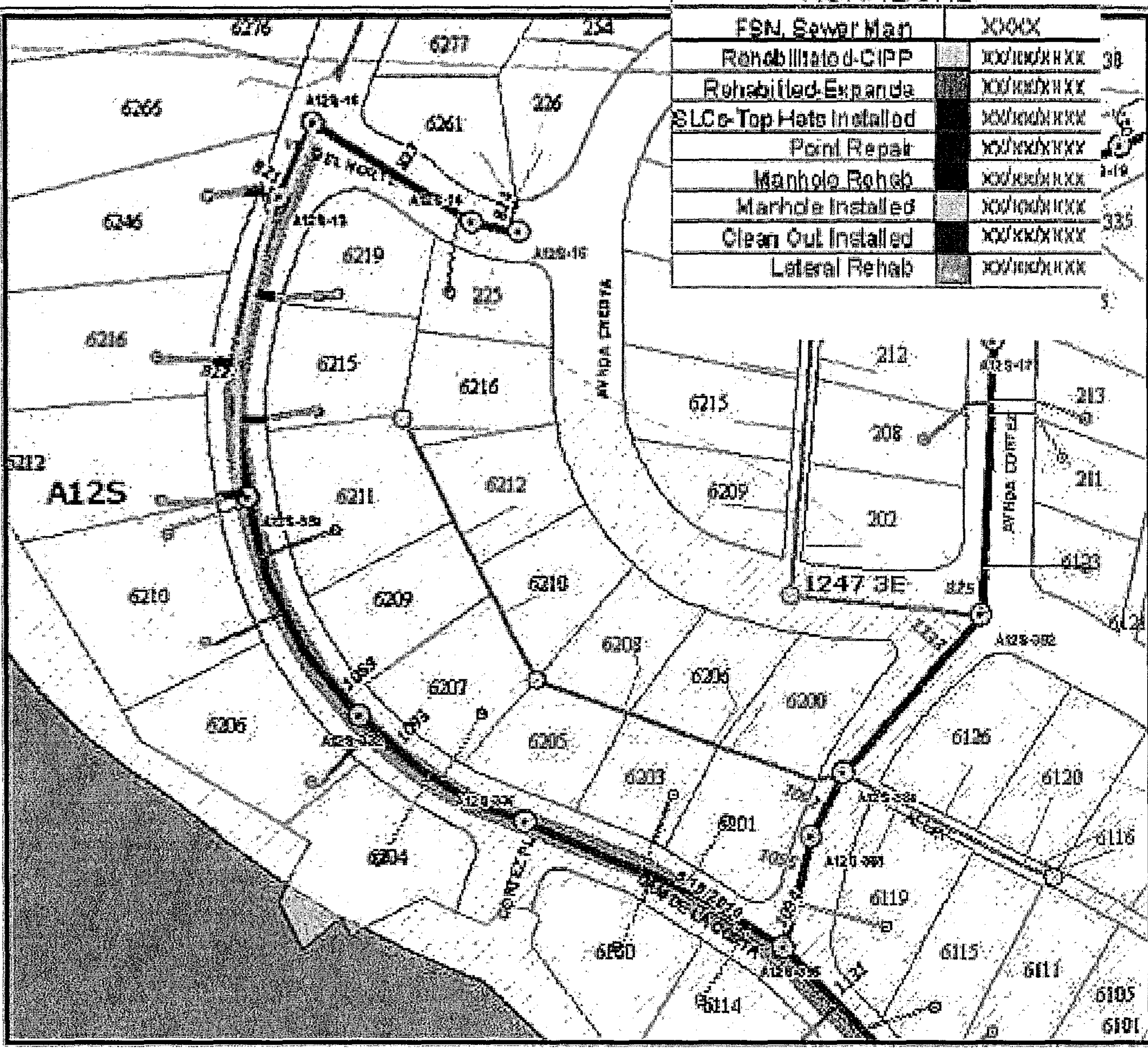
INSPECTOR:_____ DATE COMPLETED:_____

SHEET 2 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

WORK DONE		
FSN, Sewer Main		XXXX
Rehabilitated-CIPP		XX/XX/XXXX
Rehabilited-Expande		XX/XX/XXXX
SLCs-Top Hats Installed		XX/XX/XXXX
Point Repair		XX/XX/XXXX
Manhole Rehab		XX/XX/XXXX
Manhole Installed		XX/XX/XXXX
Clean Out Installed		XX/XX/XXXX
Lateral Rehab		XX/XX/XXXX



Legend

Mains in W-1

ACTION

W-1_Manholes

ACTION

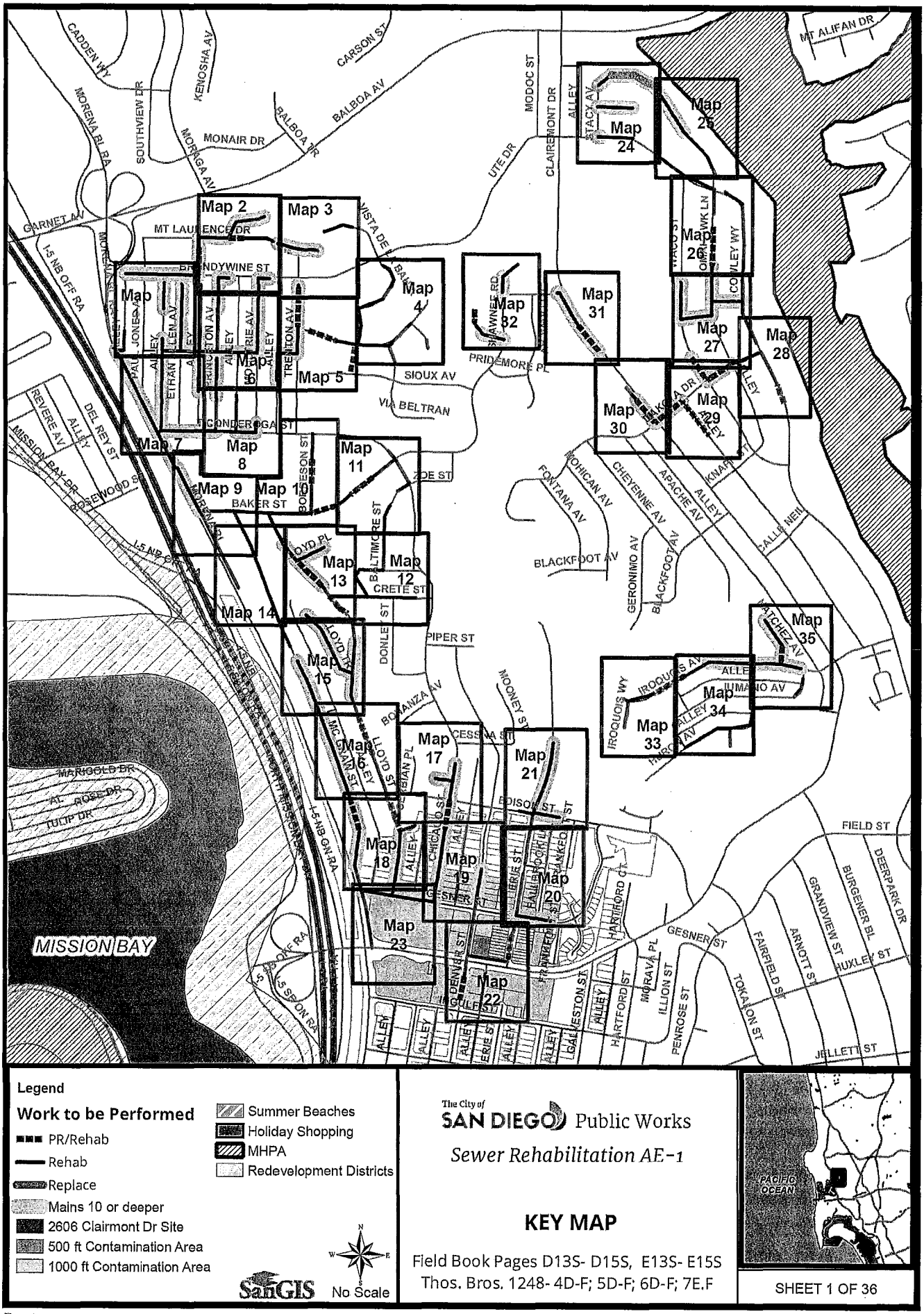
No Scale

Sewer Pipeline Rehab W-1	SEWER 0-43014 (S)
CITY OF SAN DIEGO, CALIFORNIA	Maryam Haghar ASSOCIATE ENGINEER
SHEET 2 OF 17	Lisa Camino PROJECT ENGINEER
CONTRACTOR: ____ DATE STARTED: ____	A126
INSPECTOR: ____ DATE COMPLETED: ____	TLD BK PG 1248 G3 THOS BROS
	XXXXX-XXX-L

COUNCIL DISTRICT: 1 COMMUNITY NAME: LA JOLLA

APPENDIX L

REHAB MAPS



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Legend

Work to be Performed

- PR/Rehab
- Rehab
- Replace
- Mains 10 or deeper
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area

- Summer Beaches
- Holiday Shopping
- MHPA
- Redevelopment Districts

SanGIS

N W E S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

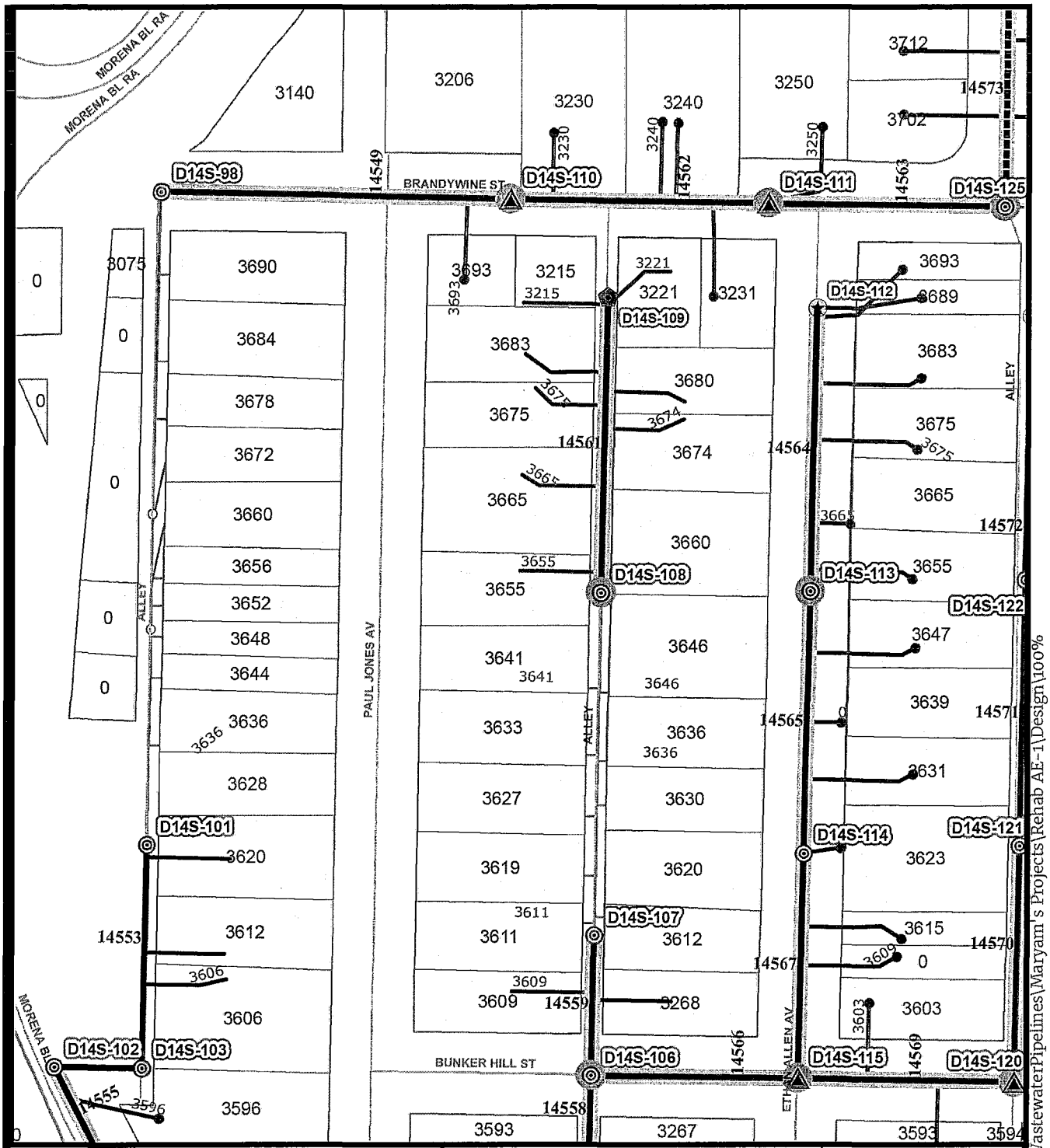
KEY MAP

Field Book Pages D13S- D15S, E13S- E15S
Thos. Bros. 1248- 4D-F; 5D-F; 6D-F; 7E.F

SHEET 1 OF 36

S:\ROWD\ROWD-Section-4-WaterandWastewaterPipelines\Maryam's Projects\Rehab AE-1\Design\100%

B-14030 COUNCIL DISTRICT: 1 COMMUNITY NAME: CLAIREMONT MESA



Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab Lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 1

Brandywine St, Ethan Allen St, Bunker Hill St

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR:_____ DATE COMPLETED:_____

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D14S
FLD BK PG
1248-5D
THOS BROS

SHEET 2 OF 36

S:\ROWD\ROWD-Section-4-WaterandWastewaterPipelines\Maryam's Projects\Rehab AE-1\Design\100%

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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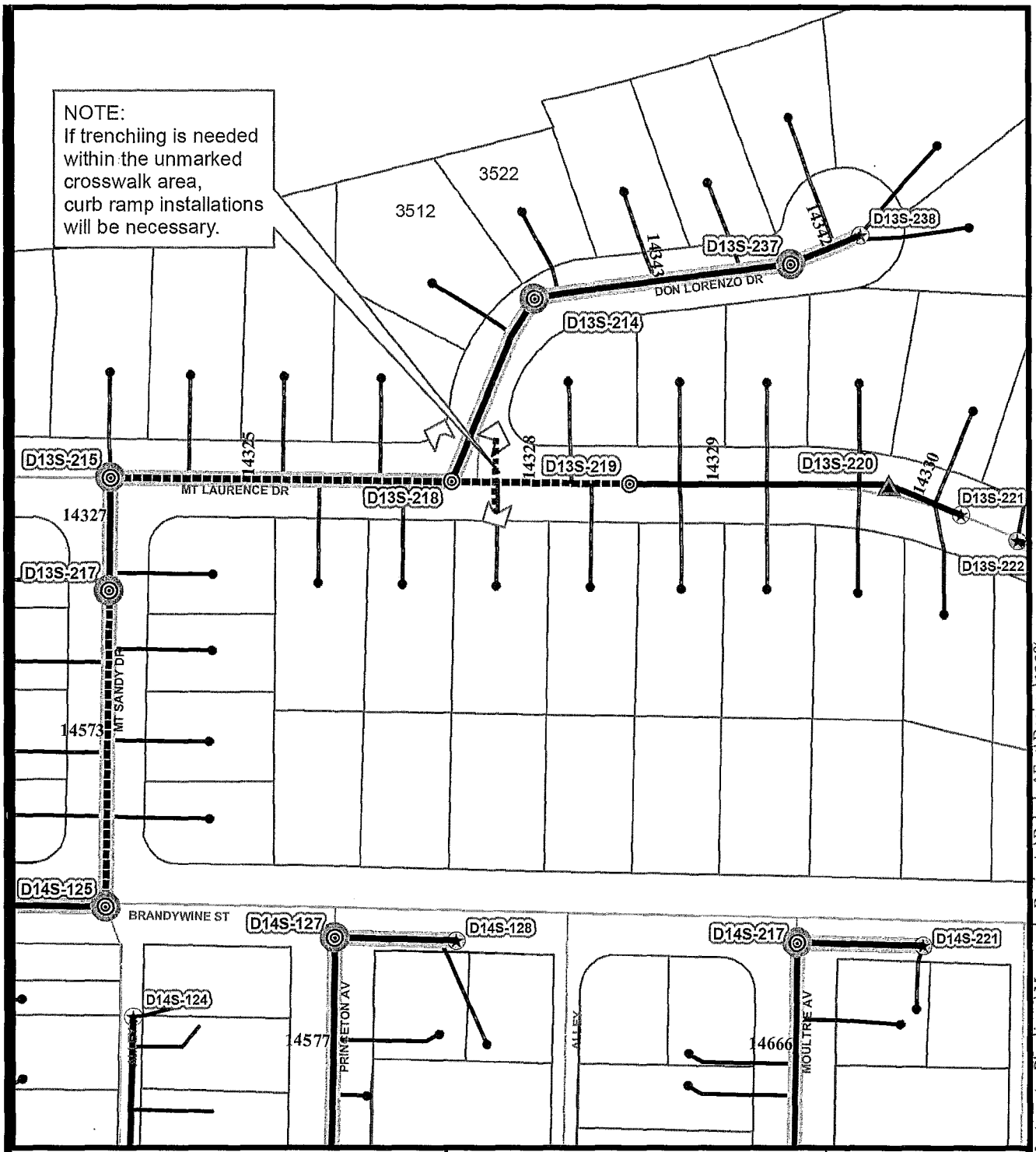

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab Lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 2

Mt. Laurence, Mt. Sandy, Brandywine St, Princeton Av, Moultrie Av

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR:_____ DATE COMPLETED:_____

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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1248-5D
THOS BROS

SHEET 2 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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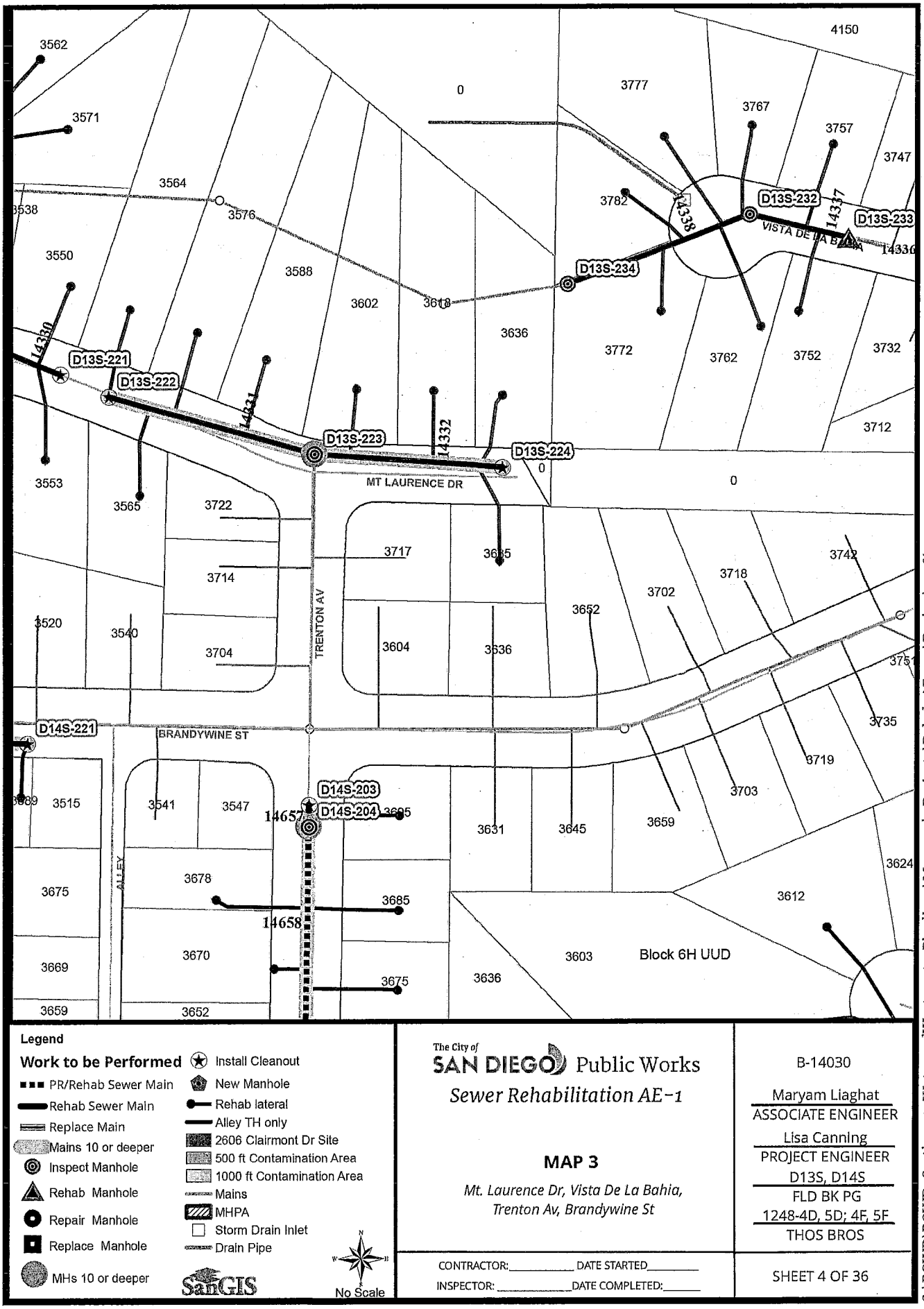

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Mains
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 3

Mt. Laurence Dr, Vista De La Bahia, Trenton Av, Brandywine St

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Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D13S, D14S

FLD BK PG
1248-4D, 5D; 4F, 5F
THOS BROS

CONTRACTOR:_____ DATE STARTED_____

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COUNCIL DISTRICT: 2 COMMUNITY NAME: CLAIREMONT MESA

Legend

Mains 10 or deeper
Inspect Manholes
Rehab Manhole
Repair Manhole
Replace Manhole
MHs 10 or deeper

Install Cleanout
New Manhole
Rehab lateral
Alley TH only
2606 Clairmont Dr Site
500 ft Contamination Area
1000 ft Contamination Area
MHPA
Storm Drain Inlet
Drain Pipe

Mains
Work to be Performed
PR/Rehab Sewer Main
Rehab Sewer Main
Replace Sewer Main

SanGIS

No Scale

The City of SAN DIEGO Public Works
Sewer Rehabilitation AE-1

MAP 4

Vista De La Bahia, Via Del Conquistador,
Vista De La Orilla, Via Beltrans

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Lisa Canning
PROJECT ENGINEER
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FLD BK PG
1248-4D, 5D; 4F, 5F
THOS BROS

SHEET 5 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME: CLAIREMONT MESA

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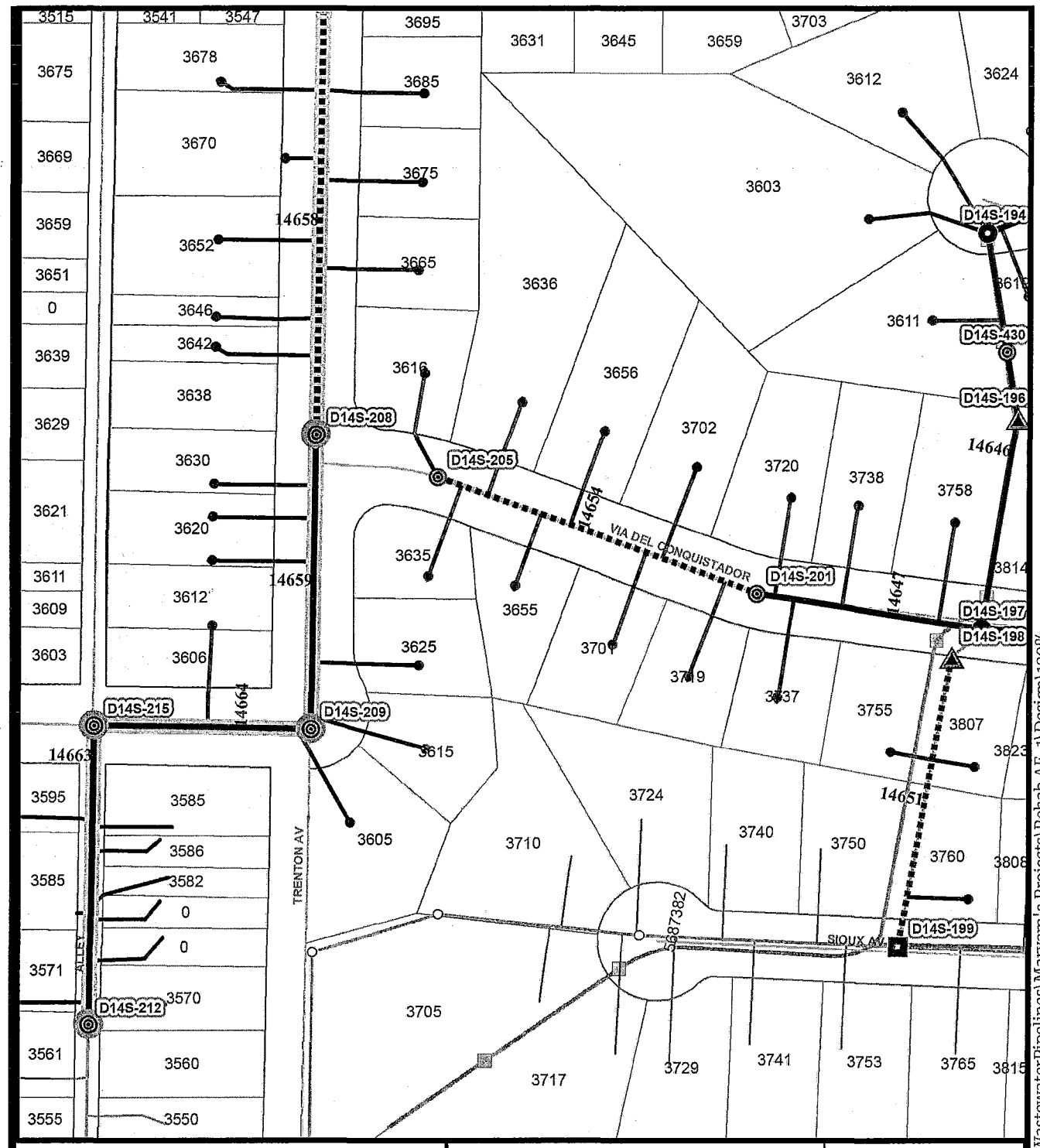

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Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Mains
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 5

Trenton Av, Vista De La Bahia, Via Del Conquistadors, Bunker Hill St, Sioux Av

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ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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1248-5D, 5E

THOS BROS

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SHEET 6 OF 36

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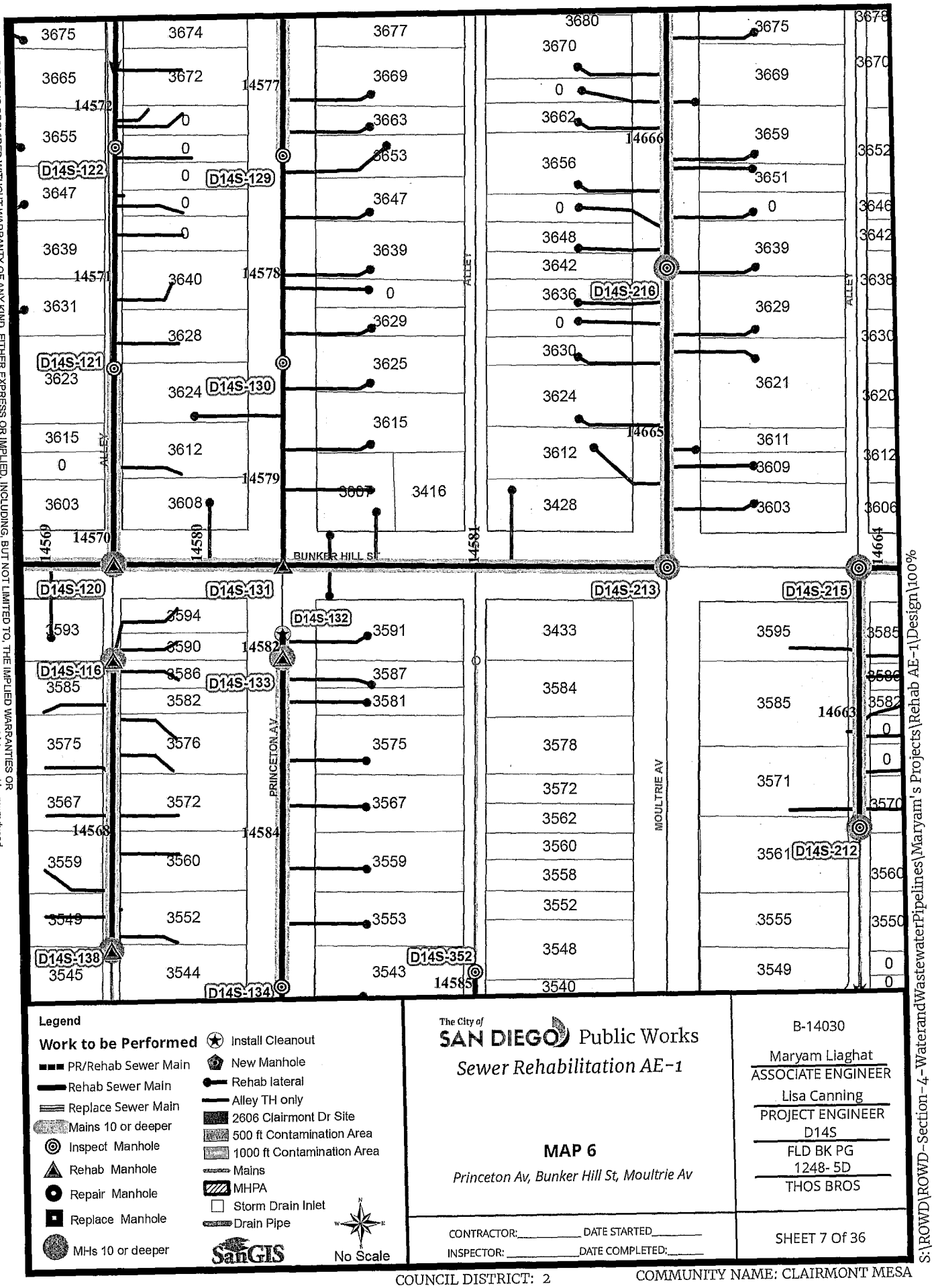

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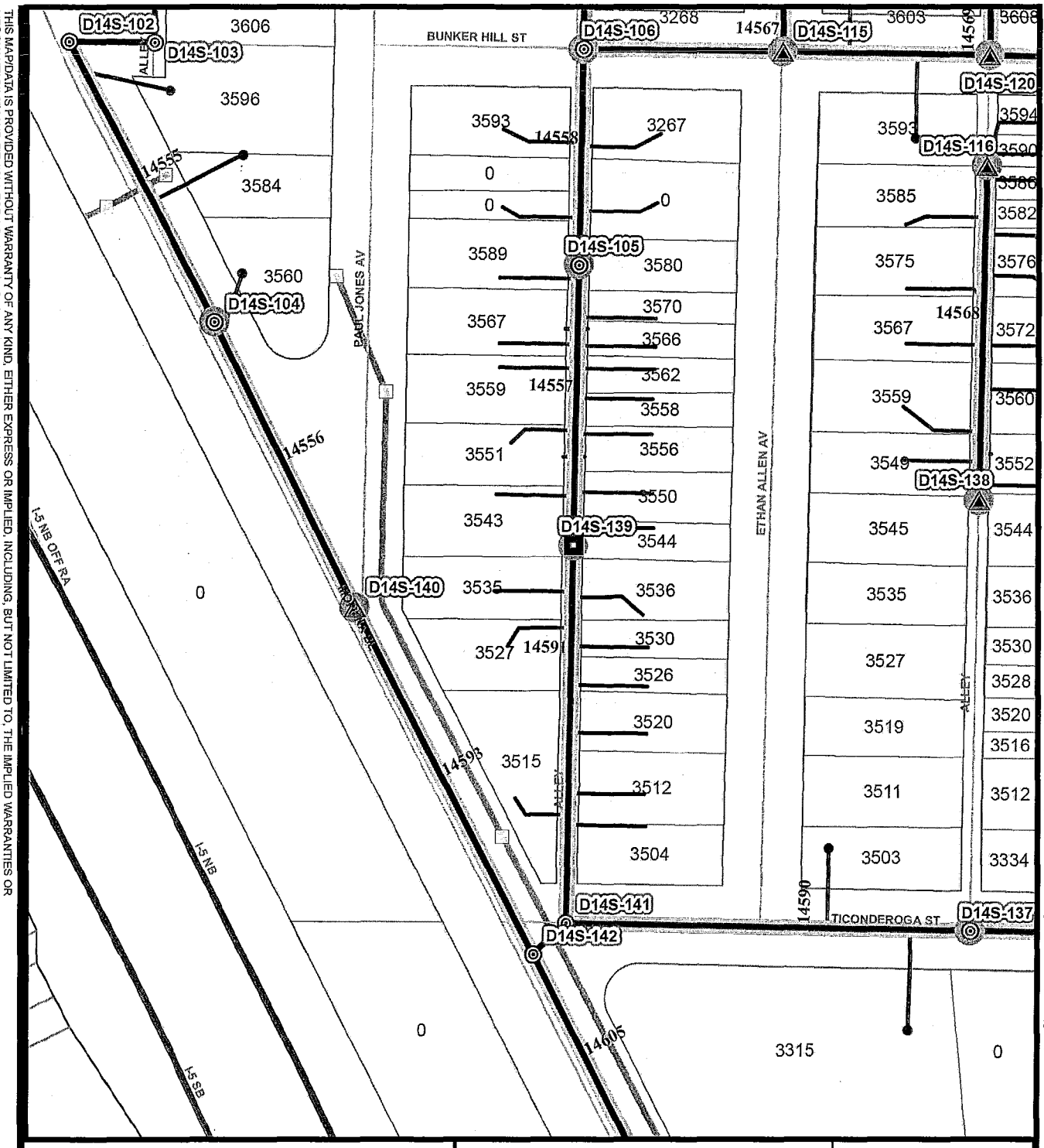

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 7

Bunker Hill St, Morena Bl, Paul Jones Av, Ethan Allen St, Ticonderoga St

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Lisa Canning
PROJECT ENGINEER

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FLD BK PG

1248-5D
THOS BROS

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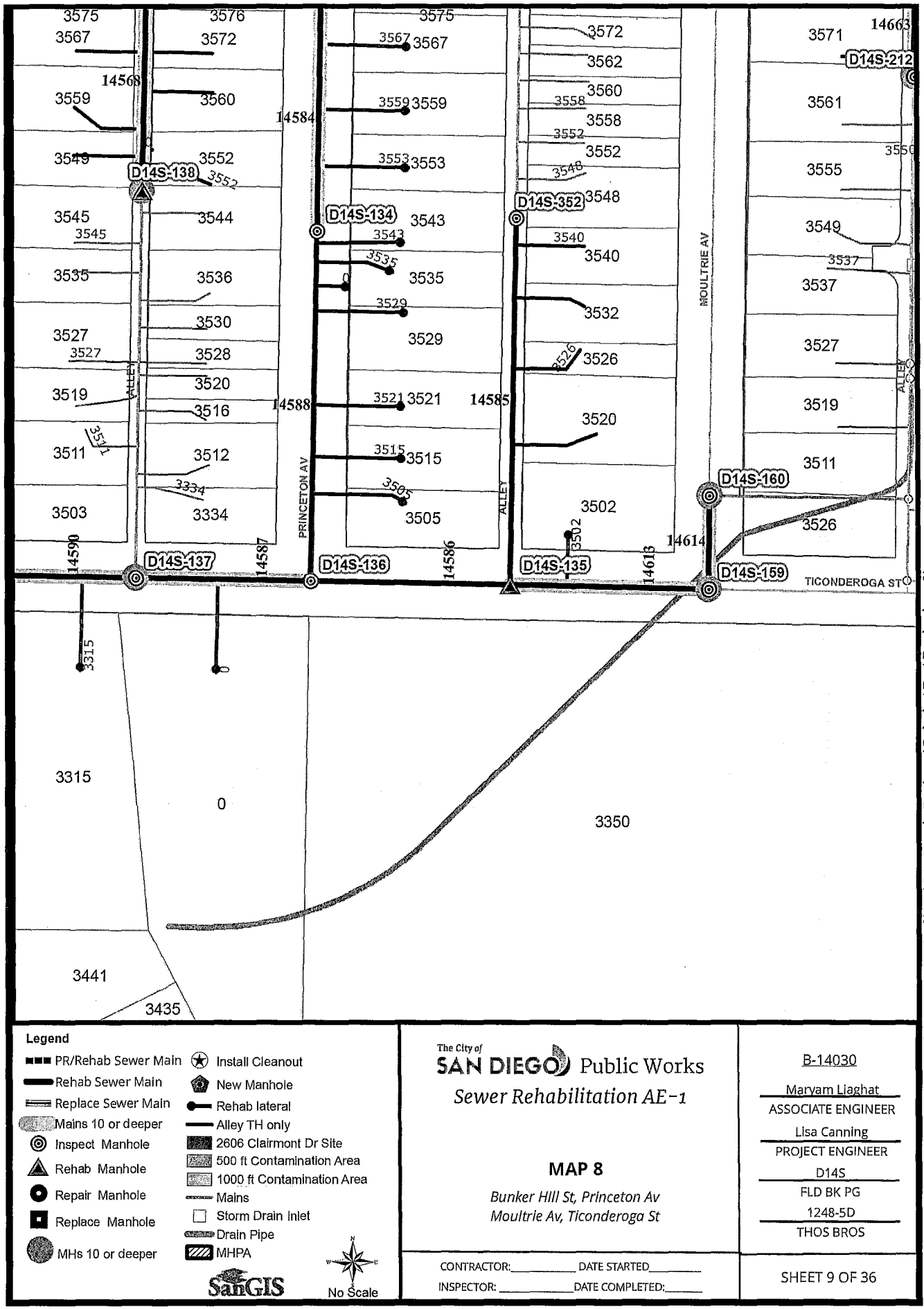

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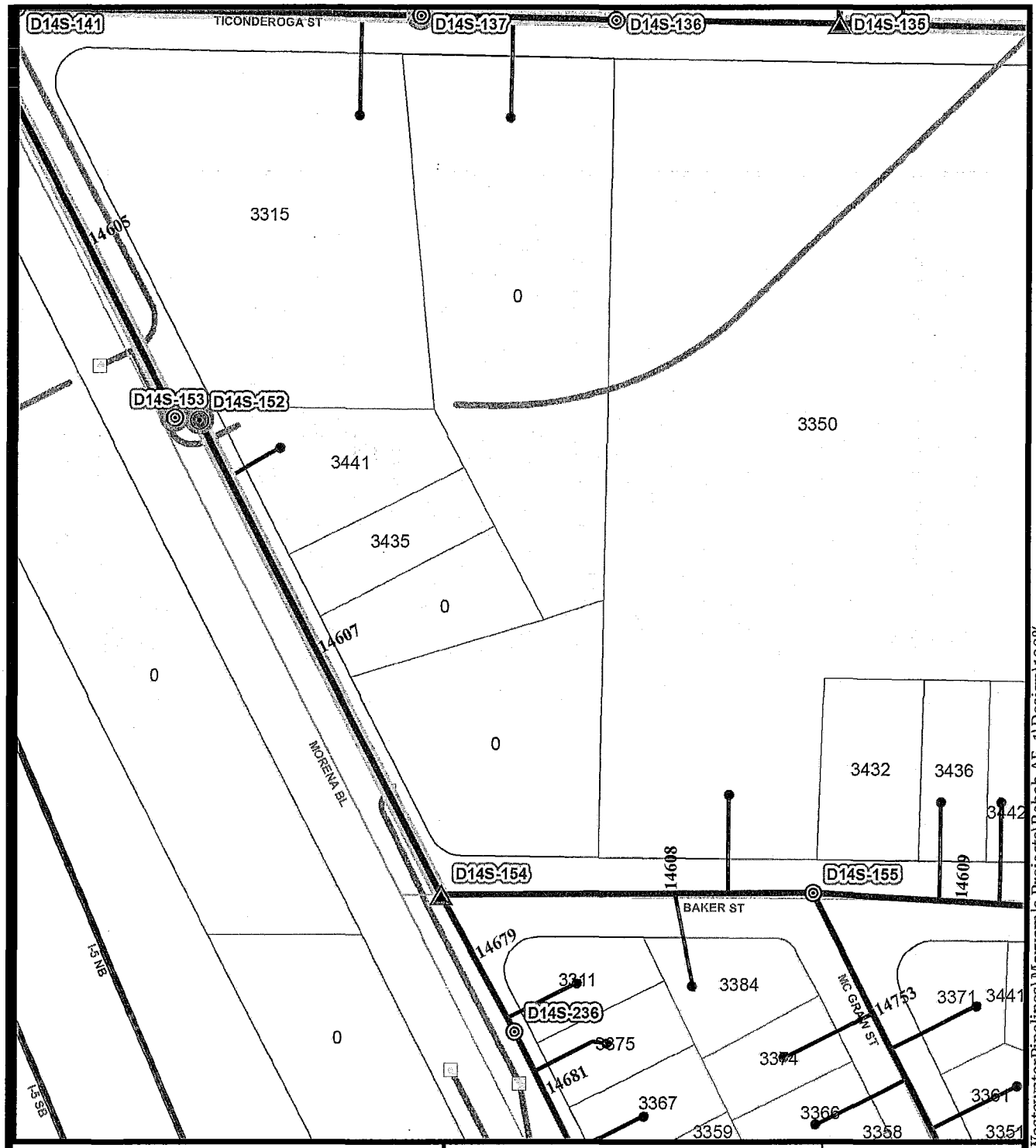

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 9

Morena Bl, Baker St, McGraw St

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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THOS BROS

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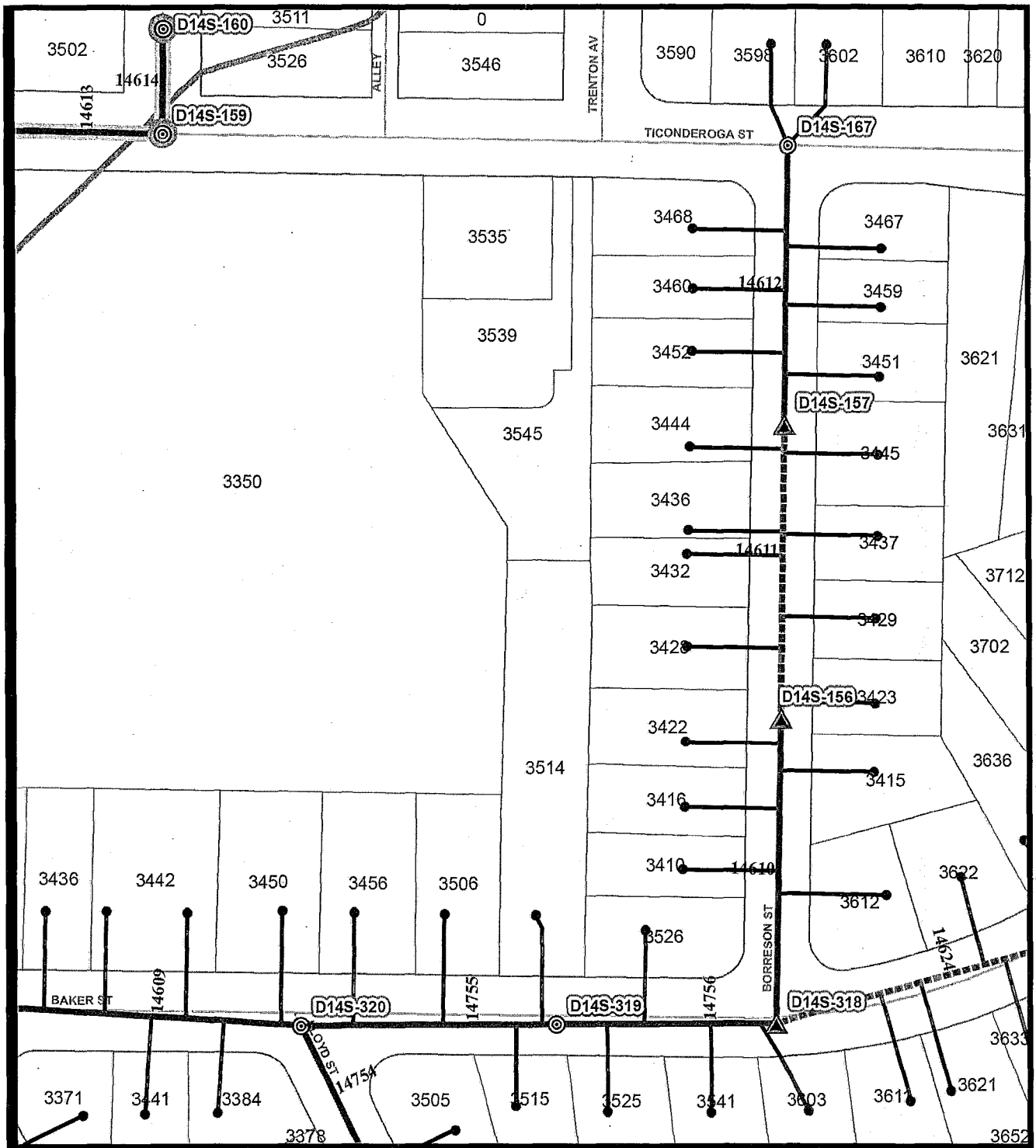

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 10

Ticonderoga St, Borreson St, Baker St, Lloyd St

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____ DATE COMPLETED:_____

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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FLD BK PG
1248-5D, 5E
THOS BROS

SHEET 11 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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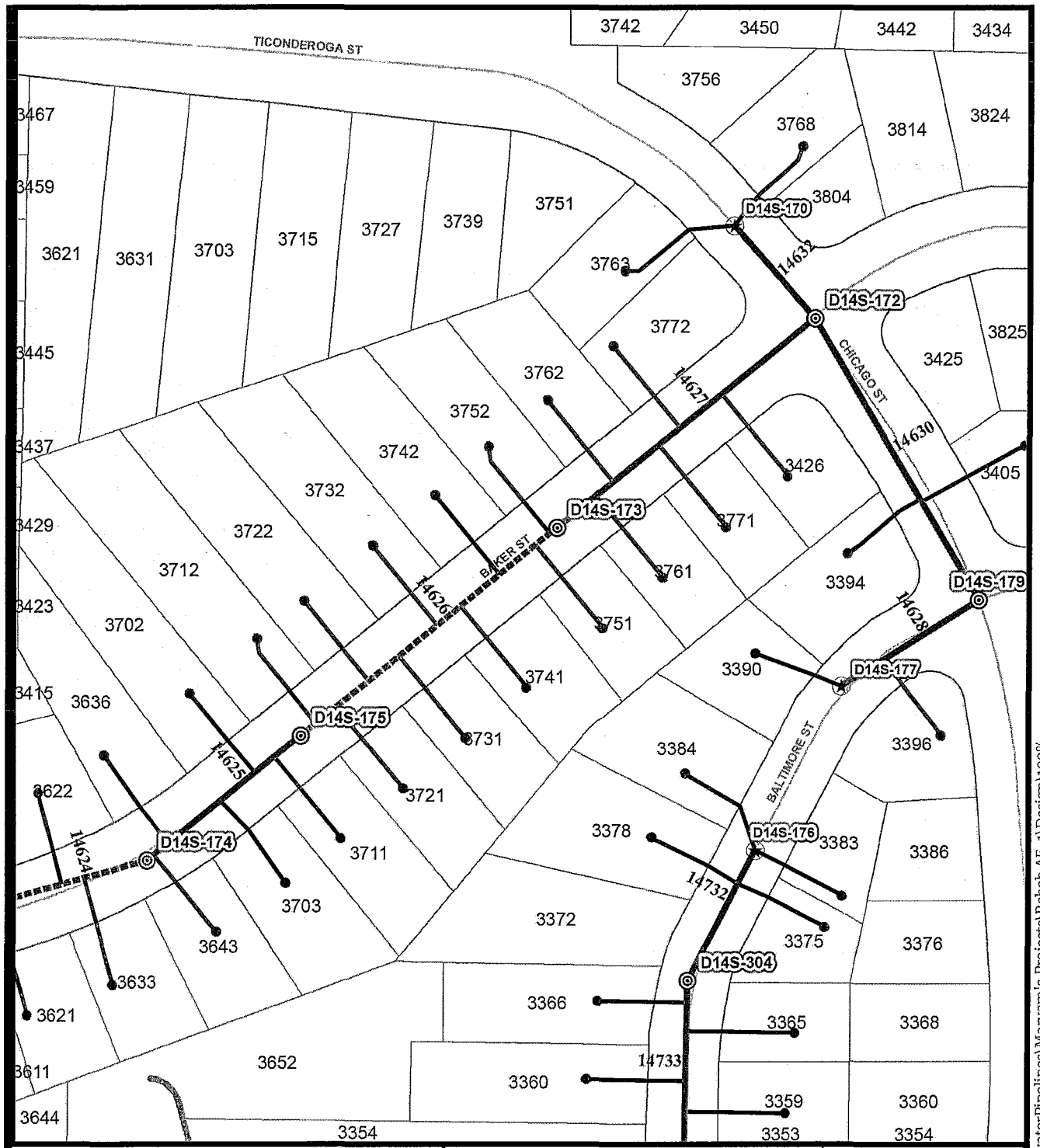

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 11

Baker St, Chicago St, Baltimore St

B-14030

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ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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1248-5E
THOS BROS

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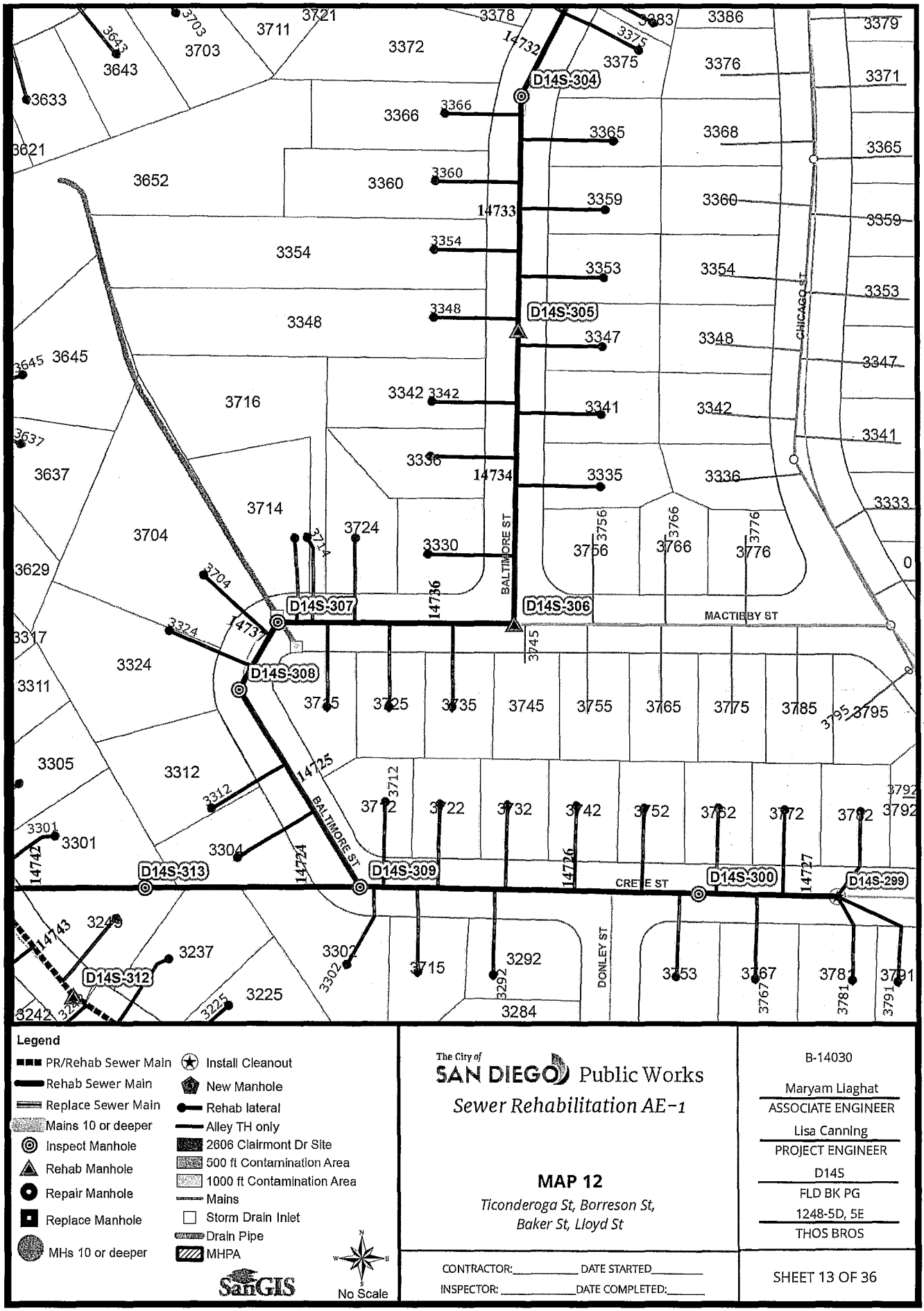

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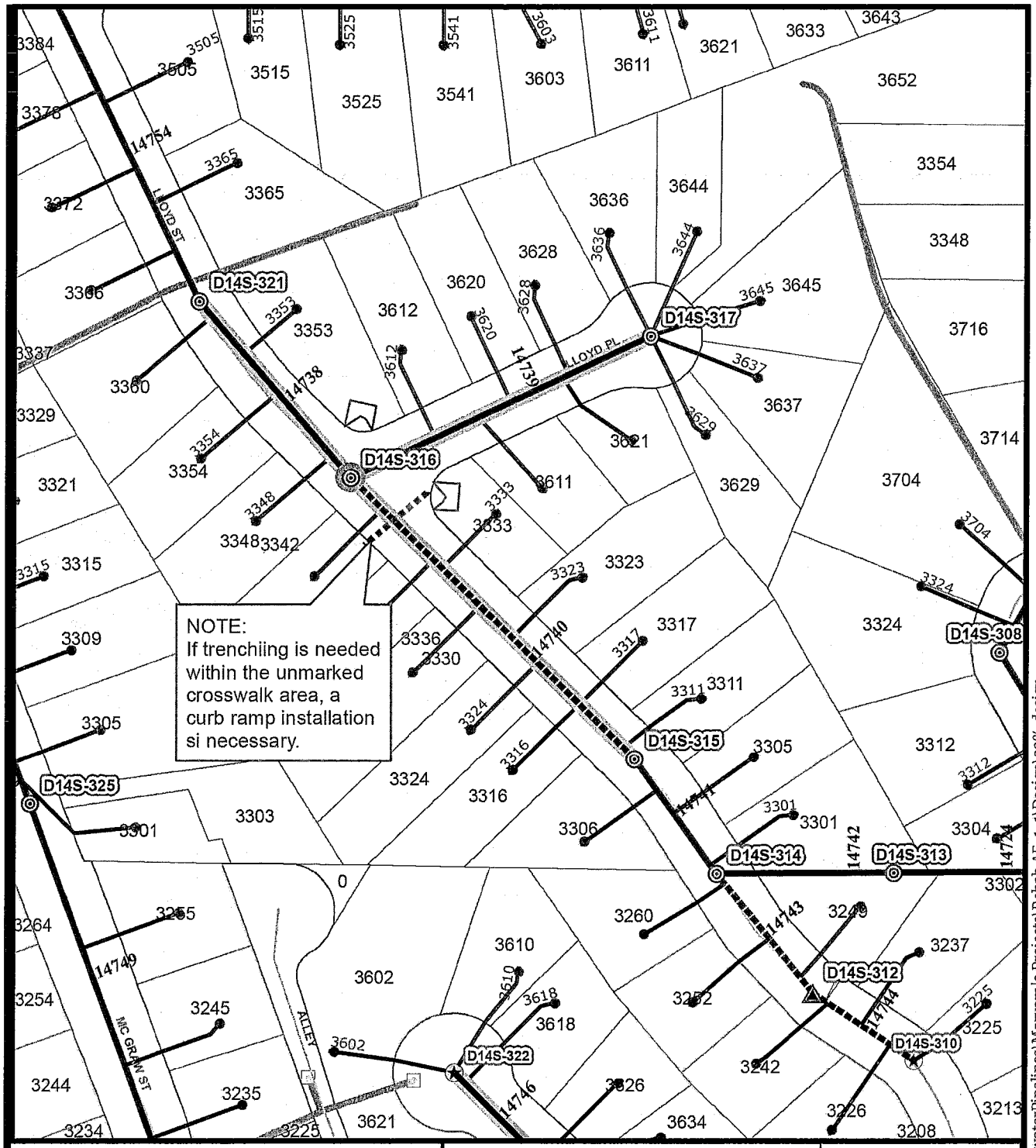

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Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Mains
- Storm Drain Inlet
- Drain Pipe
- MHPA

No Scale

SanGIS

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 13

Lloyd St, McGraw St, Lloyd Pl

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____DATE COMPLETED:_____

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Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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FLD BK PG
1248-6D, 6E
THOS BROS

SHEET 14 OF 34

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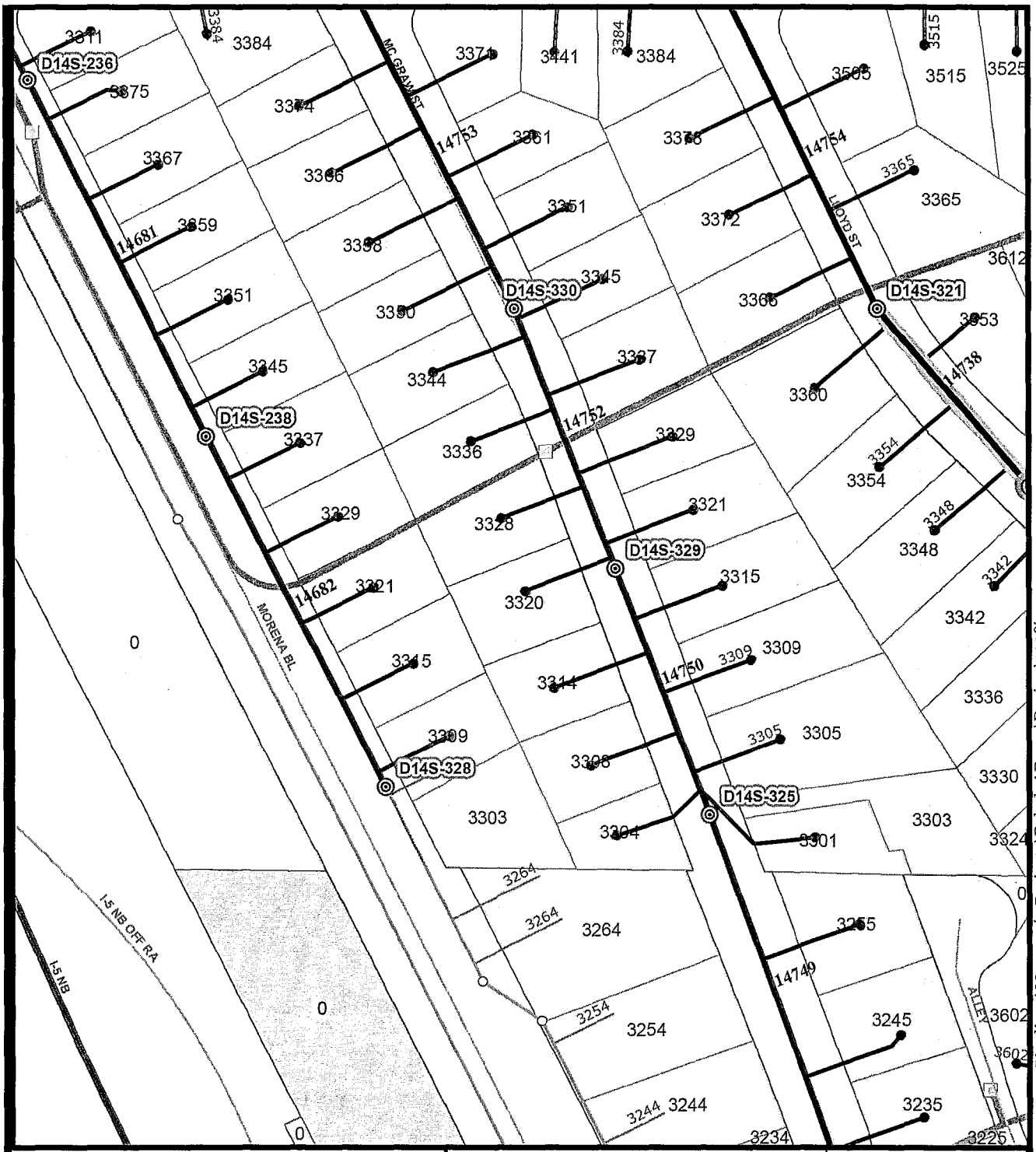
COMMUNITY NAME:CLAIREMONT MESA



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Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Mains
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 14

Lloyd St, McGraw St, Lloyd Terrace

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D14S
FLD BK PG
1248-5D, %E,6D, 6E
THOS BROS

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INSPECTOR: _____DATE COMPLETED:_____

SHEET 15 OF 36

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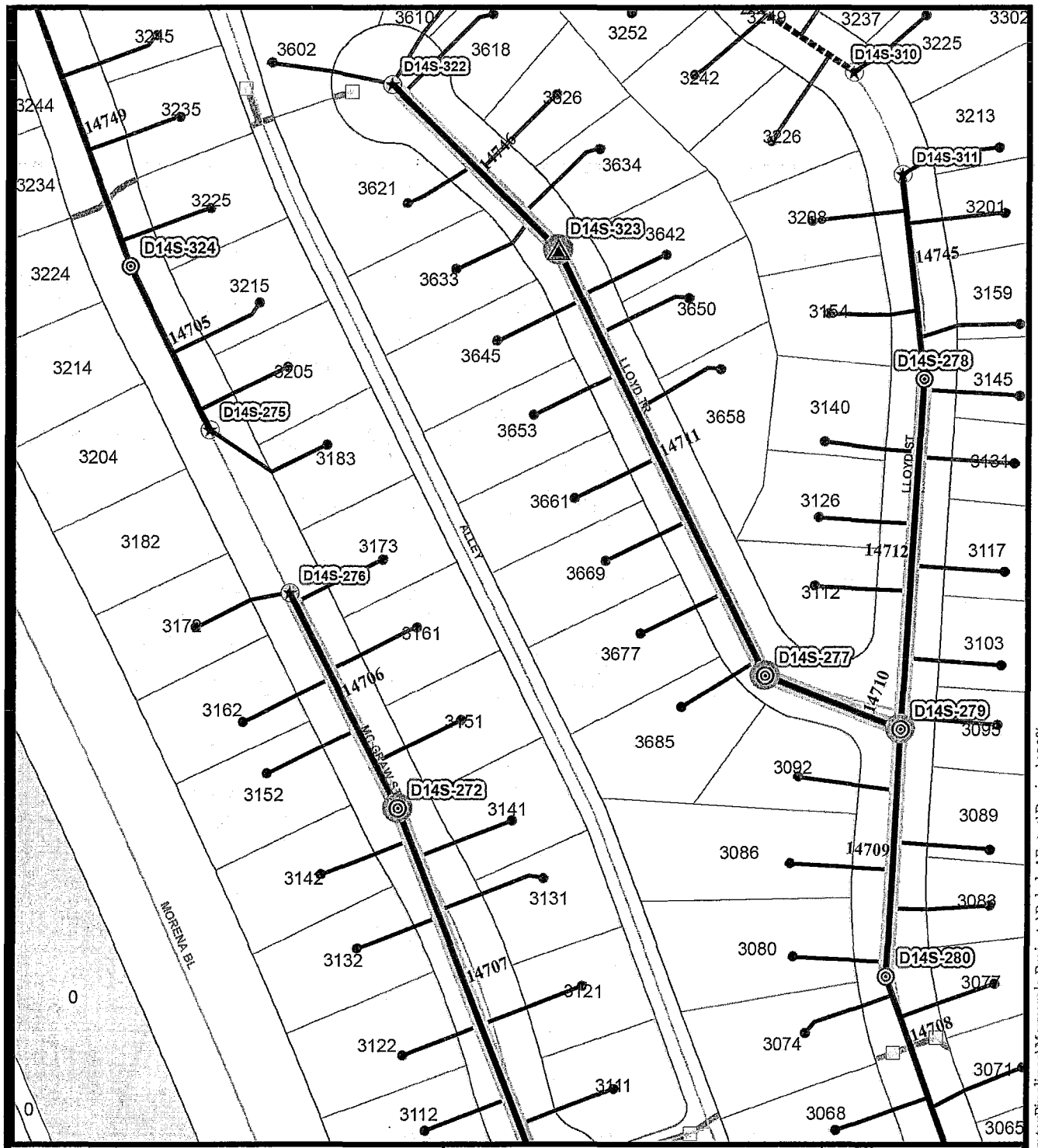
COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA



Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 15

Lloyd St, McGraw St, Lloyd Terrace

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D14S
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1248-6D, 6E
THOS BROS

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Legend

- PR/Rehab
- Rehab
- Replace
- Mains 10 or deeper
- Inspect
- Rehab
- Repair
- Replace
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 16

McGraw St, Lloyd St

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D14S, D15S
FLD BK PG
1248- 6E
THOS BROS

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR:_____ DATE COMPLETED:_____

SHEET 17 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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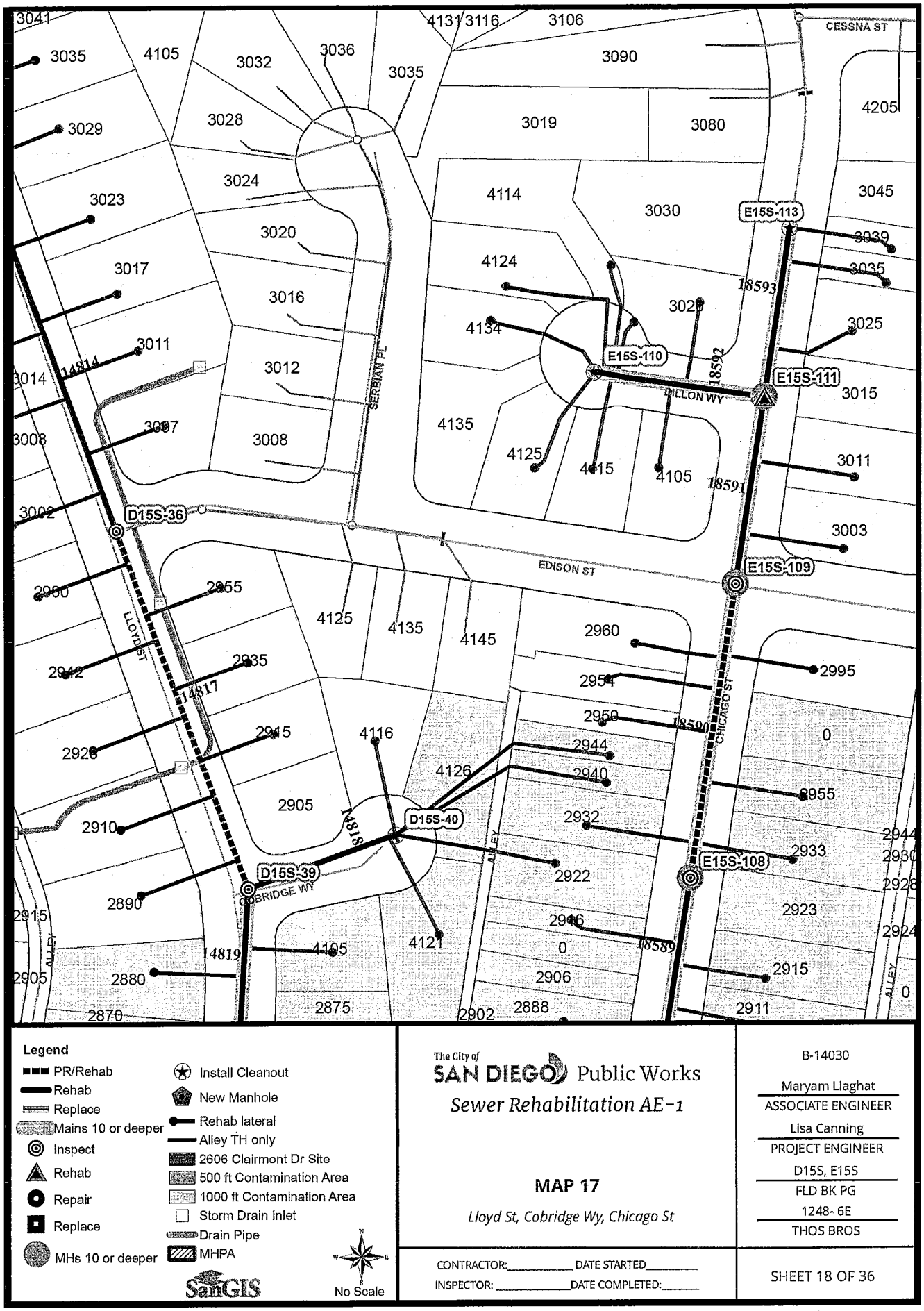

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Legend

- PR/Rehab
- Rehab
- Replace
- Mains 10 or deeper
- Inspect
- Rehab
- Repair
- Replace
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 17

Lloyd St, Cobridge Wy, Chicago St

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____DATE COMPLETED:_____

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Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D15S, E15S
FLD BK PG
1248- 6E
THOS BROS

SHEET 18 OF 36

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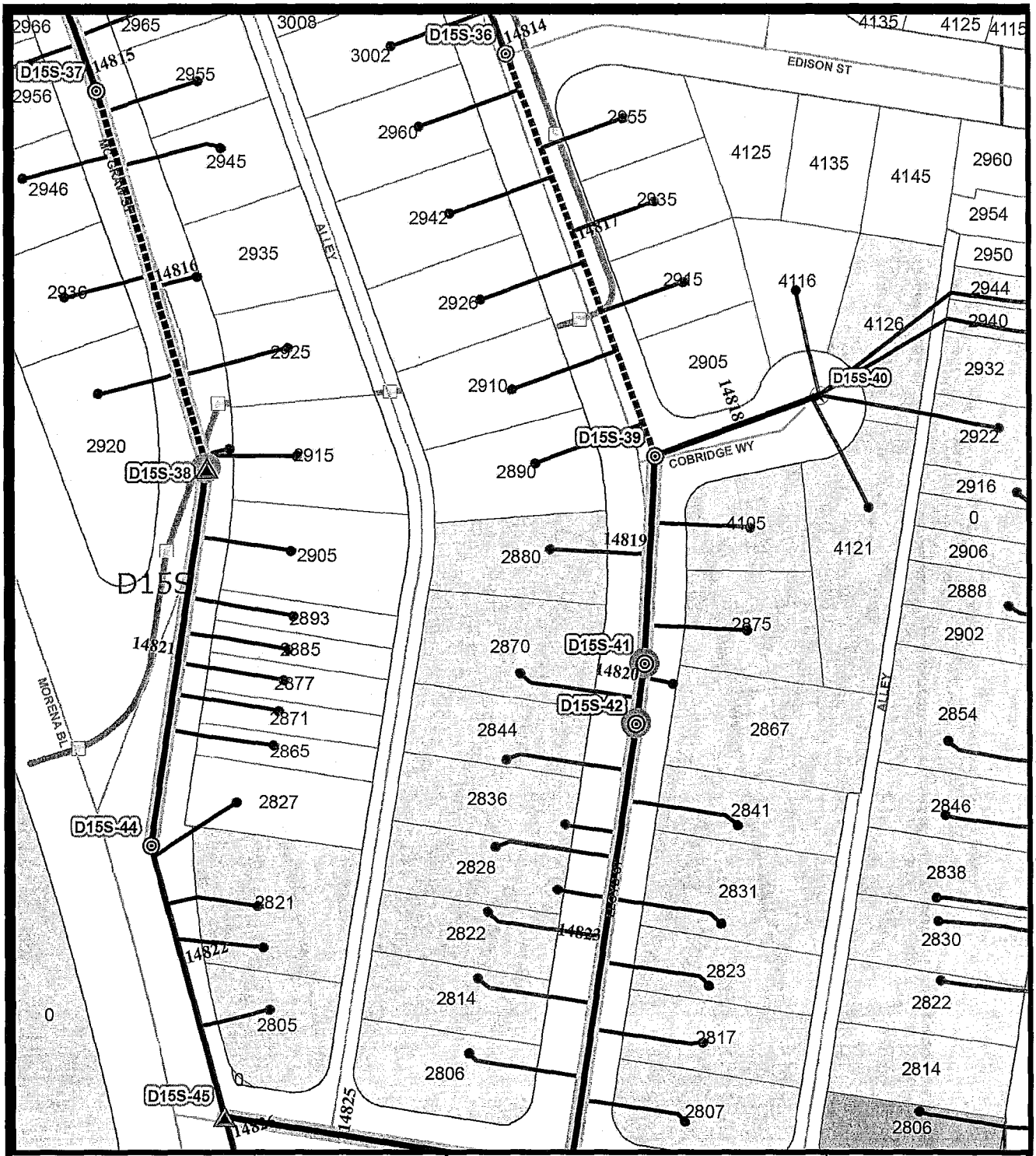

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Seweer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 18

McGraw St, Lloyd St, Cobridgee Wy

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D15S
FLD BK PG
1248- 6D
THOS BROS

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____DATE COMPLETED:_____

SHEET 19 OF 36

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COMMUNITY NAME:CLAIREMONT MESA

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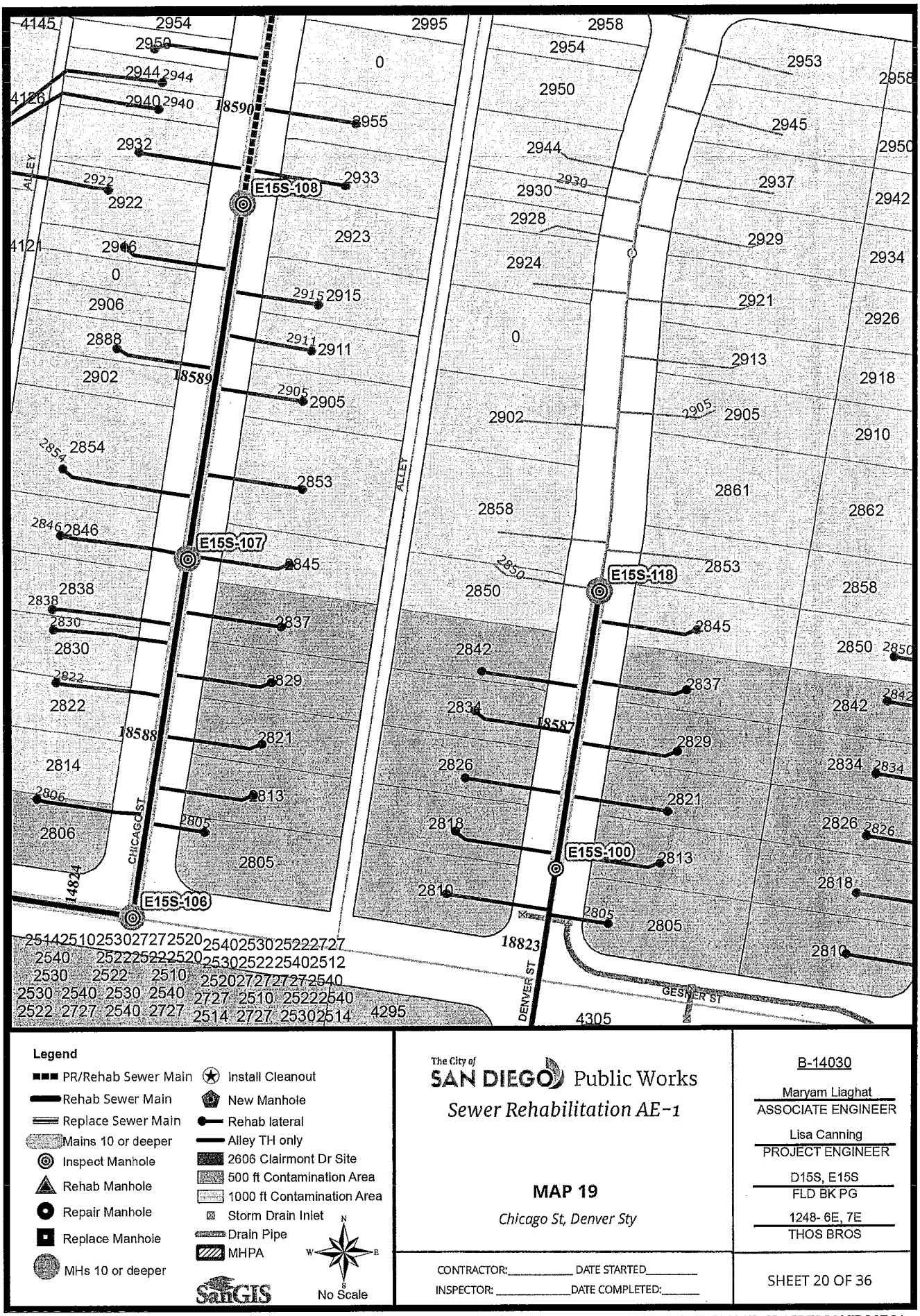

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 19

Chicago St, Denver Sty

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D15S, E15S
FLD BK PG

1248- 6E, 7E
THOS BROS

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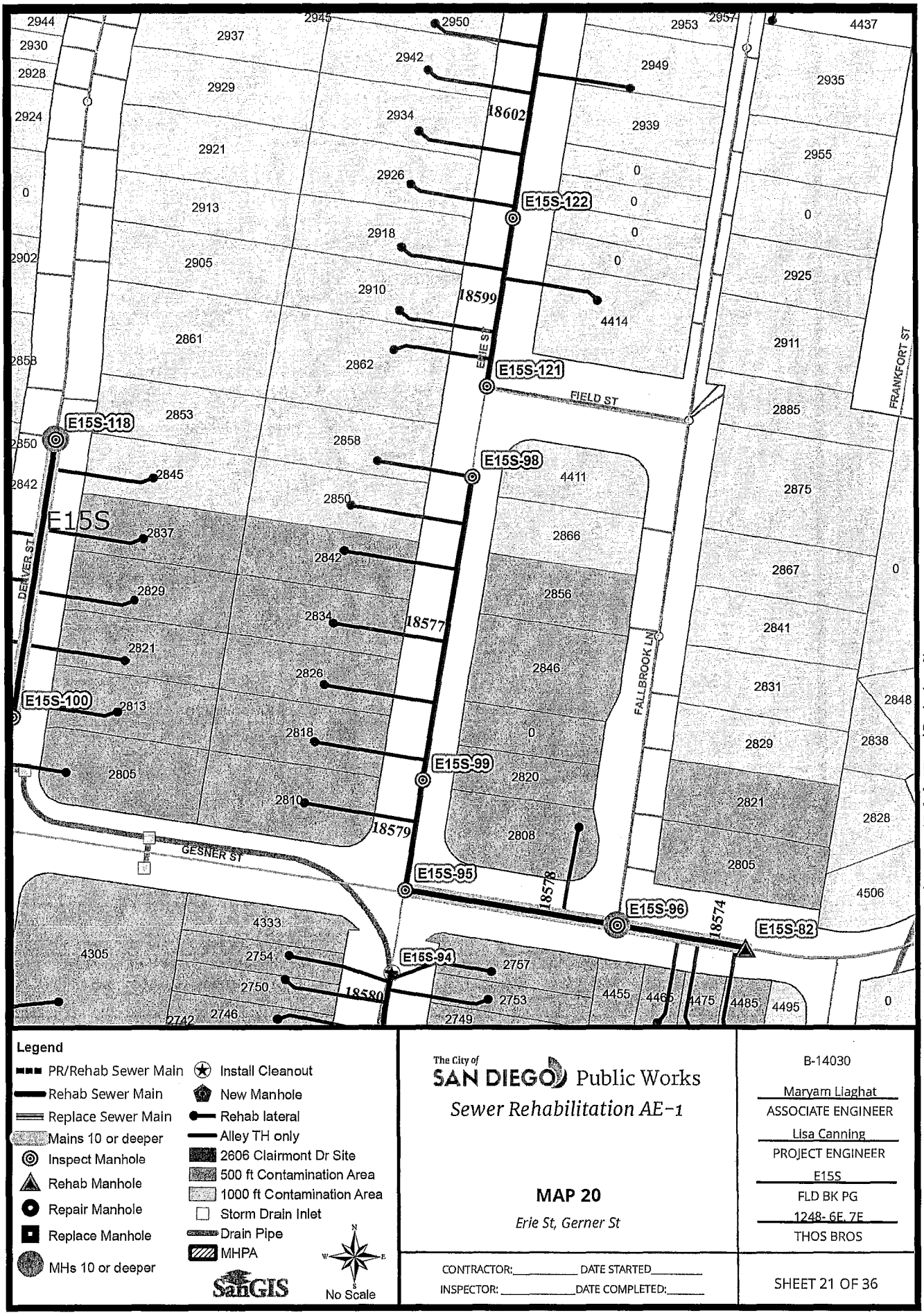

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Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

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Sewer Rehabilitation AE-1

MAP 20

Erie St, Gerner St

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Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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1248- 6E, 7E
THOS BROS

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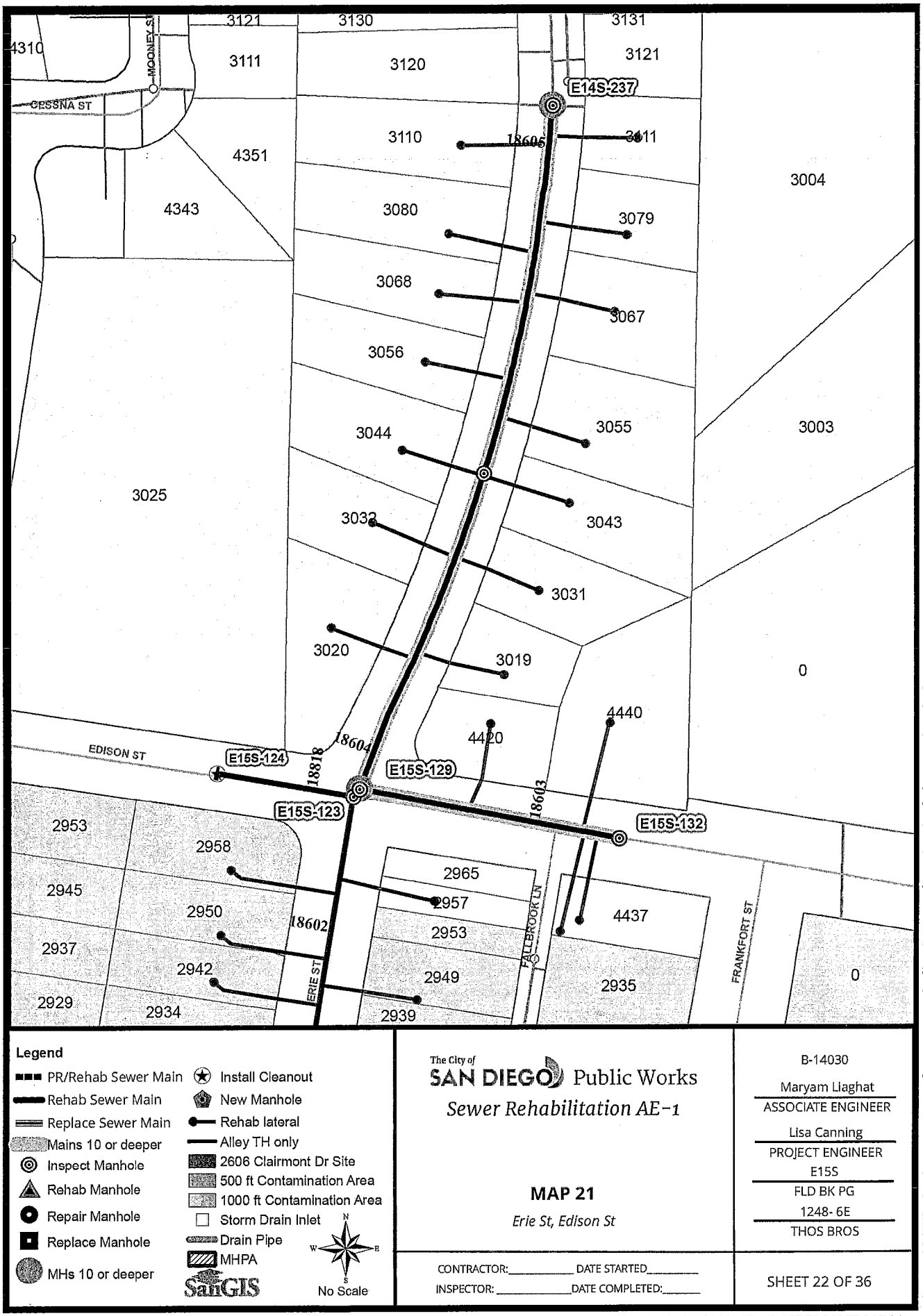

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 21

Erie St, Edison St

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Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E15S
FLD BK PG
1248- 6E
THOS BROS

SHEET 22 OF 36

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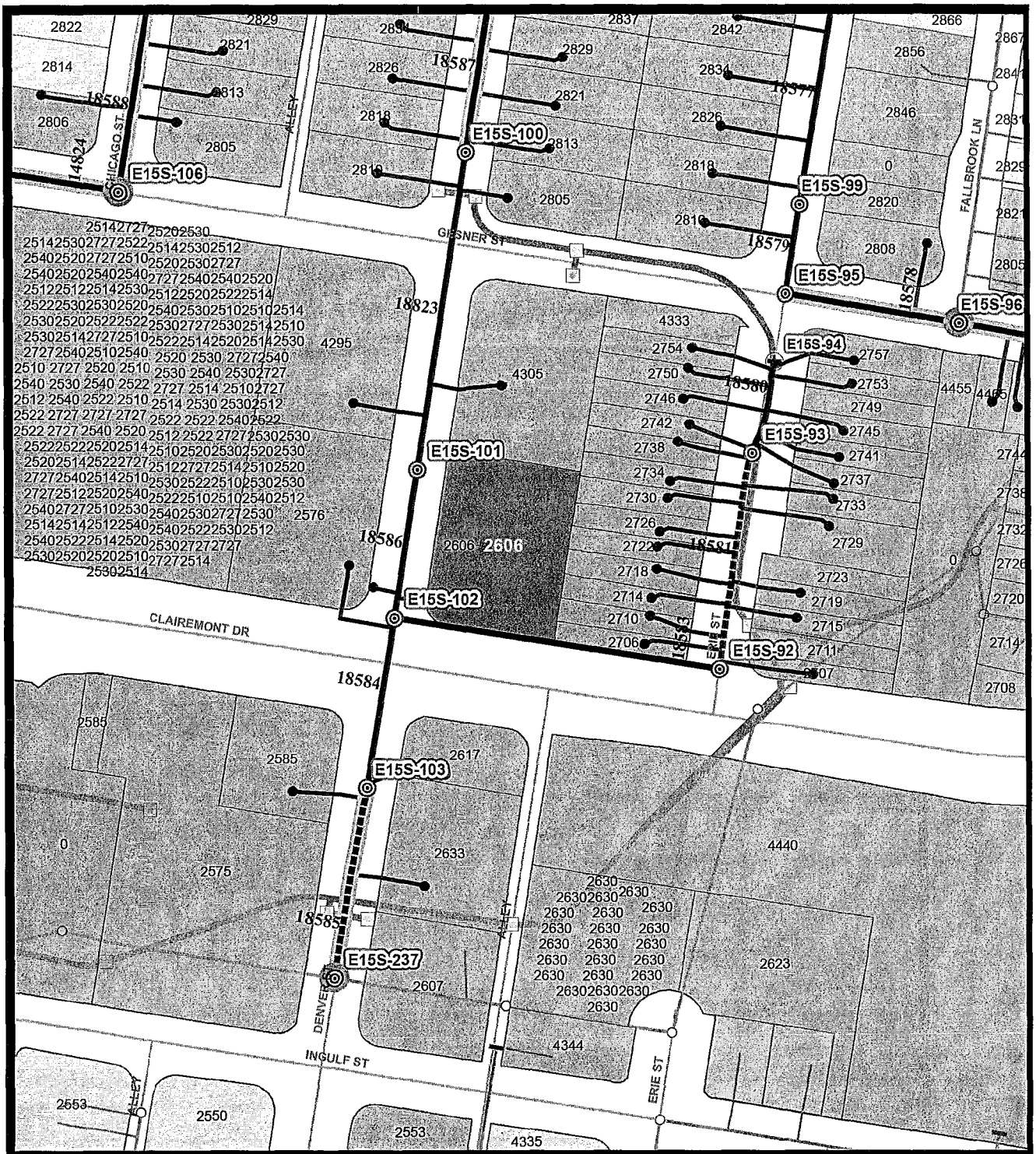

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Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 22

Chicago St, Denver Sty

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Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E15S
FLD BK PG
1248- 7E
THOS BROS

SHEET 23 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- MHs 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 23

Morena Bl, Gesner St

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

D15S, E15S
FLD BK PG
1248-7D, 7E
THOS BROS

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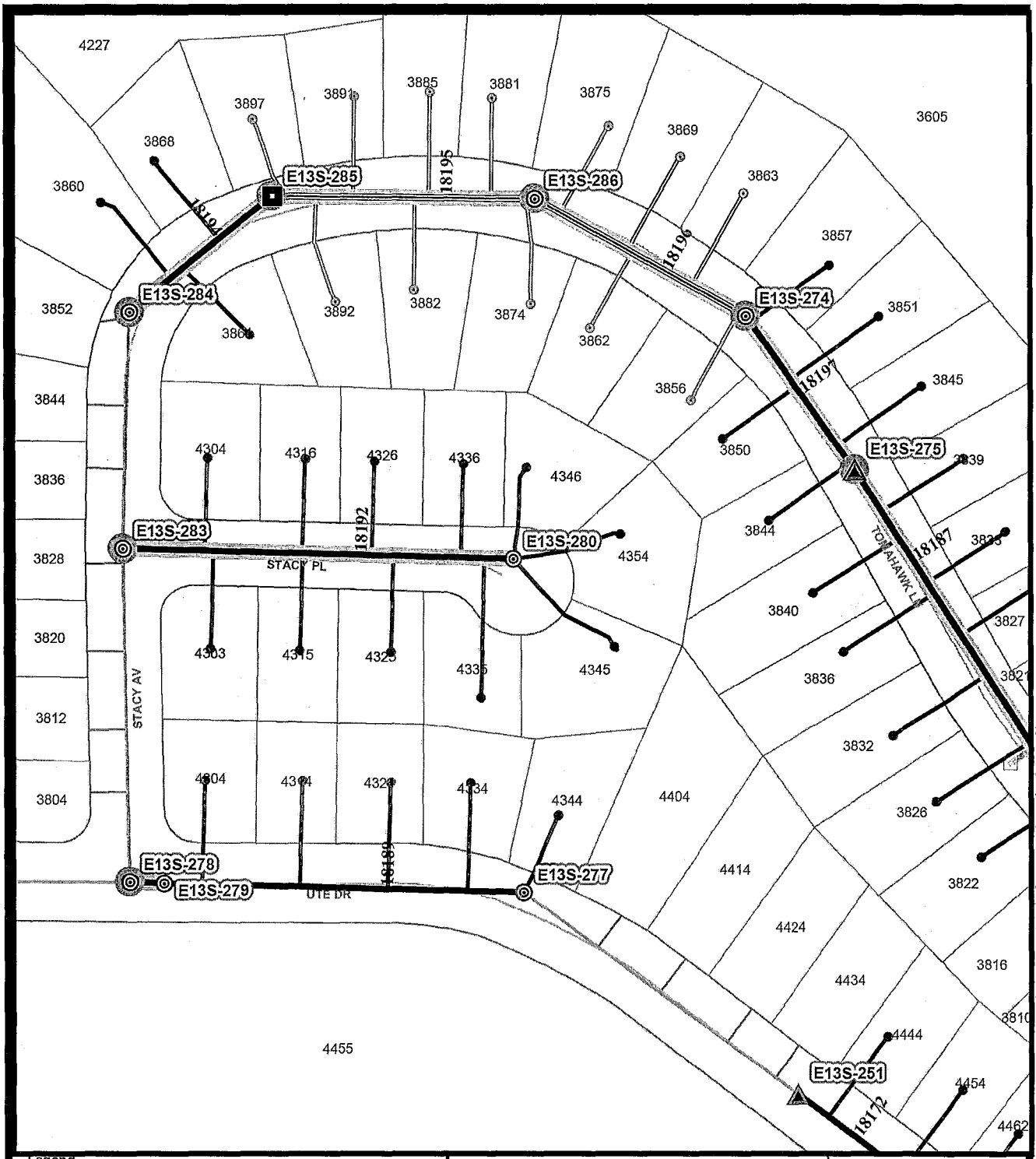

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- MHs 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- Install Cleanout
- New Manhole

ACCESS

- Rehab
- Rehab
- Alley TH Only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 24

Stacy Av, Tomahawk Ln, Stacy Pl, Ute Dr

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B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E13S
FLD BK PG
1248-4E, 4F
THOS BROS

SHEET 25 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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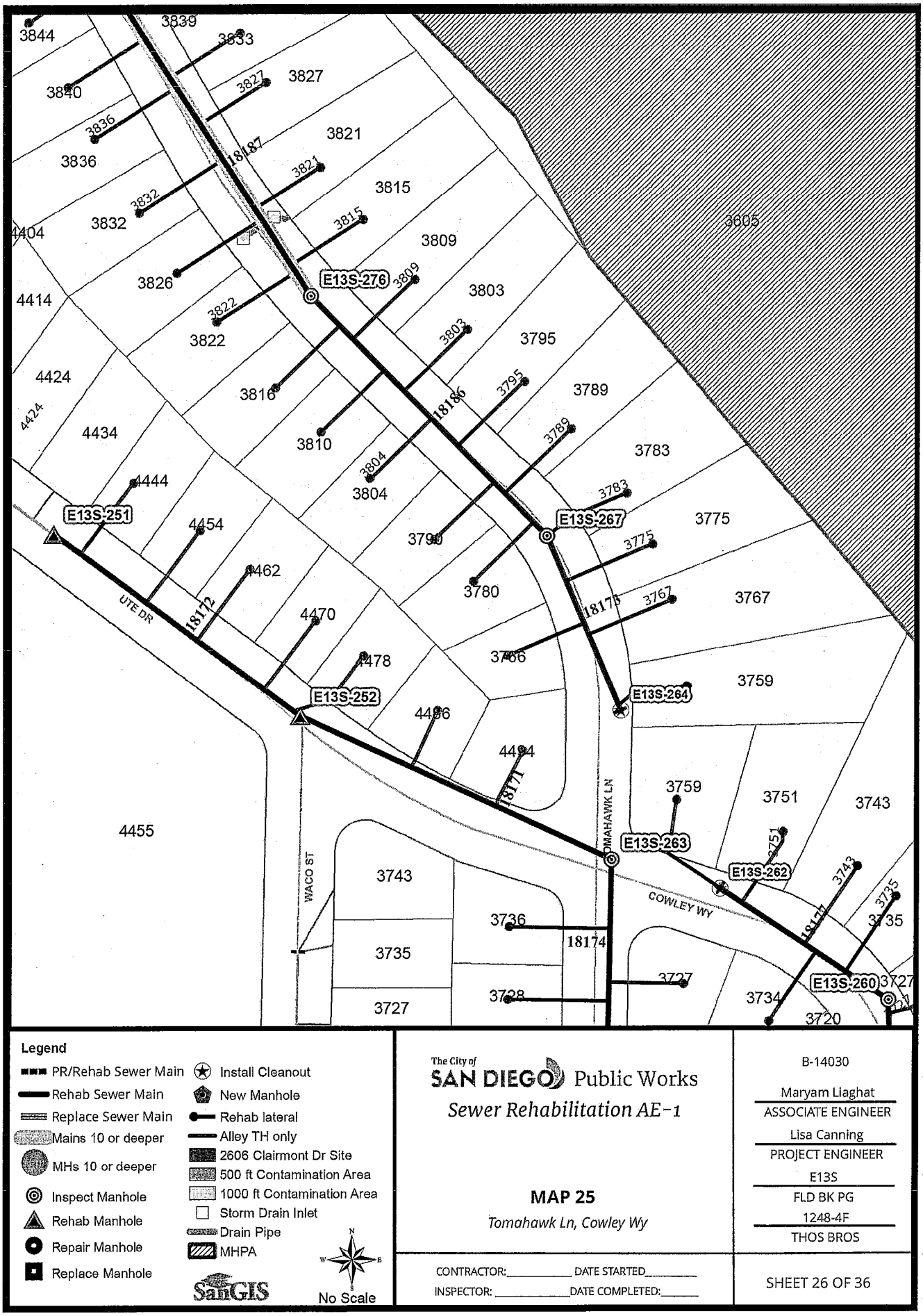

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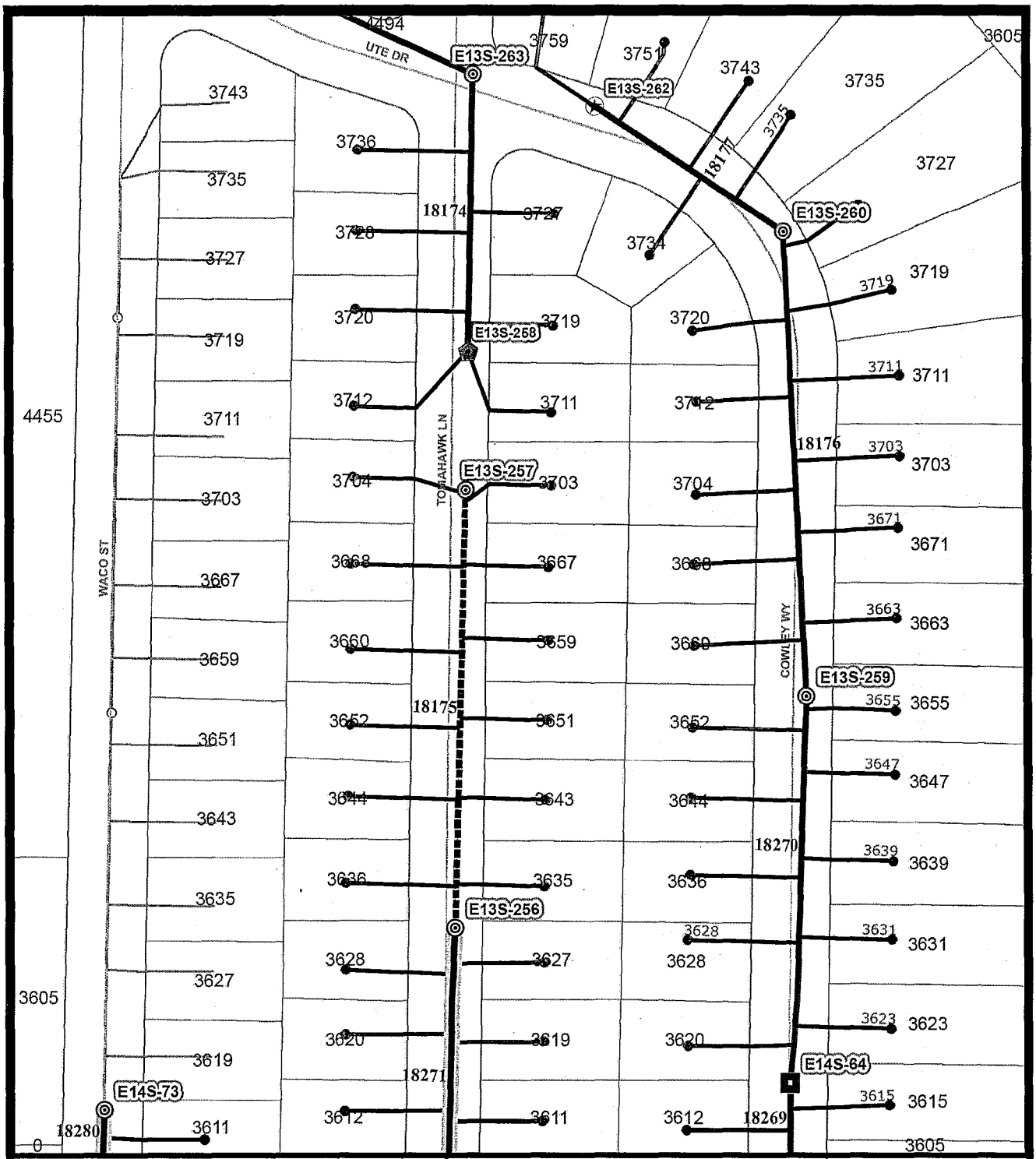

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect
- Rehab
- Repair
- Replace
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 26

Tomahawk Ln, Cowley Wy

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E13S, E14S
FLD BK PG
1248- 4F, 5F
THOS BROS

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SHEET 27 OF 36

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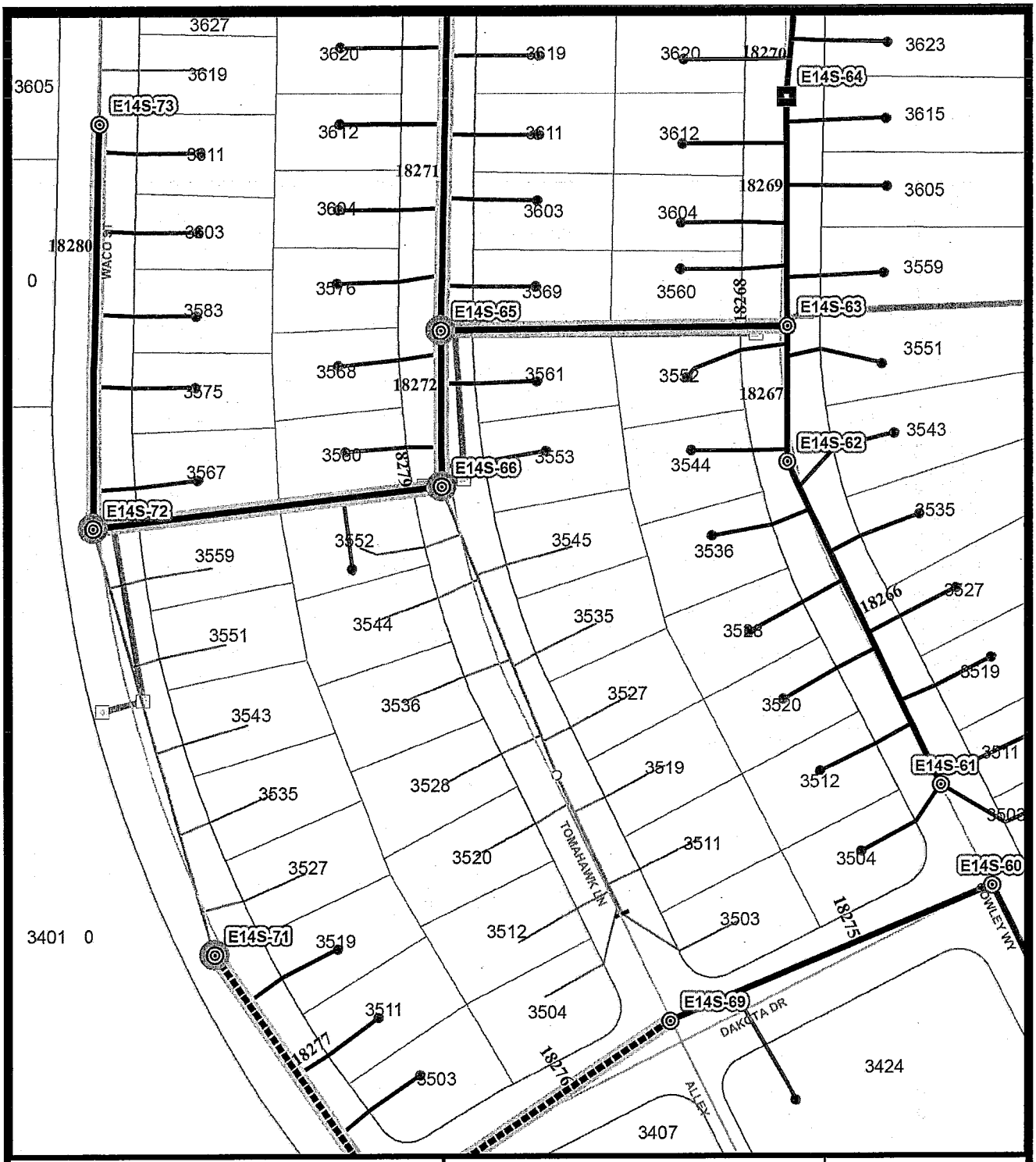

Legend

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 27

Tomahawk Ln, Cowley Wy, Dakota Dr

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____DATE COMPLETED:_____

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Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
FLD BK PG

1248- 5F
THOS BROS

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COMMUNITY NAME:CLAIREMONT MESA

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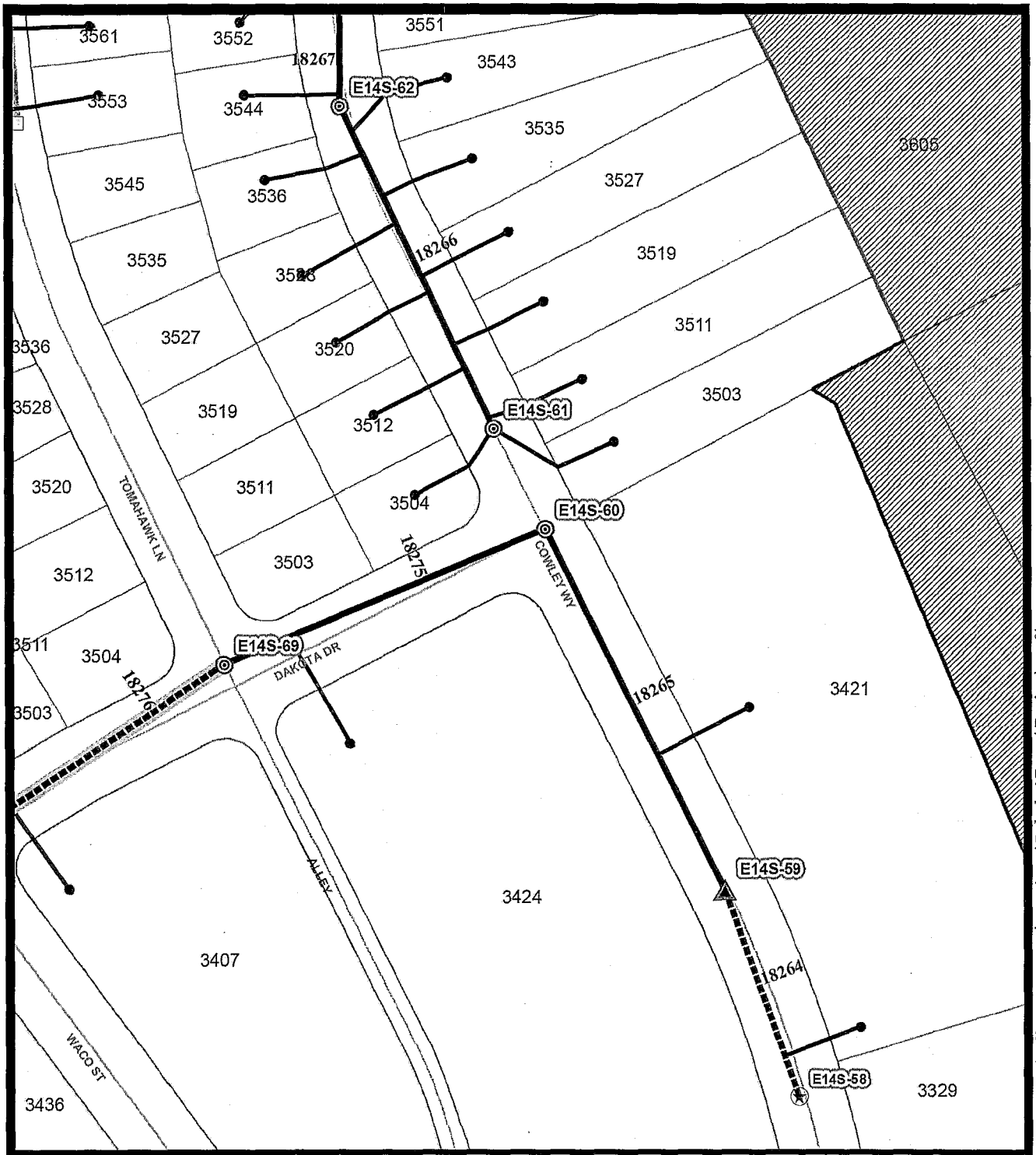

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Mahole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

N W E S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 28

Tomahawk Ln, Cowley Wy, Dakota Dr

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
FLD BK PG
1248- 5F
THOS BROS

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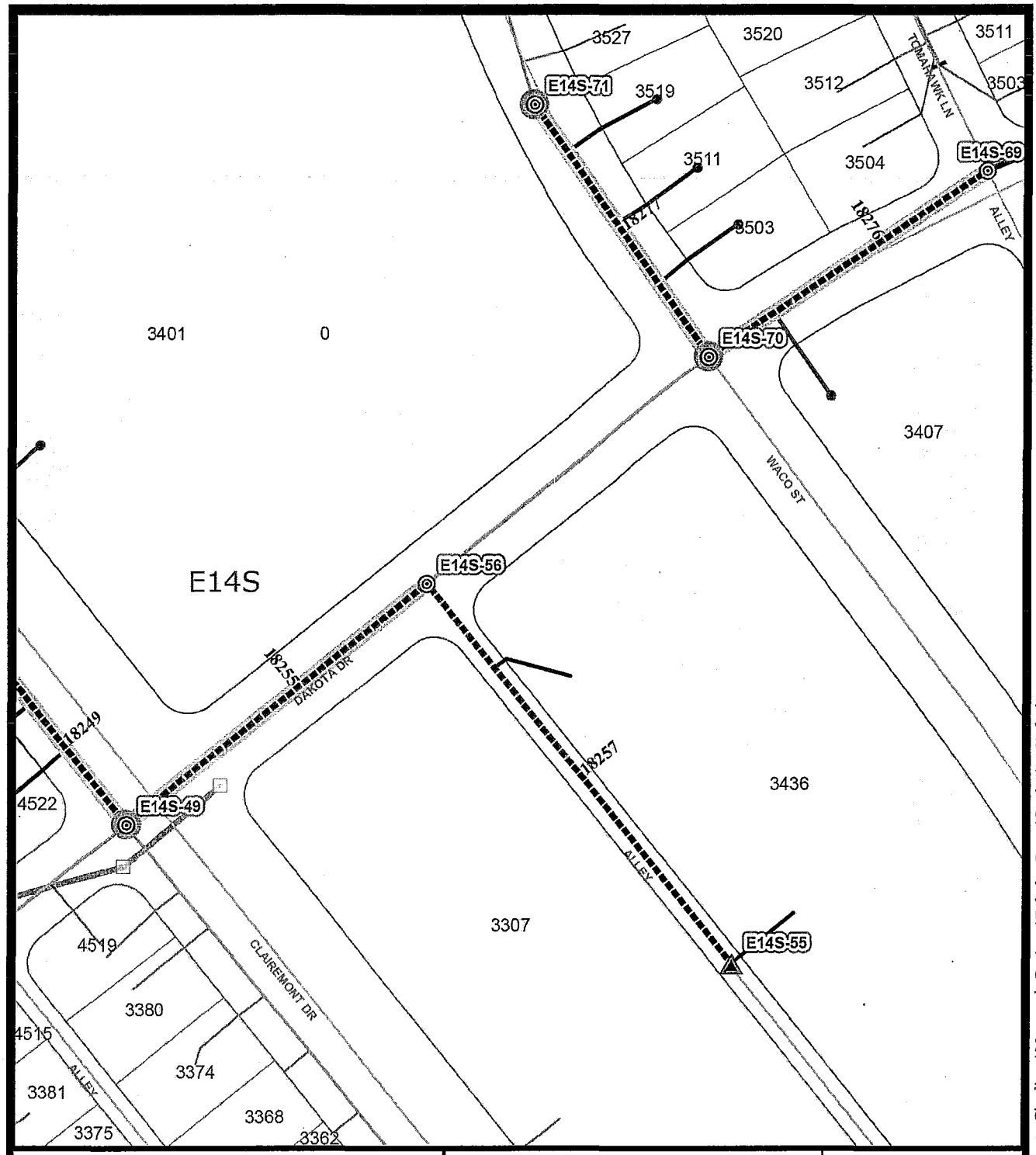

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

N

W E

S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 29

Dakota Dr, Clairemont Dr

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR:_____ DATE COMPLETED:_____

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
FLD BK PG
1248- 5F
THOS BROS

SHEET 30 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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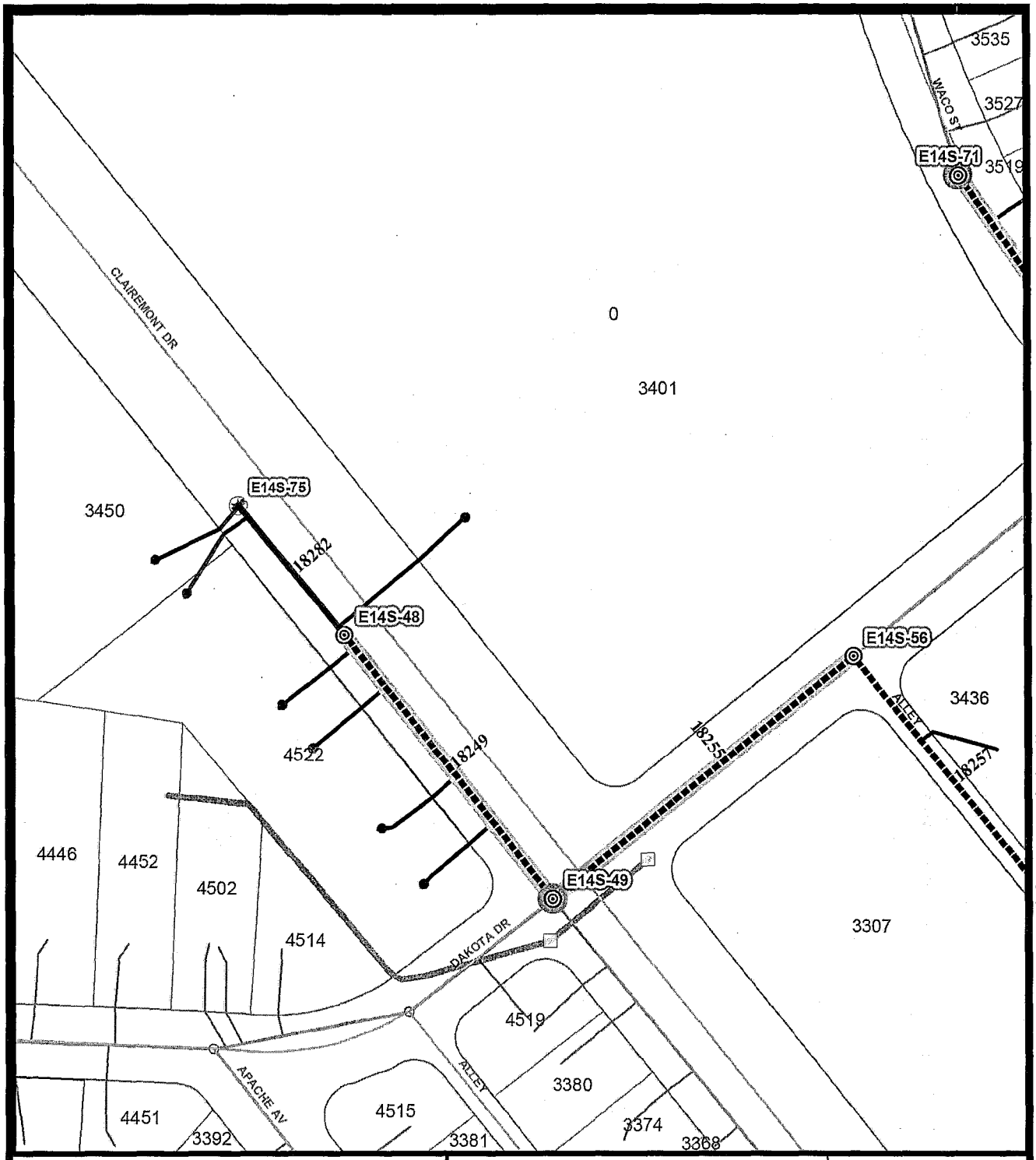

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- MHPA
- Storm Drain Inlet
- Drain Pipe

SanGIS

N

W E

S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 30

Dakota Dr, Clairemont Dr

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
FLD BK PG
1248-5E, 5F
THOS BROS

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR:_____ DATE COMPLETED:_____

SHEET 31 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

S:\ROWD\ROWD-Section-4-WaterandWastewaterPipelines\Maryam's Projects\Rehab AE-1-1\Design\100%

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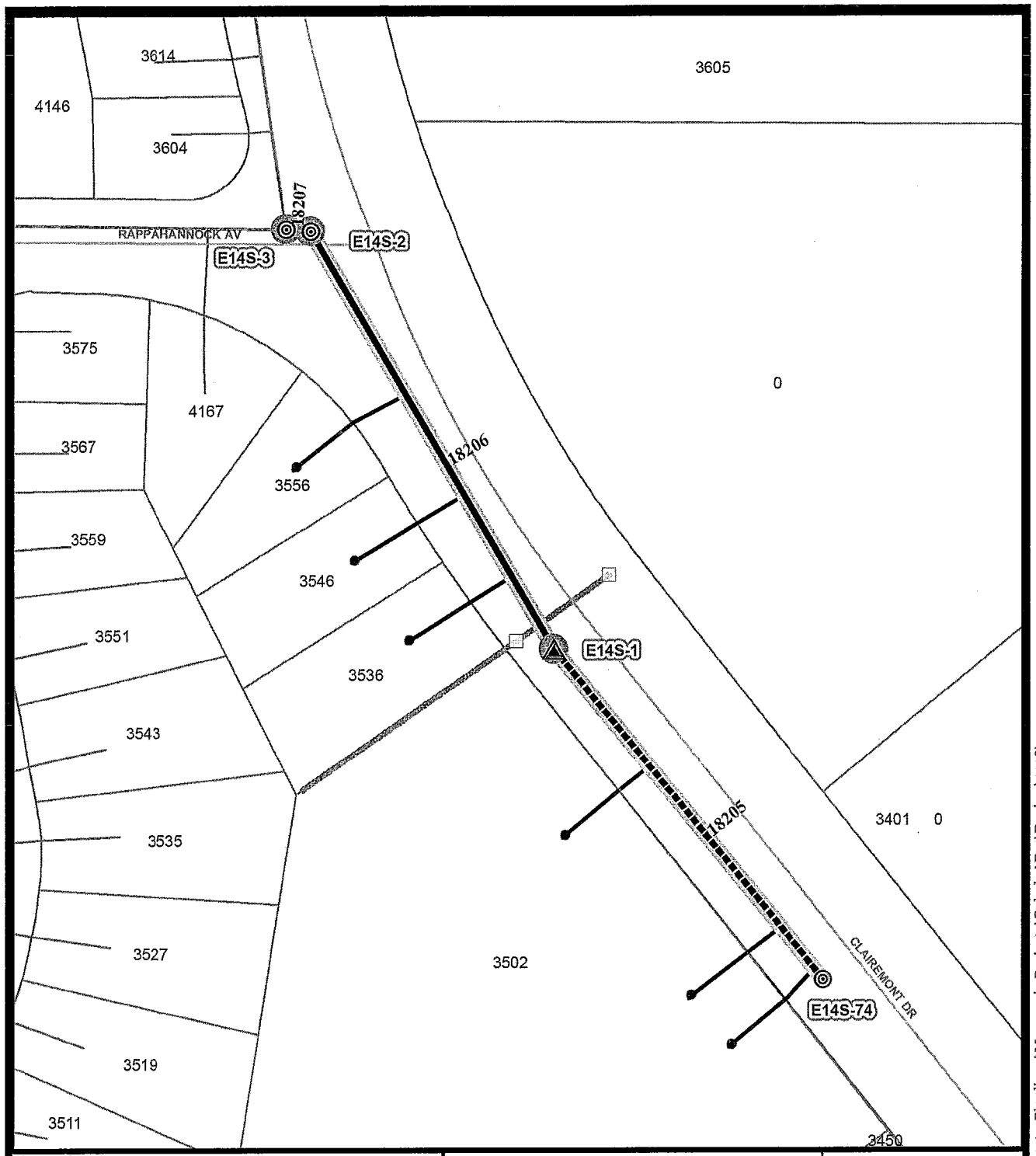

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Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
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- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

N W E S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 31

Rappahanook Av, Clairemont Dr

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____DATE COMPLETED:_____

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

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FLD BK PG

1248-5E
THOS BROS

SHEET 32 OF 36

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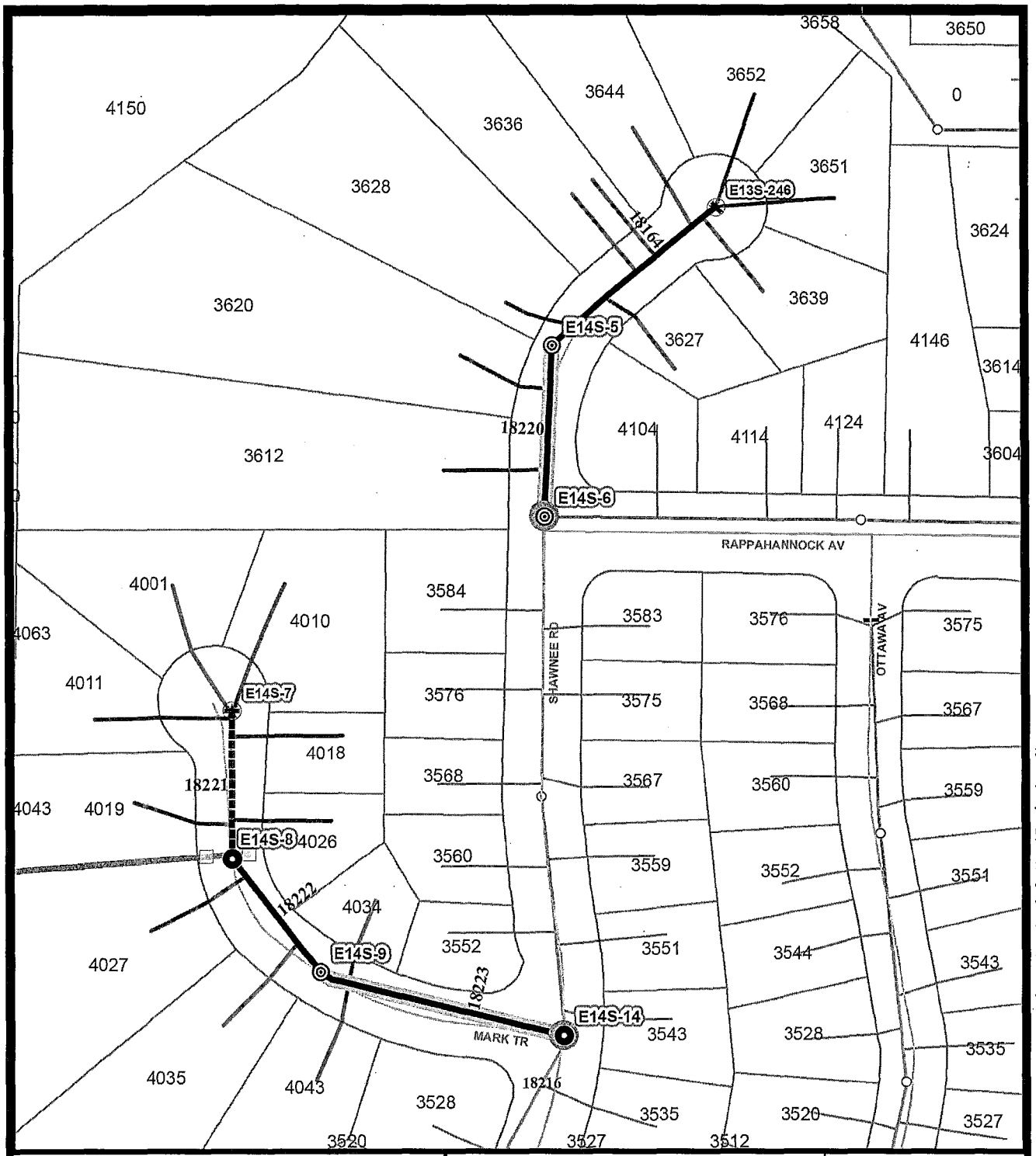
COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA



Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Laterals
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Mains
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

N W E S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 32

Shawnee Rd, Mark Terrace

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR:_____ DATE COMPLETED:_____

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
FLD BK PG
1248-5E
THOS BROS

SHEET 33 OF 36

COUNCIL DISTRICT: 2

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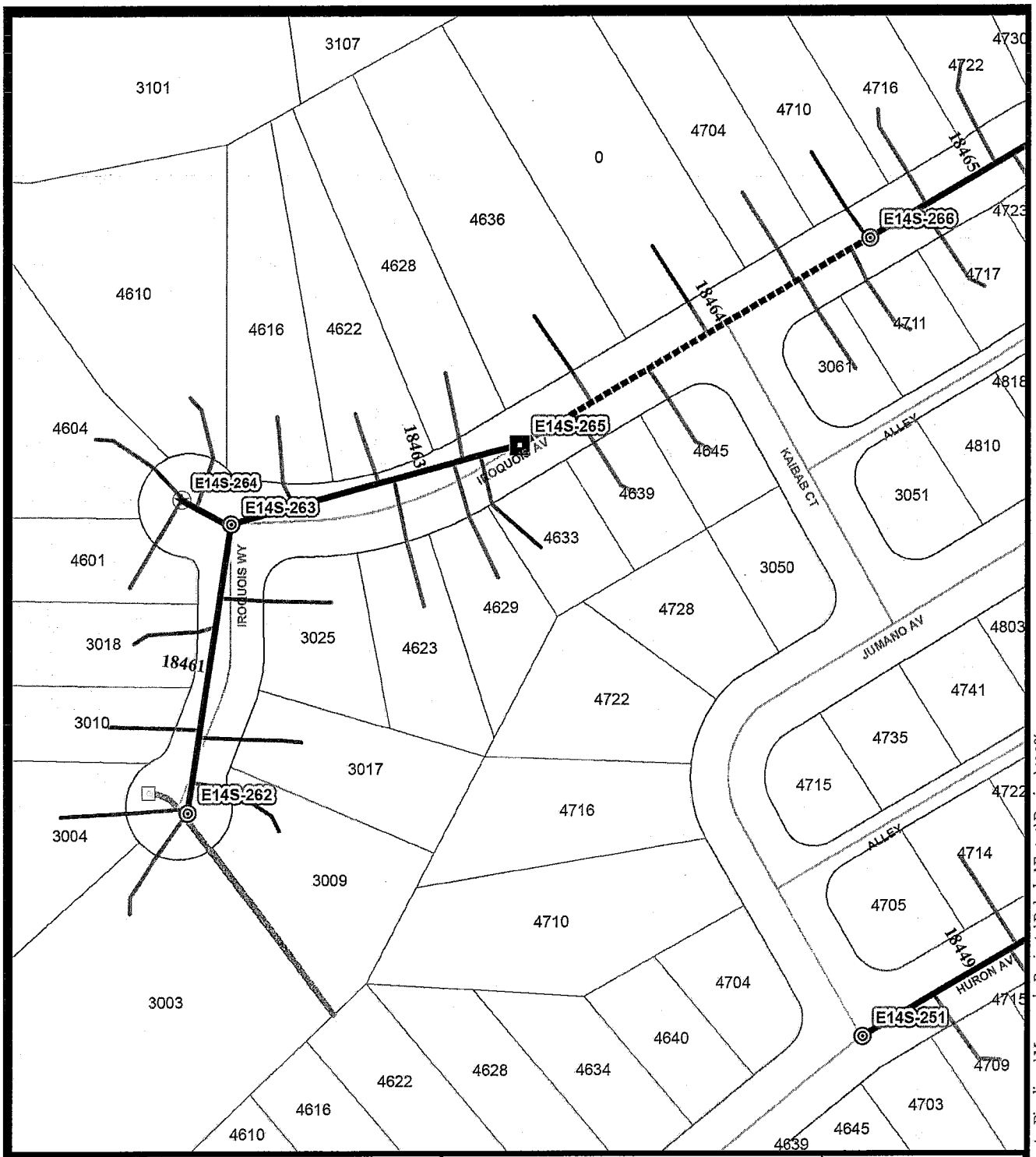

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Laterals AE-1
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 33

Iroquois Wy, Iroquois Av, Huron Av

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INSPECTOR:_____ DATE COMPLETED:_____

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E15S
FLD BK PG
1248- 6F
THOS BROS

SHEET 34 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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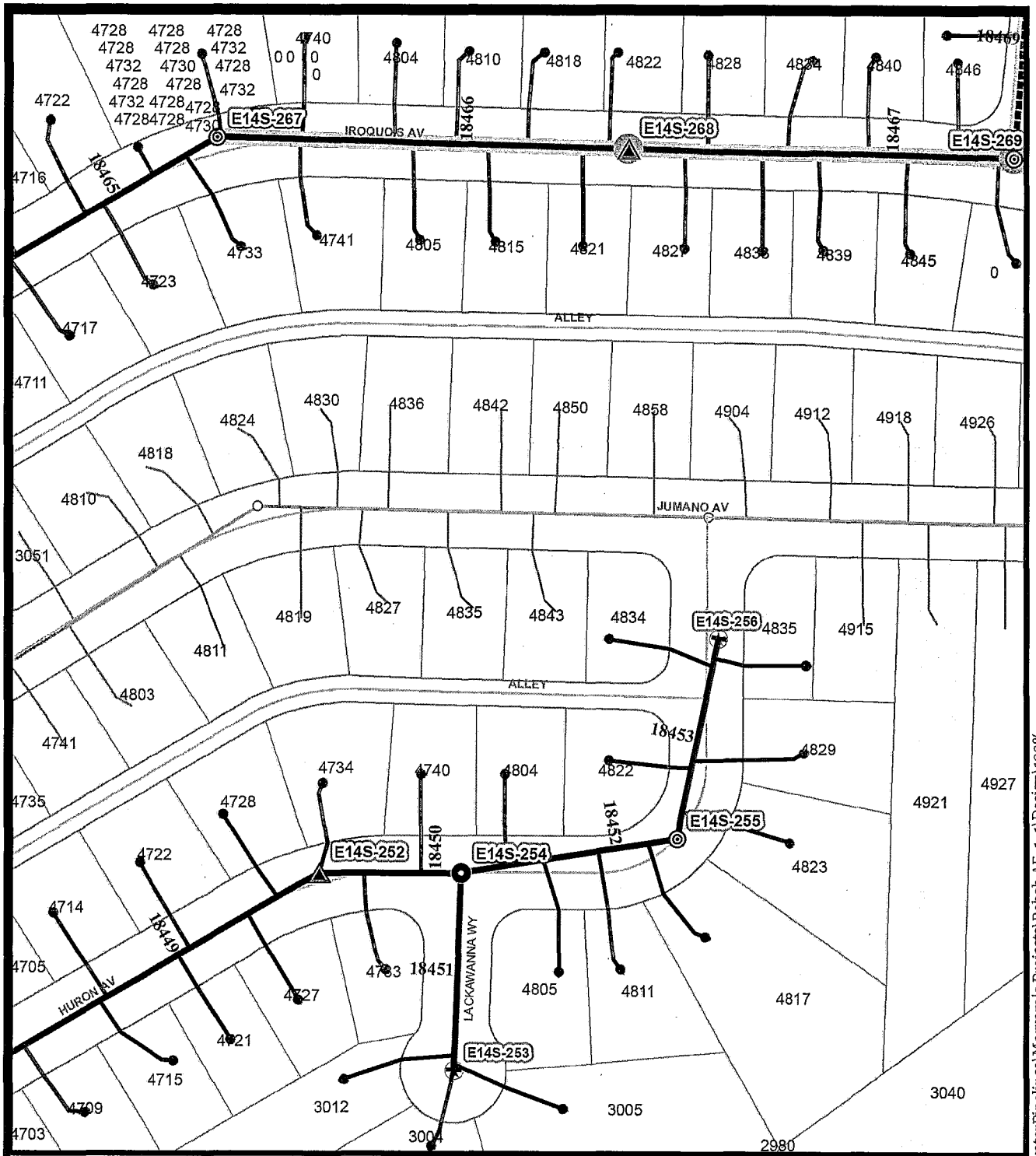

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

N / W / E / S — No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 34

Iroquois Av, Huron Av, Lacawanna Wy

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INSPECTOR: _____ DATE COMPLETED:_____

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
FLD BK PG
1248- 6F
THOS BROS

SHEET 35 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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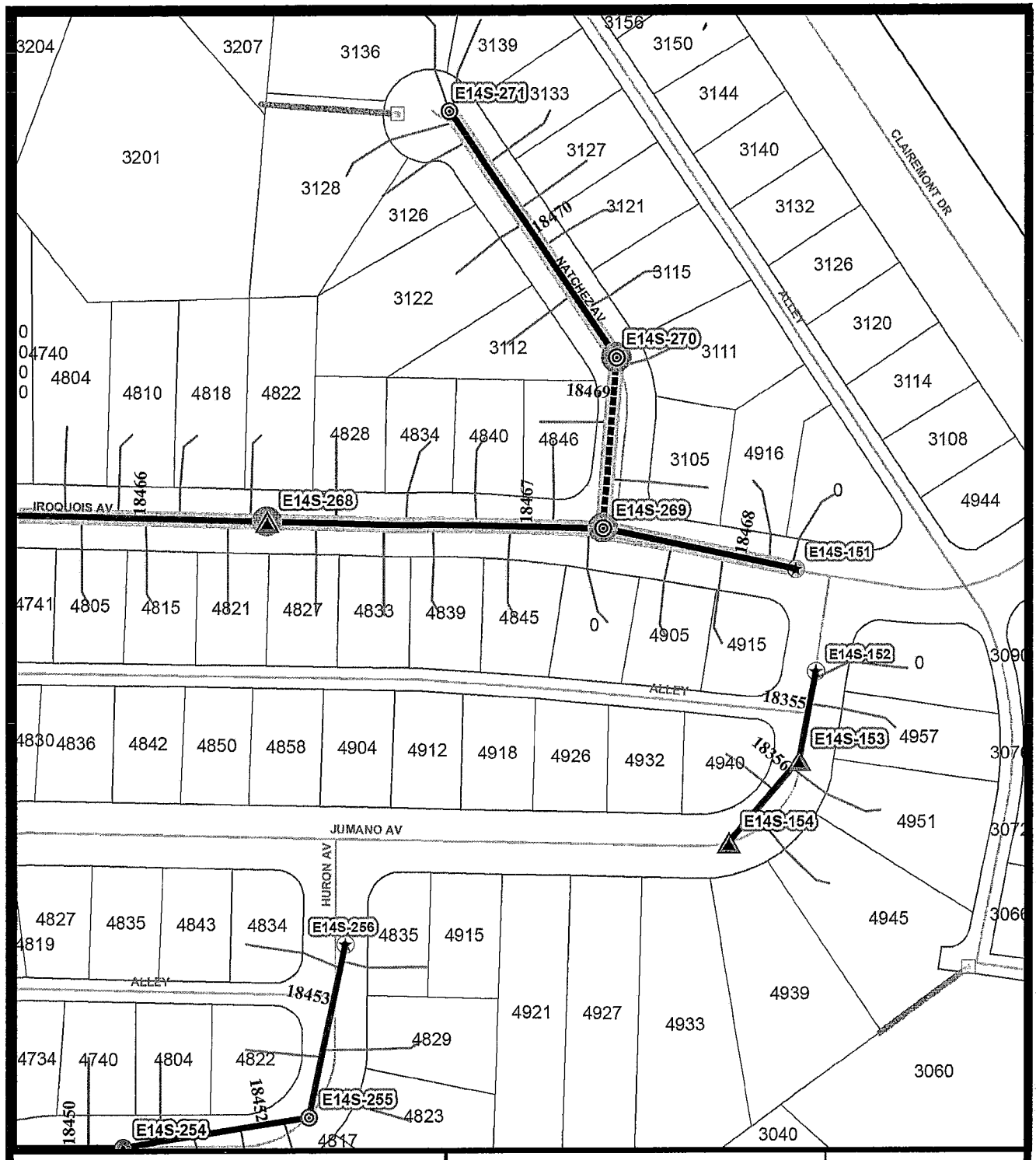

Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- MHs 10 or deeper
- Inspect Manhole
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- Repair Manhole
- Replace Manhole
- Mains 10 or deeper
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- New Manhole
- Rehab lateral
- Alley TH only
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

MAP 35

Natchex Av, Iroquois Av, Jumano Av, Huron Av

B-14030

Maryam Liaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E14S
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1248- 6F
THOS BROS

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INSPECTOR: _____DATE COMPLETED:_____

SHEET 35 OF 36

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

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APPENDIX M

OVERALL PROJECT SCOPE TABLE

No.	FSN	US FBP	Map ID	DS FBP	Map ID	Inst Dt	Length	Size	Matl	Slope (%)	Max D/d	Max Vel. (fps)	Poss. Lat'ls	Action	Thos Bros	Street Name	Community	CD	Comments
1	14324	D13S	214	D13S	218	1/1/1957	139	8	VC	0.40	14.28	1.09	1	Rehab	1248D4	DON LORENZO DR	Bay Park	2	
2	14325	D13S	218	D13S	215	1/1/1957	240	8	VC	11.60	7.84	4.05	6	PR/Rehab	1248D4	MT LAURENCE DR	Bay Park	2	
3	14327	D13S	215	D13S	217	1/1/1957	87	8	VC	1.00	14.61	1.76	2	Rehab	1248D4	MT SANDY DR	Bay Park	2	
4	14328	D13S	219	D13S	218	1/1/1957	131	8	VC	7.45	4.30	2.20	3	PR/Rehab	1248D4	MT LAURENCE DR	Bay Park	2	
5	14329	D13S	220	D13S	219	1/1/1957	189	8	VC	13.23	3.19	2.41	6	Rehab	1248D4	MT LAURENCE DR	Bay Park	2	
6	14330	D13S	221	D13S	220	1/1/1957	56	8	VC	13.00	1.85	1.67	2	Rehab	1248D4	MT LAURENCE DR	Bay Park	2	Install Cleanout
7	14331	D13S	222	D13S	223	1/1/1957	185	8	VC	0.40	6.69	0.68	4	PR/Rehab	1248D4	MT LAURENCE DR	Bay Park	2	Install Cleanout
8	14332	D13S	224	D13S	223	1/1/1957	160	8	VC	0.40	5.58	0.60	4	PR/Rehab	1248E4	MT LAURENCE DR	Bay Park	2	Install Cleanout
9	14334	D13S	226	D13S	229	1/1/1963	46	8	VC	5.78	1.95	1.15	2	Rehab	1248E5	VISTA DE LA BAHIA	Bay Park	2	Install Cleanout
10	14337	D13S	233	D13S	232	1/1/1963	76	8	VC	1.00	5.83	0.98	2	Rehab	1248E4	VISTA DE LA BAHIA	Bay Park	2	
11	14338	D13S	232	D13S	234	1/1/1963	182	8	VC	0.40	9.95	0.88	7	Rehab	1248E4	VISTA DE LA BAHIA	Bay Park	2	
12	14342	D13S	238	D13S	237	1/1/1957	60	8	VC	1.30	4.24	0.91	3	Rehab	1248D4	DON LORENZO DR	Bay Park	2	Install Cleanout
13	14343	D13S	237	D13S	214	1/1/1957	182	8	VC	1.30	10.56	1.64	7	Rehab	1248D4	DON LORENZO DR	Bay Park	2	
14	14549	D14S	110	D14S	98	7/1/1952	250	8	VC	5.36	13.24	3.84	1	Rehab	1248D5	BRANDYWINE ST	Bay Park	2	
15	14553	D14S	101	D14S	103	7/1/1952	170	8	VC	16.47	10.92	5.96	3	Rehab	1248D5	ALLEY	Bay Park	2	
16	14554	D14S	103	D14S	102	7/1/1952	56	8	UNK	7.50	13.19	4.52	0	Rehab	1248D5	MORENA BL	Bay Park	2	
17	14555	D14S	102	D14S	104	7/1/1952	237	8	VC	1.92	18.57	2.83	2	Rehab	1248D5	MORENA BL	Bay Park	2	
18	14556	D14S	104	D14S	140	7/1/1952	237	8	VC	0.77	23.39	2.05	1	Rehab	1248D5	MORENA BL	Bay Park	2	
19	14557	D14S	105	D14S	139	7/1/1952	210	8	UNK	1.43	18.17	2.40	16	Rehab	1248D5	ALLEY	Bay Park	2	
20	14558	D14S	106	D14S	105	7/1/1952	160	8	VC	13.12	10.07	5.05	5	Rehab	1248D5	ALLEY	Bay Park	2	
21	14559	D14S	107	D14S	106	7/1/1952	110	8	VC	16.36	4.97	3.59	2	Rehab	1248D5	ALLEY	Bay Park	2	
22	14561	D14S	109	D14S	108	7/1/1952	200	8	VC	2.00	5.62	1.36	9	Rehab	1248D5	ALLEY	Bay Park	2	Install Manhole
23	14562	D14S	111	D14S	110	7/1/1952	175	8	VC	7.08	12.22	4.19	4	Rehab	1248D5	BRANDYWINE ST	Bay Park	2	
24	14563	D14S	125	D14S	111	1/1/1957	183	8	VC	8.80	11.41	4.48	1	Rehab	1248D5	BRANDYWINE ST	Bay Park	2	
25	14564	D14S	112	D14S	113	7/1/1952	195	8	VC	1.03	5.00	0.90	4	Rehab	1248D5	ETHAN ALLEN AV	Bay Park	2	Install Cleanout
26	14565	D14S	113	D14S	114	7/1/1952	200	8	VC	6.00	4.16	1.93	4	Rehab	1248D5	ETHAN ALLEN AV	Bay Park	2	
27	14566	D14S	115	D14S	106	7/1/1952	153	8	VC	1.31	14.42	2.00	0	Rehab	1248D5	BUNKER HILL ST	Bay Park	2	
28	14567	D14S	114	D14S	115	7/1/1952	165	8	VC	17.58	3.69	3.06	3	Rehab	1248D5	ETHAN ALLEN AV	Bay Park	2	
29	14568	D14S	116	D14S	138	7/1/1952	255	8	VC	8.63	4.64	2.49	14	Rehab	1248D5	ALLEY	Bay Park	2	
30	14569	D14S	120	D14S	115	7/1/1952	153	8	VC	10.59	15.29	3.87	2	Rehab	1248D5	BUNKER HILL ST	Bay Park	2	
31	14570	D14S	121	D14S	120	7/1/1952	170	8	VC	8.71	11.94	2.54	1	Rehab	1248D5	ALLEY	Bay Park	2	
32	14571	D14S	122	D14S	121	7/1/1952	200	8	VC	13.50	10.73	2.91	6	Rehab	1248D5	ALLEY	Bay Park	2	
33	14572	D14S	124	D14S	122	7/1/1952	190	8	VC	5.26	10.56	1.45	6	Rehab	1248D5	ALLEY	Bay Park	2	Install Cleanout
34	14573	D13S	217	D14S	125	1/1/1957	231	8	VC	13.87	8.05	4.50	6	PR/Rehab	1248D5	MT SANDY DR	Bay Park	2	
35	14575	D14S	128	D14S	127	1/1/1957	100	8	VC	8.20	1.31	1.05	1	Rehab	1248D5	BRANDYWINE ST	Bay Park	2	Install Cleanout
36	14577	D14S	127	D14S	129	7/1/1952	243	8	VC	5.27	2.65	1.35	4	Rehab	1248D5	PRINCETON AV	Bay Park	2	
37	14578	D14S	129	D14S	130	7/1/1952	190	8	VC	8.42	3.41	2.01	5	Rehab	1248D5	PRINCETON AV	Bay Park	2	
38	14579	D14S	130	D14S	131	7/1/1952	180	8	VC	10.33	3.77	2.38	4	Rehab	1248D5	PRINCETON AV	Bay Park	2	
39	14580	D14S	131	D14S	120	7/1/1952	153	8	VC	10.59	6.36	3.38	1	Rehab	1248D5	BUNKER HILL ST	Bay Park	2	
40	14581	D14S	213	D14S	131	7/1/1952	330	8	VC	7.39	5.64	2.62	4	Rehab	1248D5	BUNKER HILL ST	Bay Park	2	
41	14582	D14S	132	D14S	133	7/1/1952	19	8	VC	1.99	2.30	0.75	1	Rehab	1248D5	PRINCETON AV	Bay Park	2	Install Cleanout
42	14584	D14S	133	D14S	134	7/1/1952	285	8	VC	7.02	3.83	1.98	6	Rehab	1248D5	PRINCETON AV	Bay Park	2	
43	14585	D14S	352	D14S	135	7/1/1952	295	8	VC	11.96	4.39	2.82	4	Rehab	1248D5	ALLEY	Bay Park	2	
44	14586	D14S	135	D14S	136	7/1/1952	165	8	VC	4.98	16.95	4.30	6	Rehab	1248D5	TICONDEROGA ST	Bay Park	2	
45	14587	D14S	136	D14S	137	7/1/1952	153	8	VC	5.56	16.88	4.54	1	Rehab	1248D5	TICONDEROGA ST	Bay Park	2	

No.	FSN	US FBP	Map ID	DS FBP	Map ID	Inst Dt	Length	Size	Matl	Slope (%)	Max D/d	Max Vel. (fps)	Poss. Lat'ls	Action	Thos Bros	Street Name	Community	CD	Comments
46	14588	D14S	134	D14S	136	7/1/1952	295	8	VC	10.00	4.83	2.75	7	Rehab	1248D5	PRINCETON AV	Bay Park	2	
47	14590	D14S	137	D14S	141	7/1/1952	305	8	VC	3.48	20.06	3.98	1	Rehab	1248D5	TICONDEROGA ST	Bay Park	2	
48	14591	D14S	139	D14S	141	7/1/1952	285	8	VC	6.18	13.26	4.12	9	Rehab	1248D5	ALLEY	Bay Park	2	
49	14592	D14S	141	D14S	142	7/1/1952	30	8	UNK	4.23	21.92	4.63	0	Rehab	1248D5	MORENA BL	Bay Park	2	
50	14593	D14S	140	D14S	142	7/1/1952	297	8	VC	0.77	23.43	2.05	0	Rehab	1248D5	MORENA BL	Bay Park	2	
51	14605	D14S	142	D14S	153	7/1/1952	360	8	VC	2.72	30.15	4.03	0	Rehab	1248D5	MORENA BL	Bay Park	2	
52	14607	D14s	154	D14S	152	1/1/1966	404	10	VC	0.56	46.00	3.01	1	Rehab	1248D5	MORENA BL	Bay Park	2	
53	14608	D14s	155	D14S	154	7/28/1960	315	8	VC	11.21	61.00	3.25	2	Rehab	1248D5	BAKER ST	Bay Park	2	
54	14609	D14S	320	D14S	155	7/28/1960	283	8	VC	13.50	30.27	7.82	6	Rehab	1248D5	BAKER ST	Bay Park	2	
55	14610	D14S	156	D14S	318	4/20/1953	230	8	VC	1.77	11.10	1.97	5	Rehab	1248E5	BORRESON ST	Bay Park	2	
56	14611	D14S	157	D14S	156	4/20/1953	230	8	VC	2.03	10.31	2.02	8	PR/Rehab	1248E5	BORRESON ST	Bay Park	2	
57	14612	D14S	167	D14S	157	4/20/1953	200	8	UNK	1.90	9.86	1.90	6	Rehab	1248E5	BORRESON ST	Bay Park	2	
58	14613	D14S	159	D14S	135	7/1/1952	165	8	VC	2.11	20.34	3.12	1	Rehab	1248D5	TICONDEROGA ST	Bay Park	2	
59	14614	D14S	160	D14S	159	7/1/1952	83	8	VC	7.46	14.90	4.87	0	Rehab	1248D5	MOULTRIE AV	Bay Park	2	
60	14624	D14S	174	D14S	318	4/20/1953	220	8	VC	11.75	27.92	7.28	4	PR/Rehab	1248E5	BAKER ST	Bay Park	2	
61	14625	D14S	175	D14S	174	3/12/1953	141	8	VC	11.82	27.47	7.42	5	Rehab	1248E5	BAKER ST	Bay Park	2	
62	14626	D14S	173	D14S	175	3/12/1953	240	8	VC	11.78	27.39	7.40	9	PR/Rehab	1248E5	BAKER ST	Bay Park	2	
63	14627	D14S	172	D14S	173	3/12/1953	238	8	VC	4.56	33.72	5.50	5	Rehab	1248E5	BAKER ST	Bay Park	2	
64	14628	D14S	177	D14S	179	3/12/1953	120	8	VC	0.74	3.61	0.62	2	Rehab	1248E5	BALTIMORE ST	Bay Park	2	Install Cleanout
65	14630	D14S	179	D14S	172	3/12/1953	230	8	VC	2.14	6.04	1.47	2	Rehab	1248E5	CHICAGO ST	Bay Park	2	
66	14632	D14S	170	D14S	172	3/12/1953	100	8	VC	0.70	3.19	0.55	2	Rehab	1248E5	TICONDEROGA ST	Bay Park	2	Install Cleanout
67	14636	D14S	186	D14S	187	1/1/1963	143	8	VC	7.01	1.87	1.23	2	Rehab	1248E5	VIA BELTRAN,	Bay Park	2	Install Cleanout
68	14637	D14S	190	D14S	187	1/1/1963	264	8	VC	0.97	10.39	1.40	7	Rehab	1248E5	VIA DEL CONQUISTADOR	Bay Park	2	
69	14638	D14S	188	D14S	189	1/1/1963	66	8	VC	7.54	3.57	1.96	5	Rehab	1248E5	VISTA DE LA ORILLA	Bay Park	2	Install Cleanout
70	14641	D13S	229	D14S	192	1/1/1963	98	8	VC	5.79	3.17	1.59	3	Rehab	1248E5	VISTA DE LA BAHIA	Bay Park	2	
71	14642	D14S	192	D14S	193	1/1/1963	197	8	VC	4.00	4.84	1.74	6	Rehab	1248E5	VISTA DE LA BAHIA	Bay Park	2	
72	14643	D14S	193	D14S	194	1/1/1963	203	8	VC	2.24	6.43	1.57	7	Rehab	1248E5	VISTA DE LA BAHIA	Bay Park	2	
73	14645	D14S	430	D14S	196	1/1/1963	87	8	CI	66.47	3.50	5.74	0	Rehab	1248E5	easement	Bay Park	2	
74	14646	D14S	196	D14S	197	1/1/1963	130	8	VC	3.20	7.11	2.00	0	Rehab	1248E5	VIA DEL CONQUISTADOR	Bay Park	2	
75	14647	D14S	201	D14S	197	1/1/1963	183	8	VC	2.33	5.78	1.49	4	Rehab	1248E5	VIA DEL CONQUISTADOR	Bay Park	2	
76	14649	D14S	187	D14S	197	1/1/1963	262	8	VC	0.97	11.62	1.50	6	Rehab	1248E5	VIA DEL CONQUISTADOR	Bay Park	2	
77	14651	D14S	198	D14S	199	1/1/1963	226	8	VC	1.22	15.67	2.03	3	PR/Rehab	1248E5	SIOUX AV	Bay Park	2	
78	14654	D14S	205	D14S	201	1/1/1963	270	8	VC	12.01	3.32	2.36	7	PR/Rehab	1248E5	VIA DEL CONQUISTADOR	Bay Park	2	
79	14657	D14S	203	D14S	204	7/1/1952	19	8	VC	2.00	11.99	0.57	3	Rehab	1248D5	TRENTON AV	Bay Park	2	Install Cleanout
80	14658	D14S	204	D14S	208	7/1/1952	330	8	VC	2.51	7.87	1.89	8	PR/Rehab	1248D5	TRENTON AV	Bay Park	2	
81	14659	D14S	208	D14S	209	7/1/1952	230	8	VC	7.87	6.98	3.10	5	Rehab	1248D5	TRENTON AV	Bay Park	2	
82	14663	D14S	215	D14S	212	7/1/1952	230	8	VC	9.22	8.01	3.66	9	Rehab	1248D5	ALLEY	Bay Park	2	
83	14664	D14S	209	D14S	215	7/1/1952	159	8	VC	6.29	8.13	3.05	1	Rehab	1248D5	BUNKER HILL ST	Bay Park	2	
84	14665	D14S	216	D14S	213	7/1/1952	270	8	VC	8.96	5.36	2.78	11	Rehab	1248D5	MOULTRIE AV	Bay Park	2	
85	14666	D14S	217	D14S	216	7/1/1952	343	8	VC	6.90	4.43	2.16	14	Rehab	1248D5	MOULTRIE AV	Bay Park	2	
86	14667	D14S	221	D14S	217	1/1/1957	100	8	VC	6.90	1.36	0.99	1	Rehab	1248D5	BRANDYWINE ST	Bay Park	2	Install Cleanout
87	14679	D14s	236	D14s	154	1/1/1960	108	8	VC	0.55	13.00	1.16	1	Rehab	1248D5	MORENA BL	Bay Park	2	
88	14681	D14S	238	D14S	236	6/6/1951	300	8	VC	0.53	11.98	1.14	5	Rehab	1248D5	MORENA BL	Bay Park	2	
89	14682	D14S	328	D14S	238	6/6/1951	300	8	VC	0.40	11.42	0.95	5	Rehab	1248D6	MORENA BL	Bay Park	2	
90	14705	D14S	275	D14S	324	1/1/1956	150	8	VC	0.60	5.53	0.74	3	Rehab	1248D6	MC GRAW ST	Bay Park	2	Install Cleanout

No.	FSN	US FBP	Map ID	DS FBP	Map ID	Inst Dt	Length	Size	Matl	Slope (%)	Max D/d	Max Vel. (fps)	Poss. Lat'ls	Action	Thos Bros	Street Name	Community	CD	Comments
91	14706	D14S	276	D14S	272	1/1/1956	180	8	VC	0.40	7.23	0.71	6	Rehab	1248E6	MC GRAW ST	Bay Park	2	Install Cleanout
92	14707	D14S	272	D14S	271	1/1/1956	350	8	VC	0.60	10.21	1.09	9	Rehab	1248E6	MC GRAW ST	Bay Park	2	
93	14708	D14S	280	D14S	281	1/1/1960	176	8	VC	0.63	15.71	1.46	6	Rehab	1248E6	LLOYD, ST	Bay Park	2	
94	14709	D14S	279	D14S	280	1/1/1960	178	8	VC	4.03	9.39	2.67	5	Rehab	1248E6	LLOYD, ST	Bay Park	2	
95	14710	D14S	277	D14S	279	1/1/1960	108	8	VC	0.40	11.97	0.98	0	Rehab	1248E6	LLOYD, TR	Bay Park	2	
96	14711	D14S	323	D14S	277	1/1/1960	350	8	VC	0.40	11.96	0.98	9	Rehab	1248E6	LLOYD, TR	Bay Park	2	
97	14712	D14S	278	D14S	279	1/1/1960	270	8	VC	11.24	4.28	2.69	8	Rehab	1248E6	LLOYD, ST	Bay Park	2	
98	14724	D14S	309	D14S	313	3/1/1955	177	8	VC	19.50	9.25	5.84	0	Rehab	1248E6	BALTIMORE, ST	Bay Park	2	
99	14725	D14S	308	D14S	309	3/1/1955	195	8	VC	0.50	20.34	1.53	2	Rehab	1248E6	BALTIMORE, ST	Bay Park	2	
100	14726	D14S	300	D14S	309	3/1/1955	300	8	VC	3.50	6.18	1.91	9	Rehab	1248E6	CRETE, ST	Bay Park	2	
101	14727	D14S	299	D14S	300	3/1/1955	110	8	VC	2.00	4.68	1.20	6	Rehab	1248E6	CRETE, ST	Bay Park	2	Install Cleanout
102	14732	D14S	176	D14S	304	3/1/1955	120	8	VC	3.50	3.85	1.40	4	Rehab	1248E5	BALTIMORE, ST	Bay Park	2	Install Cleanout
103	14733	D14S	304	D14S	305	3/1/1955	204	8	VC	2.99	11.97	1.81	7	Rehab	1248E5	BALTIMORE, ST	Bay Park	2	
104	14734	D14S	305	D14S	306	3/1/1955	250	8	VC	2.50	7.83	1.88	6	Rehab	1248E5	BALTIMORE, ST	Bay Park	2	
105	14736	D14S	306	D14S	307	3/1/1955	204	8	VC	1.50	14.95	2.19	6	Rehab	1248E5	MACTIBBY, ST	Bay Park	2	
106	14737	D14S	307	D14S	308	3/1/1955	66	8	VC	0.50	20.16	1.51	2	Rehab	1248E5	BALTIMORE, ST	Bay Park	2	
107	14738	D14S	316	D14S	321	4/20/1953	179	8	VC	6.48	13.89	4.34	4	Rehab	1248D5	LLOYD, ST	Bay Park	2	
108	14739	D14S	317	D14S	316	4/20/1953	256	8	VC	10.67	4.42	2.68	10	Rehab	1248E5	LLOYD, PL	Bay Park	2	
109	14740	D14S	315	D14S	316	4/20/1953	300	8	VC	8.49	12.27	4.60	9	PR/Rehab	1248E6	LLOYD ST	Bay Park	2	
110	14741	D14S	314	D14S	315	4/20/1953	102	8	VC	2.10	16.55	2.75	3	Rehab	1248E6	LLOYD, ST	Bay Park	2	
111	14742	D14S	313	D14S	314	7/1/1951	130	8	VC	11.40	10.51	4.84	0	Rehab	1248E6	LLOYD, ST	Bay Park	2	
112	14743	D14S	312	D14S	314	1/1/1960	113	8	VC	5.48	3.92	1.77	3	PR/Rehab	1248E6	LLOYD ST	Bay Park	2	
113	14744	D14S	310	D14S	312	1/1/1960	105	8	VC	6.80	2.88	1.62	4	PR/Rehab	1248E6	LLOYD ST	Bay Park	2	Install Cleanout
114	14745	D14S	311	D14S	278	1/1/1960	160	8	VC	6.94	3.12	1.73	5	Rehab	1248E6	LLOYD, ST	Bay Park	2	Install Cleanout
115	14746	D14S	322	D14S	323	1/1/1960	182	8	VC	0.40	8.21	0.77	7	Rehab	1248E6	LLOYD, TR	Bay Park	2	Install Cleanout
116	14749	D14S	324	D14S	325	1/1/1956	350	8	VC	0.60	7.46	0.89	4	Rehab	1248D6	MC GRAW, ST	Bay Park	2	
117	14750	D14S	325	D14S	329	7/28/1960	200	8	VC	2.60	7.22	1.82	7	Rehab	1248D6	MC GRAW, ST	Bay Park	2	
118	14752	D14S	329	D14S	330	7/28/1960	215	8	VC	0.50	12.71	1.14	8	Rehab	1248D6	MC GRAW, ST	Bay Park	2	
119	14753	D14S	330	D14S	155	7/28/1960	300	8	VC	0.56	13.73	1.26	7	Rehab	1248D5	MC GRAW, ST	Bay Park	2	
120	14754	D14S	321	D14S	320	4/20/1953	300	8	VC	4.52	15.38	3.86	5	Rehab	1248D5	LLOYD, ST	Bay Park	2	
121	14755	D14S	319	D14S	320	4/20/1953	185	8	VC	11.50	28.71	7.36	4	Rehab	1248D5	BAKER, ST	Bay Park	2	
122	14756	D14S	318	D14S	319	4/20/1953	183	8	VC	11.80	28.10	7.53	4	Rehab	1248E5	BAKER, ST	Bay Park	2	
123	14802	D14S	194	D14S	430	1/1/1963	90	8	VC	2.22	7.75	1.76	1	Rehab	1248E5	,	Bay Park	2	
124	14809	D14S	271	D15S	30	1/1/1956	340	8	VC	2.09	9.58	1.96	10	Rehab	1248E6	MC GRAW, ST	Bay Park	2	
125	14814	D15S	31	D15S	36	1/1/1960	350	8	VC	5.31	11.39	3.48	10	Rehab	1248E6	LLOYD, ST	Bay Park	2	
126	14815	D15S	30	D15S	37	1/1/1956	350	8	VC	2.29	10.86	2.22	10	Rehab	1248E6	MC GRAW, ST	Bay Park	2	
127	14816	D15S	37	D15S	38	1/1/1956	298	8	VC	7.78	9.08	3.65	9	PR/Rehab	1248E6	MC GRAW ST	Bay Park	2	
128	14817	D15S	36	D15S	39	1/1/1960	322	8	VC	7.60	11.86	4.26	8	PR/Rehab	1248E6	LLOYD ST	Bay Park	2	
129	14818	D15S	40	D15S	39	1/1/1960	135	8	VC	9.22	3.76	2.24	5	Rehab	1248E6	COBRIDGE, WY	Bay Park	2	Install Cleanout
130	14819	D15S	39	D15S	41	1/1/1960	148	8	VC	11.21	11.34	5.03	3	Rehab	1248E6	LLOYD, ST	Bay Park	2	
131	14820	D15S	41	D15S	42	1/1/1958	50	8	VC	4.79	14.18	3.74	2	Rehab	1248E6	LLOYD, ST	Bay Park	2	
132	14821	D15S	38	D15S	44	1/1/1956	283	8	VC	2.41	12.48	2.47	6	Rehab	1248E6	MC GRAW, ST	Bay Park	2	
133	14822	D15S	44	D15S	45	1/1/1956	203	8	VC	1.50	16.43	1.98	4	Rehab	1248E6	MORENA, BL	Bay Park	2	
134	14823	D15S	42	D15S	47	1/1/1958	340	8	VC	4.69	14.81	3.85	12	Rehab	1248E6	LLOYD, ST	Bay Park	2	
135	14824	E15S	106	D15S	47	1/1/1958	350	8	VC	6.54	9.47	3.43	0	Rehab	1248E7	GESNER, ST	Bay Park	2	

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136	14825	D15S	47	D15S	45	1/1/1958	262	8	VC	6.98	15.11	4.75	0	Rehab	1248E7	GESNER, ST	Bay Park	2	
137	14826	D15S	45	D15S	48	1/1/1956	147	8	VC	1.10	26.63	2.64	0	Rehab	1248E7	MORENA, BL	Bay Park	2	
138	14831	D15S	48	D15S	313	1/1/1956	350	8	VC	1.63	28.22	3.32	2	Rehab	1248E7	,	Bay Park	2	
139	14886	D14S	281	D15S	31	1/1/1960	350	8	VC	0.97	15.72	1.81	10	PR/Rehab	1248E6	LLOYD ST	Bay Park	2	
140	18164	E13S	246	E14S	5	2/8/1954	168	8	VC	1.40	11.12	1.26	8	Rehab	1248E5	SHAWNEE, RD	Bay Park	2	Install Cleanout
141	18171	E13S	263	E13S	252	12/17/1954	287	8	VC	1.57	8.41	1.56	2	Rehab	1248F4	UTE, DR	Bay Park	2	
142	18172	E13S	252	E13S	251	12/17/1954	255	8	VC	1.57	9.66	1.70	5	Rehab	1248F4	UTE, DR	Bay Park	2	
143	18173	E13S	264	E13S	267	12/17/1954	170	8	VC	7.00	2.95	1.67	5	Rehab	1248F4	TOMAHAWK, LN	Bay Park	2	Install Cleanout
144	18174	E13S	258	E13S	263	12/17/1954	210	8	VC	2.85	6.14	1.71	7	Rehab	1248F4	TOMAHAWK, LN	Bay Park	2	Install Manhole
145	18175	E13S	257	E13S	256	12/17/1954	315	8	VC	3.50	5.62	1.80	12	PR/Rehab	1248F4	TOMAHAWK LN	Bay Park	2	
146	18176	E13S	260	E13S	259	12/17/1954	345	8	VC	1.74	7.40	1.51	11	Rehab	1248F4	COWLEY, WY	Bay Park	2	
147	18177	E13S	262	E13S	260	12/17/1954	170	8	VC	1.80	4.05	1.04	5	Rehab	1248F4	COWLEY, WY	Bay Park	2	Install Cleanout
148	18186	E13S	267	E13S	276	12/17/1954	292	8	VC	2.50	6.45	1.66	9	Rehab	1248F4	TOMAHAWK, LN	Bay Park	2	
149	18187	E13S	276	E13S	275	12/17/1954	302	8	VC	0.40	13.19	1.04	10	Rehab	1248F4	TOMAHAWK, LN	Bay Park	2	
150	18189	E13S	277	E13S	279	12/17/1954	285	8	VC	4.00	9.46	2.68	5	Rehab	1248F4	UTE, DR	Bay Park	2	
151	18190	E13S	279	E13S	278	12/17/1954	20	8	VC	70.11	4.82	7.27	0	Rehab	1248E4	UTE, DR	Bay Park	2	
152	18192	E13S	280	E13S	283	12/17/1954	290	8	VC	5.83	5.52	2.29	11	Rehab	1248E4	STACY, PL	Bay Park	2	
153	18194	E13S	285	E13S	284	12/17/1954	117	8	VC	0.40	17.88	1.27	3	Rehab	1248E4	STACY, AV	Bay Park	2	
154	18195	E13S	286	E13S	285	12/17/1954	195	8	VC	0.40	17.16	1.21	7	Replace	1248F4	TOMAHAWK, LN	Bay Park	2	
155	18196	E13S	274	E13S	286	12/17/1954	176	8	VC	0.40	15.14	1.14	5	Replace	1248F4	TOMAHAWK, LN	Bay Park	2	
156	18197	E13S	275	E13S	274	12/17/1954	146	8	VC	0.40	14.27	1.09	5	Rehab	1248F4	TOMAHAWK, LN	Bay Park	2	
157	18205	E14S	74	E14S	1	2/8/1954	270	8	VC	1.77	5.37	1.24	3	PR/Rehab	1248E5	CLAIREMONT DR	Bay Park	2	
158	18206	E14S	1	E14S	2	2/8/1954	297	8	VC	0.40	8.20	0.78	3	Rehab	1248E5	CLAIREMONT, DR	Bay Park	2	
159	18207	E14S	2	E14S	3	1/1/1979	20	8	VC	0.45	8.01	0.80	0	Rehab	1248E5	RAPPAHANNOCK, AV	Bay Park	2	
160	18220	E14S	5	E14S	6	2/8/1954	120	8	VC	6.44	5.83	2.49	2	Rehab	1248E5	SHAWNEE, RD	Bay Park	2	
161	18221	E14S	7	E14S	8	2/8/1954	120	8	VC	0.40	6.24	0.65	6	PR/Rehab	1248E5	MARKTR	Bay Park	2	Install Cleanout
162	18222	E14S	8	E14S	9	2/8/1954	109	8	VC	0.39	7.88	0.75	2	Rehab	1248E5	MARK, TR	Bay Park	2	
163	18223	E14S	9	E14S	14	2/8/1954	188	8	VC	0.40	8.43	0.79	2	Rehab	1248E5	MARK, TR	Bay Park	2	
164	18249	E14S	48	E14S	49	2/8/1954	250	8	VC	0.40	12.77	1.02	4	PR/Rehab	1248F5	CLAIREMONT DR	Bay Park	2	
165	18255	E14S	56	E14S	49	12/17/1954	284	8	VC	1.97	43.22	2.21	0	PR/Rehab	1248F5	DAKOTA DR	Bay Park	2	
166	18257	E14S	55	E14S	56	8/2/1954	365	8	VC	1.70	16.66	2.49	2	PR/Rehab	1248F5	ALLEY	Bay Park	2	
167	18264	E14S	58	E14S	59	8/2/1954	160	8	VC	0.40	25.05	1.54	1	PR/Rehab	1248F5	COWLEY WY	Bay Park	2	Install Cleanout
168	18265	E14S	59	E14S	60	8/2/1954	300	8	VC	1.60	17.75	2.51	1	Rehab	1248F5	COWLEY, WY	Bay Park	2	
169	18266	E14S	61	E14S	62	12/17/1954	269	8	VC	5.20	4.90	2.00	9	Rehab	1248F5	COWLEY, WY	Bay Park	2	
170	18267	E14S	62	E14S	63	12/17/1954	94	8	VC	2.70	6.39	1.71	3	Rehab	1248F5	COWLEY, WY	Bay Park	2	
171	18268	E14S	63	E14S	65	12/17/1954	258	8	VC	0.40	17.36	1.24	0	Rehab	1248F5	COWLEY, WY	Bay Park	2	
172	18269	E14S	64	E14S	63	12/17/1954	176	8	VC	2.24	9.56	2.02	6	Rehab	1248F5	COWLEY, WY	Bay Park	2	
173	18270	E13S	259	E14S	64	12/17/1954	300	8	VC	5.26	7.07	2.55	10	Rehab	1248F4	COWLEY, WY	Bay Park	2	
174	18271	E13S	256	E14S	65	12/17/1954	310	8	VC	4.80	6.88	2.40	10	Rehab	1248F4	TOMAHAWK, LN	Bay Park	2	
175	18272	E14S	65	E14S	66	12/17/1954	98	8	VC	0.40	21.89	1.42	4	Rehab	1248F5	TOMAHAWK, LN	Bay Park	2	
176	18275	E14S	60	E14S	69	12/17/1954	259	8	VC	1.60	23.14	2.93	1	Rehab	1248F5	DAKOTA, DR	Bay Park	2	
177	18276	E14S	69	E14S	70	12/17/1954	255	8	VC	3.00	19.80	3.66	1	PR/Rehab	1248F5	DAKOTA DR	Bay Park	2	
178	18277	E14S	71	E14S	70	8/14/1952	245	8	VC	0.40	26.86	1.60	3	PR/Rehab	1248F5	WACO ST	Bay Park	2	
179	18279	E14S	66	E14S	72	12/17/1954	262	8	VC	0.40	23.88	1.50	1	Rehab	1248F5	WACO, ST	Bay Park	2	
180	18280	E14S	73	E14S	72	8/14/1952	300	8	VC	5.04	6.43	2.35	5	Rehab	1248F5	WACO, ST	Bay Park	2	

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181	18282	E14S	75	E14S	48	2/8/1954	123	8	VC	0.40	12.79	1.02	3	Rehab	1248F5	CLAIREMONT, DR	Bay Park	2	Install Cleanout
182	18355	E14S	152	E14S	153	2/8/1954	65	8	VC	6.19	2.53		2	Rehab	1248F6	JUMANO, AV	Bay Park	2	Install Cleanout
183	18356	E14S	153	E14S	154	2/8/1954	111	8	VC	0.90	7.83		3	Rehab	1248F6	JUMANO, AV	Bay Park	2	
184	18449	E14S	252	E14S	251	2/8/1954	315	8	VC	2.10	9.57		7	Rehab	1248F6	HURON, AV	Bay Park	2	
185	18450	E14S	254	E14S	252	2/8/1954	110	8	VC	2.35	7.79		3	Rehab	1248F6	HURON, AV	Bay Park	2	
186	18451	E14S	253	E14S	254	2/8/1954	150	8	VC	0.99	6.31		3	Rehab	1248F6	LACKAWANNA, WY	Bay Park	2	Install Cleanout
187	18452	E14S	255	E14S	254	2/8/1954	155	8	VC	3.71	5.14		4	Rehab	1248F6	HURON, AV	Bay Park	2	
188	18453	E14S	256	E14S	255	2/8/1954	163	8	VC	3.68	3.92		5	Rehab	1248F6	HURON, AV	Bay Park	2	Install Cleanout
189	18461	E14S	263	E14S	262	2/8/1954	214	8	VC	0.53	29.18		6	Rehab	1248F6	IROQUOIS, WY	Bay Park	2	
190	18462	E14S	264	E14S	263	2/8/1954	37	8	VC	1.03	9.47		3	Rehab	1248F6	IROQUOIS, AV	Bay Park	2	Install Cleanout
191	18463	E14S	265	E14S	263	2/8/1954	226	8	VC	3.69	16.62		6	Rehab	1248F6	IROQUOIS, AV	Bay Park	2	
192	18464	E14S	266	E14S	265	2/8/1954	300	8	VC	3.71	16.24		8	PR/Rehab	1248F6	IROQUOIS AV	Bay Park	2	
193	18465	E14S	267	E14S	266	2/8/1954	224	8	VC	3.72	15.52		6	Rehab	1248F6	IROQUOIS, AV	Bay Park	2	
194	18466	E14S	268	E14S	267	2/8/1954	300	8	VC	2.31	16.48		10	Rehab	1248F6	,	Bay Park	2	
195	18467	E14S	269	E14S	268	2/8/1954	303	8	VC	0.40	18.94		9	Rehab	1248F6	IROQUOIS, AV	Bay Park	2	
196	18468	E14S	151	E14S	269	2/8/1954	160	8	VC	2.50	5.64		4	Rehab	1248F6	IROQUOIS, AV	Bay Park	2	Install Cleanout
197	18469	E14S	270	E14S	269	2/8/1954	163	8	VC	0.40	13.65		2	PR/Rehab	1248F6	NATCHEZ AV	Bay Park	2	
198	18470	E14S	271	E14S	270	2/8/1954	260	8	VC	0.40	12.21		10	Rehab	1248F6	NATCHEZ, AV	Bay Park	2	
199	18574	E15S	96	E15S	82	1/1/1958	110	8	VC	0.60	15.44	1.41	3	Rehab	1248E7	GESNER, ST	Bay Park	2	
200	18577	E15S	98	E15S	99	1/1/1972	260	8	VC	15.00	3.04	2.49	6	Rehab	1248E6	ERIE, ST	Bay Park	2	
201	18578	E15S	95	E15S	96	1/1/1958	175	8	VC	0.60	7.46	0.89	1	Rehab	1248E7	GESNER, ST	Bay Park	2	
202	18579	E15S	99	E15S	95	1/1/1972	90	8	VC	6.00	4.03	1.89	1	Rehab	1248E7	ERIE, ST	Bay Park	2	
203	18580	E15S	94	E15S	93	1/1/1972	88	8	VC	8.98	4.06	2.33	9	Rehab	1248E7	ERIE, ST	Bay Park	2	Install Cleanout
204	18581	E15S	93	E15S	92	1/1/1972	228	8	VC	1.01	10.52	1.44	14	PR/Rehab	1248E7	ERIE ST	Bay Park	2	
205	18583	E15S	92	E15S	102	1/1/1972	328	8	VC	5.58	7.43	2.71	0	Rehab	1248E7	ERIE ST	Bay Park	2	
206	18584	E15S	102	E15S	103	1/1/1958	178	8	VC	4.28	17.69	4.09	2	Rehab	1248E7	,	Bay Park	2	
207	18585	E15S	103	E15S	237	1/1/1958	200	8	VC	12.03	14.16	5.99	2	PR/Rehab	1248E7	DENVER ST	Bay Park	2	
208	18586	E15S	101	E15S	102	1/1/1958	152	8	VC	4.51	16.73	4.06	2	Rehab	1248E7	DENVER ST	Bay Park	2	
209	18587	E15S	118	E15S	100	1/1/1958	238	8	VC	14.21	12.52	5.91	9	Rehab	1248E6	DENVER ST	Bay Park	2	
210	18588	E15S	107	E15S	106	1/1/1958	300	8	VC	10.03	8.56	3.98	9	Rehab	1248E6	CHICAGO ST	Bay Park	2	
211	18589	E15S	108	E15S	107	1/1/1958	300	8	VC	7.69	7.97	3.33	9	Rehab	1248E6	CHICAGO ST	Bay Park	2	
212	18590	E15S	109	E15S	108	1/1/1958	260	8	VC	7.34	6.58	2.87	7	PR/Rehab	1248E6	CHICAGO ST	Bay Park	2	
213	18591	E15S	111	E15S	109	1/1/1958	155	8	VC	12.58	4.46	2.92	2	Rehab	1248E6	CHICAGO ST	Bay Park	2	
214	18592	E15S	110	E15S	111	1/1/1967	145	8	VC	0.59	6.11	0.78	8	Rehab	1248E6	DILLON WY	Bay Park	2	Install Cleanout
215	18593	E15S	113	E15S	111	1/1/1958	145	8	VC	12.58	3.05	2.28	3	Rehab	1248E6	CHICAGO ST	Bay Park	2	Install Cleanout
216	18599	E15S	122	E15S	121	1/1/1958	140	8	VC	2.00	6.92	1.55	4	Rehab	1248E6	ERIE ST	Bay Park	2	
217	18602	E15S	123	E15S	122	1/1/1958	290	8	VC	5.24	4.48	1.90	7	Rehab	1248E6	ERIE ST	Bay Park	2	
218	18603	E15S	132	E15S	129	1/1/1971	219	8	VC	0.50	1.86	0.33	4	Rehab	1248E6	EDISON ST	Bay Park	2	
219	18604	E15S	129	E15S	125	1/1/1971	294	8	VC	2.89	1.24	0.60	6	Rehab	1248E6	ERIE ST	Bay Park	2	
220	18605	E15S	125	E14S	237	1/1/1971	315	8	VC	5.65	1.06	0.76	8	Rehab	1248E6	ERIE ST	Bay Park	2	
221	18818	E15S	124	E15S	123	1/1/1958	120	8	VC	1.00	3.16	0.66	0	Rehab	1248E6	EDISON ST	Bay Park	2	Install Cleanout
222	18823	E15S	100	E15S	101	1/1/1958	330	8	VC	6.10	15.46	4.50	4	Rehab	1248E7	DENVER ST	Bay Park	2	

45542

Rehab Manhole	Rehab Manhole (Total= 37)

S Mains Rehab 8"	44797	PR/Rehab	31

No.	FSN	US FBP	Map ID	DS FBP	Map ID	Inst Dt	Length	Size	Matl	Slope (%)	Max D/d	Max Vel. (fps)	Poss. Lat'ls	Action	Thos Bros	Street Name	Community	CD	Comments
		Repair Manhole		Repair Manhole (Total= 6)						S Mains Rehab 10"		404		Replace	2				
		Replace Manhole		Replace Manhole (Total= 7)						S Mains Replace		371							
		Install Cleanouts		Install Clean out (Total = 37)						Total ft/mi		45542	/ 8.6						
		Install Manholes		New Manholes (Total = 2)															

APPENDIX N

MANHOLES AND CLEANOUTS SUMMARY TABLE

REHAB DATA COLLECTION - SEWER MAINS

FSN	REHAB DATE	LENGTH	INSIDE DIAM	FUNCTIONAL DIAM	LINING TYPE DESC	LINING METHOD DESC	REHAB CONTRACTOR DESC	REHAB MATERIAL VENDOR	COMMENTS	ACCEPTANCE DATE
65112	8/22/2006	312	8	7	PVC	SPIRAL WOUND	WESCO INFRA. TECHNOLOGIES,LP	RIBLOC	EXAMPLE - Leave this row in the table as it is.	8/22/2006

REHAB DATA COLLECTION - LATERALS

FSN	REHAB DATE	TOPHAT INSTALLED	SIZE	FUNCTIONAL DIAM	LINING TYPE DESC	LINING METHOD DESC	REHAB CONTRACTOR DESC	REHAB MATERIAL VENDOR	COMMENTS	ACCEPTANCE DATE
5033085	8/22/2006	Y	6	5	PVC	SPIRAL WOUND	WESCO INFRA. TECHNOLOGIES,LP	RIBLOC	EXAMPLE - Leave this row in the table as it is.	8/22/2006

No.	FLD BK PG	MAP ID	FSN MH	Type	US Main FSN	DS Main FSN	Depth in Ft.	Invert Elev.	Lats.	Action	Street Name	Thos Bros	Community	CD
1	D13S	220	82132	STANDARD	11490	14329	9.0	243.12	0	Rehab	Mt Laurence Dr	1248D4	Clairemont Mesa	2
2	D14S	110	82350	STANDARD	14549	14562	12.0	119.12	0	Rehab	Brandywine St	1248D5	Clairemont Mesa	2
3	D14S	111	82351	STANDARD	14562	14563	12.0	131.52	0	Rehab	Brandywine St	1248D5	Clairemont Mesa	2
4	D14S	115	82355	STANDARD	14565	14569	14.0	90.12	0	Rehab	Bunker Hill Rd	1248D5	Clairemont Mesa	2
5	D14S	116	82356	STANDARD	0	14568	11.0	104.12	2	Rehab	alley	1248D5	Clairemont Mesa	2
6	D14S	120	82357	STANDARD	14569	14580	12.0	106.32	0	Rehab	Bunker Hill Rd	1248D5	Clairemont Mesa	2
7	D14S	131	82367	STANDARD	14580	14381	9.0	122.52	0	Rehab	Bunker Hill Rd	1248D5	Clairemont Mesa	2
8	D14S	133	82369	STANDARD	0	14584	12.0	115.12	0	Rehab	alley	1248D5	Clairemont Mesa	2
9	D14S	135	82371	STANDARD	14613	14586	8.0	73.84	0	Rehab	Ticonderoga St	1248D5	Clairemont Mesa	2
10	D14S	138	82374	STANDARD	14568	0	10.0	82.12	0	Rehab	alley	1248D5	Clairemont Mesa	2
11	D14S	140	82376	STANDARD	14556	14598	10.0	47.53	0	Rehab	Morena Bl	1248D5	Clairemont Mesa	2
12	D14S	154	82389	STANDARD	14607	14679	9.0	38.13	0	Rehab	Morena Bl	1248D5	Clairemont Mesa	2
13	D13S	233	82143	STANDARD	14336	14337	7.0	214.96	0	Rehab	Vista de la Bahia	1248E4	Clairemont Mesa	2
14	D14S	156	82391	STANDARD	14611	14610	7.0	158.60		Rehab	Borreson St	1248E5	Clairemont Mesa	2
15	D14S	157	82392	STANDARD	14612	14611	7.0	163.27	0	Rehab	Borreson St	1248E5	Clairemont Mesa	2
16	D14S	196	82430	STANDARD	14645	14646	6.0	166.16	0	Rehab	easement	1248E5	Clairemont Mesa	2
17	D14S	198	82432	STANDARD	14648	14651	6.0	161.75	0	Rehab	Via Del Conquistador	1248E5	Clairemont Mesa	2
18	D14S	305	82506	STANDARD	14733	14734	7.0	224.37		Rehab	Baltimore St	1248E5	Clairemont Mesa	2
19	D14S	306	82507	STANDARD	14734	14736	6.0	218.12		Rehab	Baltimore St	1248E5	Clairemont Mesa	2
20	D14S	318	82519	STANDARD	14624	14756	8.0	154.53	0	Rehab	Baker St	1248E5	Clairemont Mesa	2
21	E14S	1	85776	STANDARD	18205	18206	11.0	280.62	0	Rehab	Clairemont Drn	1248E5	Clairemont Mesa	2
22	D14S	271	82477	STANDARD	14707	14809	17.0	76.30	0	Rehab	McGraw St	1248E6	Clairemont Mesa	2
23	D14S	312	82513	STANDARD	14744	14743	7.0	170.60	0	Rehab	Lloyd St	1248E6	Clairemont Mesa	2
24	D14S	323	82524	STANDARD	14746	14711	14.0	138.66	0	Rehab	Lloyd Tr	1248E6	Clairemont Mesa	2
25	D15S	38	82587	STANDARD	14816	14821	12.0	37.86	0	Rehab	McGraw St	1248E6	Clairemont Mesa	2
26	E15S	111	86162	STANDARD	18593	18591	11.0	161.38	0	Rehab	Chicago St	1248E6	Clairemont Mesa	2
27	D15S	45	82593	STANDARD	14822	14826	6.0	28.83	0	Rehab	Gesner St	1248E7	Clairemont Mesa	2
28	E15S	82	86136	STANDARD	0	18574	9.0	94.09	0	Rehab	Gesner St	1248E7	Clairemont Mesa	2
29	E13S	251	85731	STANDARD	0	18172	6.0	321.23	0	Rehab	Ute Dr	1248F4	Clairemont Mesa	2
30	E13S	252	85732	STANDARD	18172	18171	6.0	325.23	0	Rehab	Ute Dr	1248F4	Clairemont Mesa	2
31	E13S	275	85752	STANDARD	18187	18197	11.0	295.95	0	Rehab	Ticonderoga St	1248F4	Clairemont Mesa	2

No.	FLD BK PG	MAP ID	FSN MH	Type	US Main FSN	DS Main FSN	Depth in Ft.	Invert Elev.	Lats.	Action	Street Name	Thos Bros	Community	CD
32	E14S	55	85829	STANDARD	0	18257	7.0	299.92	0	Rehab	alley	1248F5	Clairemont Mesa	2
33	E14S	59	85833	STANDARD	18264	18265	9.0	324.70		Rehab	Cowley Wy	1248F5	Clairemont Mesa	2
34	E14S	153	85923	STANDARD	18356	18355	6.0	287.05	1	Rehab	Jumano Av	1248F6	Clairemont Mesa	2
35	E14S	154	85924	STANDARD	0	18356	6.0	286.04	0	Rehab	Jumano Av	1248F6	Clairemont Mesa	2
36	E14S	252	86018	STANDARD	18450	18449	7.0	266.74	1	Rehab	Huron Av	1248F6	Clairemont Mesa	2
37	E14S	268	86034	STANDARD	18468	18466	10.0	279.91	0	Rehab	Iroquois Av	1248F6	Clairemont Mesa	2

No.	FLD BK PG	MAP ID	FSN MH	Type	US Main FSN	DS Main FSN	Depth in Ft.	Invert Elev.	Lats.	Action	Street Name	Thos Bros	Community	CD
1	D14S	194	82428	STANDARD	14643	14802	6.0	227.50	2	Repair	Vista de la Bahia	1248E5	Clairemont Mesa	2
2	E14S	14	85789	STANDARD	18223	18216	13.0	271.12	0	Repair	Shawnee Rd	1248E5	Clairemont Mesa	2
3	E14S	254	86020	STANDARD	18452	18451	7.0	269.37	0	Repair	Huron Av	1248F6	Clairemont Mesa	2
4	D14S	197	82431	STANDARD	14648	14651	5.0	162.00	0	Repair	Via Del Conquistador	1248E5	Clairemont Mesa	2
5	D14S	152	82387	STANDARD	0	14607	14.0	35.91	0	Repair	Morena Bl	1248D5	Clairemont Mesa	2
6	E14S	8	85783	STANDARD	18221	18222	6.0	272.30	0	Repair	Mark Tr	1248E5	Clairemont Mesa	2

No.	FLD BK PG	MAP ID	FSN MH	Type	US Main FSN	DS Main FSN	Depth in Ft.	Invert Elevation	Lats.	Action	Street Name	Thos Bros	Community	CD
1	D13S	229	82139	STANDARD	14334	14641	7.0	245.61	0	Replace	Vista de la Bahia	1248-E5	Clairemont Mesa	2
2	E14S	265	86031	STANDARD	18463	18464	6.0	253.61	0	Replace	Iroquois Av	1248F6	Clairemont Mesa	2
3	E13S	285	85760	STANDARD	18195	18194	17.0	293.89	1	Replace	Tommahawk Ln	1248E4	Clairemont Mesa	2
4	D14S	139	82375	STANDARD	14557	14591	12.0	64.12		Replace	alley	1248D5	Clairemont Mesa	2
5	D14S	199	82433	STANDARD	14651	5687382	7.0	159.00	0	Replace	Sioux Av	1248E5	Clairemont Mesa	2
6	D14S	281	82487	STANDARD	14708	14886	6.0	128.58	0	Replace	Lloyd St	1248E6	Clairemont Mesa	2
7	E14S	64	85838	STANDARD	18270	18269	7.0	303.53	0	Replace	Cowley Wy	1248F5	Clairemont Mesa	2

MH Rehab = 37 MH Repair= 6 MH Peplace = 7

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	FSN	FAC TYPE	FLD BK PAGE	MAP ID	DS MH	DEPTH IN FT	INVERT ELE	Main FSN	DWG SHEE	ACTION	ST NAME	THOS BROS	COMMUNITY	CD	
2	82133	PLUG	D13S	221	D14S217	5.0	250.40	14667	0	Install Cleanout	Brandywine St	1248D4	Clairemont	2	
3	82134	PLUG	D13S	222	D13S-223	13.0	242.93	14331	0	Install Cleanout	Mt Laurence Dr	1248D4	Clairemont	2	
4	82136	PLUG	D13S	224	D13S-223	13.0	242.83	14332	0	Install Cleanout	Mt Laurence Dr	1248E4	Clairemont	2	
5	82138	PLUG	D13S	226	D13S-226	7.0	248.27	14334	4	Install Cleanout	Vista De La Bahia	1248E5	Clairemont	2	
6	82148	PLUG	D13S	238	D13S-237	14.0	212.05	14342	0	Install Cleanout	Don Lorenzo Dr	1248D4	Clairemont	2	
7	82352	PLUG	D14S	112	D14S-113	12.0	133.12	14564	0	Install Cleanout	Ethan Allen Av	1248D5	Clairemont	2	
8	82360	PLUG	D14S	124	D14S-122	10.0	158.12	14572	0	Install Cleanout	Alley	1248D5	Clairemont	2	
9	82364	PLUG	D14S	128	D14S-127	12.0	178.12	14875	0	Install Cleanout	Brandywine St	1248D5	Clairemont	2	
10	82368	PLUG	D14S	132	D14S-133	0.0	0.00	14582	0	Install Cleanout	Princeton Av	1248D5	Clairemont	2	
11	82405	PLUG	D14S	170	D14S-172	7.0	236.89	14632	0	Install Cleanout	Chicago St	1248E5	Clairemont	2	
12	82410	PLUG	D14S	176	D14S-176	7.0	234.68	14732	0	Install Cleanout	Baltimore St	1248E5	Clairemont	2	
13	82411	PLUG	D14S	177	D14S-179	4.0	241.60	14628	0	Install Cleanout	Baltimore St	1248E5	Clairemont	2	
14	82420	PLUG	D14S	186	D14S-187	6.0	174.57	14636	8	Install Cleanout	Via Beltran	1248E5	Clairemont	2	
15	82422	PLUG	D14S	188	D14S-189	7.0	186.67	14638	7	Install Cleanout	Via De La Orilla	1248E5	Clairemont	2	
16	82437	PLUG	D14S	203	D14S-204	0.0	207.90	14657	0	Install Cleanout	Trenton Av	1248D5	Clairemont	2	
17	82451	PLUG	D14S	221	D14S-217	14.0	201.69	14667	0	Install Cleanout	Brandywine St	1248D5	Clairemont	2	
18	82481	PLUG	D14S	275	D14S-324	9.0	84.39	14705	0	Install Cleanout	McGraw St	1248D6	Clairemont	2	
19	82482	PLUG	D14S	276	D14S-272	17.0	79.12	14706	0	Install Cleanout	McGraw St	1248E6	Clairemont	2	
20	82500	PLUG	D14S	299	D14S-300	6.0	226.45	14727	0	Install Cleanout	Crete St	1248E6	Clairemont	2	
21	82511	PLUG	D14S	310	D14S-312	6.0	177.74	14744	3	Install Cleanout	Lloyd St	1248E6	Clairemont	2	
22	82512	PLUG	D14S	311	D14S-311	8.0	178.25	14745	3	Install Cleanout	Lloyd St	1248E6	Clairemont	2	
23	82523	PLUG	D14S	322	D14S-323	6.0	139.39	14746	3	Install Cleanout	Lloyd Tr	1248E6	Clairemont	2	
24	82589	PLUG	D15S	40	D15S-39	5.0	94.50	14818	4	Install Cleanout	Cobridge Wy	1248E6	Clairemont	2	
25	85726	PLUG	E13S	246	E14S-5	6.0	287.55	18164	0	Install Cleanout	Shawnee Rd	1248E5	Clairemont	2	
26	85741	PLUG	E13S	262	E13S-260	6.0	328.40	18177	0	Install Cleanout	Cowley Wy	1248F4	Clairemont	2	
27	85743	PLUG	E13S	264	E13S-267	8.0	316.37	18173	0	Install Cleanout	Tomahawk Ln	1248F4	Clairemont	2	
28	85782	PLUG	E14S	7	E14S-8	5.0	272.78	18221	0	Install Cleanout	Mark Tr	1248E5	Clairemont	2	
29	85832	PLUG	E14S	58	E14S-59	10.0	325.34	18264	0	Install Cleanout	Cowley Wy	1248F5	Clairemont	2	
30	85849	PLUG	E14S	75	E14S-59	6.0	289.61	18282	1	Install Cleanout	Clairemont Dr	1248F5	Clairemont	2	
31	85921	PLUG	E14S	151	E14S-269	6.0	295.12	18468	0	Install Cleanout	Iroquois Av	1248F6	Clairemont	2	
32	85922	PLUG	E14S	152	E14S-153	7.0	291.14	18355	0	Install Cleanout	Jumano Av	1248F6	Clairemont	2n	
33	86019	PLUG	E14S	253	E14S-254	7.0	270.87	18451	0	Install Cleanout	Lackawana Wy	1248F6	Clairemont	2	
34	86022	PLUG	E14S	256	E14S-255	6.0	281.12	18453	0	Install Cleanout	Huron Av	1248F6	Clairemont	2	
35	86030	PLUG	E14S	264	E14S-263	5.0	245.63	18462	2	Install Cleanout	Iroquois Av	1248F6	Clairemont	2	
36	86146	PLUG	E15S	94	E15S-93	7.0	87.70	18580	2	Install Cleanout	Erie St	1248E7	Clairemont	2	
37	86163	PLUG	E15S	113	E15S-111	14.0	179.50	18593	1	Install Cleanout	Chicago St	1248E6	Clairemont	2	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
38	86161	PLUG	E15S	110	E15S-111	14.0	162.23	18592	0	Install Cleanout	Dillon Wy	1248E6	Clairemont	2	
39	86172	PLUG	E15S	124	E15S-129	6.0	169.20	18818	6	Install Cleanout	Edison St	1248E6	Clairemont	2	
40	82349	PLUG	D14S	109	D14S-108	12.0	119.12	14561	0	New Manhole	Alley	1248D5	Clairemont	2	
41	85738	PLUG	E13S	258	E14S-263	6.0	335.72	18174	0	New Manhole	Tomahawk Ln	1248F4	Clairemont	2	
42															
43									38	Cleanouts					
44									2	New Manhjoles					

APPENDIX O

SEWER LATERAL SUMMARY TABLE

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
1	194804	4	UNK	MANHOLE	58	D14S	1248D5	14587	3350	BAKER ST	
2	195836	4	UNK	MANHOLE	68	D14S	1248D5	14608	3350	BAKER ST	
3	318318	4	UNK	MANHOLE	92	D14S	1248D5	14609	3436	BAKER ST	
4	318440	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14609	3441	BAKER ST	
5	318323	4	UNK	MANHOLE	142	D14S	1248D5	14609	3442	BAKER ST	
6	318328	4	UNK	MANHOLE	81	D14S	1248D5	14609	3442	BAKER ST	
7	195857	4	UNK	LOT LINE	28	D14S	1248D5	14609	3450	BAKER ST	
8	195860	4	UNK	unset	0	D14S	1248D5	14755	3456	BAKER ST	
9	196056	4	UNK	LFT OF RGT LL	57	D14S	1248D5	14754	3505	BAKER ST	
10	195859	4	UNK	MANHOLE	79	D14S	1248D5	14755	3506	BAKER ST	
11	318338	4	UNK	MANHOLE	5	D14S	1248D5	14755	3514	BAKER ST	
12	195973	4	UNK	LFT OF RGT LL	32	D14S	1248D5	14755	3515	BAKER ST	
13	195981	4	UNK	LFT OF RGT LL	30	D14S	1248D5	14756	3525	BAKER ST	
14	195856	4	UNK	LFT OF RGT LL	50	D14S	1248D5	14756	3526	BAKER ST	
15	318439	4	UNK	LFT OF RGT LL	35	D14S	1248E5	14756	3541	BAKER ST	
16	318435	4	UNK	LFT OF RGT LL	18	D14S	1248E5	14756	3603	BAKER ST	
17	318427	4	UNK	MANHOLE	82	D14S	1248E5	14624	3611	BAKER ST	
18	195684	4	UNK	RGT OF LFT LL	38	D14S	1248E5	14610	3612	BAKER ST	
19	195955	4	UNK	LFT OF RGT LL	11	D14S	1248E5	14624	3621	BAKER ST	
20	195784	4	UNK	LFT OF RGT LL	50	D14S	1248E5	14624	3622	BAKER ST	
21	318377	4	UNK	MANHOLE	48	D14S	1248E5	14624	3633	BAKER ST	
22	195732	4	UNK	MANHOLE	123	D14S	1248E5	14625	3636	BAKER ST	
23	318325	4	UNK	RGT OF LFT LL	40	D14S	1248E5	14625	3643	BAKER ST	
24	195638	4	UNK	MANHOLE	42	D14S	1248E5	14625	3702	BAKER ST	
25	195788	4	UNK	MANHOLE	68	D14S	1248E5	14625	3703	BAKER ST	
26	195730	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14625	3711	BAKER ST	
27	318115	4	UNK	MANHOLE	15	D14S	1248E5	14626	3712	BAKER ST	
28	318179	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14626	3721	BAKER ST	
29	318073	4	UNK	MANHOLE	64	D14S	1248E5	14626	3722	BAKER ST	
30	318135	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14626	3731	BAKER ST	
31	318018	4	UNK	MANHOLE	128	D14S	1248E5	14626	3732	BAKER ST	
32	318084	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14626	3741	BAKER ST	
33	195398	4	UNK	MANHOLE	186	D14S	1248E5	14626	3742	BAKER ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
34	318023	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14626	3751	BAKER ST	
35	195340	4	UNK	RGT OF LFT LL	16	D14S	1248E5	14626	3752	BAKER ST	
36	317973	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14627	3761	BAKER ST	
37	195266	4	UNK	RGT OF LFT LL	20	D14S	1248E5	14627	3762	BAKER ST	
38	317921	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14627	3771	BAKER ST	
39	195205	4	UNK	RGT OF LFT LL	20	D14S	1248E5	14627	3772	BAKER ST	
40	319474	4	UNK	MANHOLE	9	D14S	1248E6	14726	3302	BALTIMORE ST	
41	197232	4	UNK	LFT OF RGT LL	22	D14S	1248E6	14725	3304	BALTIMORE ST	
42	197156	4	UNK	LFT OF RGT LL	36	D14S	1248E6	14725	3312	BALTIMORE ST	
43	319083	4	UNK	LFT OF RGT LL	16	D14S	1248E6	14737	3324	BALTIMORE ST	
44	196708	4	UNK	RGT OF LFT LL	33	D14S	1248E5	14734	3330	BALTIMORE ST	
45	318866	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14734	3335	BALTIMORE ST	
46	318841	4	UNK	RGT OF LFT LL	35	D14S	1248E5	14734	3336	BALTIMORE ST	
47	318788	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14734	3341	BALTIMORE ST	
48	196410	4	UNK	LFT OF RGT LL	36	D14S	1248E5	14734	3342	BALTIMORE ST	
49	196298	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14734	3347	BALTIMORE ST	
50	318667	4	UNK	LFT OF RGT LL	24	D14S	1248E5	14733	3348	BALTIMORE ST	
51	196169	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14733	3353	BALTIMORE ST	
52	196137	4	UNK	LFT OF RGT LL	25	D14S	1248E5	14733	3354	BALTIMORE ST	
53	196084	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14733	3359	BALTIMORE ST	
54	196035	4	UNK	LFT OF RGT LL	24	D14S	1248E5	14733	3360	BALTIMORE ST	
55	318428	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14733	3365	BALTIMORE ST	
56	318396	4	UNK	LFT OF RGT LL	25	D14S	1248E5	14733	3366	BALTIMORE ST	
57	195841	4	UNK	RGT OF LFT LL	34	D14S	1248E5	14732	3375	BALTIMORE ST	
58	318265	4	UNK	LFT OF RGT LL	31	D14S	1248E5	14732	3378	BALTIMORE ST	
59	195805	4	UNK	RGT OF LFT LL	61	D14S	1248E5	14732	3383	BALTIMORE ST	
60	195741	4	UNK	LFT OF RGT LL	49	D14S	1248E5	14732	3384	BALTIMORE ST	
61	195546	4	UNK	LFT OF RGT LL	7	D14S	1248E5	14628	3390	BALTIMORE ST	
62	195377	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14630	3394	BALTIMORE ST	
63	195655	4	UNK	LFT OF RGT LL	25	D14S	1248E5	14610	3410	BORRESON ST	
64	195545	4	UNK	RGT OF LFT LL	28	D14S	1248E5	14610	3415	BORRESON ST	
65	318113	4	UNK	LFT OF RGT LL	30	D14S	1248E5	14610	3416	BORRESON ST	
66	318048	4	UNK	LFT OF RGT LL	40	D14S	1248E5	14610	3422	BORRESON ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
67	195453	4	UNK	RGT OF LFT LL	33	D14S	1248E5	14611	3423	BORRESON ST	
68	317946	4	UNK	LFT OF RGT LL	30	D14S	1248E5	14611	3428	BORRESON ST	
69	195327	4	UNK	RGT OF LFT LL	28	D14S	1248E5	14611	3429	BORRESON ST	
70	195236	4	UNK	LFT OF RGT LL	45	D14S	1248E5	14611	3432	BORRESON ST	
71	317839	4	UNK	MANHOLE	94	D14S	1248E5	14611	3436	BORRESON ST	
72	195217	4	UNK	RGT OF LFT LL	22	D14S	1248E5	14611	3437	BORRESON ST	
73	317770	4	UNK	LFT OF RGT LL	45	D14S	1248E5	14611	3444	BORRESON ST	
74	195122	4	UNK	RGT OF LFT LL	40	D14S	1248E5	14611	3445	BORRESON ST	
75	195010	4	UNK	RGT OF LFT LL	40	D14S	1248E5	14612	3451	BORRESON ST	
76	194970	4	UNK	LFT OF RGT LL	25	D14S	1248E5	14612	3452	BORRESON ST	
77	194911	4	UNK	RGT OF LFT LL	35	D14S	1248E5	14612	3459	BORRESON ST	
78	317577	4	UNK	LFT OF RGT LL	25	D14S	1248E5	14612	3460	BORRESON ST	
79	194832	4	UNK	unset	0	D14S	1248E5	14612	3467	BORRESON ST	
80	194808	4	UNK	RGT OF LFT LL	20	D14S	1248E5	14612	3468	BORRESON ST	
81	191806	4	UNK	MANHOLE	199	D14S	1248D5	14561	3215	BRANDYWINE ST	ALLEY
82	315362	4	UNK	RGT OF LFT LL	27	D14S	1248D5	14561	3221	BRANDYWINE ST	ALLEY
83	191602	4	UNK	MANHOLE	30	D14S	1248D5	14562	3230	BRANDYWINE ST	
84	315361	4	UNK	unset	0	D14S	1248D5	14562	3231	BRANDYWINE ST	
85	315247	4	UNK	RGT OF LFT LL	25	D13S	1248D5	14562	3240	BRANDYWINE ST	
86	191607	4	UNK	MANHOLE	68	D13S	1248D5	14562	3240	BRANDYWINE ST	
87	315250	4	UNK	MANHOLE	42	D14S	1248D5	14562	3250	BRANDYWINE ST	
88	315148	4	UNK	RGT OF LFT LL	26	D13S	1248D5	14573	3360	BRANDYWINE ST	
89	378544	4	UNK	MANHOLE	94	D14S	1248D5	14575	3415	BRANDYWINE ST	
90	193298	4	UNK	MANHOLE	85	D14S	1248D5	14558	3267	BUNKER HILL ST	ALLEY
91	193043	4	UNK	unset	0	D14S	1248D5	14559	3268	BUNKER HILL ST	ALLEY
92	316272	4	UNK	RGT OF LFT LL	20	D14S	1248D5	14581	3428	BUNKER HILL ST	
93	316391	4	UNK	MANHOLE	78	D14S	1248D5	14663	3585	BUNKER HILL ST	ALLEY
94	323482	4	UNK	LFT OF RGT LL	35	E15S	1248E7	18588	2805	CHICAGO ST	
95	323464	4	UNK	RGT OF LFT LL	4	D15S	1248E6	18588	2806	CHICAGO ST	
96	202874	4	UNK	LFT OF RGT LL	19	E15S	1248E6	18588	2813	CHICAGO ST	
97	375132	4	UNK	LFT OF RGT LL	11	E15S	1248E6	18588	2821	CHICAGO ST	
98	202675	4	UNK	RGT OF LFT LL	32	D15S	1248E6	18588	2822	CHICAGO ST	
99	323287	4	UNK	LFT OF RGT LL	19	E15S	1248E6	18588	2829	CHICAGO ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
100	202578	4	UNK	LFT OF RGT LL	11	D15S	1248E6	18588	2830	CHICAGO ST	
101	202545	4	UNK	LFT OF RGT LL	38	E15S	1248E6	18588	2837	CHICAGO ST	
102	202540	4	UNK	LFT OF RGT LL	23	D15S	1248E6	18588	2838	CHICAGO ST	
103	323135	4	UNK	LFT OF RGT LL	18	E15S	1248E6	18589	2845	CHICAGO ST	
104	202393	4	UNK	RGT OF LFT LL	16	D15S	1248E6	18589	2846	CHICAGO ST	
105	323028	4	UNK	LFT OF RGT LL	38	E15S	1248E6	18589	2853	CHICAGO ST	
106	323042	4	UNK	RGT OF LFT LL	18	D15S	1248E6	18589	2854	CHICAGO ST	
107	202042	4	UNK	RGT OF LFT LL	6	E15S	1248E6	18589	2888	CHICAGO ST	
108	322920	4	UNK	LFT OF RGT LL	20	E15S	1248E6	18589	2905	CHICAGO ST	
109	202008	4	UNK	MANHOLE	110	E15S	1248E6	18589	2911	CHICAGO ST	
110	201929	4	UNK	LFT OF RGT LL	23	E15S	1248E6	18589	2915	CHICAGO ST	
111	201863	4	UNK	RGT OF LFT LL	6	E15S	1248E6	18589	2916	CHICAGO ST	
112	201692	4	UNK	RGT OF LFT LL	20	D15S	1248E6	14818	2922	CHICAGO ST	
113	322613	4	UNK	LFT OF RGT LL	31	E15S	1248E6	18590	2932	CHICAGO ST	
114	201683	4	UNK	RGT OF LFT LL	24	E15S	1248E6	18590	2933	CHICAGO ST	
115	201622	4	UNK	unset	0	D15S	1248E6	14818	2940	CHICAGO ST	
116	201623	4	UNK	unset	0	D15S	1248E6	14818	2944	CHICAGO ST	
117	201406	4	UNK	LFT OF RGT LL	12	E15S	1248E6	18590	2950	CHICAGO ST	
118	201315	4	UNK	LFT OF RGT LL	9	E15S	1248E6	18590	2954	CHICAGO ST	
119	201541	4	UNK	RGT OF LFT LL	27	E15S	1248E6	18590	2955	CHICAGO ST	
120	201242	4	UNK	RGT OF LFT LL	18	E15S	1248E6	18590	2960	CHICAGO ST	
121	322367	4	UNK	MANHOLE	63	E15S	1248E6	18590	2995	CHICAGO ST	
122	322179	4	UNK	RGT OF LFT LL	45	E15S	1248E6	18591	3003	CHICAGO ST	
123	5056165	4	UNK	MANHOLE	55	E15S	1248E6	18591	3011	CHICAGO ST	
124	321922	4	UNK	RGT OF LFT LL	4	E15S	1248E6	18592	3020	CHICAGO ST	
125	200721	4	UNK	MANHOLE	64	E15S	1248E6	18592	3020	CHICAGO ST	
126	321884	4	UNK	LFT OF RGT LL	13	E15S	1248E6	18593	3025	CHICAGO ST	
127	321785	4	UNK	RGT OF LFT LL	17	E15S	1248E6	18593	3035	CHICAGO ST	
128	200492	4	UNK	RGT OF LFT LL	15	E15S	1248E6	18593	3039	CHICAGO ST	
129	195604	4	UNK	MANHOLE	80	D14S	1248E5	14628	3396	CHICAGO ST	
130	195295	4	UNK	unset	0	D14S	1248E5	14630	3405	CHICAGO ST	
131	317881	4	UNK	LFT OF RGT LL	20	D14S	1248E5	14627	3426	CHICAGO ST	
132	5585033	6	PVC	unset	0	E15S	1248E7	18584	2576	CLAIREMONT DR	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
133	324204	4	UNK	MANHOLE	35	E15S	1248E7	18586	2576	CLAIREMONT DR	
134	204336	4	UNK	unset	0	E15S	1248E7	18585	2585	CLAIREMONT DR	
135	324215	4	UNK	LFT OF RGT LL	26	E15S	1248E7	18586	2606	CLAIREMONT DR	
136	324513	4	UNK	MANHOLE	21	E15S	1248E7	18584	2615	CLAIREMONT DR	
137	316915	6	UNK	MANHOLE	5	E14S	1248F5	18282	3401	CLAIREMONT DR	
138	194449	4	UNK	LFT OF RGT LL	24	E14S	1248F5	18249	3410	CLAIREMONT DR	
139	194220	4	UNK	unset	0	E14S	1248F5	18249	3410	CLAIREMONT DR	
140	317021	4	UNK	unset	0	E14S	1248F5	18249	3410	CLAIREMONT DR	
141	194358	4	UNK	RGT OF LFT LL	12	E14S	1248F5	18249	3410	CLAIREMONT DR	
142	316874	6	UNK	MANHOLE	111	E14S	1248F5	18282	3410	CLAIREMONT DR	
143	316833	4	UNK	MANHOLE	121	E14S	1248E5	18282	3450	CLAIREMONT DR	
144	316304	6	UNK	MANHOLE	9	E14S	1248E5	18205	3502	CLAIREMONT DR	
145	192951	4	UNK	MANHOLE	100	E14S	1248E5	18205	3502	CLAIREMONT DR	
146	193167	4	UNK	unset	0	E14S	1248E5	18205	3502	CLAIREMONT DR	
147	192612	4	UNK	MANHOLE	54	E14S	1248E5	18206	3536	CLAIREMONT DR	
148	192490	4	UNK	MANHOLE	112	E14S	1248E5	18206	3546	CLAIREMONT DR	
149	315710	4	UNK	MANHOLE	111	E14S	1248E5	18206	3556	CLAIREMONT DR	
150	201872	4	UNK	LFT OF RGT LL	35	D15S	1248E6	14819	4105	COBRIDGE WY	
151	201624	4	UNK	unset	0	D15S	1248E6	14818	4116	COBRIDGE WY	
152	322739	4	UNK	unset	0	D15S	1248E6	14818	4121	COBRIDGE WY	
153	316427	6	UNK	LOT LINE	6	E14S	1248F5	18275	3310	COWLEY WY	
154	194021	6	UNK	MANHOLE	135	E14S	1248F5	18264	3405	COWLEY WY	
155	193502	6	UNK	MANHOLE	114	E14S	1248F5	18265	3405	COWLEY WY	
156	193050	4	UNK	RGT OF LFT LL	21	E14S	1248F5	18266	3503	COWLEY WY	
157	193096	4	UNK	LFT OF RGT LL	32	E14S	1248F5	18266	3504	COWLEY WY	
158	316101	4	UNK	RGT OF LFT LL	33	E14S	1248F5	18266	3511	COWLEY WY	
159	192972	4	UNK	RGT OF LFT LL	24	E14S	1248F5	18266	3512	COWLEY WY	
160	192842	4	UNK	RGT OF LFT LL	24	E14S	1248F5	18266	3519	COWLEY WY	
161	192845	4	UNK	RGT OF LFT LL	29	E14S	1248F5	18266	3520	COWLEY WY	
162	192693	4	UNK	RGT OF LFT LL	24	E14S	1248F5	18266	3527	COWLEY WY	
163	315933	4	UNK	RGT OF LFT LL	29	E14S	1248F5	18266	3528	COWLEY WY	
164	192529	4	UNK	RGT OF LFT LL	28	E14S	1248F5	18266	3535	COWLEY WY	
165	315817	4	UNK	RGT OF LFT LL	32	E14S	1248F5	18266	3536	COWLEY WY	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
166	192403	4	UNK	LFT OF RGT LL	35	E14S	1248F5	18266	3543	COWLEY WY	
167	192320	4	UNK	RGT OF LFT LL	30	E14S	1248F5	18267	3544	COWLEY WY	
168	192182	4	UNK	RGT OF LFT LL	26	E14S	1248F5	18267	3551	COWLEY WY	
169	192207	4	UNK	LFT OF RGT LL	4	E14S	1248F5	18267	3552	COWLEY WY	
170	315517	4	UNK	LFT OF RGT LL	34	E14S	1248F5	18269	3559	COWLEY WY	
171	192022	4	UNK	RGT OF LFT LL	55	E14S	1248F5	18269	3560	COWLEY WY	
172	315463	4	UNK	LFT OF RGT LL	38	E14S	1248F5	18269	3604	COWLEY WY	
173	191888	4	UNK	RGT OF LFT LL	25	E14S	1248F5	18269	3605	COWLEY WY	
174	315359	4	UNK	RGT OF LFT LL	30	E14S	1248F5	18269	3612	COWLEY WY	
175	191755	4	UNK	RGT OF LFT LL	37	E14S	1248F5	18269	3615	COWLEY WY	
176	315260	4	UNK	RGT OF LFT LL	25	E14S	1248F5	18270	3620	COWLEY WY	
177	315234	4	UNK	RGT OF LFT LL	35	E14S	1248F5	18270	3623	COWLEY WY	
178	191470	4	UNK	RGT OF LFT LL	30	E13S	1248F4	18270	3628	COWLEY WY	
179	315131	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18270	3631	COWLEY WY	
180	191373	4	UNK	RGT OF LFT LL	35	E13S	1248F4	18270	3636	COWLEY WY	
181	315056	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18270	3639	COWLEY WY	
182	191237	4	UNK	RGT OF LFT LL	32	E13S	1248F4	18270	3644	COWLEY WY	
183	314956	4	UNK	LFT OF RGT LL	36	E13S	1248F4	18270	3647	COWLEY WY	
184	314882	4	UNK	RGT OF LFT LL	25	E13S	1248F4	18270	3652	COWLEY WY	
185	191105	4	UNK	unset	0	E13S	1248F4	18270	3655	COWLEY WY	
186	190997	4	UNK	RGT OF LFT LL	32	E13S	1248F4	18176	3660	COWLEY WY	
187	314752	4	UNK	LFT OF RGT LL	32	E13S	1248F4	18176	3663	COWLEY WY	
188	190859	4	UNK	RGT OF LFT LL	32	E13S	1248F4	18176	3668	COWLEY WY	
189	190812	4	UNK	LFT OF RGT LL	39	E13S	1248F4	18176	3671	COWLEY WY	
190	314556	4	UNK	RGT OF LFT LL	26	E13S	1248F4	18176	3703	COWLEY WY	
191	190758	4	UNK	RGT OF LFT LL	26	E13S	1248F4	18176	3704	COWLEY WY	
192	314446	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18176	3711	COWLEY WY	
193	314482	4	UNK	RGT OF LFT LL	33	E13S	1248F4	18176	3712	COWLEY WY	
194	314372	4	UNK	RGT OF LFT LL	25	E13S	1248F4	18176	3719	COWLEY WY	
195	314396	4	UNK	LFT OF RGT LL	41	E13S	1248F4	18176	3720	COWLEY WY	
196	190362	4	UNK	LFT OF RGT LL	36	E13S	1248F4	18176	3727	COWLEY WY	
197	314311	4	UNK	RGT OF LFT LL	38	E13S	1248F4	18177	3734	COWLEY WY	
198	190295	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18177	3735	COWLEY WY	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
199	190252	4	UNK	RGT OF LFT LL	40	E13S	1248F4	18177	3743	COWLEY WY	
200	190171	4	UNK	LFT OF RGT LL	24	E13S	1248F4	18177	3751	COWLEY WY	
201	190148	4	UNK	RGT OF LFT LL	26	E13S	1248F4	18177	3759	COWLEY WY	
202	197279	4	UNK	LFT OF RGT LL	24	D14S	1248E6	14726	3712	CRETE ST	
203	319485	4	UNK	MANHOLE	56	D14S	1248E6	14726	3715	CRETE ST	
204	319371	4	UNK	LFT OF RGT LL	36	D14S	1248E6	14726	3722	CRETE ST	
205	319376	4	UNK	LFT OF RGT LL	36	D14S	1248E6	14726	3732	CRETE ST	
206	197284	4	UNK	LFT OF RGT LL	36	D14S	1248E6	14726	3742	CRETE ST	
207	197288	4	UNK	LFT OF RGT LL	36	D14S	1248E6	14726	3752	CRETE ST	
208	319491	4	UNK	MANHOLE	17	D14S	1248E6	14726	3753	CRETE ST	
209	197291	4	UNK	RGT OF LFT LL	27	D14S	1248E6	14727	3762	CRETE ST	
210	197466	4	UNK	LFT OF RGT LL	30	D14S	1248E6	14727	3767	CRETE ST	
211	197295	4	UNK	RGT OF LFT LL	26	D14S	1248E6	14727	3772	CRETE ST	
212	197470	4	UNK	RGT OF LFT LL	21	D14S	1248E6	14727	3781	CRETE ST	
213	197297	4	UNK	RGT OF LFT LL	32	D14S	1248E6	14727	3782	CRETE ST	
214	197473	4	UNK	LFT OF RGT LL	16	D14S	1248E6	14727	3791	CRETE ST	
215	317073	6	UNK	MANHOLE	80	E14S	1248F5	18257	4567	DAKOTA DR	ALLEY
216	194675	6	UNK	LOT LINE	6	E14S	1248F5	18257	4567	DAKOTA DR	ALLEY
217	204455	4	UNK	LFT OF RGT LL	35	E15S	1248E7	18585	2603	DENVER ST	
218	323614	4	UNK	LFT OF RGT LL	35	E15S	1248E7	18823	2805	DENVER ST	
219	323592	4	UNK	LFT OF RGT LL	33	E15S	1248E7	18823	2810	DENVER ST	
220	323541	4	UNK	LFT OF RGT LL	15	E15S	1248E7	18587	2813	DENVER ST	
221	202979	4	UNK	RGT OF LFT LL	15	E15S	1248E7	18587	2818	DENVER ST	
222	323434	4	UNK	LFT OF RGT LL	35	E15S	1248E6	18587	2818	DENVER ST	
223	202910	4	UNK	LFT OF RGT LL	39	E15S	1248E6	18587	2821	DENVER ST	
224	202780	4	UNK	LFT OF RGT LL	10	E15S	1248E6	18587	2829	DENVER ST	
225	202734	4	UNK	RGT OF LFT LL	17	E15S	1248E6	18587	2834	DENVER ST	
226	323299	4	UNK	LFT OF RGT LL	13	E15S	1248E6	18587	2837	DENVER ST	
227	202664	4	UNK	RGT OF LFT LL	33	E15S	1248E6	18587	2842	DENVER ST	
228	323219	4	UNK	LFT OF RGT LL	16	E15S	1248E6	18587	2845	DENVER ST	
229	200859	4	UNK	LFT OF RGT LL	20	E15S	1248E6	18592	4105	DILLON WY	
230	200704	4	UNK	RGT OF LFT LL	18	E15S	1248E6	18592	4114	DILLON WY	
231	200861	4	UNK	LFT OF RGT LL	22	E15S	1248E6	18592	4115	DILLON WY	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
232	321919	4	UNK	LFT OF RGT LL	17	D15S	1248E6	18592	4124	DILLON WY	
233	200857	4	UNK	RGT OF LFT LL	7	D15S	1248E6	18592	4125	DILLON WY	
234	321916	4	UNK	RGT OF LFT LL	17	D15S	1248E6	18592	4134	DILLON WY	
235	190979	4	UNK	RGT OF LFT LL	35	D13S	1248D4	14325	3502	DON LORENZO DR	
236	314607	4	UNK	RGT OF LFT LL	26	D13S	1248D4	14324	3512	DON LORENZO DR	
237	314540	4	UNK	RGT OF LFT LL	25	D13S	1248D4	14343	3522	DON LORENZO DR	
238	314518	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14343	3532	DON LORENZO DR	
239	314509	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14343	3542	DON LORENZO DR	
240	190608	4	UNK	LFT OF RGT LL	20	D13S	1248D4	14342	3552	DON LORENZO DR	
241	190587	4	UNK	LFT OF RGT LL	10	D13S	1248D4	14342	3562	DON LORENZO DR	
242	314480	4	UNK	RGT OF LFT LL	20	D13S	1248D4	14342	3571	DON LORENZO DR	
243	197461	4	UNK	LFT OF RGT LL	21	D14S	1248E6	14726	3292	DONLEY ST	
244	322440	4	UNK	RGT OF LFT LL	56	E15S	1248E6	18603	4420	EDISON ST	
245	201643	4	UNK	MANHOLE	8	E15S	1248E6	18603	4437	EDISON ST	
246	322470	4	UNK	RGT OF LFT LL	32	E15S	1248E6	18603	4440	EDISON ST	
247	204058	4	UNK	LFT OF RGT LL	4	E15S	1248E7	18581	2706	ERIE ST	
248	280080	4	UNK	LFT OF RGT LL	9	E15S	1248E7	18581	2707	ERIE ST	
249	204039	4	UNK	MANHOLE	43	E15S	1248E7	18581	2710	ERIE ST	
250	203967	4	UNK	LFT OF RGT LL	4	E15S	1248E7	18581	2714	ERIE ST	
251	204006	4	UNK	MANHOLE	73	E15S	1248E7	18581	2715	ERIE ST	
252	203929	4	UNK	MANHOLE	97	E15S	1248E7	18581	2718	ERIE ST	
253	203944	4	UNK	MANHOLE	84	E15S	1248E7	18581	2719	ERIE ST	
254	203889	4	UNK	LFT OF RGT LL	4	E15S	1248E7	18581	2722	ERIE ST	
255	203847	4	UNK	LFT OF RGT LL	14	E15S	1248E7	18581	2726	ERIE ST	
256	203828	4	UNK	RGT OF LFT LL	6	E15S	1248E7	18581	2729	ERIE ST	
257	203766	4	UNK	LFT OF RGT LL	4	E15S	1248E7	18581	2730	ERIE ST	
258	203762	4	UNK	RGT OF LFT LL	8	E15S	1248E7	18581	2733	ERIE ST	
259	324018	4	UNK	RGT OF LFT LL	22	E15S	1248E7	18581	2734	ERIE ST	
260	203741	4	UNK	LFT OF RGT LL	13	E15S	1248E7	18581	2734	ERIE ST	
261	324056	4	UNK	RGT OF LFT LL	138	E15S	1248E7	18580	2737	ERIE ST	
262	324017	4	UNK	MANHOLE	12	E15S	1248E7	18580	2741	ERIE ST	
263	203665	4	UNK	RGT OF LFT LL	10	E15S	1248E7	18580	2742	ERIE ST	
264	203629	4	UNK	RGT OF LFT LL	8	E15S	1248E7	18580	2745	ERIE ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
265	323952	4	UNK	LFT OF RGT LL	7	E15S	1248E7	18580	2746	ERIE ST	
266	203536	4	UNK	RGT OF LFT LL	18	E15S	1248E7	18580	2746	ERIE ST	
267	323918	4	UNK	LFT OF RGT LL	5	E15S	1248E7	18580	2753	ERIE ST	
268	203499	4	UNK	MANHOLE	89	E15S	1248E7	18580	2754	ERIE ST	
269	323879	4	UNK	MANHOLE	114	E15S	1248E7	18580	2757	ERIE ST	
270	203220	4	UNK	LFT OF RGT LL	32	E15S	1248E7	18579	2810	ERIE ST	
271	203103	4	UNK	LFT OF RGT LL	32	E15S	1248E7	18577	2818	ERIE ST	
272	202982	4	UNK	LFT OF RGT LL	32	E15S	1248E7	18577	2826	ERIE ST	
273	202857	4	UNK	RGT OF LFT LL	21	E15S	1248E6	18577	2834	ERIE ST	
274	323339	4	UNK	RGT OF LFT LL	32	E15S	1248E6	18577	2842	ERIE ST	
275	323273	4	UNK	RGT OF LFT LL	21	E15S	1248E6	18577	2850	ERIE ST	
276	202549	4	UNK	LFT OF RGT LL	30	E15S	1248E6	18577	2858	ERIE ST	
277	323062	4	UNK	LFT OF RGT LL	18	E15S	1248E6	18599	2862	ERIE ST	
278	323026	4	UNK	RGT OF LFT LL	5	E15S	1248E6	18599	2910	ERIE ST	
279	322948	4	UNK	RGT OF LFT LL	10	E15S	1248E6	18599	2918	ERIE ST	
280	322868	4	UNK	RGT OF LFT LL	15	E15S	1248E6	18602	2926	ERIE ST	
281	322810	4	UNK	RGT OF LFT LL	9	E15S	1248E6	18602	2934	ERIE ST	
282	322718	4	UNK	RGT OF LFT LL	10	E15S	1248E6	18602	2942	ERIE ST	
283	201798	4	UNK	RGT OF LFT LL	49	E15S	1248E6	18602	2949	ERIE ST	
284	201721	4	UNK	RGT OF LFT LL	2	E15S	1248E6	18602	2950	ERIE ST	
285	201580	4	UNK	RGT OF LFT LL	6	E15S	1248E6	18602	2957	ERIE ST	
286	322555	4	UNK	RGT OF LFT LL	6	E15S	1248E6	18602	2958	ERIE ST	
287	322249	4	UNK	LFT OF RGT LL	37	E15S	1248E6	18604	3019	ERIE ST	
288	322225	4	UNK	LFT OF RGT LL	46	E15S	1248E6	18604	3020	ERIE ST	
289	200931	4	UNK	LFT OF RGT LL	31	E15S	1248E6	18604	3031	ERIE ST	
290	322058	4	UNK	LFT OF RGT LL	35	E15S	1248E6	18604	3032	ERIE ST	
291	321989	4	UNK	LFT OF RGT LL	36	E15S	1248E6	18604	3043	ERIE ST	
292	200725	4	UNK	RGT OF LFT LL	35	E15S	1248E6	18604	3044	ERIE ST	
293	321893	4	UNK	LFT OF RGT LL	25	E15S	1248E6	18605	3055	ERIE ST	
294	200566	4	UNK	RGT OF LFT LL	36	E15S	1248E6	18605	3056	ERIE ST	
295	200448	4	UNK	RGT OF LFT LL	27	E15S	1248E6	18605	3067	ERIE ST	
296	200435	4	UNK	LFT OF RGT LL	30	E15S	1248E6	18605	3068	ERIE ST	
297	200315	4	UNK	LFT OF RGT LL	33	E15S	1248E6	18605	3079	ERIE ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
298	321614	4	UNK	LFT OF RGT LL	29	E15S	1248E6	18605	3080	ERIE ST	
299	200161	4	UNK	LFT OF RGT LL	34	E14S	1248E6	18605	3110	ERIE ST	
300	200146	4	UNK	LFT OF RGT LL	31	E14S	1248E6	18605	3111	ERIE ST	
301	317379	4	UNK	RGT OF LFT LL	20	D14S	1248D5	14590	3503	ETHAN ALLEN AV	
302	317241	4	UNK	MANHOLE	72	D14S	1248D5	14591	3504	ETHAN ALLEN AV	ALLEY
303	317201	4	UNK	MANHOLE	186	D14S	1248D5	14591	3512	ETHAN ALLEN AV	ALLEY
304	194313	4	UNK	unset	0	D14S	1248D5	14591	3520	ETHAN ALLEN AV	ALLEY
305	317081	4	UNK	MANHOLE	105	D14S	1248D5	14591	3526	ETHAN ALLEN AV	ALLEY
306	317033	4	UNK	MANHOLE	79	D14S	1248D5	14591	3530	ETHAN ALLEN AV	ALLEY
307	316989	4	UNK	MANHOLE	58	D14S	1248D5	14591	3536	ETHAN ALLEN AV	ALLEY
308	316875	4	UNK	MANHOLE	13	D14S	1248D5	14557	3544	ETHAN ALLEN AV	ALLEY
309	316834	4	UNK	MANHOLE	35	D14S	1248D5	14557	3548	ETHAN ALLEN AV	ALLEY
310	193867	4	UNK	unset	0	D14S	1248D5	14568	3549	ETHAN ALLEN AV	ALLEY
311	316791	4	UNK	unset	0	D14S	1248D5	14557	3556	ETHAN ALLEN AV	ALLEY
312	193830	4	UNK	MANHOLE	78	D14S	1248D5	14557	3556	ETHAN ALLEN AV	ALLEY
313	193765	4	UNK	unset	0	D14S	1248D5	14557	3558	ETHAN ALLEN AV	ALLEY
314	193824	4	UNK	MANHOLE	58	D14S	1248D5	14568	3559	ETHAN ALLEN AV	ALLEY
315	193710	4	UNK	unset	0	D14S	1248D5	14557	3562	ETHAN ALLEN AV	ALLEY
316	316630	4	UNK	MANHOLE	66	D14S	1248D5	14557	3566	ETHAN ALLEN AV	ALLEY
317	193634	4	UNK	unset	0	D14S	1248D5	14557	3566	ETHAN ALLEN AV	ALLEY
318	316627	4	UNK	MANHOLE	111	D14S	1248D5	14568	3567	ETHAN ALLEN AV	ALLEY
319	316593	4	UNK	MANHOLE	48	D14S	1248D5	14557	3570	ETHAN ALLEN AV	ALLEY
320	193580	4	UNK	MANHOLE	104	D14S	1248D5	14568	3575	ETHAN ALLEN AV	ALLEY
321	193478	4	UNK	RGT OF LFT LL	5	D14S	1248D5	14558	3580	ETHAN ALLEN AV	ALLEY
322	316466	4	UNK	MANHOLE	39	D14S	1248D5	14568	3585	ETHAN ALLEN AV	ALLEY
323	316442	4	UNK	LFT OF RGT LL	10	D14S	1248D5	14558	3590	ETHAN ALLEN AV	ALLEY
324	316355	4	UNK	MANHOLE	46	D14S	1248D5	14569	3593	ETHAN ALLEN AV	
325	193154	4	UNK	RGT OF LFT LL	20	D14S	1248D5	14569	3603	ETHAN ALLEN AV	
326	316126	4	UNK	MANHOLE	83	D14S	1248D5	14567	3609	ETHAN ALLEN AV	
327	316087	4	UNK	MANHOLE	48	D14S	1248D5	14567	3609	ETHAN ALLEN AV	
328	192795	4	UNK	LFT OF RGT LL	10	D14S	1248D5	14567	3623	ETHAN ALLEN AV	
329	315892	4	UNK	LFT OF RGT LL	18	D14S	1248D5	14565	3631	ETHAN ALLEN AV	
330	192530	4	UNK	RGT OF LFT LL	10	D14S	1248D5	14565	3639	ETHAN ALLEN AV	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
331	315758	4	UNK	LFT OF RGT LL	10	D14S	1248D5	14565	3647	ETHAN ALLEN AV	
332	192260	4	UNK	RGT OF LFT LL	5	D14S	1248D5	14564	3655	ETHAN ALLEN AV	
333	192282	4	UNK	unset	0	D14S	1248D5	14561	3660	ETHAN ALLEN AV	ALLEY
334	192176	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14564	3665	ETHAN ALLEN AV	
335	192023	4	UNK	MANHOLE	114	D14S	1248D5	14561	3674	ETHAN ALLEN AV	ALLEY
336	315530	4	UNK	RGT OF LFT LL	13	D14S	1248D5	14564	3675	ETHAN ALLEN AV	
337	191986	4	UNK	RGT OF LFT LL	27	D14S	1248D5	14561	3680	ETHAN ALLEN AV	ALLEY
338	315469	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14564	3683	ETHAN ALLEN AV	
339	280904	4	UNK	unset	0	D14S	1248D5	14564	3689	ETHAN ALLEN AV	
340	375685	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14564	3693	ETHAN ALLEN AV	
341	203382	4	UNK	MANHOLE	60	E15S	1248E7	18578	2808	FALLBROOK LN	
342	322625	4	UNK	MANHOLE	25	E15S	1248E6	18603	2945	FALLBROOK LN	
343	202197	4	UNK	RGT OF LFT LL	17	E15S	1248E6	18599	4414	FIELD ST	
344	323960	4	UNK	MANHOLE	54	E15S	1248E7	18823	4295	GESNER ST	
345	203540	4	UNK	LFT OF RGT LL	5	E15S	1248E7	18823	4305	GESNER ST	
346	323946	4	UNK	RGT OF LFT LL	11	E15S	1248E7	18574	4465	GESNER ST	
347	203586	4	UNK	LFT OF RGT LL	6	E15S	1248E7	18574	4475	GESNER ST	
348	323959	4	UNK	LFT OF RGT LL	3	E15S	1248E7	18574	4485	GESNER ST	
349	321502	4	UNK	LFT OF RGT LL	18	E14S	1248F6	18449	4709	HURON AV	
350	200005	4	UNK	RGT OF LFT LL	24	E14S	1248F6	18449	4714	HURON AV	
351	200101	4	UNK	LFT OF RGT LL	17	E14S	1248F6	18449	4715	HURON AV	
352	321412	4	UNK	LFT OF RGT LL	23	E14S	1248F6	18449	4721	HURON AV	
353	199922	4	UNK	RGT OF LFT LL	23	E14S	1248F6	18449	4722	HURON AV	
354	200015	4	UNK	LFT OF RGT LL	23	E14S	1248F6	18449	4727	HURON AV	
355	199831	4	UNK	RGT OF LFT LL	20	E14S	1248F6	18449	4728	HURON AV	
356	321308	4	UNK	LFT OF RGT LL	16	E14S	1248F6	18450	4733	HURON AV	
357	199799	4	UNK	RGT OF LFT LL	13	E14S	1248F6	18449	4734	HURON AV	
358	321173	4	UNK	RGT OF LFT LL	25	E14S	1248F6	18450	4740	HURON AV	
359	199790	4	UNK	RGT OF LFT LL	21	E14S	1248F6	18452	4804	HURON AV	
360	321320	4	UNK	RGT OF LFT LL	24	E14S	1248F6	18452	4805	HURON AV	
361	199966	4	UNK	LFT OF RGT LL	16	E14S	1248F6	18452	4811	HURON AV	
362	199903	4	UNK	LFT OF RGT LL	18	E14S	1248F6	18452	4817	HURON AV	
363	321029	4	UNK	MANHOLE	48	E14S	1248F6	18453	4822	HURON AV	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
364	321130	4	UNK	LFT OF RGT LL	24	E14S	1248F6	18453	4823	HURON AV	
365	321022	4	UNK	LFT OF RGT LL	11	E14S	1248F6	18453	4829	HURON AV	
366	320889	4	UNK	RGT OF LFT LL	36	E14S	1248F6	18453	4834	HURON AV	
367	320885	4	UNK	LFT OF RGT LL	27	E14S	1248F6	18453	4835	HURON AV	
368	320852	4	UNK	LFT OF RGT LL	20	E14S	1248F6	18462	4601	IROQUOIS AV	
369	320736	4	UNK	LFT OF RGT LL	12	E14S	1248F6	18462	4604	IROQUOIS AV	
370	320748	4	UNK	LFT OF RGT LL	11	E14S	1248F6	18462	4610	IROQUOIS AV	
371	320744	4	UNK	LFT OF RGT LL	38	E14S	1248F6	18463	4616	IROQUOIS AV	
372	199186	4	UNK	RGT OF LFT LL	19	E14S	1248F6	18463	4622	IROQUOIS AV	
373	320874	4	UNK	RGT OF LFT LL	26	E14S	1248F6	18463	4623	IROQUOIS AV	
374	199136	4	UNK	RGT OF LFT LL	25	E14S	1248F6	18463	4628	IROQUOIS AV	
375	320837	4	UNK	RGT OF LFT LL	25	E14S	1248F6	18463	4629	IROQUOIS AV	
376	320787	4	UNK	MANHOLE	29	E14S	1248F6	18463	4633	IROQUOIS AV	
377	199042	4	UNK	LFT OF RGT LL	65	E14S	1248F6	18464	4636	IROQUOIS AV	
378	320723	4	UNK	LFT OF RGT LL	16	E14S	1248F6	18464	4639	IROQUOIS AV	
379	320667	4	UNK	LFT OF RGT LL	14	E14S	1248F6	18464	4645	IROQUOIS AV	
380	198920	4	UNK	LFT OF RGT LL	55	E14S	1248F6	18464	4650	IROQUOIS AV	
381	198827	4	UNK	LFT OF RGT LL	41	E14S	1248F6	18464	4704	IROQUOIS AV	
382	198758	4	UNK	unset	0	E14S	1248F6	18464	4710	IROQUOIS AV	
383	320528	4	UNK	LFT OF RGT LL	18	E14S	1248F6	18464	4711	IROQUOIS AV	
384	198686	4	UNK	RGT OF LFT LL	19	E14S	1248F6	18465	4716	IROQUOIS AV	
385	320476	4	UNK	LFT OF RGT LL	14	E14S	1248F6	18465	4717	IROQUOIS AV	
386	320315	4	UNK	RGT OF LFT LL	15	E14S	1248F6	18465	4722	IROQUOIS AV	
387	320418	4	UNK	LFT OF RGT LL	18	E14S	1248F6	18465	4723	IROQUOIS AV	
388	198540	4	UNK	RIGHT OF WAY	11	E14S	1248F6	18465	4728	IROQUOIS AV	
389	198470	4	UNK	LFT OF RGT LL	44	E14S	1248F6	18466	4728	IROQUOIS AV	
390	198672	4	UNK	LFT OF RGT LL	17	E14S	1248F6	18465	4731	IROQUOIS AV	
391	320224	4	UNK	RGT OF LFT LL	19	E14S	1248F6	18466	4740	IROQUOIS AV	
392	320356	4	UNK	LFT OF RGT LL	16	E14S	1248F6	18466	4741	IROQUOIS AV	
393	198483	4	UNK	RGT OF LFT LL	27	E14S	1248F6	18466	4804	IROQUOIS AV	
394	320361	4	UNK	LFT OF RGT LL	15	E14S	1248F6	18466	4805	IROQUOIS AV	
395	198487	4	UNK	RGT OF LFT LL	10	E14S	1248F6	18466	4810	IROQUOIS AV	
396	198663	4	UNK	LFT OF RGT LL	11	E14S	1248F6	18466	4815	IROQUOIS AV	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
397	198488	4	UNK	RGT OF LFT LL	5	E14S	1248F6	18466	4816	IROQUOIS AV	
398	198675	4	UNK	LFT OF RGT LL	23	E14S	1248F6	18466	4821	IROQUOIS AV	
399	1138927	4	ABS	RGT OF LFT LL	4	E14S	1248F6	18466	4822	IROQUOIS AV	
400	320370	4	UNK	RGT OF LFT LL	24	E14S	1248F6	18467	4827	IROQUOIS AV	
401	320240	4	UNK	MANHOLE	59	E14S	1248F6	18467	4828	IROQUOIS AV	
402	320373	4	UNK	RGT OF LFT LL	22	E14S	1248F6	18467	4833	IROQUOIS AV	
403	198500	4	UNK	RGT OF LFT LL	10	E14S	1248F6	18467	4834	IROQUOIS AV	
404	198680	4	UNK	LFT OF RGT LL	15	E14S	1248F6	18467	4839	IROQUOIS AV	
405	320245	4	UNK	RGT OF LFT LL	17	E14S	1248F6	18467	4840	IROQUOIS AV	
406	198688	4	UNK	LFT OF RGT LL	13	E14S	1248F6	18467	4845	IROQUOIS AV	
407	320250	4	UNK	RGT OF LFT LL	22	E14S	1248F6	18467	4846	IROQUOIS AV	
408	198295	4	UNK	MANHOLE	60	E14S	1248F6	18469	4846	IROQUOIS AV	
409	320382	4	UNK	LFT OF RGT LL	16	E14S	1248F6	18467	4851	IROQUOIS AV	
410	198746	4	UNK	LFT OF RGT LL	13	E14S	1248F6	18468	4905	IROQUOIS AV	
411	198759	4	UNK	LFT OF RGT LL	1	E14S	1248F6	18468	4915	IROQUOIS AV	
412	320291	4	UNK	LFT OF RGT LL	11	E14S	1248F6	18468	4916	IROQUOIS AV	
413	320299	4	UNK	RGT OF LFT LL	12	E14S	1248F6	18468	4924	IROQUOIS AV	
414	320465	4	UNK	LFT OF RGT LL	24	E14S	1248F6	18355	4935	IROQUOIS AV	
415	199949	4	UNK	LFT OF RGT LL	15	E14S	1248F6	18461	3003	IROQUOIS WY	
416	199795	4	UNK	RGT OF LFT LL	25	E14S	1248F6	18461	3004	IROQUOIS WY	
417	321185	4	UNK	RGT OF LFT LL	17	E14S	1248F6	18461	3009	IROQUOIS WY	
418	199637	4	UNK	LFT OF RGT LL	38	E14S	1248F6	18461	3010	IROQUOIS WY	
419	321060	4	UNK	LFT OF RGT LL	21	E14S	1248F6	18461	3017	IROQUOIS WY	
420	199471	4	UNK	LFT OF RGT LL	13	E14S	1248F6	18461	3018	IROQUOIS WY	
421	199399	4	UNK	MANHOLE	65	E14S	1248F6	18461	3025	IROQUOIS WY	
422	320627	4	UNK	MANHOLE	77	E14S	1248F6	18356	4940	JUMANO AV	
423	199241	4	UNK	LFT OF RGT LL	10	E14S	1248F6	18356	4945	JUMANO AV	
424	320655	4	UNK	LFT OF RGT LL	14	E14S	1248F6	18356	4951	JUMANO AV	
425	320541	4	UNK	RGT OF LFT LL	15	E14S	1248F6	18355	4957	JUMANO AV	
426	320571	4	UNK	RGT OF LFT LL	23	E14S	1248F6	18464	3061	KAIBAB CT	
427	200271	4	UNK	RGT OF LFT LL	26	E14S	1248F6	18451	3004	LACKAWANNA WY	
428	200189	4	UNK	LFT OF RGT LL	48	E14S	1248F6	18451	3005	LACKAWANNA WY	
429	200143	4	UNK	RGT OF LFT LL	25	E14S	1248F6	18451	3012	LACKAWANNA WY	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
430	323395	4	UNK	RGT OF LFT LL	31	D15S	1248E6	14823	2806	LLOYD ST	
431	202902	4	UNK	RGT OF LFT LL	30	D15S	1248E7	14823	2807	LLOYD ST	
432	202682	4	UNK	RGT OF LFT LL	14	D15S	1248E6	14823	2814	LLOYD ST	
433	202745	4	UNK	LFT OF RGT LL	19	D15S	1248E6	14823	2817	LLOYD ST	
434	202577	4	UNK	RGT OF LFT LL	14	D15S	1248E6	14823	2822	LLOYD ST	
435	202667	4	UNK	RGT OF LFT LL	31	D15S	1248E6	14823	2823	LLOYD ST	
436	323145	4	UNK	LFT OF RGT LL	2	D15S	1248E6	14823	2828	LLOYD ST	
437	323189	4	UNK	RGT OF LFT LL	10	D15S	1248E6	14823	2828	LLOYD ST	
438	202559	4	UNK	RGT OF LFT LL	56	D15S	1248E6	14823	2831	LLOYD ST	
439	323110	4	UNK	RGT OF LFT LL	10	D15S	1248E6	14823	2836	LLOYD ST	
440	202373	4	UNK	RGT OF LFT LL	31	D15S	1248E6	14823	2841	LLOYD ST	
441	323039	4	UNK	LFT OF RGT LL	14	D15S	1248E6	14823	2844	LLOYD ST	
442	202120	4	UNK	unset	0	D15S	1248E6	14820	2867	LLOYD ST	
443	322954	4	UNK	RGT OF LFT LL	13	D15S	1248E6	14820	2870	LLOYD ST	
444	202047	4	UNK	LFT OF RGT LL	29	D15S	1248E6	14819	2875	LLOYD ST	
445	201922	4	UNK	RGT OF LFT LL	40	D15S	1248E6	14819	2880	LLOYD ST	
446	322682	4	UNK	LFT OF RGT LL	26	D15S	1248E6	14817	2903	LLOYD ST	
447	201616	4	UNK	LFT OF RGT LL	40	D15S	1248E6	14817	2910	LLOYD ST	
448	201475	4	UNK	RGT OF LFT LL	33	D15S	1248E6	14817	2915	LLOYD ST	
449	201455	4	UNK	RGT OF LFT LL	31	D15S	1248E6	14817	2926	LLOYD ST	
450	322386	4	UNK	RGT OF LFT LL	33	D15S	1248E6	14817	2935	LLOYD ST	
451	322372	4	UNK	LFT OF RGT LL	35	D15S	1248E6	14817	2942	LLOYD ST	
452	201147	4	UNK	LFT OF RGT LL	34	D15S	1248E6	14817	2955	LLOYD ST	
453	322257	4	UNK	LFT OF RGT LL	33	D15S	1248E6	14817	2960	LLOYD ST	
454	322137	4	UNK	RGT OF LFT LL	31	D15S	1248E6	14814	3002	LLOYD ST	
455	200829	4	UNK	RGT OF LFT LL	34	D15S	1248E6	14814	3007	LLOYD ST	
456	200795	4	UNK	LFT OF RGT LL	22	D15S	1248E6	14814	3008	LLOYD ST	
457	200708	4	UNK	LFT OF RGT LL	33	D15S	1248E6	14814	3011	LLOYD ST	
458	321904	4	UNK	RGT OF LFT LL	37	D15S	1248E6	14814	3014	LLOYD ST	
459	321832	4	UNK	RGT OF LFT LL	46	D15S	1248E6	14814	3017	LLOYD ST	
460	200557	4	UNK	LFT OF RGT LL	33	D15S	1248E6	14814	3020	LLOYD ST	
461	200481	4	UNK	RGT OF LFT LL	44	D15S	1248E6	14814	3023	LLOYD ST	
462	200429	4	UNK	LFT OF RGT LL	31	D15S	1248E6	14814	3026	LLOYD ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
463	200336	4	UNK	RGT OF LFT LL	30	D15S	1248E6	14814	3029	LLOYD ST	
464	321586	4	UNK	LFT OF RGT LL	30	D15S	1248E6	14886	3032	LLOYD ST	
465	200208	4	UNK	LFT OF RGT LL	35	D14S	1248E6	14886	3035	LLOYD ST	
466	321480	4	UNK	RGT OF LFT LL	35	D14S	1248E6	14886	3038	LLOYD ST	
467	200072	4	UNK	LFT OF RGT LL	34	D14S	1248E6	14886	3041	LLOYD ST	
468	200009	4	UNK	LFT OF RGT LL	25	D14S	1248E6	14886	3044	LLOYD ST	
469	199935	4	UNK	RGT OF LFT LL	28	D14S	1248E6	14886	3047	LLOYD ST	
470	321244	4	UNK	RGT OF LFT LL	40	D14S	1248E6	14886	3050	LLOYD ST	
471	321193	4	UNK	LFT OF RGT LL	30	D14S	1248E6	14886	3053	LLOYD ST	
472	199748	4	UNK	LFT OF RGT LL	31	D14S	1248E6	14886	3056	LLOYD ST	
473	199675	4	UNK	MANHOLE	45	D14S	1248E6	14886	3059	LLOYD ST	
474	321006	4	UNK	RGT OF LFT LL	44	D14S	1248E6	14708	3062	LLOYD ST	
475	199549	4	UNK	LFT OF RGT LL	27	D14S	1248E6	14708	3065	LLOYD ST	
476	199447	4	UNK	RGT OF LFT LL	30	D14S	1248E6	14708	3068	LLOYD ST	
477	199403	4	UNK	MANHOLE	69	D14S	1248E6	14708	3071	LLOYD ST	
478	320771	4	UNK	LFT OF RGT LL	18	D14S	1248E6	14708	3074	LLOYD ST	
479	199238	4	UNK	LFT OF RGT LL	27	D14S	1248E6	14708	3077	LLOYD ST	
480	320674	4	UNK	unset	0	D14S	1248E6	14709	3080	LLOYD ST	
481	199050	4	UNK	MANHOLE	45	D14S	1248E6	14709	3083	LLOYD ST	
482	198976	4	UNK	RGT OF LFT LL	23	D14S	1248E6	14709	3086	LLOYD ST	
483	198939	4	UNK	MANHOLE	83	D14S	1248E6	14709	3089	LLOYD ST	
484	320473	4	UNK	MANHOLE	44	D14S	1248E6	14709	3092	LLOYD ST	
485	198712	4	UNK	MANHOLE	2	D14S	1248E6	14712	3095	LLOYD ST	
486	320310	4	UNK	MANHOLE	49	D14S	1248E6	14712	3103	LLOYD ST	
487	320219	4	UNK	MANHOLE	95	D14S	1248E6	14712	3112	LLOYD ST	
488	320191	4	UNK	RGT OF LFT LL	52	D14S	1248E6	14712	3117	LLOYD ST	
489	198350	4	UNK	RGT OF LFT LL	20	D14S	1248E6	14712	3126	LLOYD ST	
490	320058	4	ABS	LFT OF RGT LL	30	D14S	1248E6	14712	3131	LLOYD ST	
491	198213	4	UNK	MANHOLE	45	D14S	1248E6	14712	3140	LLOYD ST	
492	198124	4	UNK	LFT OF RGT LL	20	D14S	1248E6	14712	3145	LLOYD ST	
493	197987	4	UNK	MANHOLE	52	D14S	1248E6	14745	3154	LLOYD ST	
494	198025	4	UNK	MANHOLE	35	D14S	1248E6	14745	3159	LLOYD ST	
495	197852	4	UNK	LFT OF RGT LL	35	D14S	1248E6	14745	3201	LLOYD ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
496	319762	4	UNK	RGT OF LFT LL	31	D14S	1248E6	14745	3208	LLOYD ST	
497	197755	4	UNK	RGT OF LFT LL	43	D14S	1248E6	14745	3213	LLOYD ST	
498	197602	4	UNK	RGT OF LFT LL	11	D14S	1248E6	14744	3225	LLOYD ST	
499	319675	4	UNK	LFT OF RGT LL	24	D14S	1248E6	14744	3226	LLOYD ST	
500	197557	4	UNK	RGT OF LFT LL	18	D14S	1248E6	14744	3237	LLOYD ST	
501	319591	4	UNK	MANHOLE	19	D14S	1248E6	14744	3242	LLOYD ST	
502	197464	4	UNK	LFT OF RGT LL	31	D14S	1248E6	14743	3249	LLOYD ST	
503	319517	4	UNK	MANHOLE	37	D14S	1248E6	14743	3252	LLOYD ST	
504	197395	4	UNK	unset	0	D14S	1248E6	14743	3260	LLOYD ST	
505	319366	4	UNK	RGT OF LFT LL	18	D14S	1248E6	14741	3301	LLOYD ST	
506	197198	4	UNK	LFT OF RGT LL	30	D14S	1248E6	14741	3305	LLOYD ST	
507	319339	4	UNK	LFT OF RGT LL	56	D14S	1248E6	14741	3306	LLOYD ST	
508	197104	4	UNK	RGT OF LFT LL	18	D14S	1248E6	14740	3311	LLOYD ST	
509	197139	4	UNK	LFT OF RGT LL	23	D14S	1248E6	14740	3316	LLOYD ST	
510	319165	4	UNK	RGT OF LFT LL	29	D14S	1248E6	14740	3317	LLOYD ST	
511	319094	4	UNK	RGT OF LFT LL	19	D14S	1248E6	14740	3323	LLOYD ST	
512	197086	4	UNK	LFT OF RGT LL	28	D14S	1248E6	14740	3324	LLOYD ST	
513	319132	4	UNK	LFT OF RGT LL	23	D14S	1248E6	14740	3330	LLOYD ST	
514	319023	4	UNK	LFT OF RGT LL	56	D14S	1248E5	14740	3333	LLOYD ST	
515	196920	4	UNK	LFT OF RGT LL	23	D14S	1248E6	14740	3336	LLOYD ST	
516	196841	4	UNK	LFT OF RGT LL	23	D14S	1248D6	14740	3342	LLOYD ST	
517	318974	4	UNK	LFT OF RGT LL	29	D14S	1248D5	14738	3348	LLOYD ST	
518	318801	4	UNK	RGT OF LFT LL	64	D14S	1248D5	14738	3353	LLOYD ST	
519	318902	4	UNK	LFT OF RGT LL	33	D14S	1248D5	14738	3354	LLOYD ST	
520	196521	4	UNK	LFT OF RGT LL	33	D14S	1248D5	14738	3360	LLOYD ST	
521	318605	4	UNK	RGT OF LFT LL	28	D14S	1248D5	14754	3365	LLOYD ST	
522	318739	4	UNK	LFT OF RGT LL	36	D14S	1248D5	14754	3366	LLOYD ST	
523	196201	4	UNK	LFT OF RGT LL	35	D14S	1248D5	14754	3372	LLOYD ST	
524	318528	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14754	3378	LLOYD ST	
525	318438	4	UNK	LFT OF RGT LL	25	D14S	1248D5	14609	3384	LLOYD ST	
526	197631	4	UNK	RGT OF LFT LL	18	D14S	1248D6	14746	3602	LLOYD ST	
527	197630	4	UNK	LFT OF RGT LL	2	D14S	1248E6	14746	3610	LLOYD ST	
528	196689	4	UNK	LFT OF RGT LL	17	D14S	1248E5	14739	3611	LLOYD ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
529	196607	4	UNK	RGT OF LFT LL	13	D14S	1248E5	14739	3612	LLOYD ST	
530	319607	4	UNK	RGT OF LFT LL	16	D14S	1248E6	14746	3618	LLOYD ST	
531	318848	4	UNK	RGT OF LFT LL	20	D14S	1248E5	14739	3620	LLOYD ST	
532	318883	4	UNK	LFT OF RGT LL	15	D14S	1248E5	14739	3621	LLOYD ST	
533	197818	4	UNK	RGT OF LFT LL	33	D14S	1248E6	14746	3621	LLOYD ST	
534	197751	4	UNK	LFT OF RGT LL	28	D14S	1248E6	14746	3626	LLOYD ST	
535	318821	4	UNK	RGT OF LFT LL	12	D14S	1248E5	14739	3628	LLOYD ST	
536	196604	4	UNK	LFT OF RGT LL	13	D14S	1248E5	14739	3629	LLOYD ST	
537	197913	4	UNK	RGT OF LFT LL	40	D14S	1248E6	14746	3633	LLOYD ST	
538	319756	4	UNK	RGT OF LFT LL	19	D14S	1248E6	14746	3634	LLOYD ST	
539	196418	4	UNK	RGT OF LFT LL	15	D14S	1248E5	14739	3636	LLOYD ST	
540	196509	4	UNK	RGT OF LFT LL	14	D14S	1248E5	14739	3637	LLOYD ST	
541	197944	4	UNK	LFT OF RGT LL	20	D14S	1248E6	14711	3642	LLOYD ST	
542	196417	4	UNK	LFT OF RGT LL	17	D14S	1248E5	14739	3644	LLOYD ST	
543	319907	4	UNK	RGT OF LFT LL	37	D14S	1248E6	14711	3645	LLOYD ST	
544	196416	4	UNK	LFT OF RGT LL	17	D14S	1248E5	14739	3645	LLOYD ST	
545	319898	4	UNK	RGT OF LFT LL	19	D14S	1248E6	14711	3650	LLOYD ST	
546	319993	4	UNK	LFT OF RGT LL	25	D14S	1248E6	14711	3653	LLOYD ST	
547	319987	4	UNK	RGT OF LFT LL	11	D14S	1248E6	14711	3658	LLOYD ST	
548	320107	4	UNK	RGT OF LFT LL	24	D14S	1248E6	14711	3661	LLOYD ST	
549	198413	4	UNK	RGT OF LFT LL	34	D14S	1248E6	14711	3669	LLOYD ST	
550	198551	4	UNK	LFT OF RGT LL	27	D14S	1248E6	14711	3677	LLOYD ST	
551	198684	4	UNK	MANHOLE	11	D14S	1248E6	14711	3685	LLOYD ST	
552	319049	4	UNK	LFT OF RGT LL	16	D14S	1248E5	14737	3704	MACTIBBY ST	
553	196831	4	UNK	LFT OF RGT LL	14	D14S	1248E5	14736	3714	MACTIBBY ST	
554	196830	4	UNK	MANHOLE	27	D14S	1248E5	14736	3714	MACTIBBY ST	
555	319133	4	UNK	RGT OF LFT LL	25	D14S	1248E6	14736	3715	MACTIBBY ST	
556	196832	4	UNK	LFT OF RGT LL	36	D14S	1248E5	14736	3724	MACTIBBY ST	
557	197002	4	UNK	LFT OF RGT LL	27	D14S	1248E6	14736	3725	MACTIBBY ST	
558	319134	4	UNK	RGT OF LFT LL	36	D14S	1248E6	14736	3735	MACTIBBY ST	
559	192326	4	UNK	RGT OF LFT LL	21	E14S	1248E5	18221	4018	MARK TER	
560	192294	4	UNK	LFT OF RGT LL	20	E14S	1248E5	18221	4001	MARK TR	
561	376465	4	UNK	RGT OF LFT LL	23	E14S	1248E5	18221	4010	MARK TR	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
562	192303	4	UNK	LFT OF RGT LL	29	E14S	1248E5	18221	4018	MARK TR	
563	192514	4	UNK	RGT OF LFT LL	27	E14S	1248E5	18221	4019	MARK TR	
564	192509	4	UNK	RGT OF LFT LL	24	E14S	1248E5	18221	4026	MARK TR	
565	192729	4	UNK	LFT OF RGT LL	36	E14S	1248E5	18222	4027	MARK TR	
566	192851	4	UNK	LFT OF RGT LL	35	E14S	1248E5	18223	4034	MARK TR	
567	316057	4	UNK	RGT OF LFT LL	38	E14S	1248E5	18222	4035	MARK TR	
568	316138	4	UNK	LFT OF RGT LL	32	E14S	1248E5	18223	4043	MARK TR	
569	202069	4	UNK	MANHOLE	128	D15S	1248E6	14821	2885	MC GRAW ST	
570	202017	4	UNK	MANHOLE	101	D15S	1248E6	14821	2893	MC GRAW ST	
571	322791	4	UNK	RGT OF LFT LL	31	D15S	1248E6	14821	2905	MC GRAW ST	
572	201747	4	UNK	RGT OF LFT LL	30	D15S	1248E6	14816	2915	MC GRAW ST	
573	201748	4	UNK	LFT OF RGT LL	38	D15S	1248E6	14816	2915	MC GRAW ST	
574	201627	4	UNK	LFT OF RGT LL	42	D15S	1248E6	14816	2920	MC GRAW ST	
575	201579	4	UNK	LFT OF RGT LL	33	D15S	1248E6	14816	2925	MC GRAW ST	
576	322460	4	UNK	RGT OF LFT LL	40	D15S	1248E6	14816	2935	MC GRAW ST	
577	201445	4	UNK	RGT OF LFT LL	35	D15S	1248E6	14816	2936	MC GRAW ST	
578	201181	4	UNK	RGT OF LFT LL	14	D15S	1248E6	14816	2945	MC GRAW ST	
579	201209	4	UNK	LFT OF RGT LL	27	D15S	1248E6	14816	2946	MC GRAW ST	
580	322238	4	UNK	unset	0	D15S	1248E6	14816	2955	MC GRAW ST	
581	201026	4	UNK	LFT OF RGT LL	16	D15S	1248E6	14815	2956	MC GRAW ST	
582	200941	4	UNK	unset	0	D15S	1248E6	14815	2965	MC GRAW ST	
583	200874	4	UNK	LFT OF RGT LL	26	D15S	1248E6	14815	2966	MC GRAW ST	
584	321977	4	UNK	RGT OF LFT LL	30	D15S	1248E6	14815	3001	MC GRAW ST	
585	321943	4	UNK	LFT OF RGT LL	11	D15S	1248E6	14815	3004	MC GRAW ST	
586	200655	4	UNK	LFT OF RGT LL	29	D15S	1248E6	14815	3011	MC GRAW ST	
587	321833	4	UNK	LFT OF RGT LL	23	D15S	1248E6	14815	3014	MC GRAW ST	
588	200512	4	UNK	RGT OF LFT LL	30	D15S	1248E6	14815	3021	MC GRAW ST	
589	200457	4	UNK	RGT OF LFT LL	57	D15S	1248E6	14815	3024	MC GRAW ST	
590	321668	4	UNK	unset	0	D15S	1248E6	14815	3031	MC GRAW ST	
591	200326	4	UNK	LFT OF RGT LL	14	D15S	1248E6	14809	3034	MC GRAW ST	
592	200210	4	UNK	RGT OF LFT LL	40	D14S	1248E6	14809	3040	MC GRAW ST	
593	321548	4	UNK	LFT OF RGT LL	14	D14S	1248E6	14809	3041	MC GRAW ST	
594	321419	4	UNK	LFT OF RGT LL	43	D14S	1248E6	14809	3051	MC GRAW ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
595	321428	4	UNK	RGT OF LFT LL	21	D14S	1248E6	14809	3056	MC GRAW ST	
596	321313	4	UNK	MANHOLE	145	D14S	1248E6	14809	3061	MC GRAW ST	
597	321295	4	UNK	LFT OF RGT LL	40	D14S	1248E6	14809	3066	MC GRAW ST	
598	321163	4	UNK	LFT OF RGT LL	55	D14S	1248E6	14809	3071	MC GRAW ST	
599	321153	4	UNK	LFT OF RGT LL	31	D14S	1248E6	14809	3078	MC GRAW ST	
600	321062	4	UNK	LFT OF RGT LL	40	D14S	1248E6	14809	3083	MC GRAW ST	
601	199617	4	UNK	LFT OF RGT LL	25	D14S	1248E6	14707	3102	MC GRAW ST	
602	199440	4	UNK	MANHOLE	95	D14S	1248E6	14707	3111	MC GRAW ST	
603	199448	4	UNK	LFT OF RGT LL	34	D14S	1248E6	14707	3112	MC GRAW ST	
604	320761	4	UNK	LFT OF RGT LL	40	D14S	1248E6	14707	3121	MC GRAW ST	
605	199304	4	UNK	LFT OF RGT LL	49	D14S	1248E6	14707	3122	MC GRAW ST	
606	199052	4	UNK	RGT OF LFT LL	11	D14S	1248E6	14707	3131	MC GRAW ST	
607	320664	4	UNK	LFT OF RGT LL	34	D14S	1248E6	14707	3132	MC GRAW ST	
608	320555	4	UNK	RGT OF LFT LL	41	D14S	1248E6	14707	3141	MC GRAW ST	
609	198990	4	UNK	RGT OF LFT LL	28	D14S	1248E6	14707	3142	MC GRAW ST	
610	198789	4	UNK	LFT OF RGT LL	40	D14S	1248E6	14706	3151	MC GRAW ST	
611	198810	4	UNK	LFT OF RGT LL	21	D14S	1248E6	14706	3152	MC GRAW ST	
612	320318	4	UNK	LFT OF RGT LL	43	D14S	1248E6	14706	3161	MC GRAW ST	
613	320388	4	UNK	LFT OF RGT LL	50	D14S	1248D6	14706	3162	MC GRAW ST	
614	198541	4	UNK	RGT OF LFT LL	30	D14S	1248D6	14706	3172	MC GRAW ST	
615	198492	4	UNK	LFT OF RGT LL	27	D14S	1248E6	14706	3173	MC GRAW ST	
616	198249	4	UNK	RGT OF LFT LL	26	D14S	1248E6	14705	3183	MC GRAW ST	
617	319986	4	UNK	LFT OF RGT LL	44	D14S	1248E6	14705	3205	MC GRAW ST	
618	319917	4	UNK	LFT OF RGT LL	16	D14S	1248D6	14705	3215	MC GRAW ST	
619	197874	4	UNK	LFT OF RGT LL	34	D14S	1248D6	14749	3225	MC GRAW ST	
620	197723	4	UNK	LFT OF RGT LL	33	D14S	1248D6	14749	3235	MC GRAW ST	
621	197615	4	UNK	LFT OF RGT LL	16	D14S	1248D6	14749	3245	MC GRAW ST	
622	197416	4	UNK	LFT OF RGT LL	40	D14S	1248D6	14749	3255	MC GRAW ST	
623	197221	4	UNK	RGT OF LFT LL	30	D14S	1248D6	14750	3301	MC GRAW ST	
624	319321	4	UNK	LFT OF RGT LL	30	D14S	1248D6	14750	3304	MC GRAW ST	
625	319232	4	UNK	RGT OF LFT LL	35	D14S	1248D6	14750	3305	MC GRAW ST	
626	319219	4	UNK	LFT OF RGT LL	35	D14S	1248D6	14750	3308	MC GRAW ST	
627	197017	4	UNK	RGT OF LFT LL	30	D14S	1248D6	14750	3309	MC GRAW ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
628	319137	4	UNK	LFT OF RGT LL	33	D14S	1248D6	14750	3314	MC GRAW ST	
629	319065	4	UNK	RGT OF LFT LL	30	D14S	1248D6	14750	3315	MC GRAW ST	
630	196847	4	UNK	LFT OF RGT LL	30	D14S	1248D6	14752	3320	MC GRAW ST	
631	318986	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14752	3321	MC GRAW ST	
632	318962	4	UNK	LFT OF RGT LL	32	D14S	1248D5	14752	3328	MC GRAW ST	
633	318907	4	UNK	RGT OF LFT LL	25	D14S	1248D5	14752	3329	MC GRAW ST	
634	196600	4	UNK	LFT OF RGT LL	30	D14S	1248D5	14752	3336	MC GRAW ST	
635	318835	4	UNK	RGT OF LFT LL	35	D14S	1248D5	14752	3337	MC GRAW ST	
636	196465	4	UNK	LFT OF RGT LL	30	D14S	1248D5	14752	3344	MC GRAW ST	
637	196369	4	UNK	RGT OF LFT LL	25	D14S	1248D5	14752	3345	MC GRAW ST	
638	318754	4	UNK	LFT OF RGT LL	28	D14S	1248D5	14753	3350	MC GRAW ST	
639	196248	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14753	3351	MC GRAW ST	
640	196240	4	UNK	LFT OF RGT LL	30	D14S	1248D5	14753	3358	MC GRAW ST	
641	196144	4	UNK	LFT OF RGT LL	30	D14S	1248D5	14753	3366	MC GRAW ST	
642	318481	4	UNK	LFT OF RGT LL	35	D14S	1248D5	14753	3371	MC GRAW ST	
643	196055	4	UNK	LFT OF RGT LL	30	D14S	1248D5	14753	3374	MC GRAW ST	
644	318422	4	UNK	LFT OF RGT LL	80	D14S	1248D5	14608	3384	MC GRAW ST	
645	318561	4	UNK	RGT OF LFT LL	33	D14S	1248D5	14753	3361	MCGRAW ST	
646	323336	4	UNK	MANHOLE	75	D15S	1248E6	14822	2805	MORENA BL	
647	202593	6	UNK	MANHOLE	141	D15S	1248E6	14822	2821	MORENA BL	
648	202518	4	UNK	unset	0	D15S	1248E6	14822	2821	MORENA BL	
649	323141	4	UNK	unset	0	D15S	1248E6	14822	2827	MORENA BL	
650	202226	4	UNK	MANHOLE	88	D15S	1248E6	14821	2865	MORENA BL	
651	202170	4	UNK	MANHOLE	114	D15S	1248E6	14821	2871	MORENA BL	
652	202111	4	UNK	MANHOLE	137	D15S	1248E6	14821	2877	MORENA BL	
653	319231	4	UNK	RGT OF LFT LL	30	D14S	1248D6	14682	3309	MORENA BL	
654	319148	4	UNK	RGT OF LFT LL	33	D14S	1248D6	14682	3315	MORENA BL	
655	196895	4	UNK	RGT OF LFT LL	30	D14S	1248D6	14682	3321	MORENA BL	
656	196773	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14682	3329	MORENA BL	
657	318914	4	UNK	RGT OF LFT LL	32	D14S	1248D5	14682	3337	MORENA BL	
658	318846	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14681	3345	MORENA BL	
659	196401	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14681	3351	MORENA BL	
660	318689	4	UNK	RGT OF LFT LL	25	D14S	1248D5	14681	3359	MORENA BL	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
661	318592	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14681	3367	MORENA BL	
662	196076	4	UNK	RGT OF LFT LL	18	D14S	1248D5	14681	3375	MORENA BL	
663	195996	4	UNK	LFT OF RGT LL	27	D14S	1248D5	14679	3385	MORENA BL	
664	317889	4	UNK	RGT OF LFT LL	50	D14S	1248D5	14607	3441	MORENA BL	
665	5017870	4	ABS	LFT OF RGT LL	52	D14S	1248D5	14591	3515	MORENA BL	ALLEY
666	317393	4	UNK	RGT OF LFT LL	48	D14S	1248D5	14613	3502	MOULTRIE AV	
667	317188	4	UNK	MANHOLE	115	D14S	1248D5	14585	3520	MOULTRIE AV	ALLEY
668	194260	4	UNK	MANHOLE	179	D14S	1248D5	14585	3526	MOULTRIE AV	ALLEY
669	194128	4	UNK	MANHOLE	69	D14S	1248D5	14585	3532	MOULTRIE AV	ALLEY
670	194016	4	UNK	MANHOLE	32	D14S	1248D5	14585	3540	MOULTRIE AV	ALLEY
671	316639	4	UNK	MANHOLE	17	D14S	1248D5	14663	3571	MOULTRIE AV	ALLEY
672	316525	4	UNK	unset	0	D14S	1248D5	14663	3585	MOULTRIE AV	ALLEY
673	193332	4	UNK	MANHOLE	71	D14S	1248D5	14663	3595	MOULTRIE AV	ALLEY
674	316202	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14665	3603	MOULTRIE AV	
675	193005	4	UNK	MANHOLE	104	D14S	1248D5	14665	3609	MOULTRIE AV	
676	316105	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14665	3611	MOULTRIE AV	
677	193037	4	UNK	MANHOLE	73	D14S	1248D5	14665	3612	MOULTRIE AV	
678	192782	4	UNK	RGT OF LFT LL	12	D14S	1248D5	14665	3621	MOULTRIE AV	
679	316062	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14665	3624	MOULTRIE AV	
680	315928	4	UNK	MANHOLE	58	D14S	1248D5	14665	3626	MOULTRIE AV	
681	315976	4	UNK	RGT OF LFT LL	2	D14S	1248D5	14665	3626	MOULTRIE AV	
682	192716	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14665	3629	MOULTRIE AV	
683	192633	4	UNK	MANHOLE	43	D14S	1248D5	14665	3636	MOULTRIE AV	
684	315856	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14665	3639	MOULTRIE AV	
685	192515	4	UNK	MANHOLE	11	D14S	1248D5	14666	3644	MOULTRIE AV	
686	315797	4	UNK	MANHOLE	24	D14S	1248D5	14666	3644	MOULTRIE AV	
687	315783	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14666	3645	MOULTRIE AV	
688	315712	4	UNK	MANHOLE	74	D14S	1248D5	14666	3645	MOULTRIE AV	
689	315746	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14666	3656	MOULTRIE AV	
690	192309	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14666	3659	MOULTRIE AV	
691	315661	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14666	3660	MOULTRIE AV	
692	192195	4	UNK	unset	0	D14S	1248D5	14666	3660	MOULTRIE AV	
693	315627	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14666	3669	MOULTRIE AV	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
694	192136	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14666	3670	MOULTRIE AV	
695	315543	4	UNK	LFT OF RGT LL	5	D14S	1248D5	14666	3675	MOULTRIE AV	
696	191973	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14666	3680	MOULTRIE AV	
697	191842	4	UNK	MANHOLE	56	D14S	1248D5	14666	3689	MOULTRIE AV	
698	191822	4	UNK	unset	0	D14S	1248D5	14667	3689	MOULTRIE AV	
699	315438	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14666	3690	MOULTRIE AV	
700	314876	4	UNK	RGT OF LFT LL	20	D13S	1248D5	14327	3341	MT LAURENCE DR	
701	190972	4	UNK	LFT OF RGT LL	28	D13S	1248D4	14327	3360	MT LAURENCE DR	
702	190975	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14325	3406	MT LAURENCE DR	
703	314759	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14325	3426	MT LAURENCE DR	
704	314888	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14325	3427	MT LAURENCE DR	
705	314890	4	UNK	LFT OF RGT LL	24	D13S	1248D4	14325	3447	MT LAURENCE DR	
706	314894	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14328	3467	MT LAURENCE DR	
707	191143	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14328	3503	MT LAURENCE DR	
708	314765	4	UNK	unset	0	D13S	1248D4	14328	3504	MT LAURENCE DR	
709	190982	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14329	3514	MT LAURENCE DR	
710	314902	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14329	3515	MT LAURENCE DR	
711	190983	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14329	3526	MT LAURENCE DR	
712	314903	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14329	3527	MT LAURENCE DR	
713	190985	4	UNK	RGT OF LFT LL	36	D13S	1248D4	14329	3538	MT LAURENCE DR	
714	314913	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14329	3539	MT LAURENCE DR	
715	191016	4	UNK	LFT OF RGT LL	26	D13S	1248D4	14330	3550	MT LAURENCE DR	
716	314939	4	UNK	LFT OF RGT LL	30	D13S	1248D5	14330	3553	MT LAURENCE DR	
717	191057	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14331	3564	MT LAURENCE DR	
718	191247	4	UNK	LFT OF RGT LL	35	D13S	1248D5	14331	3565	MT LAURENCE DR	
719	191100	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14331	3576	MT LAURENCE DR	
720	314883	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14331	3588	MT LAURENCE DR	
721	314932	4	UNK	RGT OF LFT LL	30	D13S	1248D4	14332	3602	MT LAURENCE DR	
722	314938	4	UNK	RGT OF LFT LL	30	D13S	1248E4	14332	3618	MT LAURENCE DR	
723	191372	4	UNK	unset	0	D13S	1248E5	14332	3635	MT LAURENCE DR	
724	314945	4	UNK	RGT OF LFT LL	10	D13S	1248E4	14332	3636	MT LAURENCE DR	
725	191487	4	UNK	LFT OF RGT LL	30	D13S	1248D5	14573	3702	MT SANDY DR	
726	191383	4	UNK	LFT OF RGT LL	30	D13S	1248D5	14573	3711	MT SANDY DR	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
727	315085	4	UNK	RGT OF LFT LL	20	D13S	1248D5	14573	3712	MT SANDY DR	
728	314978	4	UNK	LFT OF RGT LL	30	D13S	1248D5	14573	3721	MT SANDY DR	
729	191249	4	UNK	RGT OF LFT LL	20	D13S	1248D5	14573	3722	MT SANDY DR	
730	191120	4	UNK	LFT OF RGT LL	30	D13S	1248D4	14327	3731	MT SANDY DR	
731	320183	4	UNK	RGT OF LFT LL	85	E14S	1248F6	18469	3103	NATCHEZ AV	
732	198172	4	UNK	RGT OF LFT LL	20	E14S	1248F6	18469	3109	NATCHEZ AV	
733	198130	4	UNK	MANHOLE	60	E14S	1248F6	18470	3112	NATCHEZ AV	
734	198058	4	UNK	RGT OF LFT LL	16	E14S	1248F6	18470	3115	NATCHEZ AV	
735	197993	4	UNK	MANHOLE	130	E14S	1248F6	18470	3120	NATCHEZ AV	
736	197932	4	UNK	RGT OF LFT LL	10	E14S	1248F6	18470	3121	NATCHEZ AV	
737	197879	4	UNK	LFT OF RGT LL	24	E14S	1248F6	18470	3127	NATCHEZ AV	
738	197814	4	UNK	LFT OF RGT LL	18	E14S	1248F6	18470	3128	NATCHEZ AV	
739	197858	4	UNK	MANHOLE	32	E14S	1248F6	18470	3128	NATCHEZ AV	
740	197792	4	UNK	LFT OF RGT LL	17	E14S	1248F6	18470	3133	NATCHEZ AV	
741	197706	4	UNK	unset	11	E14S	1248F6	18470	3136	NATCHEZ AV	
742	197710	4	UNK	PLUG	15	E14S	1248F6	18470	3139	NATCHEZ AV	
743	194146	4	UNK	MANHOLE	67	D14S	1248D5	14591	3527	PAUL JONES AV	ALLEY
744	194065	4	UNK	unset	0	D14S	1248D5	14591	3535	PAUL JONES AV	ALLEY
745	193930	4	UNK	unset	0	D14S	1248D5	14557	3543	PAUL JONES AV	ALLEY
746	316770	4	UNK	MANHOLE	130	D14S	1248D5	14557	3551	PAUL JONES AV	ALLEY
747	193860	4	UNK	unset	0	D14S	1248D5	14557	3551	PAUL JONES AV	ALLEY
748	316665	4	UNK	unset	0	D14S	1248D5	14557	3559	PAUL JONES AV	ALLEY
749	193648	4	UNK	MANHOLE	7	D14S	1248D5	14556	3560	PAUL JONES AV	
750	316606	4	UNK	unset	0	D14S	1248D5	14557	3567	PAUL JONES AV	ALLEY
751	193668	4	UNK	unset	0	D14S	1248D5	14557	3567	PAUL JONES AV	ALLEY
752	193528	4	UNK	MANHOLE	3	D14S	1248D5	14557	3581	PAUL JONES AV	ALLEY
753	316448	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14558	3585	PAUL JONES AV	ALLEY
754	316353	4	UNK	MANHOLE	88	D14S	1248D5	14558	3593	PAUL JONES AV	ALLEY
755	193215	4	UNK	MANHOLE	35	D14S	1248D5	14555	3596	PAUL JONES AV	
756	193380	4	UNK	MANHOLE	157	D14S	1248D5	14555	3596	PAUL JONES AV	
757	193018	4	UNK	MANHOLE	61	D14S	1248D5	14553	3606	PAUL JONES AV	ALLEY
758	316156	4	UNK	unset	0	D14S	1248D5	14559	3609	PAUL JONES AV	ALLEY
759	192975	4	UNK	MANHOLE	78	D14S	1248D5	14553	3612	PAUL JONES AV	ALLEY

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
760	315982	4	UNK	MANHOLE	15	D14S	1248D5	14553	3620	PAUL JONES AV	ALLEY
761	192247	4	UNK	unset	0	D14S	1248D5	14561	3655	PAUL JONES AV	ALLEY
762	315573	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14561	3665	PAUL JONES AV	ALLEY
763	191991	4	UNK	MANHOLE	125	D14S	1248D5	14561	3675	PAUL JONES AV	ALLEY
764	191945	4	UNK	MANHOLE	156	D14S	1248D5	14561	3683	PAUL JONES AV	ALLEY
765	315340	4	UNK	MANHOLE	35	D14S	1248D5	14549	3693	PAUL JONES AV	
766	194489	4	UNK	RGT OF LFT LL	5	D14S	1248D5	14588	3505	PRINCETON AV	
767	194420	4	UNK	MANHOLE	209	D14S	1248D5	14588	3515	PRINCETON AV	
768	194325	4	UNK	MANHOLE	161	D14S	1248D5	14588	3521	PRINCETON AV	
769	317019	4	UNK	MANHOLE	86	D14S	1248D5	14588	3529	PRINCETON AV	
770	194095	4	UNK	unset	0	D14S	1248D5	14588	3535	PRINCETON AV	
771	316957	4	UNK	MANHOLE	24	D14S	1248D5	14588	3535	PRINCETON AV	
772	316917	4	UNK	MANHOLE	13	D14S	1248D5	14588	3543	PRINCETON AV	
773	316832	4	UNK	RGT OF LFT LL	12	D14S	1248D5	14568	3552	PRINCETON AV	ALLEY
774	378547	4	UNK	unset	0	D14S	1248D5	14568	3552	PRINCETON AV	ALLEY
775	193892	4	UNK	MANHOLE	53	D14S	1248D5	14584	3553	PRINCETON AV	
776	316734	4	UNK	MANHOLE	98	D14S	1248D5	14584	3559	PRINCETON AV	
777	316698	4	UNK	MANHOLE	82	D14S	1248D5	14568	3560	PRINCETON AV	ALLEY
778	193658	4	UNK	MANHOLE	156	D14S	1248D5	14584	3567	PRINCETON AV	
779	193670	4	UNK	unset	0	D14S	1248D5	14568	3572	PRINCETON AV	
780	193547	4	UNK	unset	0	D14S	1248D5	14584	3575	PRINCETON AV	
781	316518	4	UNK	MANHOLE	52	D14S	1248D5	14568	3576	PRINCETON AV	ALLEY
782	193567	4	UNK	MANHOLE	83	D14S	1248D5	14568	3576	PRINCETON AV	ALLEY
783	193412	4	UNK	MANHOLE	52	D14S	1248D5	14584	3581	PRINCETON AV	
784	193370	4	UNK	MANHOLE	10	D14S	1248D5	14568	3586	PRINCETON AV	ALLEY
785	193382	4	UNK	MANHOLE	26	D14S	1248D5	14584	3587	PRINCETON AV	
786	193329	4	UNK	MANHOLE	9	D14S	1248D5	14568	3590	PRINCETON AV	ALLEY
787	316305	4	UNK	unset	0	D14S	1248D5	14581	3591	PRINCETON AV	
788	193303	4	UNK	MANHOLE	12	D14S	1248D5	14582	3591	PRINCETON AV	
789	193330	4	UNK	MANHOLE	17	D14S	1248D5	14568	3594	PRINCETON AV	ALLEY
790	193039	4	UNK	RGT OF LFT LL	7	D14S	1248D5	14579	3607	PRINCETON AV	
791	316263	4	UNK	unset	0	D14S	1248D5	14581	3607	PRINCETON AV	
792	193170	4	UNK	RGT OF LFT LL	10	D14S	1248D5	14581	3607	PRINCETON AV	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
793	193164	4	UNK	LFT OF RGT LL	34	D14S	1248D5	14580	3608	PRINCETON AV	
794	193004	4	UNK	MANHOLE	64	D14S	1248D5	14570	3612	PRINCETON AV	ALLEY
795	192966	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14579	3615	PRINCETON AV	
796	316044	4	UNK	MANHOLE	45	D14S	1248D5	14579	3624	PRINCETON AV	
797	192843	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14579	3625	PRINCETON AV	
798	315947	4	UNK	MANHOLE	33	D14S	1248D5	14571	3628	PRINCETON AV	ALLEY
799	192592	4	UNK	MANHOLE	65	D14S	1248D5	14578	3629	PRINCETON AV	
800	315938	4	UNK	LFT OF RGT LL	2	D14S	1248D5	14578	3629	PRINCETON AV	
801	315852	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14578	3639	PRINCETON AV	
802	192607	4	UNK	MANHOLE	84	D14S	1248D5	14571	3640	PRINCETON AV	ALLEY
803	315793	4	UNK	MANHOLE	70	D14S	1248D5	14571	3644	PRINCETON AV	ALLEY
804	315766	4	UNK	MANHOLE	45	D14S	1248D5	14571	3646	PRINCETON AV	ALLEY
805	192369	4	UNK	LFT OF RGT LL	5	D14S	1248D5	14571	3646	PRINCETON AV	ALLEY
806	192431	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14578	3647	PRINCETON AV	
807	315708	4	UNK	MANHOLE	26	D14S	1248D5	14578	3653	PRINCETON AV	
808	192287	4	UNK	MANHOLE	8	D14S	1248D5	14571	3654	PRINCETON AV	ALLEY
809	315643	4	UNK	MANHOLE	30	D14S	1248D5	14572	3660	PRINCETON AV	ALLEY
810	315651	4	UNK	MANHOLE	25	D14S	1248D5	14572	3660	PRINCETON AV	ALLEY
811	315660	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14577	3663	PRINCETON AV	
812	315616	4	UNK	LFT OF RGT LL	5	D14S	1248D5	14577	3669	PRINCETON AV	
813	315575	4	UNK	MANHOLE	69	D14S	1248D5	14572	3672	PRINCETON AV	ALLEY
814	192000	4	UNK	unset	0	D14S	1248D5	14572	3674	PRINCETON AV	ALLEY
815	191977	4	UNK	LFT OF RGT LL	5	D14S	1248D5	14577	3677	PRINCETON AV	
816	191895	4	UNK	MANHOLE	177	D14S	1248D5	14572	3682	PRINCETON AV	ALLEY
817	315410	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14577	3685	PRINCETON AV	
818	191831	4	UNK	unset	0	D14S	1248D5	14572	3692	PRINCETON AV	ALLEY
819	191896	4	UNK	LFT OF RGT LL	33	E14S	1248E5	18220	3612	SHAWNEE RD	
820	191731	4	UNK	RGT OF LFT LL	32	E14S	1248E5	18220	3620	SHAWNEE RD	
821	191686	4	UNK	RGT OF LFT LL	40	E14S	1248E5	18164	3627	SHAWNEE RD	
822	191596	4	UNK	LFT OF RGT LL	28	E14S	1248E5	18164	3628	SHAWNEE RD	
823	315181	4	UNK	LFT OF RGT LL	28	E13S	1248E5	18164	3636	SHAWNEE RD	
824	191498	4	UNK	unset	0	E13S	1248E5	18164	3636	SHAWNEE RD	
825	315205	4	UNK	LFT OF RGT LL	27	E13S	1248E5	18164	3639	SHAWNEE RD	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
826	315123	4	UNK	LFT OF RGT LL	33	E13S	1248E4	18164	3644	SHAWNEE RD	
827	191430	4	UNK	RGT OF LFT LL	34	E13S	1248E5	18164	3651	SHAWNEE RD	
828	191431	4	UNK	LFT OF RGT LL	27	E13S	1248E4	18164	3652	SHAWNEE RD	
829	316494	4	UNK	MANHOLE	31	D14S	1248E5	14651	3760	SIOUX AV	
830	188487	4	UNK	LFT OF RGT LL	17	E13S	1248E4	18194	3860	STACY AV	
831	312999	4	UNK	LFT OF RGT LL	52	E13S	1248E4	18194	3861	STACY AV	
832	188427	4	UNK	LFT OF RGT LL	34	E13S	1248E4	18194	3868	STACY AV	
833	313275	4	UNK	RGT OF LFT LL	35	E13S	1248E4	18192	4303	STACY AV	
834	313169	4	UNK	LFT OF RGT LL	41	E13S	1248E4	18192	4304	STACY AV	
835	188950	4	UNK	RGT OF LFT LL	28	E13S	1248E4	18192	4315	STACY AV	
836	188794	4	UNK	RGT OF LFT LL	32	E13S	1248E4	18192	4316	STACY AV	
837	313280	4	UNK	LFT OF RGT LL	40	E13S	1248E4	18192	4325	STACY AV	
838	313173	4	UNK	RGT OF LFT LL	24	E13S	1248E4	18192	4326	STACY AV	
839	189014	4	UNK	RGT OF LFT LL	29	E13S	1248E4	18192	4335	STACY AV	
840	188798	4	UNK	LFT OF RGT LL	32	E13S	1248E4	18192	4336	STACY AV	
841	188942	4	UNK	RGT OF LFT LL	18	E13S	1248F4	18192	4345	STACY AV	
842	188802	4	UNK	RGT OF LFT LL	14	E13S	1248F4	18192	4346	STACY AV	
843	188801	4	UNK	RGT OF LFT LL	7	E13S	1248F4	18192	4354	STACY AV	
844	317493	4	UNK	MANHOLE	50	D14S	1248D5	14590	3315	TICONDEROGA ST	
845	194658	4	UNK	MANHOLE	25	D14S	1248E5	14612	3598	TICONDEROGA ST	
846	194657	4	UNK	unset	0	D14S	1248E5	14612	3602	TICONDEROGA ST	
847	195002	4	UNK	RGT OF LFT LL	10	D14S	1248E5	14632	3763	TICONDEROGA ST	
848	194937	4	UNK	LFT OF RGT LL	10	D14S	1248E5	14632	3768	TICONDEROGA ST	
849	315857	4	UNK	MANHOLE	73	E14S	1248F5	18279	3552	TOMAHAWK LN	
850	315735	4	UNK	LFT OF RGT LL	41	E14S	1248F5	18272	3553	TOMAHAWK LN	
851	315713	4	UNK	MANHOLE	78	E14S	1248F5	18272	3560	TOMAHAWK LN	
852	192210	4	UNK	MANHOLE	41	E14S	1248F5	18272	3561	TOMAHAWK LN	
853	315619	4	UNK	LFT OF RGT LL	27	E14S	1248F5	18272	3568	TOMAHAWK LN	
854	192057	4	UNK	RGT OF LFT LL	27	E14S	1248F5	18271	3569	TOMAHAWK LN	
855	192049	4	UNK	LFT OF RGT LL	25	E14S	1248F5	18271	3576	TOMAHAWK LN	
856	315431	4	UNK	RGT OF LFT LL	25	E14S	1248F5	18271	3603	TOMAHAWK LN	
857	315444	4	UNK	LFT OF RGT LL	27	E14S	1248F5	18271	3604	TOMAHAWK LN	
858	191777	4	UNK	LFT OF RGT LL	31	E14S	1248F5	18271	3611	TOMAHAWK LN	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
859	191757	4	UNK	LFT OF RGT LL	27	E14S	1248F5	18271	3612	TOMAHAWK LN	
860	315256	4	UNK	LFT OF RGT LL	28	E14S	1248F5	18271	3619	TOMAHAWK LN	
861	315245	4	UNK	LFT OF RGT LL	28	E14S	1248F5	18271	3620	TOMAHAWK LN	
862	191503	4	UNK	LFT OF RGT LL	32	E13S	1248F5	18271	3627	TOMAHAWK LN	
863	191518	4	UNK	RGT OF LFT LL	25	E13S	1248F5	18271	3628	TOMAHAWK LN	
864	315083	4	UNK	LFT OF RGT LL	27	E13S	1248F4	18175	3635	TOMAHAWK LN	
865	191391	4	UNK	RGT OF LFT LL	27	E13S	1248F4	18175	3636	TOMAHAWK LN	
866	191233	4	UNK	LFT OF RGT LL	32	E13S	1248F4	18175	3643	TOMAHAWK LN	
867	191231	4	UNK	RGT OF LFT LL	31	E13S	1248F4	18175	3644	TOMAHAWK LN	
868	191118	4	UNK	LFT OF RGT LL	30	E13S	1248F4	18175	3651	TOMAHAWK LN	
869	191128	4	UNK	RGT OF LFT LL	27	E13S	1248F4	18175	3652	TOMAHAWK LN	
870	314774	4	UNK	LFT OF RGT LL	32	E13S	1248F4	18175	3659	TOMAHAWK LN	
871	191012	4	UNK	RGT OF LFT LL	25	E13S	1248F4	18175	3660	TOMAHAWK LN	
872	314702	4	UNK	LFT OF RGT LL	28	E13S	1248F4	18175	3667	TOMAHAWK LN	
873	190865	4	UNK	RGT OF LFT LL	27	E13S	1248F4	18175	3668	TOMAHAWK LN	
874	314627	4	UNK	RGT OF LFT LL	31	E13S	1248F4	18175	3703	TOMAHAWK LN	
875	190754	4	UNK	LFT OF RGT LL	28	E13S	1248F4	18175	3704	TOMAHAWK LN	
876	190634	4	UNK	LFT OF RGT LL	24	E13S	1248F4	18174	3711	TOMAHAWK LN	
877	190622	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18174	3712	TOMAHAWK LN	
878	314390	4	UNK	LFT OF RGT LL	29	E13S	1248F4	18174	3719	TOMAHAWK LN	
879	314370	4	UNK	RGT OF LFT LL	39	E13S	1248F4	18174	3720	TOMAHAWK LN	
880	190319	4	UNK	LFT OF RGT LL	47	E13S	1248F4	18174	3727	TOMAHAWK LN	
881	190343	4	UNK	RGT OF LFT LL	33	E13S	1248F4	18174	3728	TOMAHAWK LN	
882	190227	4	UNK	RGT OF LFT LL	32	E13S	1248F4	18174	3736	TOMAHAWK LN	
883	313923	4	UNK	LFT OF RGT LL	46	E13S	1248F4	18173	3759	TOMAHAWK LN	
884	189762	4	UNK	RGT OF LFT LL	47	E13S	1248F4	18173	3766	TOMAHAWK LN	
885	313849	4	UNK	LFT OF RGT LL	38	E13S	1248F4	18173	3767	TOMAHAWK LN	
886	313789	4	UNK	LFT OF RGT LL	29	E13S	1248F4	18173	3775	TOMAHAWK LN	
887	189661	4	UNK	LFT OF RGT LL	21	E13S	1248F4	18186	3780	TOMAHAWK LN	
888	189578	4	UNK	RGT OF LFT LL	41	E13S	1248F4	18186	3783	TOMAHAWK LN	
889	313687	4	UNK	RGT OF LFT LL	40	E13S	1248F4	18186	3789	TOMAHAWK LN	
890	313745	4	UNK	LFT OF RGT LL	38	E13S	1248F4	18186	3790	TOMAHAWK LN	
891	189416	4	UNK	RGT OF LFT LL	43	E13S	1248F4	18186	3795	TOMAHAWK LN	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
892	189319	4	UNK	RGT OF LFT LL	40	E13S	1248F4	18186	3803	TOMAHAWK LN	
893	189476	4	UNK	LFT OF RGT LL	21	E13S	1248F4	18186	3804	TOMAHAWK LN	
894	189226	4	UNK	RGT OF LFT LL	42	E13S	1248F4	18186	3809	TOMAHAWK LN	
895	313616	4	UNK	LFT OF RGT LL	30	E13S	1248F4	18186	3810	TOMAHAWK LN	
896	189120	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18187	3815	TOMAHAWK LN	
897	313560	4	UNK	LFT OF RGT LL	32	E13S	1248F4	18186	3816	TOMAHAWK LN	
898	189044	4	UNK	LFT OF RGT LL	25	E13S	1248F4	18187	3821	TOMAHAWK LN	
899	313479	4	UNK	LFT OF RGT LL	28	E13S	1248F4	18187	3822	TOMAHAWK LN	
900	313431	4	UNK	LFT OF RGT LL	35	E13S	1248F4	18187	3826	TOMAHAWK LN	
901	188916	4	UNK	LFT OF RGT LL	43	E13S	1248F4	18187	3827	TOMAHAWK LN	
902	313365	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18187	3832	TOMAHAWK LN	
903	188838	4	UNK	LFT OF RGT LL	28	E13S	1248F4	18187	3833	TOMAHAWK LN	
904	188947	4	UNK	RGT OF LFT LL	39	E13S	1248F4	18187	3836	TOMAHAWK LN	
905	313136	4	UNK	LFT OF RGT LL	30	E13S	1248F4	18187	3839	TOMAHAWK LN	
906	313225	4	UNK	LFT OF RGT LL	31	E13S	1248F4	18187	3840	TOMAHAWK LN	
907	188762	4	UNK	RGT OF LFT LL	35	E13S	1248F4	18197	3844	TOMAHAWK LN	
908	313082	4	UNK	LFT OF RGT LL	33	E13S	1248F4	18197	3845	TOMAHAWK LN	
909	188658	4	UNK	LFT OF RGT LL	29	E13S	1248F4	18197	3850	TOMAHAWK LN	
910	313035	4	UNK	LFT OF RGT LL	32	E13S	1248F4	18197	3851	TOMAHAWK LN	
911	188623	4	UNK	LFT OF RGT LL	48	E13S	1248F4	18196	3856	TOMAHAWK LN	
912	312986	4	UNK	LFT OF RGT LL	31	E13S	1248F4	18197	3857	TOMAHAWK LN	
913	188549	4	UNK	LFT OF RGT LL	35	E13S	1248F4	18196	3862	TOMAHAWK LN	
914	312964	4	UNK	RGT OF LFT LL	28	E13S	1248F4	18196	3863	TOMAHAWK LN	
915	312934	4	UNK	LFT OF RGT LL	27	E13S	1248F4	18196	3869	TOMAHAWK LN	
916	188522	4	UNK	LFT OF RGT LL	39	E13S	1248F4	18195	3874	TOMAHAWK LN	
917	188389	4	UNK	LFT OF RGT LL	25	E13S	1248F4	18196	3875	TOMAHAWK LN	
918	312879	4	UNK	LFT OF RGT LL	32	E13S	1248E4	18195	3881	TOMAHAWK LN	
919	312967	4	UNK	LFT OF RGT LL	28	E13S	1248E4	18195	3882	TOMAHAWK LN	
920	188373	4	UNK	LFT OF RGT LL	22	E13S	1248E4	18195	3885	TOMAHAWK LN	
921	188372	4	UNK	LFT OF RGT LL	23	E13S	1248E4	18195	3891	TOMAHAWK LN	
922	312977	4	UNK	LFT OF RGT LL	40	E13S	1248E4	18195	3892	TOMAHAWK LN	
923	188370	4	UNK	LFT OF RGT LL	25	E13S	1248E4	18195	3897	TOMAHAWK LN	
924	193682	4	UNK	MANHOLE	17	D14S	1248D5	14663	3570	TRENTON AV	ALLEY

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
925	193592	4	UNK	MANHOLE	49	D14S	1248D5	14663	3574	TRENTON AV	ALLEY
926	193507	4	UNK	MANHOLE	90	D14S	1248D5	14663	3574	TRENTON AV	ALLEY
927	316507	4	UNK	MANHOLE	99	D14S	1248D5	14663	3582	TRENTON AV	ALLEY
928	193379	4	UNK	MANHOLE	139	D14S	1248D5	14663	3586	TRENTON AV	ALLEY
929	193345	4	UNK	RGT OF LFT LL	30	D14S	1248D5	14664	3605	TRENTON AV	
930	316280	4	UNK	MANHOLE	91	D14S	1248D5	14664	3612	TRENTON AV	
931	193223	4	UNK	LFT OF RGT LL	14	D14S	1248E5	14659	3615	TRENTON AV	
932	192929	4	UNK	unset	0	D14S	1248D5	14659	3620	TRENTON AV	
933	192863	4	UNK	unset	0	D14S	1248D5	14659	3620	TRENTON AV	
934	193106	4	UNK	RGT OF LFT LL	42	D14S	1248E5	14659	3625	TRENTON AV	
935	315973	4	UNK	unset	0	D14S	1248D5	14659	3630	TRENTON AV	
936	316099	4	UNK	MANHOLE	19	D14S	1248E5	14654	3635	TRENTON AV	
937	315827	4	UNK	RGT OF LFT LL	7	D14S	1248D5	14658	3642	TRENTON AV	
938	315782	4	UNK	MANHOLE	92	D14S	1248D5	14658	3646	TRENTON AV	
939	5309205	4	ABS	LFT OF RGT LL	35	D14S	1248D5	14658	3652	TRENTON AV	
940	192337	4	UNK	RGT OF LFT LL	40	D14S	1248D5	14658	3665	TRENTON AV	
941	315592	4	UNK	LFT OF RGT LL	3	D14S	1248D5	14658	3670	TRENTON AV	
942	192187	4	UNK	LFT OF RGT LL	27	D14S	1248D5	14658	3675	TRENTON AV	
943	315514	4	UNK	RGT OF LFT LL	3	D14S	1248D5	14658	3678	TRENTON AV	
944	192040	4	UNK	LFT OF RGT LL	26	D14S	1248D5	14658	3685	TRENTON AV	
945	191857	4	UNK	LFT OF RGT LL	38	D14S	1248D5	14657	3695	TRENTON AV	
946	189235	4	UNK	LFT OF RGT LL	40	E13S	1248E4	18189	4304	UTE DR	
947	189239	4	UNK	LFT OF RGT LL	26	E13S	1248E4	18189	4314	UTE DR	
948	189241	4	UNK	LFT OF RGT LL	26	E13S	1248E4	18189	4324	UTE DR	
949	313513	4	UNK	RGT OF LFT LL	34	E13S	1248E4	18189	4334	UTE DR	
950	189244	4	UNK	RGT OF LFT LL	29	E13S	1248F4	18189	4344	UTE DR	
951	189609	4	UNK	LFT OF RGT LL	41	E13S	1248F4	18172	4444	UTE DR	
952	189685	4	UNK	RGT OF LFT LL	28	E13S	1248F4	18172	4454	UTE DR	
953	189742	4	UNK	LFT OF RGT LL	40	E13S	1248F4	18172	4462	UTE DR	
954	189823	4	UNK	LFT OF RGT LL	27	E13S	1248F4	18172	4470	UTE DR	
955	313931	4	UNK	LFT OF RGT LL	39	E13S	1248F4	18172	4478	UTE DR	
956	189943	4	UNK	LFT OF RGT LL	34	E13S	1248F4	18171	4486	UTE DR	
957	314044	4	UNK	LFT OF RGT LL	31	E13S	1248F4	18171	4494	UTE DR	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
958	193378	4	UNK	RGT OF LFT LL	27	D14S	1248E5	14636	3523	VIA BELTRAN	
959	316317	4	UNK	RGT OF LFT LL	29	D14S	1248E5	14636	3539	VIA BELTRAN	
960	193075	4	UNK	RGT OF LFT LL	48	D14S	1248E5	14637	3555	VIA BELTRAN	
961	192503	4	UNK	LFT OF RGT LL	30	D14S	1248E5	14654	3616	VIA DEL CONQUISTADOR	
962	315983	4	UNK	LFT OF RGT LL	27	D14S	1248E5	14654	3636	VIA DEL CONQUISTADOR	
963	316115	4	UNK	LFT OF RGT LL	37	D14S	1248E5	14654	3655	VIA DEL CONQUISTADOR	
964	316022	4	UNK	LFT OF RGT LL	30	D14S	1248E5	14654	3656	VIA DEL CONQUISTADOR	
965	316187	4	UNK	LFT OF RGT LL	43	D14S	1248E5	14654	3701	VIA DEL CONQUISTADOR	
966	316061	4	UNK	LFT OF RGT LL	29	D14S	1248E5	14654	3702	VIA DEL CONQUISTADOR	
967	316233	4	UNK	RGT OF LFT LL	31	D14S	1248E5	14654	3719	VIA DEL CONQUISTADOR	
968	192992	4	UNK	LFT OF RGT LL	24	D14S	1248E5	14647	3720	VIA DEL CONQUISTADOR	
969	316255	4	UNK	LFT OF RGT LL	29	D14S	1248E5	14647	3737	VIA DEL CONQUISTADOR	
970	193007	4	UNK	LFT OF RGT LL	33	D14S	1248E5	14647	3738	VIA DEL CONQUISTADOR	
971	193237	4	UNK	MANHOLE	76	D14S	1248E5	14651	3755	VIA DEL CONQUISTADOR	
972	193033	4	UNK	RGT OF LFT LL	41	D14S	1248E5	14647	3758	VIA DEL CONQUISTADOR	
973	316327	4	UNK	MANHOLE	73	D14S	1248E5	14651	3807	VIA DEL CONQUISTADOR	
974	316165	4	UNK	RGT OF LFT LL	35	D14S	1248E5	14649	3814	VIA DEL CONQUISTADOR	
975	193206	4	UNK	LFT OF RGT LL	26	D14S	1248E5	14649	3823	VIA DEL CONQUISTADOR	
976	316169	4	UNK	RGT OF LFT LL	34	D14S	1248E5	14649	3836	VIA DEL CONQUISTADOR	
977	193214	4	UNK	LFT OF RGT LL	26	D14S	1248E5	14649	3837	VIA DEL CONQUISTADOR	
978	193197	4	UNK	LFT OF RGT LL	29	D14S	1248E5	14649	3855	VIA DEL CONQUISTADOR	
979	316171	4	UNK	RGT OF LFT LL	31	D14S	1248E5	14649	3858	VIA DEL CONQUISTADOR	
980	193016	4	UNK	RGT OF LFT LL	46	D14S	1248E5	14637	3912	VIA DEL CONQUISTADOR	
981	316024	4	UNK	RGT OF LFT LL	33	D14S	1248E5	14637	3924	VIA DEL CONQUISTADOR	
982	192963	4	UNK	RGT OF LFT LL	29	D14S	1248E5	14637	3927	VIA DEL CONQUISTADOR	
983	192715	4	UNK	RGT OF LFT LL	31	D14S	1248E5	14637	3936	VIA DEL CONQUISTADOR	
984	192871	4	UNK	LFT OF RGT LL	30	D14S	1248E5	14637	3939	VIA DEL CONQUISTADOR	
985	192601	4	UNK	RGT OF LFT LL	29	D14S	1248E5	14637	3948	VIA DEL CONQUISTADOR	
986	192271	4	UNK	RGT OF LFT LL	15	D14S	1248E5	14802	3603	VISTA DE LA BAHIA	
987	315784	4	UNK	LOT LINE	35	D14S	1248E5	14802	3611	VISTA DE LA BAHIA	
988	192270	4	UNK	unset	0	D14S	1248E5	14643	3612	VISTA DE LA BAHIA	
989	192409	4	UNK	unset	0	D14S	1248E5	14643	3619	VISTA DE LA BAHIA	
990	192222	4	UNK	unset	0	D14S	1248E5	14643	3624	VISTA DE LA BAHIA	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
991	1130108	4	ABS	LFT OF RGT LL	15	D14S	1248E5	14643	3627	VISTA DE LA BAHIA	
992	192342	4	UNK	unset	0	D14S	1248E5	14643	3635	VISTA DE LA BAHIA	
993	192171	4	UNK	unset	0	D14S	1248E5	14643	3636	VISTA DE LA BAHIA	
994	315613	4	UNK	unset	0	D14S	1248E5	14642	3643	VISTA DE LA BAHIA	
995	315522	4	UNK	RGT OF LFT LL	36	D14S	1248E5	14642	3648	VISTA DE LA BAHIA	
996	192095	4	UNK	unset	0	D14S	1248E5	14642	3651	VISTA DE LA BAHIA	
997	191987	4	UNK	unset	0	D14S	1248E5	14642	3659	VISTA DE LA BAHIA	
998	191746	4	UNK	unset	0	D14S	1248E5	14642	3666	VISTA DE LA BAHIA	
999	315386	4	UNK	LFT OF RGT LL	19	D14S	1248E5	14642	3667	VISTA DE LA BAHIA	
1000	191687	4	UNK	LFT OF RGT LL	21	D14S	1248E5	14641	3675	VISTA DE LA BAHIA	
1001	191557	4	UNK	MANHOLE	29	D13S	1248E5	14641	3683	VISTA DE LA BAHIA	
1002	315248	4	UNK	unset	0	D13S	1248E5	14641	3684	VISTA DE LA BAHIA	
1003	315133	4	UNK	MANHOLE	62	D13S	1248E5	14334	3691	VISTA DE LA BAHIA	
1004	191508	4	UNK	unset	0	D13S	1248E5	14334	3694	VISTA DE LA BAHIA	
1005	190924	4	UNK	MANHOLE	15	D13S	1248E4	14337	3752	VISTA DE LA BAHIA	
1006	314618	4	UNK	LFT OF RGT LL	40	D13S	1248E4	14337	3757	VISTA DE LA BAHIA	
1007	314744	4	UNK	RGT OF LFT LL	39	D13S	1248E4	14338	3762	VISTA DE LA BAHIA	
1008	190745	4	UNK	LFT OF RGT LL	33	D13S	1248E4	14338	3767	VISTA DE LA BAHIA	
1009	314732	4	UNK	MANHOLE	38	D13S	1248E4	14338	3772	VISTA DE LA BAHIA	
1010	190760	4	UNK	RGT OF LFT LL	18	D13S	1248E4	14338	3777	VISTA DE LA BAHIA	
1011	190783	4	UNK	MANHOLE	100	D13S	1248E4	14338	3782	VISTA DE LA BAHIA	
1012	193276	4	UNK	LFT OF RGT LL	16	D14S	1248E5	14638	3520	VISTA DE LA ORILLA	
1013	193227	4	UNK	RGT OF LFT LL	25	D14S	1248E5	14638	3527	VISTA DE LA ORILLA	
1014	193189	4	UNK	LFT OF RGT LL	21	D14S	1248E5	14638	3540	VISTA DE LA ORILLA	
1015	193109	4	UNK	RGT OF LFT LL	18	D14S	1248E5	14638	3541	VISTA DE LA ORILLA	
1016	316113	4	UNK	RGT OF LFT LL	30	D14S	1248E5	14638	3555	VISTA DE LA ORILLA	
1017	316637	6	UNK	MANHOLE	50	E14S	1248F5	18276	3405	WACO ST	
1018	193552	4	UNK	RGT OF LFT LL	29	E14S	1248F5	18277	3503	WACO ST	
1019	316470	4	UNK	LFT OF RGT LL	27	E14S	1248F5	18277	3511	WACO ST	
1020	316369	4	UNK	LFT OF RGT LL	29	E14S	1248F5	18277	3519	WACO ST	
1021	315761	4	UNK	MANHOLE	38	E14S	1248F5	18280	3567	WACO ST	
1022	192215	4	UNK	RGT OF LFT LL	32	E14S	1248F5	18280	3575	WACO ST	
1023	192107	4	UNK	RGT OF LFT LL	33	E14S	1248F5	18280	3583	WACO ST	

No.	FSN L	SIZE	MATL	LOCATION	OFFSET FT	Fld Bk Pg	THOS BROS	MAIN FSN	ST NUM	ST NAME	ACCESS
1024	315474	4	UNK	RGT OF LFT LL	31	E14S	1248F5	18280	3603	WACO ST	
1025	191816	4	UNK	RGT OF LFT LL	27	E14S	1248F5	18280	3611	WACO ST	
	926	4"	UNK	Rehab							
	83	4"	UNK	Alley-TH Only							
	4	4"	ABS	Rehab							
	1	4"	ABS	Alley-TH Only							
	8	6"	UNK	Rehab							
	1	6"	PVC	Rehab							
	2	6	UNK	Alley-TH Only							
	1025										

APPENDIX P

TELEVISION INSPECTION REPORTS AND SAMPLE FORMAT, CODES

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	INSPECT-ION SEQ NUM	VIDEO FILE NAME	INSPECTION DATE	CAMERA OPERATOR	PRECIPITATION QTY	VIDEO DIRECTION TXT	STREET NM	SURFACE TYP TXT	UPSTREAM MH FLD BK PAGE NUM	UPSTREAM MH MAPID	UPSTREAM MH FLD BK GRID NUM	DSTRM MH FLD BK PAGE NUM	DSTRM MH FLD BK GRID NUM	DSTREAM MH MAPID	START FOOTAGE QTY	END FOOTAGE QTY	QC PERSON NAME	QC_DT
2	1	B12S-0327-B12S-0314-09090812.WMV	09-Aug-12	BRANDON WALK		US	RUTGERS		B12S	327		B12S		314	0			
3	2	B12S-0329-B12S-0327-09090812.WMV	09-Aug-12	BRANDON WALK		US	RUTGERS		B12S	329		B12S		327	0			
4	3	B12S-0332-B12S-0330-08090812.WMV	09-Aug-12	BRANDON WALK		US	PASEO BONITA		B12S	332		B12S		330	0			
5	4	B12S-0330-B12S-0329-08090812.WMV	09-Aug-12	BRANDON WALK		US	RUTGERS		B12S	330		B12S		329	0			
6	5	C21S-0363-C21S-0346-10150812.WMV	15-Aug-12	BRANDON WALK		US	GAGE DR		C21S	363		C21S		346	0			
7	6	C21S-0365-C21S-0364-09150812.WMV	15-Aug-12	BRANDON WALK		US	INEZ ST		C21S	365		C21S		364	0			
8	7	C21S-0367-C21S-0365-08150812.WMV	15-Aug-12	BRANDON WALK		US	INEZ ST		C21S	367		C21S		365	0			
9	8	C21S-0379-C21S-0374-10100812.WMV	10-Aug-12	BRANDON WALK		US	GAGE DR		C21S	379		C21S		374	0			
10	9	C21S-0374-C21S-0373-10100812.WMV	10-Aug-12	BRANDON WALK		US	GAGE DR		C21S	374		C21S		373	0			
11	10	C21S-0371-C21S-0362-08100812.WMV	10-Aug-12	BRANDON WALK		US	LOMA VALLEY		C21S	371		C21S		362	0			
12	11	C21S-0372-C21S-0371-09100812.WMV	10-Aug-12	BRANDON WALK		US	LOMA VALLEY		C21S	372		C21S		371	0			
13	12	C21S-0383-C21S-0374-09100812.WMV	10-Aug-12	BRANDON WALK		US	JENNINGS ST		C21S	383		C21S		374	0			
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
28																		
29																		

INSPECTION SEQ NUM	FAC SEQ NUM	LGTH QTY	DEPTH	JOINT SPACING NUM	INSD DIAM SIZE NUM	START FOOTAGE QTY	END FOOTAGE QTY	PIPE SEGMENT COMMENT	MATL_CD	REHAB
1	3539	233	0	0	8	0			RIBLC	LINED
2	3540	267	0	0	8	0			RIBLC	LINED
3	3543	305	0	0	8	0			RIBLC	LINED
4	3544	154	0	0	8	0			RIBLC	LINED
5	11052	333	0	0	8	0			NATIONAL LINER	LINED
6	11072	127	0	0	8	0			NATIONAL LINER	LINED
7	11074	219	0	0	8	0			NATIONAL LINER	LINED
8	11081	238	0	0	8	0			RIBLC	LINED
9	11082	215	0	0	8	0			RIBLC	LINED
10	11084	117	0	0	8	0			RIBLC	LINED
11	11085	147	0	0	8	0			NATIONAL LINER	LINED
12	11086	252	0	0	8	0			RIBLC	LINED

Sample Observation Codes and Access DB for Sewer Main Videos

INSPECTION SEQ NUM	FAC SEQ NUM	OBSERVATION SEQ NUM	OBSERVATION CD	FOOTAGE QTY	OBSERVATION COMMENT
1	3539	7586	FH-N	233	
1	3539	7581	ST-N	0	
1	3539	7582	CN-N	5	
1	3539	7583	CN-N	89	
1	3539	7585	CN-N	227	
1	3539	7584	CN-N	160	
2	3540	7592	CN-N	235	
2	3540	7593	CN-N	238	
2	3540	7591	CN-N	168	
2	3540	7590	CN-N	100	
2	3540	7589	CN-N	78	
2	3540	7588	CN-N	24	
2	3540	7587	ST-N	0	
2	3540	7594	FH-N	267	
3	3543	7595	ST-N	0	
3	3543	7596	CN-N	2	
3	3543	7597	CN-N	24	
3	3543	7598	CN-N	111	
3	3543	7599	FH-N	305	
4	3544	7604	CN-N	120	
4	3544	7601	CN-N	29	
4	3544	7600	ST-N	0	
4	3544	7602	CN-N	42	
4	3544	7605	FH-N	154	
4	3544	7603	CN-N	117	
5	11052	7610	CN-N	240	
5	11052	7611	CN-N	295	
5	11052	7609	CN-N	103	

1

Appendix P- Television Inspection Reports

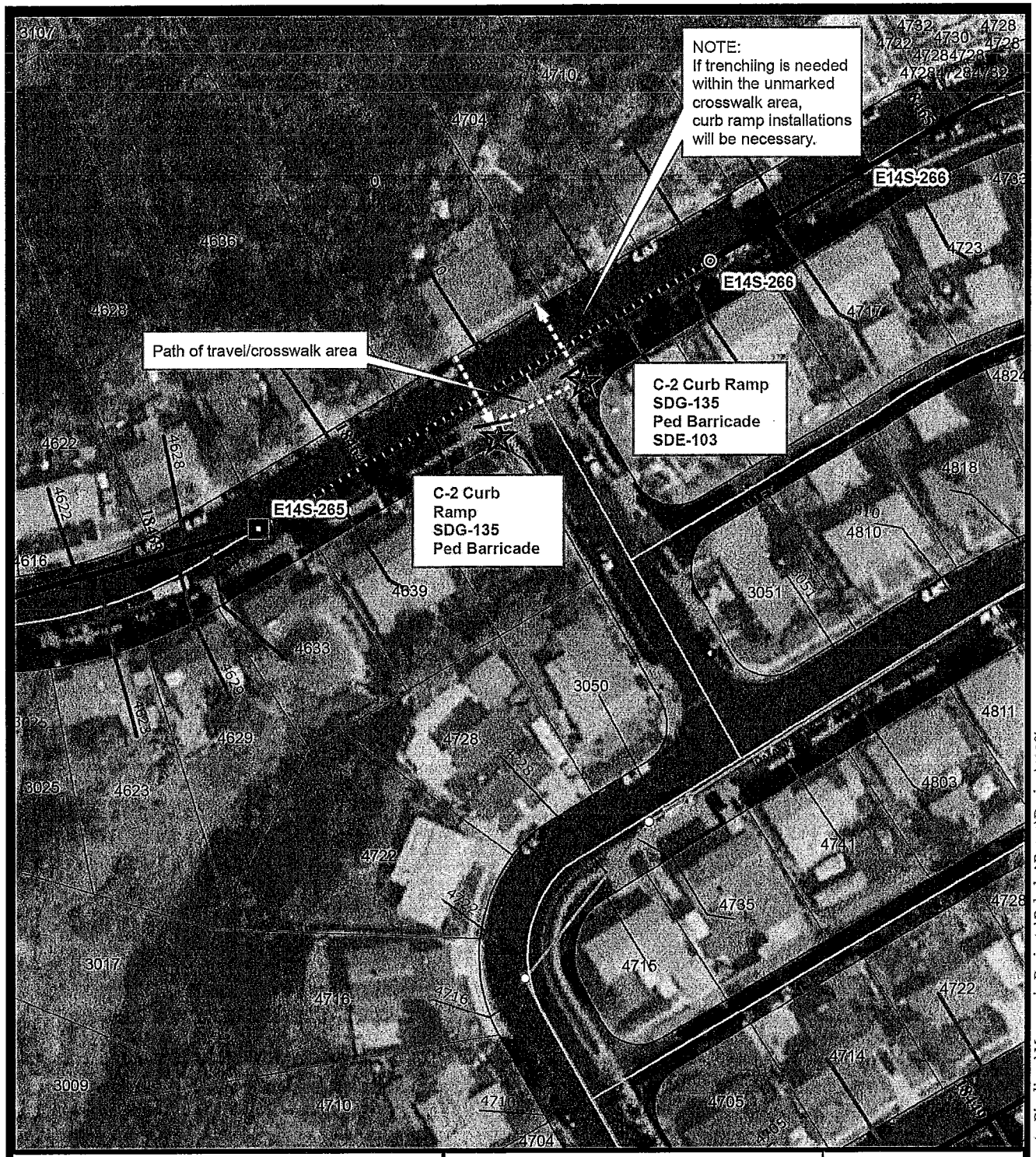
Sample of Still Image Codes and Access DB for Sewer Mains Video

INSPECTION SEQ NUM	FAC SEQ NUM	OBSERVATION SEQ NUM	ONLINE STORAGE FILE_NM	STILL IMAGE SEQ NUM
1	3539	7586	B12S-0329-B12S-0327-09090812.WMV	1

APPENDIX Q

MORATORIUMS

Street	Moritorium	Date START	Date END
Apache Av	Overlay	2/19/2015	2/19/2020
Dakota Dr	Overlay	2/19/2015	2/19/2020
Cheyenne Av	Overlay	2/19/2015	2/19/2020
Monican Av	Overlay	2/19/2015	2/19/2020
Fontana Av	Overlay	2/19/2015	2/19/2020
Blackfoot Av	Overlay	2/19/2015	2/19/2020
Geronimo Av	Overlay	2/19/2015	2/19/2020



Legend

Work to be Performed

- PR/Rehab Sewer Main
- Rehab Sewer Main
- Replace Sewer Main
- Mains 10 or deeper
- Inspect Manhole
- Rehab Manhole
- Repair Manhole
- Replace Manhole
- MHs 10 or deeper
- Install Cleanout
- New Manhole
- Laterals AE-1
- 2606 Clairmont Dr Site
- 500 ft Contamination Area
- 1000 ft Contamination Area
- Storm Drain Inlet
- Drain Pipe
- MHPA

SanGIS

N W E S

No Scale

The City of SAN DIEGO Public Works

Sewer Rehabilitation AE-1

POSSIBLE CURB RAMPS

Iroquois Av, Huron Av

CONTRACTOR:_____ DATE STARTED_____

INSPECTOR: _____DATE COMPLETED:_____

B-14030

Maryam Llaghat
ASSOCIATE ENGINEER

Lisa Canning
PROJECT ENGINEER

E15S
FLD BK PG
1248- 6F
THOS BROS

CURB RAMP-3

COUNCIL DISTRICT: 2

COMMUNITY NAME:CLAIREMONT MESA

S:\ROWD\ROWD-Section-4-WaterandWastewaterPipelines\Maryam's Projects\Rehab AE-1-1\Design\100%

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APPENDIX S

LINED TO DATE SAMPLE

No.	Lateral FSN	Street	Street Name	L CO	R METHOD DESC.	REHAB CONTRACTOR DESC.	REHAB MATERIAL VENDOR
1	*178196*	*6232*	*CALLE VERA CRUZ*		*NVERSION*	*EASY FLOW*	*RIBLOC*
2	*305711*	*6235*	*CALLE VERA CRUZ*				
3	*178072*	*6246*	*CALLE VERA CRUZ*				
4	*305579*	*6259*	*CALLE VERA CRUZ*				
5	*177977*	*6260*	*CALLE VERA CRUZ*				

APPENDIX T

CONSTRUCTION STORM WATER PROTECTION NOTES

CONSTRUCTION STORM WATER PROTECTION NOTES:

1. TOTAL SITE DISTURBANCE AREA (ACRES) _____
   HYDROLOGIC UNIT WATERSHED_____
   HYDROLOGIC SUBAREA NO._____

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
   ☐ WPCP
   THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100.

   ☐ SWPPP
   THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009 DWQ AS AMENDED BY ORDER 2010-0014 DWQ AND 2012-0006-DWQ.

   TRADITIONAL: RISK LEVEL 1☐ 2☐ 3☐
   LUP: RISK TYPE 1☐ 2☐ 3☐

3. CONSTRUCTION SITE PRIORITY:
   ☐ ASBS ☐ HIGH ☐ MEDIUM ☐ LOW

APPENDIX U

HAZARDOUS SITES

GLOBAL_ID	BUSINESS_N	STREET_NUM	STREET_NAM	CIT	NTIAL_	POTENTIAL1
T10000005334	TEXACO #128158	4409	MISSION BAY DR	SAN		
T0608154401	CLAIREMONT VILLAGE CLEANERS	3083	CLAIREMONT DR	SAN	rinated Hydrocarbons	Soil
T0607300823	WILDE SERVICE	3895	CLAIREMONT DR	SAN	ine	Soil
T0607302399	CLAIREMONT UNOCAL #641131170	2576	CLAIREMONT DR	SAN	ine	Soil
T0607300584	TUNE CRAFT #2	3904	CLAIREMONT DR	SAN	e Oil / Motor / Hydraulic / ating	Soil
T0607300585	TUNE CRAFT #2	3904	CLAIREMONT DR	SAN	ine	Other Groundwater (uses other than drinking water)
T10000000290	BAY VIEW PLAZA, FORMER EZ LUBE	2585	CLAIREMONT DR	SAN		
T0607301918	CHUCK UNOCAL #5585	3001	CLAIREMONT DR	SAN	ine	Soil
T0607301876	THOMAS & SONS AUTO CENTER	3034	CLAIREMONT DR	SAN		
T0607303083	WILDE SERVICE	3895	CLAIREMONT DR	SAN		
T0608124005	THOMAS & SONS AUTO CENTER	3034	CLAIREMONT DR	SAN		
T0607387436	SHELL OIL	3901	CLAIREMONT DR	SAN	ine	Other Groundwater (uses other than drinking water)
T0607302855	PRESTIGE STATIONS INC #9750	2505	MORENA BL	SAN	ine	Soil
T0607302227	SOUTH CLAIREMONT SHELL	2606	CLAIREMONT DR	SAN	ine	Other Groundwater (uses other than drinking water)
SLT19791500	CLAIREMONT VILLAGE CLEANERS	3083	CLAIREMONT DR	SAN	chloroethylene (PCE), oroethylene (TCE)	Soil, Soil Vapor, Under Investigation
T0608147258	THOMAS & SONS AUTO CENTER	3034	CLAIREMONT DR	SAN	ine	Under Investigation
T0607300590	CHUCK UNOCAL #5585	3001	CLAIREMONT DR	SAN		
T0607302771	SAN DIEGO GLASS & PAINT COMPAN	3020	CLAIREMONT DR	SAN	ine	Soil
T10000000448	FORMER TEXACO STATION	845	MORENA BL	San		
T0607300335	PACIFIC NISSAN	4433	MISSION BAY DR	SAN	e Oil / Motor / Hydraulic /	Soil
T0607303197	MARSTON MIDDLE SCHOOL	3799	CLAIREMONT DR	SAN	ng Oil / Fuel Oil	Soil
T10000002479	JOHN SANDOVAL	3337	MCGRAW	SAN		Contaminated Surface / Structure
T0607302349	PRESTIGE STATIONS INC #9750	2505	MORENA BL	SAN	ine	Other Groundwater (uses other than drinking water)
T06019770693	CLAIREMONT UNOCAL #641131170	2576	CLAIREMONT DR.	SAN	ine	Other Groundwater (uses other than drinking water), Soil

ATTACHMENT F

INTENTIONALLY LEFT BLANK

ATTACHMENT G

CONTRACT AGREEMENT

CONTRACT AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and Southwest Pipeline & Trenchless Corp., herein called "Contractor" for construction of **Sewer Pipeline Rehabilitation AE1**; Bid No. **K-17-1468-DBB-3**; in the amount of Four Million Three Hundred Ninety-Four Thousand Sixteen Dollars and 50/100 ($4,394,016.50), which is comprised of the Base Bid.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:

   (a) The attached Faithful Performance and Payment Bonds.

   (b) The attached Proposal included in the Bid documents by the Contractor.

   (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).

   (d) Phase Funding Schedule Agreement.

   (e) That certain documents entitled **Sewer Pipeline Rehabilitation AE1**, on file in the office of the Public Works Department as Document No. **B-14030**, as well as all matters referenced therein.

2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **Sewer Pipeline Rehabilitation AE1**; Bid No. **K-17-1468-DBB-3,** San Diego, California.

3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.

4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

5. This contract is effective as of the date that the Mayor or designee signs the agreement.

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code 22.3102 authorizing such execution.

THE CITY OF SAN DIEGO

By: _____
Stephen Samara
Principal Contract Specialist
Public Works Department

Date: 3-16-17

APPROVED AS TO FORM
Mara W. Elliott, City Attorney

By _____

Print Name: Pedro DeLara, Jr.
Deputy City Attorney

Date: 3/22/17

CONTRACTOR

By _____

Print Name: Justin Duchaineau

Title: President

Date: 1-24-2017

City of San Diego License No.: B2003006118

State Contractor's License No.: 773862-A

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000002176

CERTIFICATIONS AND FORMS

The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this bid are true and correct.

Bidder's General Information

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

This company_has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that;

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than $50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on the _____ DAY OF _____, 2_____ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

_____

(Name of Project or Task)

as particularly described in said contract and identified as Bid No. _____ ; SAP No. (WBS/IO/CC) _____; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

_____

_____

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

_____

_____

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

_____ Contractor

by

ATTEST:

State of _____ County of _____

On this_____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared_____ _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

BID ITEMS

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *****

TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY

SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION

Item No.	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
1.						$	$
2.						$	$
3.						$	$
4.						$	$
5.						$	$
6.						$	$
7.						$	$
8.						$	$
9.						$	$
10.						$	$
11.						$	$
12.						$	$

13.						N/A	$
						TOTAL BASE BID:	$

LIST OF SUBCONTRACTORS

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *****

TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY

SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City:_____ State:_____ Zip:_____ Phone:_____ Email: _____							
Name: _____ Address: _____ City:_____ State:_____							

Zip:_____ Phone:_____ Email: _____							

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC		
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

***** PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY *****

TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY

SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED②
Name:_____ Address:_____ City:_____ State:_____ Zip:_____ Phone:_____ Email:_____						
Name:_____ Address:_____ City:_____ State:_____ Zip:_____ Phone:_____ Email:_____						

① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE,SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone

	Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC		
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

ELECTRONICALLY SUBMITTED FORMS

THE FOLLOWING FORMS MUST BE SUBMITTED IN PDF FORMAT WITH BID SUBMISSION

The following forms are to be completed by the bidder and submitted (uploaded) electronically with the bid in PlanetBids.

A. **BID BOND – See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions**

B. **CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS**

C. **EQUAL BENEFITS ORDINANCE - CERTIFICATION OF COMPLIANCE**

Bids will not be accepted until ALL forms are submitted as part of the bid submittal

BID BOND

See Instructions to Bidders, Bidder Guarantee of Good Faith (Bid Security)

KNOW ALL MEN BY THESE PRESENTS,

That Southwest Pipeline and Trenchless Corp. as Principal, and

Liberty Mutual Insurance Company as Surety, are

held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled

Sewer Pipeline Rehabilitation AE-1 Bid No. K-17-1468-DBB-3

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 16th day of November, 2016

Southwest Pipeline and Trenchless Corp. (SEAL)

(Principal)

By: _____

(Signature)

Liberty Mutual Insurance Company (SEAL)

(Surety)

By: _____

Noemi Quiroz, Attorney-in-Fact

(Signature)

LIBERTY MUTUAL INSURANCE COMPANY INCORPORATED 1912 MASSACHUSETTS

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT — Civil Code § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
) ss
County of Los Angeles)

On NOV 16 2016, before me, Natalie K. Trofimoff, Notary Public, personally appeared Noemi Quiroz, who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~/are~~ subscribed to the within instrument and acknowledged to me that ~~he/~~she~~/they~~ executed the same in ~~his/~~her~~/their~~ authorized capacity~~(ies)~~, and that by ~~his/~~her~~/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

NATALIE K. TROFIMOFF
NOTARY PUBLIC - CALIFORNIA
LOS ANGELES COUNTY
COMMISSION # 2127860
MY COMM. EXPIRES OCT. 22, 2019

Signature: _____
Natalie K. Trofimoff, Notary Public

(Seal)

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees. To confirm the validity of this Power of Attorney call 610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Noemi Quiroz

of the city of Los Angeles, state of CA its true and lawful attorney-in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the following surety bond:

Principal Name: Southwest Pipeline and Trenchless Corp.

Obligee Name: City of San Diego

Surety Bond Number: Bid Bond **Bond Amount:** See Bond Form

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 26th day of September, 2016.

The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: _____
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 26th day of September, 2016, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2017
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 16th day of November, 2016.

By: _____
Renee C. Llewellyn, Assistant Secretary

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

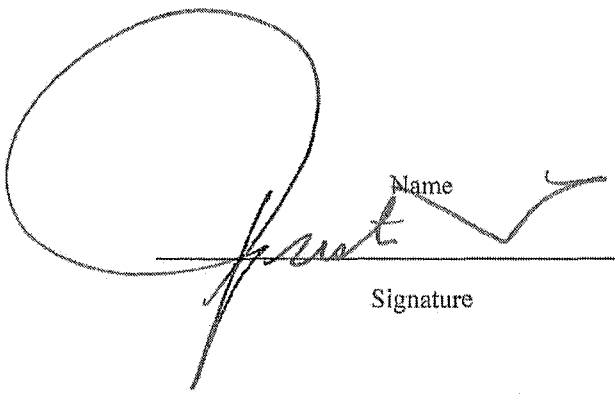
☒ The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

☐ The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Southwest Pipeline & Trenchless Corp.

Certified By Justin Duchaineau Title President



Name

Signature

Date 12-6-2016

USE ADDITIONAL FORMS AS NECESSARY

EQUAL BENEFITS ORDINANCE CERTIFICATION OF COMPLIANCE

For additional information, contact:
CITY OF SAN DIEGO
EQUAL BENEFITS PROGRAM
202 C Street, MS 9A, San Diego, CA 92101

COMPANY INFORMATION			
Company Name:	Southwest Pipeline & Trenchless Corp.	Contact Name:	J.Duchaineau
Company Address:	22118 S. Vermont Ave., Torrance, CA 90502	Contact Phone:	310-329-8717
		Contact Email:	justin@swpipeline.com

CONTRACT INFORMATION			
Contract Title:	Sewer Pipeline Rehabilitation AE1	Start Date:	
Contract Number (if no number, state location):	K-17-1468-DBB-3	End Date:	

SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at *www.sandiego.gov/administration.*

CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

☒ I affirm **compliance** with the EBO because my firm *(contractor must select one reason):*

☒ Provides equal benefits to spouses and domestic partners.

☐ Provides no benefits to spouses or domestic partners.

☐ Has no employees.

☐ Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.

☐ I request the City's approval to pay affected employees a cash equivalent in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

Justin Duchaineau- President		12-6-2016
Name/Title of Signatory	Signature	Date

FOR OFFICIAL CITY USE ONLY

Receipt Date:	EBO Analyst:	☐ Approved	☐ Not Approved – Reason:

Rev 02/15/2011

City of San Diego

CITY CONTACT: Clementina Giordano, **Contract Specialist, Email:** CGiordano@sandiego.gov
Phone No. (619) 533-3481, **Fax No.** (619) 533-3633

ADDENDUM "C"

e - Bidding **FOR**

SEWER PIPELINE REHABILITATION AE1

BID NO.:	**K-17-1468-DBB-3**
SAP NO. (WBS/IO/CC):	**B-14030**
CLIENT DEPARTMENT:	**2011**
COUNCIL DISTRICT:	**2**
PROJECT TYPE:	**JA**

BID DUE DATE:

2:00 PM
JANUARY 5, 2017
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

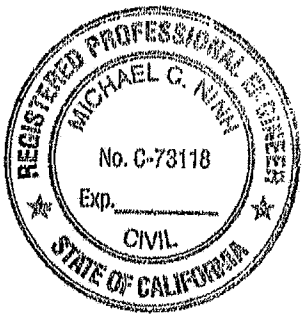
ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer

For City Engineer

12/9/16
Date

Seal



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. BIDDER's QUESTIONS

Q1. The Plan sheets outline manholes that are deeper than 10' and the appendix has plug depths and new manhole depths. The bid schedule calls for 47% of Lateral Cleanouts deeper than 7' depth to be installed. We would recommend the city dropping this percentage down to be more in line with previous bids/projects, 10-15% total for deeper.

A1. The number of Service Lateral Rehabilitation with Cleanout Up to 7 feet in Depth and the number of Service Lateral Rehabilitation with Cleanout Greater than 7 feet in Depth have been changed. Refer to Item C Additional Changes of this Addendum.

C. ADDITIONAL CHANGES

For clarity where applicable, **ADDITIONS**, if any, have been **Underlined** and **DELETIONS**, if any, have been ~~**Stricken out**~~

1. The following are changes in the **Line Items Tab** in **PlanetBids**:

	Item Code	Type	Item Description	UOM	QTY	Reference	Unit Price
Main Bid		~~II~~	Field Orders (EOC Type II)	AL	~~1~~	9-3.5	~~275000~~ 319700
Main Bid	237110		Manholes (4 ft x 3 ft) Replace in Place	EA	7	237110	
Main Bid	237110		Service Lateral Rehabilitation Cleanout Up to 7 feet in Depth	EA	~~539~~ 871	500-1.6.6	
Main Bid	237110		Service Lateral Rehabilitation Cleanout Greater than 7 feet in Depth	EA	~~486~~ 154	500-1.6.6	

James Nagelvoort, Director
Public Works Department

Dated: *December 9, 2016*
San Diego, California

JN/AJ/mlw

City of San Diego

CITY CONTACT: Clementina Giordano, **Contract Specialist, Email:** CGiordano@sandiego.gov
Phone No. (619) 533-3481, **Fax No.** (619) 533-3633

ADDENDUM "B"

e - Bidding **FOR**

SEWER PIPELINE REHABILITATION AE1

BID NO.:	**K-17-1468-DBB-3**
SAP NO. (WBS/IO/CC):	**B-14030**
CLIENT DEPARTMENT:	**2011**
COUNCIL DISTRICT:	**2**
PROJECT TYPE:	**JA**

BID DUE DATE:

2:00 PM
JANUARY 5, 2017
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE**

James Nagelvoort, Director
Public Works Department

Dated: *December 7, 2016*
San Diego, California

JN/AJ/mlw

City of San Diego

CITY CONTACT: Clementina Giordano, **Contract Specialist, Email:** CGiordano@sandiego.gov
Phone No. (619) 533-3481, **Fax No.** (619) 533-3633

ADDENDUM "A"

e - Bidding **FOR**

SEWER PIPELINE REHABILITATION AE1

BID NO.:	**K-17-1468-DBB-3**
SAP NO. (WBS/IO/CC):	**B-14030**
CLIENT DEPARTMENT:	**2011**
COUNCIL DISTRICT:	**2**
PROJECT TYPE:	**JA**

BID DUE DATE:

2:00 PM
DECEMBER 8, 2016
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTS
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. BIDDER's QUESTIONS

Q1. Does the project include the upper sewer lateral which lies on the homeowner's private property? That is, the project description scope of services covers "rehab of existing sewer laterals and cleanouts at the property line"... it doesn't really address whether the ultimate winning contractor is rehabbing the full lateral or just the lower portion on the city property.

A1. The laterals rehabilitation will be from the main up to cleanout at property lines. Beyond the cleanout is the property owners' responsibility.

Q2. The Plan sheets outline manholes that are deeper than 10' and the appendix has plug depths and new manhole depths. The bid schedule calles for 47% of Lateral Clanouts deeper than 7' depth to be installed. We would recommend the city dropping this percentage down to be more in line with previous bids/projects, 10-15% total for deeper.

We would like to request that the Prime Contractor Minimum be lowered to 25-30%, from the existing 50%, as is usual on these projects, as there are many different subcontractor trades.

A2. We do not see any reason to waive the self-performing to below 50%. Usually, this is for projects that have a lot of specialty work like coating, pumps or machinery that are really expensive to be completed by specialized subcontractors. This project would not qualify. Bid the project as is.

James Nagelvoort, Director
Public Works Department

Dated: *November 28, 2016*
San Diego, California

JN/AJ/mlw

Bid Results for Project Sewer Pipeline Rehabilitation AE1 (K-17-1468-DBB-3)

Issued on 11/15/2016

Bid Due on January 5, 2017 2:00 PM (Pacific)

Exported on 01/05/2017

VendorID	Company Name	Address	City	State	ZipCode	Country	Contact	Phone	Fax	Email	Vendor Type
302463	Southwest Pipeline and Trenchless Corp.	22118 S. Vermont Avenue	Torrance		90502	United States	Justin Duchaineau	310-329-8717 ext. 103	310-329-0981	justin@swpipeline.com	CADIR,PQUAL

Respondee	Respondee Title	Respondee Phone	Respondee Email
Justin Duchaineau	President	310-329-8717 ext. 104	justin@swpipeline.com

Attachments

File Title	File Name	File Type
Bid Bond	Bid Bond.pdf	General Attachments
Contractor's Certification	Contractor's Certification.pdf	General Attachments
Equal Benefits Ordinance	Equal Benefits Ordinance.pdf	General Attachments

Line Items

Item Num	Section	Item Code	Description	Unit of Measure	Quantity	Unit Price	Line Total	Comment
1	Main Bid	524126	Bonds (Payment and Performance)	LS	1	$35,000.00	$35,000.00	
2	Main Bid	238990	Video Recording of Existing Conditions	LS	1	$1,000.00	$1,000.00	
3	Main Bid	541330	Traffic Control Design (Working Drawings and Engineered Traffic Control Plans)	LS	1	$5,000.00	$5,000.00	
4	Main Bid	237310	Traffic Control	LS	1	$5,000.00	$5,000.00	
5	Main Bid	237110	Mobilization	LS	1	$10,000.00	$10,000.00	
6	Main Bid		Field Orders - Type II	AL	1	$319,700.00	$319,700.00	
7	Main Bid	237310	Asphalt Pavement Repair	TON	115	$100.00	$11,500.00	
8	Main Bid	237310	Rubber Polymer Modified Slurry Type I over III and Stripping	SF	69000	$0.64	$44,160.00	
9	Main Bid	237310	Pavement Restoration Adjacent to Trench	SF	5000	$1.00	$5,000.00	
10	Main Bid	237310	1-1/2 Inch Asphalt Concrete Overlay and Striping	TON	275	$100.00	$27,500.00	
11	Main Bid	237310	Concrete Pavement	CY	100	$120.00	$12,000.00	
12	Main Bid	237310	Additional Curb & Gutter Removal and Replacement	LF	200	$42.00	$8,400.00	
13	Main Bid	238990	Crack Seal	LB	120	$49.00	$5,880.00	
14	Main Bid	237310	Additional Sidewalk Removal and Replacement	SF	50	$9.00	$450.00	
15	Main Bid	237310	Curb Ramp Type B with Stainless Steel Detectable Warning Tiles	EA	2	$3,000.00	$6,000.00	
16	Main Bid	237310	Curb Ramp Type C-1 with Stainless Steel Detectable Warning Tiles	EA	4	$3,100.00	$12,400.00	
17	Main Bid	237310	Curb Ramp Type C-2 with Stainless Steel Detecable Warning Tiles	EA	2	$3,150.00	$6,300.00	
18	Main Bid	237310	Pedestrian Baricade	EA	4	$500.00	$2,000.00	
19	Main Bid	237110	Trench Shoring	LS	1	$1,000.00	$1,000.00	

20	Main Bid	237110	Additional Bedding	CY	20	$20.00	$400.00						
21	Main Bid	237310	Temporary Resurfacing	TON	50	$1.00	$50.00						
22	Main Bid	237110	Imported Backfill For Trench	TON	50	$20.00	$1,000.00						
23	Main Bid	238990	Preparation of Hazardous Waste Management Plan and Reporting	LS	1	$5,000.00	$5,000.00						
24	Main Bid	541690	Monitoring of Contaminated Soil	HR	20	$95.00	$1,900.00						
25	Main Bid	238990	Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil	TON	1	$500.00	$500.00						
26	Main Bid	238990	Loading, Transportation, and disposal of Petroleum Contaminated Soil	TON	1	$1,500.00	$1,500.00						
27	Main Bid	541330	Water Pollution Control Plan Development	LS	1	$500.00	$500.00						
28	Main Bid	237990	Water Pollution Control Plan Implementation	LS	1	$500.00	$500.00						
29	Main Bid	237110	Sewage Bypass and Pumping Plan (Diversion Plan)	LS	1	$3,000.00	$3,000.00						
30	Main Bid	237310	Removal and Replacement of Traffic Striping and Curb Markings	LF	60	$2.00	$120.00						
31	Main Bid	237310	Removal of and Replacement of Pavement Markings	SF	25	$4.00	$100.00						
32	Main Bid	237110	Video Inspecting Pipelines and Culverts for Acceptance	LF	45572	$0.65	$29,621.80						
33	Main Bid	237110	Cleaning and Video Inspecting Pipelines and Culverts	LF	45572	$0.35	$15,950.20						
34	Main Bid	237110	Sewer Main Cleanout	EA	38	$4,500.00	$171,000.00						
35	Main Bid	237110	Rehabilitate 8-Inch Sewer Main	LF	44797	$20.50	$918,338.50						
36	Main Bid	237110	Rehabiltate 10-Inch Sewer Main	LF	404	$24.00	$9,696.00						
37	Main Bid	237110	Point Repair for Existing 8-Inch Sewer Main	EA	31	$2,500.00	$77,500.00						
38	Main Bid	237110	Additional Point Repair for Existing 8-Inch Sewer Main	LF	100	$50.00	$5,000.00						
39	Main Bid	237110	Manholes (4 ft x 3 ft) Replace in Place	EA	7	$10,000.00	$70,000.00						
40	Main Bid	237110	Rehabilitate Existing Manhole	EA	37	$1,490.00	$55,130.00						
41	Main Bid	237110	Manholes to be repaired	EA	6	$1,490.00	$8,940.00						
42	Main Bid	237110	New Manholes	EA	2	$9,000.00	$18,000.00						
43	Main Bid	237110	Replace-in-place 8-Inch Sewer Main	LF	371	$250.00	$92,750.00						
44	Main Bid	237110	Connection to Existing Manhole and Rechanneling	EA	13	$100.00	$1,300.00						
45	Main Bid	237110	Sewer Lateral and Cleanout	EA	13	$2,500.00	$32,500.00						
46	Main Bid	237110	Cleaning and Video Inspection of Existing Laterals	EA	1025	$30.00	$30,750.00						
47	Main Bid	237110	Service Lateral Connection & Sealing	EA	1025	$700.00	$717,500.00						
48	Main Bid	237110	Service Lateral Rehabilitation with Cleanout Up to 7 feet in Depth	EA	871	$1,530.00	$1,332,630.00						

49	Main Bid	237110	Service Lateral Rehabilitation with Cleanout Greater than 7 feet in Depth	EA	154	$1,575.00	$242,550.00						
50	Main Bid	237110	Point Repair for Existing Sewer Lateral	EA	16	$2,000.00	$32,000.00						
						Subtotal	**$4,394,016.50**						
						Total	**$4,394,016.50**						

Subcontractors

Name	Description	License Num	Amount	Type	Address		City	State	ZipCode	Country		
American Asphalt South, Inc.	Slurry Seal and Crack Seal	784969	$49,423.50	CAU,MALE,PQUAL,CADIR	PO Box 310036	14436 Santa Ana Ave	Fontana		92331	United States		
Easy Flow	Clean and CCTV, Lateral Rehab, Lateral Cleanout Partial	960845	$1,427,929.00	CADIR,CAU,ELBE,MALE	14275 Crystal View Lane		Poway		92064	United States		
Piperin Corporation	Mainline Open Cut, Lateral Cleanouts Partial	964028	$599,675.00	ELBE,PQUAL,CADIR	1185 Park Center Drive	Suite S	Vista		92081	United States		
National Coating & Lining	Manhole Rehab	886430	$64,070.00		26713 Madison Ave		Murrietta		92562	United States		
MIRAMAR GENERAL ENGINEERING	Curb and Gutter, Sidewalk Remove and Replace, Curb Ramps	1009541	$33,550.00	ELBE,PQUAL	8400 Miramar Rd	Suite 222A	San Diego		92126	United States		
		Self-Performance - 50.50 %										