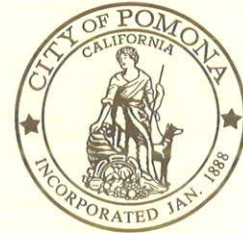


THE CITY OF POMONA

Water Operations



April 25, 2017

TO: All Bidders

RE: ADDENDUM NO. 1 for Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022

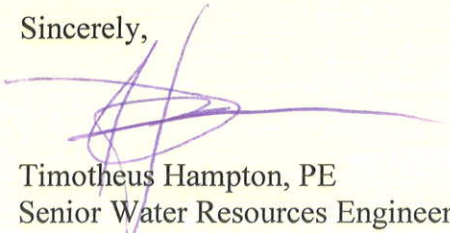
Bid Opening: May 17, 2017 11:00 PM

The attached Addendum (192 pages) revises the Contract Documents:

Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022

Please incorporate the revision in your bid document and return the acknowledgment of the Addendum 1 of the Proposal. Failure to acknowledge receipt of this Addendum may result in rejection of your bid.

Sincerely,



Timotheus Hampton, PE
Senior Water Resources Engineer

Attachments

cc: File

ADDENDUM NO. 1

CITY OF POMONA PUBLIC WORKS DEPARTMENT

Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022

The following change shall be made part of the Contract Document for:

Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022

The Bidder shall acknowledge the Confirmation of Receipt of Addendum No. 1 for the subject project.

CONTRACTOR QUESTIONS:

1. How do I obtain a copy of City of Pomona Standard Specifications dated January 11, 2006 of that is referenced in Technical Provision Section No. 02221?
 - A. This document is no longer applicable; and the reference is deleted from the Contract Documents.
2. Can native soil be used for backfill?
 - A. Native soil cannot be used for backfill for sewer replacements located in primary and secondary arterials as noted on City Standard A-26-02; native soil can be used in all other street types in accordance with Technical Provision Section 02221.
3. Did the City prepare a Soils Report for this Project?
 - A. No
4. What type of V.C.P. is being called out, Band Seal or Bell & Siphon?
 - A. As specified in Technical Provision Section 15069 –VITRIFIED CLAY PIPE: ‘Use plain end pipes with shear rings as per with 306-1.2.3 (Type D Joint) for all point repairs and facility replacements’.
5. Is C.M.B or C.A.B. required for trench backfill below Asphalt, what thickness?
 - A. Trench Backfill requirement for the Project are noted on City Standard A-26-02.
6. Is it required to install marking tape 12" above pipe zone for both Point Repairs and Manhole to Manhole Construction?
 - A. Both; the marking tape shall be installed the limit of the excavation for point repairs.
7. How do we determine road classification (primary and secondary arterials) to determine work hours, traffic plan requirements and trench backfill requirements?
 - A. The work hours, traffic plan requirements and trench backfill requirements for each replacement location has been added to the Sewer Summary Sheets based on the City’s Road Classification System.
8. Bid Item # 7 is calling out for 1,000 C.Y. Imported Backfill, what type of backfill C.M.B or C.A.B. or Native or Slurry?
 - A. This bid item is deleted; please see answers to the related questions above.
9. How do you determine the depth of the sewer main line?
 - A. The depth of sewer mains (difference between rim and invert) are shown on most of the sewer data sheet. If not shown assume that the sewer main is eight (8) feet deep.

CONTRACT SPECIFICATIONS:

1. The NISB (Pages A1-A4) of the Contract Documents is revised as attached.
2. Pages B-3, C-2, -C-3 and C-5 of the Contract Documents is revised as attached.
3. Technical Provision Section 01010 SUMMARY OF WORK of the Contract Documents is revised as attached.
4. Technical Provision Section 01039 – COORDINATION AND MEETINGS is revised as attached.
5. Technical Provision Section 01115 – CONSTRUCTION SEQUENCE is revised as attached.
6. Technical Provision Section 01170 – SPECIAL TECHNICAL PROVISIONS is revised as attached.
7. Technical Provision Section 01310 – CONSTRUCTION PROGRESS SCHEDULE is revised as attached.
8. Technical Provision Section 01700 – PROJECT CLOSE-OUT is revised as attached.
9. Technical Provision Section 02700 – PAVING AND SURFACING is revised as attached.
10. The PIPE SUMMARY of the Contract Documents is revised as attached.
11. A Manhole Summary sheet is added to the Contract Documents as attached.
12. Additional Sewer Data Sheets are added to the Contract Documents as attached.
13. Atlas Sheets are added to the Contract Documents as attached.

*****END ADDENDUM NO. 1 *****

**CITY OF POMONA
NOTICE INVITING SEALED BIDS
FOR**

Sewer Pipeline Replacement – Citywide (Phase IV)

PROJECT NO. 586-86022

RECEIPT OF PROPOSALS: Sealed proposals will be received at the City Clerk’s Office, City Hall, Pomona, California, until **11:00 AM on May 17, 2017** for the furnishing of all plant, labor, materials, equipment and incidentals for the: **“Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022.”** It is the bidder's sole responsibility to see that the proposal is received in proper time. Any proposal received after the scheduled closing time for receipt of proposals will be returned to the bidder unopened.

The words **“Bid: Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022,”** to be opened on **11:00 AM, May 17, 2017** shall appear on the envelope of each sealed bid and each sealed envelope shall be addressed to the City Clerk Department, City Hall, 505 S. Garey Avenue, Pomona, California 91769. The proposals will be publicly opened and read in the City Clerk Department, City Hall, 505 S. Garey Avenue, Pomona, California at **11:00 AM** on the aforementioned date.

Submittal Instructions:

Proposals shall be submitted in sealed envelopes and marked **“Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022.”** One (1) original and one (1) hard copy of your proposal must be received in the City Clerk’s Office before the time of **11:00 AM on May 17, 2017**. Any proposal that is to be mailed via the US Mail is to be addressed to City of Pomona, City Clerk Department, P.O. Box 660, 505 South Garey Ave., Pomona, CA 91769. Any proposal that is to be submitted via hand delivery either through FedEx, UPS, or some other carrier service is to be submitted to City of Pomona, City Clerk Department, 505 South Garey Ave., Pomona, CA 91766. The above time and date are fixed and extensions will not be granted. The City of Pomona does not recognize the U.S. Postal Service, FedEx, UPS or any other carrier as its agent for purposes of receiving proposals. All proposals received after the deadline shown will be rejected.

DESCRIPTION OF WORK: The work to be done consists of furnishing all materials, equipment, tools, labor and incidentals as required in the specifications and contract documents, for the following project(s): **“Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022.”**

The Engineer’s Estimate of Probable Cost is \$3,000,000.

COMPLETION OF WORK: All work to be done under this contract shall be completed within **ninety (90) consecutive working days**, beginning on the date stipulated in the written "Final Notice to Proceed" issued by the City Engineer.

OBTAINING CONTRACT DOCUMENTS: Contract documents and specifications may be obtained at the office of the City Engineer, City Hall, Pomona, California, upon payment of **\$30.00** for each set (NON-REFUNDABLE). Add **\$15.00**, if mailing is requested.

PRE-BID INQUIRIES: Pre-Bid inquiries related to the Plans and Specifications must be submitted in writing to the City of Pomona, Water/Wastewater Operations Department-Engineering Division, via email: Tim_Hampton@ci.pomona.ca.us.

The last day for questions is May 3, 2017.

The contractor shall carefully examine this Contract and Specifications and any addenda that may be posted on the City's website www.ci.pomona.ca.us. The contractor shall seek clarification of any ambiguity, conflict, omission or other error in this document in writing. If the answer materially affects this document, the information will be incorporated into an addendum and distributed to all vendors via the City's website. All addenda will be numbered in sequence, dated as of the date of issue, and posted. It shall be the contractor's responsibility to check the City's website to determine if any addenda have been posted prior to the bid opening

To check for addenda:

Visit the City's website at www.ci.pomona.ca.us and then:

- From the City Homepage, click on "Business";
- Click on "Request for Bids and Proposals"; "Construction Bids";
- Download the RFP file or Addendum file, if applicable

If you encounter any technical problems, call the Public Works Dept., Engineering at - (909) 620-2281 or (909) 620-2282.

PROPOSAL GUARANTY: Each proposal must be accompanied by cash or by a cashier's or certified check or by a bid bond in the amount of **ten percent (10%)** of the amount of bid price payable to the City Clerk City of Pomona as a guarantee that the bidder, if his proposal is accepted, will promptly execute the contract, secure payment of workman's compensation insurance and furnish a satisfactory faithful performance bond in the amount of **one hundred percent (100%)** of the total bid price and a labor and material bond in the amount of **one hundred percent (100%)** of the total bid price.

WAGE RATES: Pursuant to applicable provisions of the Labor Code of the State of California, not less than the general prevailing rate of per diem wages including legal holidays, and overtime work for each craft or type of workman needed to execute the work contemplated under this agreement shall be paid to all workman employed on the work to be done according to this contract by the Contractor, or any Subcontractor and shall be deemed to include employer payments for health and welfare, pension, vacation and similar purposes. The City Engineer has on file the prevailing rate of per diem wages or they may be obtained online at <http://www.dir.ca.gov/dlsr>. Contractor will furnish same to be posted at the job site.

CONTRACTOR'S LICENSE: At the time of Bid Opening, the Prime Contractor **must** have a valid California State Contractor's License with a classification of "**A**".

AFFIRMATIVE ACTION: The City of Pomona hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority owned and woman owned business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of sex, race, color, or national origin in consideration for an award.

UTILIZATION OF LOCAL BUSINESS AND LABOR: The Contractor is encouraged to make a good faith effort to subcontract with businesses located in the City of Pomona and to employ Pomona residents to perform the necessary work relating to this Capital Improvement Project. The goal of the City Council is to stimulate business within the City and to provide employment and training for local residents.

UTILIZATION OF AT-RISK YOUTH: The Contractor is encouraged to make a good faith effort to

subcontract with City identified Youth training Center to provide local youth in conformance with the Los Angeles County Regional Park and Open Space District's (District) definition of "at-risk youth." Where feasible, the City will require project contractors to utilize "at-risk youth" as part of the project team. No goal for hiring of "at-risk youth" has been established.

CITY'S RIGHTS RESERVED: The City of Pomona reserves the right to reject any and all proposals or bids or to waive any irregularities or informalities in any bids or in the bidding, should it deem this necessary for the public good, and further the city reserves the right to reject the bid any bidder who has been delinquent or unfaithful in any former contract with the City of Pomona. No bidder may withdraw his bid for a period of Ninety (90) calendar days after the opening of proposal thereof.

TRENCH AND PIPELINE SAFETY: If this project requires construction of a pipeline, sewer, sewage disposal system, boring and jacking pits, or similar trenches or open excavations, which are five feet or deeper, the bids must contain, as a bid item, adequate sheeting, shoring, and bracing, or other methods to assure worker safety.

ENVIRONMENTALLY SENSITIVE MATERIALS:

This Invitation for Bids **does not** specify locations of possible materials, such as a borrow pit or gravel bed, for use in the proposed construction project which would be subject to Section 1603 of the Fish and Game Code.

This Invitation for Bids **does** specify locations of possible materials, such as a borrow pit or gravel bed, for use in the proposed construction project and is subject to the following conditions imposed pursuant to Section 1603 of the Fish and Game Code:

PRE-BID MEETING:

A mandatory pre-bid meeting will be held at _____ M on _____, 20_____.

No mandatory pre-bid meeting is required. The contractor has the responsibility to inspect the site and acquaint himself/herself with the existing conditions before submitting a bid proposal. The project site is located at the southeast corner of Val Vista Street and Loma Vista Street.

Bond Requirements: The successful contractor will be required to file with the City at the time of execution of the contract, a Payment Bond (Labor and Materials Bond) in the amount of 100% of the bid amount and a Performance Security in the amount of 100% of the bid amount. Prior to acceptance of the work by the City, the contractor will be required to file a Warranty Security in the amount of 50% of the bid amount with the City. All bonds and securities must be on City provided forms.

Minimum Qualifying Experience: The City has established the successfully completion of three (3) projects consisting of the installation of at least 5,000 linear-feet of sewer mainline as the minimum qualifying experience for this Project. The three projects must have been completed within five (5) years from May 17, 2017. The three projects shall be listed in Contractors' Qualifying Experience Information Sheet.

Equivalent Securities: Pursuant to California Public Contract Code Section 22300, substitution of eligible and equivalent securities for any moneys withheld to ensure performance under the contract for the work to be performed will be permitted at the request and expense of the successful bidder.

CITY OF POMONA, CALIFORNIA

DATED: _____

BY: _____

AWARD PROCESS: Once all Bids are opened and reviewed to determine the APPARENT lowest responsive and responsible Bidder, the City Council may award the contract. Within 48 hours after Award of Contract by the City Council, the apparent successful Bidder will be sent a written Notice of Award and a Conditional Notice to Proceed (Conditional NTP), to begin preparing the following documents: (1) the Performance Bond; (2) the Payment (Labor and Materials) Bond; (3) the required insurance certificates and endorsements; (4) Shop drawings and submittals, (5) construction schedule; (6) Traffic control plans; (7) Storage yard location and Agreement; (8) Haul routes and qualifications of proposed CPM Schedule Preparer. The Bidder will have fifteen (15) calendar days after written notice of the award of the contract to supply the City with all of the required documents and certifications listed above. Upon City Engineer acceptance and approval of the required documents and certifications listed in Conditional NTP, the City may issue a Full Notice to Proceed to commence work to the successful Bidder.

The Contractor Shall not mobilized until the Full NTP is been issued by the City

The duration of the Conditional NTP period is planned to span three (3) weeks; however the review, revise and submit cycle is repeated until all the submittal is approved and accepted to the City. The City shall review submissions by the Contractor and return them to the Contractor with approvals or requests for revisions within three (3) calendar days. The Contractor shall submit revisions requested by the City within three (3) calendar days of receipt of the request for revision. The Conditional NTP period shall not exceed thirty (30) calendar days.

FAILURE TO SUCCESSFULLY PREPARE THE REQUIRED SUBMITTALS: Failure to submit the required submittals within the times specified and obtain City approval of submittals which conform to the requirements of the Plans and Specifications will be deemed a material breach of the contract, and may result in termination of the contract and award to the second lowest bidder or rebidding of the contract.

AWARD OF CONTRACT: Bids will be compared on the basis of the lowest possible cost and the contract, if awarded, will be awarded to a responsible bidder whose proposal complies with the requirements of these specifications (proposal must also be responsive). The award, if made, will be made within **ninety (90) calendar days** after the opening of the proposals, provided that the award may be made after said period if the successful bidder shall not have given the City written notice of the withdrawal of his bid.

EXECUTION OF CONTRACT: The bidder to whom award is made shall execute a written contract with the City on the form agreement provided, and shall secure all insurance and bonds as herein provided within **fifteen (15) calendar days after** written notice of the award of the contract. Failure or refusal to enter into a contract as herein provided, or to conform to any of the stipulated requirements in connection therewith shall be just cause for the annulment of the award and the forfeiture of the proposal guaranty.

If the successful bidder refuses or fails to execute the contract or provide the required submittals, the City may award the contract to the second apparent lowest responsive and responsible bidder. If the second apparent lowest responsive and responsible bidder refuses or fails to execute the contract or provide the required submittals, the City may award the contract to the third apparent lowest responsive and responsible bidder. On the failure or refusal of such second or third apparent lowest responsive and responsible bidder to execute the contract, such bidder's guaranty shall be likewise forfeited to the City. The project may then be re-advertised.

**PROPOSAL
FOR**

Sewer Pipeline Replacement – Citywide (Phase IV)

PROJECT NO. 586-86022

In compliance with the annexed "Notice Inviting Sealed Bids", the undersigned hereby proposes and agrees to perform all the work and improvements therein described, and to furnish all labor and materials, equipment and incident insurance necessary therefore in accordance with the specifications therefore, known as **“Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022”**, which are on file in the office of the City Engineer of the City of Pomona. The undersigned agrees to perform the work and improvements therein mentioned to the satisfaction of and under the supervision of the City Engineer of the City of Pomona, duly appointed for said work in the matter of the construction and installation of **“Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022”**, as designated on the specifications known as **“Sewer Pipeline Replacement – Citywide (Phase IV), Project No. 586-86022”**, on file in the office of the City Engineer of the City of Pomona, and further agrees to enter into a contract therefore in the time, form and manner provided by law at the following prices.

Each line item bid shall contain all costs and expenses for the work described in the Technical Provisions of the Contract Documents.

“SEWER PIPELINE REPLACEMENT – CITYWIDE (PHASE IV), PROJECT NO. 586-86022”,

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1.	Mobilization/Demobilization	1	LS	\$	\$
2.	Trenching & Excavation Safety Measures	1	LS	\$	\$
3.	Storm Water Pollution Prevention Plans	1	LS	\$	\$
4.	Temporary Sewer Bypass	1	LS	\$	\$
5.	Traffic Control	1	LS	\$	\$
6.	Facility Replacement-Remove & Replace Existing	4,500	FT	\$	\$
7.	Point Replacement-Remove & Replace Existing	3,600	FT	\$	\$
8.	Reconnect Existing Sewer Lateral	300	EA	\$	\$
9.	Clean and Line Existing Manhole with Epoxy/Urethane Coating System	22	VF	\$	\$
10.	Manhole Channel replacement/reform	3	EA	\$	\$

“SEWER PIPELINE REPLACEMENT – CITYWIDE (PHASE IV), PROJECT NO. 586-86022”

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
11.	Manhole Extension	32	VF	\$	\$
12.	Replace Signage, Striping, and Pavement Markers	1	LS	\$	\$
13.	Cold Mill (1.2 IN)	146,000	SF	\$	\$
14.	Cold Mill (1.5 IN)	120,500	SF	\$	\$
15.	Hot Mix (1.2 IN)	1,300	Ton	\$	\$
16.	ARHM (1.5 IN)	1,000	Ton	\$	\$
17.	Concrete Paving (6 IN)	3,500	SF		
TOTAL BID AMOUNT:				\$	

TOTAL BID AMOUNT IN WORDS

DESIGNATION OF SUBCONTRACTORS

In compliance with the Subletting and Subcontracting Fair Practices Act of the Public Contract Code of the State of California, each bidder shall provide: (a) the name and the location of the place of business and (b) the work to be performed by each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work in an amount in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price. Notwithstanding the foregoing, if the work involves streets and highways, then the Contractor shall list each subcontractor who will perform work or labor or render service to Contractor in or about the work in an amount in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price or \$10,000, whichever is greater. No additional time shall be granted to provide the below requested information.

If no subcontractor is specified, for a portion of the work, or if more than one subcontractor is specified for the same portion of Work, to be performed under the Contract in excess of one-half of one percent (1/2%) of the Contractor's Total Bid Price or \$10,000, whichever is greater if the work involves streets or highways, then the Contractor shall be deemed to have agreed that it is fully qualified to perform that Work, and that it shall perform that portion itself.

Work To Be Performed:	% of the Work	Subcontractor			
		Business Name	Business Address	License Number	PWC Registration Number

The total percentage of the work performed by all subcontractors shall not exceed fifty percent (50%) of the total bid amount.

Name of Bidder _____

Signature _____

Name and Title _____

Date _____

SECTION 01010 – SUMMARY OF WORK

PART 1 – GENERAL

1.1 WORK OF THIS CONTRACT

The work to be performed under this Contract shall consist of furnishing all tools, equipment, materials, and furnishing all labor, transportation services, fuel, power, water, and communications, and performing all work and related operations required for the fulfillment of the Contract in strict accordance with the Contract Documents. The work shall be complete and all work, materials, and services not expressly specified or shown in the Contract Documents which may be necessary for the complete and proper installation, construction or operation of the work shall be provided by the CONTRACTOR as though originally so indicated at no increase in cost to the CITY.

1.2 PROJECT DESCRIPTION

The project consists of the removal and replacement of 590 feet of replacement VCP sewer pipelines at specific locations (Point Repairs) and the removal and replacement of 4,446 of VCP sewer pipeline from Manhole to Manhole (Facility Replacement), including all manhole connections, reconnection of existing sewer laterals and the replacement and rehabilitation of existing pavements.

1.3 BID ITEM DESCRIPTIONS

In addition to the bid items described in the Standard Specifications, the following bid item descriptions shall apply to the Bid Schedules.

1.3.1 MOBILIZATION, DEMOBILIZATION, AND PERMITS (LUMP SUM)

Payment for mobilization, demobilization, and permits shall be made at the contract lump sum price, complete and in accordance with the Contract Documents, and as directed by the CITY. The Contract Price shall include, but is not limited to the following principal items: obtaining and complying with all permits and insurance; preparation of an Emergency Spill Prevention Plan, mobilizing labor force, equipment and construction facilities; providing field offices and storage yard; securing construction water supply; providing all temporary construction fencing and safety barriers; providing on-site sanitary facilities; providing project signs; preparing and submitting plans by a licensed Engineer and obtaining State Division of Industrial Safety permit; obtaining groundwater discharge permit; posting OSHA requirements and establishing safety programs; cleanup and site restoration; preparing the Submittals prior to the pre-construction scheduling conference; preconstruction videotape and photographs; project record documents, furnishing and installing construction project information signs, including removal and disposal upon project completion and performing all work and incidentals for the mobilization, demobilization, and permitting for construction of the project as described in the Contract Documents. The amount for this bid item **shall be limited to 4 percent** of the total contract amount.

1.3.2 TRENCHING & EXCAVATION SAFETY MEASURES (LUMP SUM)

Payment for the installation and maintenance of all shoring, sheeting, bracing, and sloping as necessary to maintain safe excavations in strict accordance with applicable law, including local ordinances, applicable OSHA, CalOSHA, California Civil Code, California Department of Industrial Safety requirements, and City of Pomona safety policies and procedures. The

SUMMARY OF WORK

CITY OF POMONA

SECTION 01010 – SUMMARY OF WORK

lump sum price shall include full compensation for furnishing labor, materials, tools and incidentals, and for performing all work involved in design and installation of sheeting, shoring, and bracing during trenching of the replacement waterlines, complete as specified herein, including but not limited to, preparation of sheeting and shoring design calculations, and conformance to all applicable law listed in these specifications.

1.3.3 STORM WATER POLLUTION PREVENTION PLAN (LUMP SUM)

Payment for STORM WATER POLLUTION PREVENTION PLAN (SWPPP) will be paid for at the contract lump sum price, complete in place, for the preparation of a project specific SWPPP and all required training, devices and operations required for its' implementation. The SWPPP shall be prepared by a Qualified SWPPP Developer (QSD) and it shall be prepared following the SWPPP Template provided on the California Stormwater Quality Association Stormwater *Best Management Practice Handbook Portal: Construction* (CASQA, 2015).

1.3.4 TEMPORARY SEWER BYPASS SYSTEMS (LUMP SUM)

Payment to establish, provide and maintain temporary sewer bypass systems shall be made at the contract lump sum price, complete and in accordance with the Contract Documents, and as directed by the CITY. The Contract Price for establishing this bid item shall include the preparation of a bypass plan, including a sewage spill prevention plan and emergency response plan, to be submitted by the CONTRACTOR to the CITY for discussion and approval. The Contract price for work under this item shall include, but is not limited to the following principal items: piping, fittings, pumps, fuel, generators, compliance with all noise ordinances and regulations, moving of bypass equipment if necessary, and removal of all equipment when bypassing is no longer required. The CONTRACTOR shall provide bypass operations and a maintenance program 24 hours per day and 7 days per week during the period that bypassing is necessary to complete the Work. The CONTRACTOR shall also provide redundant pipe, pumps, and equipment that can operate as a back-up system if needed. This bid item shall also include work necessary for excavation, trenching, backfill, compaction, pavement grinding, saw cutting, removal, disposal and replacement for trench resurfacing in accordance with CITY Standard A-26-02 for the temporary bypass systems. No adjustment to the unit price shall be made for variations in trench width, pavement removal width, pavement material, or thickness. The Contract Price for this bid item shall include providing all means necessary to protect all existing utilities, pipes, manholes, laterals and all other components of the existing sewer system while furnishing, installing, and maintaining the temporary bypass equipment and restoring all flows to original paths/directions or to the new system once bypass operations are no longer necessary.

1.3.5 TRAFFIC CONTROL (LUMP SUM)

Payment for traffic control will be paid for at the contract lump sum price, complete in place, for the preparation of traffic control plans; all traffic control devices and operations required for construction. The contract price shall include, but not be limited to, furnishing all labor, material, tools, equipment, and incidentals to perform traffic control in accordance with the traffic control plans included in the Contract Documents and permit requirements of jurisdictional agencies and to the satisfaction of the CITY. Traffic control beyond the limits

SECTION 01010 – SUMMARY OF WORK

of the work zones shown on the project-specific traffic control plans included in the Contract Documents will be paid for in a separate bid item.

1.3.6 FACILITY REPLACEMENT-REMOVE & REPLACE EXISTING (UNIT PRICE)

Payment to remove and replace a minimum of 10' of existing VCP per the size and class specified in the contract documents using open excavation methods shall be measured and paid for per LF per the contract unit price at each location of such work, complete and in place.

Contractor to replace existing VCP a minimum of 5' either side of the repair location shown on the "Sanitary Sewer Repair Data Summary Sheet" in Appendix C or to an increased length as directed by the City's inspector.

Payment for this bid item includes locating and protecting in place all existing utilities; saw cutting of existing pavement; excavation; removal and disposing of existing piping; dewatering and required treatment; water disposal, surplus material disposal, furnishing and installing new replacement piping and wye connections; stainless steel banded rubber couplings; bedding and pipe backfill compacted in place; trench backfill; pipeline testing, furnishing and installing of steel plates; temporary and permanent pavement replacement matching existing asphaltic and/or concrete pavement; clean-up; and other incidental work. The work also includes trench repair in compliance with Standard drawings in the Appendix using the pavement repair type indicated in the Sanitary Sewer Repair Summary Data Sheet. The work also includes the post-construction inspection using a closed-circuit television camera. Payment for this bid item shall also include up to 12-inches of over excavation and rock refill, only if directed by the CITY. No adjustment to the unit price shall be made for variations in trench width, pavement removal width, pavement material, or thickness. The contract price for work under this item shall also include performing all potholing work required for determining the locations, sizes and physical character of all utilities crossing or connecting to the proposed pipeline or located within 5 feet of the centerline of the proposed pipeline prior to any other work as described in the Contract Documents and including utility owner coordination, mark-out, traffic control, standby for all potholing related work, providing potholing report to the CITY, and documentation of conditions exposed during the potholing to the satisfaction of the CITY.

1.3.7 POINT REPLACEMENT-REMOVE & REPLACE EXISTING (UNIT PRICE)

Payment to remove and replace a minimum of 10' of existing VCP per the size and class specified in the contract documents using open excavation methods shall be measured and paid for per LF per the contract unit price at each location of such work, complete and in place.

Contractor to replace existing VCP a minimum of 5' either side of the repair location shown on the "Sanitary Sewer Repair Data Summary Sheet" in Appendix C or to an increased length as directed by the City's inspector.

Payment for this bid item includes locating and protecting in place all existing utilities; saw cutting of existing pavement; excavation; removal and disposing of existing piping;

SECTION 01010 – SUMMARY OF WORK

dewatering and required treatment; water disposal, surplus material disposal, furnishing and installing new replacement piping and wye connections; stainless steel banded rubber couplings; bedding and pipe backfill compacted in place; trench backfill; pipeline testing, furnishing and installing of steel plates; temporary and permanent pavement replacement matching existing asphaltic and/or concrete pavement; clean-up; and other incidental work. The work also includes trench repair in compliance with Standard drawings in the Appendix using the pavement repair type indicated in the Sanitary Sewer Repair Summary Data Sheet.

The work also includes the post-construction inspection using a closed-circuit television camera. Payment for this bid item shall also include up to 12-inches of over excavation and rock refill, only if directed by the CITY. No adjustment to the unit price shall be made for variations in trench width, pavement removal width, pavement material, or thickness. The contract price for work under this item shall also include performing all potholing work required for determining the locations, sizes and physical character of all utilities crossing or connecting to the proposed pipeline or located within 5 feet of the centerline of the proposed pipeline prior to any other work as described in the Contract Documents and including utility owner coordination, mark-out, traffic control, standby for all potholing related work, providing potholing report to the CITY, and documentation of conditions exposed during the potholing to the satisfaction of the CITY.

1.3.8 RECONNECT EXISTING SEWER LATERAL (UNIT PRICE)

Payment for sewer lateral reconnection, 4-inch diameter and of the class specified in the Contract Documents and on the Bid Schedule shall be paid for at the contract unit price per linear foot, complete in place, in accordance with the Contract Documents. The contract price for work under this item shall include, but not be limited to, procurement, delivery, installation, and testing; piping; connection wyes, fittings; couplings; and all miscellaneous hardware required for a complete and functional installation. The contract price for the lateral relocated shall include all costs for pavement removal, excavation, backfill, compaction, and pavement/site restoration in accordance with CITY Standard A-26-02 along the limits of the lateral piping reconnection. The contract price for work under this item shall also include performing all potholing work required for determining the locations, sizes and physical character of all utilities crossing or connecting to the proposed pipeline or located within 5 feet of the centerline of the proposed pipeline prior to any other work as described in the Contract Documents and including utility owner coordination, mark-out, traffic control, standby for all potholing related work, providing potholing report to the CITY, and documentation of conditions exposed during the potholing to the satisfaction of the CITY. Note: existing sewer laterals will not be marked out by the CITY. The CONTRACTOR shall be responsible for ensuring that all sewer laterals are reconnected regardless if shown on the plans. The CONTRACTOR shall incorporate method per Section 01170 to verify that no sewer laterals were missed. The CONTRACTOR shall be responsible for cost incurred by any back-up, spills, or damage to properties. The CONTRACTOR shall compensate the CITY for any expenses incurred shall the CONTRACTOR fail to reconnect any sewer laterals.

1.3.9 CLEAN AND LINE EXISTING MANHOLE WITH EPOXY/URETHANE COATING SYSTEM (UNIT PRICE)

SECTION 01010 – SUMMARY OF WORK

Payment for cleaning and lining existing manhole with an Epoxy/Urethane Lining shall be paid for at the contract unit price per Vertical Foot and shall include but not be limited to, cleaning and coating existing manholes, called out on the plans and exhibits for rehabilitation.

1.3.10 CHANNEL REPLACEMENT/REFORM (UNIT PRICE)

Payment for modifying the bottom of existing manholes, shall be paid for at the contract unit price per each and shall include furnishing all labor, material, equipment, tools, and incidentals and for doing all work involved and no additional compensation will be allowed.

1.3.11 MANHOLE EXTENSION (UNIT PRICE)

Payment for removal and extension of existing manhole frame and cover to new grade shall be paid for at the contract unit price for each, complete in place, in accordance with the Contract Documents. The contract price for work under this item shall include, but not be limited to excavation, purchase and installation of manhole shaft extension rings, slurry filling excavated area within 12 inches and the compaction of all other excavated material to 90%.

1.3.12 REPLACE SIGNAGE, STRIPING, AND PAVEMENT MARKERS(LUMP SUM)

Payment for replacing signage, striping, and pavement markers will be paid at the contract lump sum price, complete in place, in accordance with the Contract Documents. Payment shall include, but not be limited to, all signage, striping, and markers damaged or removed during construction to conditions existing prior to the start of work and all incidental work to the satisfaction of the CITY.

1.3.13 COLD MILL (LUMP SUM)

Payment for Cold Mill Asphalt Concrete to the depth as specified in the Contract Documents shall be paid for on a square foot (SF) basis and shall include furnishing all labor, equipment, tools and materials necessary for the cold milling of asphalt concrete pavement/aggregate base as described in the contract documents. The price of this item shall include milling the pavement to be removed, the disposal and hauling of material removed, cleaning cracks and preparing cracks for overlay as described herein, removal of fabric/rubberized asphalt/petromat if it exists in the field, all debris, traffic control as described herein, scarification and recompaction of exposed base/subgrade in areas where entire pavement section is removed, removal of unsuitable subgrade material as directed by the Engineer, native-material, and grindings from cold milling on the job site, and incidentals for doing the work involved in cold milling asphalt concrete surfaces as defined in Section 302- 1, and no further compensation will be allowed therefore

1.3.14 HOT MIX (Unit Price)

Payment for hot mix asphalt surface course shall be made at the contract unit price per ton as measured and delivered to the site and shall constitute full payment for all labor, materials, equipment, and incidentals required, but not limited to all submittals for the grade as

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SECTION 01010 – SUMMARY OF WORK

described in the Contract Documents and no additional compensation shall be allowed therefore. Measurement for hot mix asphalt shall be made at the asphalt plant and copies of the certified weight tickets showing quantities of asphalt concrete or hot mix asphalt delivered to the site shall be submitted to the Engineer for approval.

1.3.15 ARHM (Unit Price)

Payment for ARHM surface course shall be made at the contract unit price per ton as measured and delivered to the site and shall constitute full payment for all labor, materials, equipment, and incidentals required, but not limited to all submittals for the grade as described in the Contract Documents and no additional compensation shall be allowed therefore. Measurement for ARHM shall be made at the asphalt plant and copies of the certified weight tickets showing quantities of asphalt concrete or ARHM delivered to the site shall be submitted to the Engineer for approval.

1.3.16 CONCRETE PAVEMENT (UNIT PRICE)

Payment for concrete pavement shall be paid for at the contract unit price. Payment shall include removals, excavation, forming, placement and finishing of PCC as per City Standard A-26-02. Payment shall include furnishing all labor, material, equipment, tools, and incidentals and for doing all work involved and no additional compensation will be allowed.

END OF SECTION

SECTION 01039 – COORDINATION AND MEETINGS

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This section specifies the requirements for project coordination and meetings. This includes licenses, permits, sales taxes, coordination with the City, Federal, State and local authorities, utilities, neighboring property owners, special events and other CONTRACTORS.

1.2 REFERENCE SPECIFICATIONS, CODES AND STANDARDS (NOT USED)

1.3 RELATED WORK SPECIFIED ELSEWHERE (NOT USED)

1.4 CONTRACTOR SUBMITTALS

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION

3.1 PRECONSTRUCTION SCHEDULING CONFERENCE

- A. CITY will schedule a Preconstruction Scheduling Conference after Notice of Award and before the Notice to Proceed.

B. Attendance Required:

For the City: Construction Manager, Inspector, Design Engineer and other City-designated personnel.

For the CONTRACTOR: Superintendent, Foreman, and Sub CONTRACTOR representatives.

- C. The CITY will distribute an agenda including, but not limited to the following items:

1. Distribution of Contract Documents
2. Designation of personnel representing the parties in Contract
3. Submission of list of Sub CONTRACTORS
4. Review of proposed Construction Schedule and delivery dates
5. Procedures for inspection of work
6. Procedures and processing for:
 - a. Substitutions
 - b. Submittals
 - c. RFI's
 - d. Field decisions
 - e. Payment Request
 - f. Change Orders
7. Testing procedures
8. Procedures for maintaining record documents.
9. SWPPP/NPDES General Permit for Storm Water Discharges Associated with Construction Activity

SECTION 01039 – COORDINATION AND MEETINGS

10. Contractor's redlines
 11. Caltrans Permit Requirements
 12. Contract closeout procedures
- D. The City shall record minutes and distribute copies within three (3) working days after meeting to participants and those affected by decisions made.

3.2 PROGRESS MEETINGS

- A. The City shall schedule and administer meetings throughout progress of the work at a maximum interval of every two weeks.
- B. The City will make arrangements for meetings, prepare agenda with copies for participants, and preside at meetings.
- C. Attendance Required:
For the City: Construction Manager, Inspector, Design Engineer and other City-designated personnel.
For the CONTRACTOR: Superintendent, Foreman, and Sub CONTRACTOR representatives, and as appropriate to agenda topics for each meeting.
- D. The scheduled progress meetings will include, but is not limited to the following agenda items:
 1. Review minutes of previous meetings
 2. CPM Schedule
 3. Two-week Look Ahead Schedule
 4. Review of work progress
 5. Daily Work Reports
 6. Field observations, problems, and decisions
 7. Identification of problems which impede planned progress
 8. Review of RFI's
 9. Review of off-site fabrication and delivery schedules
 10. Maintenance of progress schedule
 11. Corrective measures to regain projected schedules
 12. Planned progress during succeeding work period
 13. Coordination of projected progress
 14. Maintenance of quality and work standards
 15. Effect of proposed changes on progress schedule and coordination
 16. Other business relating to work
 17. Progress payment review
 18. Review of Contractor's redlines

SECTION 01039 – COORDINATION AND MEETINGS

- E. The City will record minutes and distribute copies within two working days after meeting to participants and those affected by decisions made.

3.3 PERMITS

- A. CONTRACTOR shall refer to SECTION 01060 - REGULATORY REQUIREMENTS of the Specifications for permit requirements and comply with all required permits, licenses, work permits and authorizations from appropriate agencies, including the following:
 - 1. State and Federal permits
 - a. Excavation and Dirt Moving Permit from Cal/OSHA
 - b. Safety permit from California Division of Industrial Safety
 - c. Cal/OSHA mining & tunneling unit
 - d. RWQCB Groundwater Discharge Permit (if applicable)
 - e. Caltrans Encroachment Permit
- B. The CONTRACTOR will obtain the following:
 - 1. OSHA Mining & Tunneling Underground Classification
 - 2. CITY and Caltrans traffic control permits where the CONTRACTOR's traffic control procedures vary from those indicated on the project traffic control plans.
- C. CONTRACTOR shall pay for all fees applicable to CONTRACTOR's operations.

3.4 COORDINATION WITH CITY

- A. Contact the CITY at least 72 hours before the start of construction.
- B. Do not begin work until CONTRACTOR's Baseline schedule, permits, bonds, certificates of insurance and business license have been reviewed and approved by the City..

3.5 COORDINATION WITH UTILITIES

- A. CONTRACTOR shall comply with all requirements set forth in Special Provisions.
- B. Protect existing underground utilities. The CONTRACTOR shall comply with California Government Code 4216. The CONTRACTOR shall call Underground Service Alert (DigAlert) to obtain mark-out of buried utilities prior to underground excavation. The CONTRACTOR shall notify all utilities affected by the project for mark-out prior to excavation and shall coordinate with the utility company for any required utility company standby during the work. This requirement shall apply for all potholing work ahead of construction and during the construction/installation of the project. Support or relocation of existing Utility Company facilities to accommodate CONTRACTOR's means and methods of conducting the work shall be coordinated directly with the Utility Company. All costs associated with support or relocation shall be borne by the CONTRACTOR.
- C. Electrical utility companies have energized aerial electrical power lines in the immediate vicinity of work. Do not consider these lines to be insulated. Construction personnel working near these lines are exposed to an extreme hazard from electric shock. CONTRACTORS, their employees and construction personnel working on this project must be warned of the danger and instructed to take adequate protective measures, including maintaining a minimum 10 feet clearance between lines and construction equipment and personnel. (See OSHA Std. 1926.550(A) 15). As an additional safety precaution, call electric utility company to arrange, if possible, to have these lines de-

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energized or relocated when work reaches their immediate vicinity. Cost of such temporary arrangements shall be borne by CONTRACTOR.

- D. All abandonment or demolition of existing facilities, or portions thereof, shall be coordinated and performed by the CONTRACTOR. All costs associated with abandonment or demolition shall be borne by the CONTRACTOR.

END OF SECTION

SECTION 01115 – CONSTRUCTION SEQUENCE

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This Section includes the construction sequence requirements for the project.
- B. The CONTRACTOR is responsible for the overall sequence of construction for the project unless otherwise stated. The CONTRACTOR shall refer to the drawings for additional construction sequencing and shutdown requirements. At the sole discretion of the Engineer, deviation from these suggested sequences may be permitted if techniques and methods known to the CONTRACTOR will result in reducing the disruption of the facility operation and upon the concurrence of the Engineer. The work shall be completed in accordance with the following general sequence:
 - 1. Submit shop drawings and other submittals required by the Contract Documents in accordance the Special Provisions and Section 01300 of these Technical Specifications.
 - 2. The CONTRACTOR is responsible for temporary light, electrical power, and water in accordance with the Standard Specifications and Special Provisions.
 - 3. Obtain required permits and licenses.
 - 4. Submit proposed schedule of work in Microsoft Project or an equivalent, insurance and bonds.
 - 5. Perform construction staking to determine the locations of project features and call Underground Service Alert (DigAlert) to obtain mark-out of buried utilities.
 - 6. Secure laydown/staging areas. CONTRACTOR shall obtain approval for use of any public or private rights-of-way and install CITY approved signage.
 - 7. Take pre-construction photographs and video log of pipeline alignment and along proposed work areas (potential layout or staging areas etc.).
 - 8. Pothole all existing utilities crossing the pipeline alignment and those parallel to it within 5 feet, and submit potholing results to the CITY two (2) weeks ahead of construction.
 - 9. Begin manufacturing and shipping materials and equipment only after receiving approved submittals.
 - 10. Construct Facility and Point replacement in the order listed in the Construction Documents.
 - 11. Complete Punch List items.
 - 12. Finalize clean up and restore construction areas.
 - 13. Take post-construction CCTV video of sewer replacements.

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SECTION 01115 – CONSTRUCTION SEQUENCE

14. Provide warranty as specified.

C. Alternate sequences of work which meet the requirements of the project may be proposed by the CONTRACTOR and discussed with the CITY and their representatives.

1.2 REFERENCE SPECIFICATIONS, CODES AND STANDARDS (NOT USED)

1.3 RELATED WORK SPECIFIED ELSEWHERE

The Work of the following Sections also apply to the Work of this Section. Other Sections, not referenced below, shall also apply to the extent required for proper performance of this Work.

A. SECTION 01310 – CONSTRUCTION PROGRESS SCHEDULE

1.4 CONTRACTOR SUBMITTALS (NOT USED)

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01170 – SPECIAL TECHNICAL PROVISIONS

PART 1 – GENERAL

1.1 DESCRIPTION

A This Section provides special requirements for the project.

1.2 REFERENCE SPECIFICATIONS, CODES AND STANDARDS (NOT USED)

1.3 RELATED WORK SPECIFIED ELSEWHERE

The Work of the following Sections also apply to the Work of this Section. Other Sections, not referenced below, shall also apply to the extent required for proper performance of this Work.

A SECTION 02601 – BURIED PIPE INSTALLATION

1.4 CONTRACTOR SUBMITTALS (NOT USED)

1.5 CONSTRUCTION SURVEYS

A. LAND MONUMENTS

The CONTRACTOR shall reference “Greenbook” Part 1. The CONTRACTOR shall notify the Engineer of any existing Federal, State, CITY, County, and private land monuments encountered. All monuments shall be preserved, or if necessary to be destroyed during performance of the work, shall be replaced by a licensed surveyor at the CONTRACTOR’s expense. Record of Survey drawings shall be filed with the County for all replaced monuments. When government monuments are encountered, the CONTRACTOR shall notify the Engineer at least two (2) weeks in advance of the proposed construction in order to reference these monuments for later replacement.

1.4 CONSTRUCTION PROJECT INFORMATION SIGNS

- A. The Contractor shall furnish and install two (2) 48-inch by 96-inch Construction Project Information Signs at locations designated by the Engineer within 10 working days after the Notice to Proceed. Upon completion of the project, the Contractor shall remove and dispose of the signs. The required information and format is provided in the Appendix.
- B. The Signs shall be mounted on transportable skids made of 4 inch x 6 inch and/or 6 inch x 8 inch wooden post. The City will direct the Contractor to locate of the on a weekly basis to insure optimal visible and readable.
- C. The Contractor shall apply anti-graffiti film to the finish surface on the front and back of each sign of each sign. The anti-graffiti film shall be 3M Scotchgard™ Graphic and Surface Protection Film 8991, or City Approved equal. The anti-graffiti film shall be install as per manufacturers’ recommendations.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01310 – CONSTRUCTION PROGRESS SCHEDULE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies the supplemental construction schedule requirements for the project.

1.2 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

The work of the following Sections also apply to the work of this Section. Other Sections, not referenced below, shall also apply to the extent required for proper performance of the work.

- A. SECTION 01010 – SUMMARY OF WORK
- B. SECTION 01300 – SUBMITTALS

1.3 RELATED WORK SPECIFIED ELSEWHERE (NOT USED)

1.4 CONTRACTOR SUBMITTALS

- A. Qualifications of CPM Schedule Preparer
- B. CPM Progress Schedule

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 CPM PROGRESS SCHEDULE

- A. General Requirements

Personnel preparing CPM Progress Schedules must be qualified and experienced in using Microsoft Project software to prepare Critical Path Method ("CPM") schedules and must be capable of producing the schedules and reports required by the Contract Documents.

The CPM Project Schedule shall include (resource load) manpower requirements, by crew, for each activity.

3.2 SCHEDULE ACTIVITIES

- A. At a minimum the activities to be included in Construction Schedule shall include the following:
 1. Notice to proceed
 2. Mobilization
 3. USA Alert
 4. Survey Staking
 5. Preconstruction Video and Photographs
 6. Pothole Utilities
 7. Construct Facility and Point Replacement
 8. Post CCTV Inspection
 9. Pavement Restoration
 10. Replace Signage, Striping, and Pavement Markers

SECTION 01310 – CONSTRUCTION PROGRESS SCHEDULE

11. Close – Out

END OF SECTION

SECTION 01700 – PROJECT CLOSE-OUT

PART 1 – GENERAL

1.1 DESCRIPTION

A. The CONTRACTOR shall thoroughly clean the project site as described in Section 01710 prior to final acceptance of the work by the City.

B. The CONTRACTOR shall conduct Performance Tests for each element of the work as described in the individual sections. Where no performance test is specified, the CONTRACTOR shall demonstrate satisfactory performance for a period of one week prior to final acceptance.

C. The CONTRACTOR shall establish dates for equipment testing and acceptance periods. The times shall be within the Contract time.

1.2 REFERENCE SPECIFICATIONS, CODES AND STANDARDS (NOT USED)

1.3 RELATED WORK SPECIFIED ELSEWHERE

The Work of the following Sections also apply to the Work of this Section. Other Sections, not referenced below, shall also apply to the extent required for proper performance of this Work.

A. SECTION 01710 – CLEAN-UP

1.4 CONTRACTOR SUBMITTALS (NOT USED)

1.5 FINAL SUBMITTALS

The CONTRACTOR, prior to requesting final payment, shall obtain and submit the following items to the Engineer:

- A. Written guarantees, where required.
- B. Releases from all parties who are entitled to claims against the subject project, property, or improvement pursuant to the provisions of law.
- C. Completed redline drawings per the requirements of the Contract Documents.
- D. Releases from all parties who are entitled to claims against the subject project, property, or improvement pursuant to the provisions of law.
- E. Monument survey showing record locations of monuments or benchmarks disturbed and reset by CONTRACTOR (if performed).
- F. Final Performance Bond adjusted to reflect increased cost of Change Orders.
- G. Public Works Affidavits.

SECTION 01700 – PROJECT CLOSE-OUT

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 02700 – PAVING AND SURFACING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section includes materials, application, and inspection of all temporary and permanent asphalt and concrete surfaces.

1.2 REFERENCES SPECIFICATIONS, CODES AND STANDARDS

- A. City Public Works Standard Drawings – City of Pomona Public Works Department Standard Drawings, dated November 2006.
- B. SSPWC - Standard Specifications for Public Works Construction (Green Book), latest edition.
- C. Caltrans Standard Specifications - State of California, Department of Transportation, Standard Specifications
- D. American Society for Testing and Materials (ASTM):
 - 1. D422 Test Method for Particle-Size Analysis for Soils.
 - 2. D1556 Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
 - 3. D2027 Specification for Cutback Asphalt (Medium Curing Type).
 - 4. D2922 Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)

1.3 RELATED WORK SPECIFIED ELSEWHERE (NOT USED)

1.4 CONTRACTOR SUBMITTALS

- A. Submit as specified and in accordance to the requirements of Section 01300.
- B. Submit the following:
 - 1. Samples: Furnish, without additional cost to the City, such quantities of construction materials as may be required by the Engineer for test purposes. The Contractor shall cooperate with the Engineer and furnish necessary facilities for sampling and testing of all materials and workmanship. All materials furnished and all work performed shall be subject to rigid inspection, and no materials shall be used in the construction work until it has been inspected by the Engineer.
 - 2. Submit a signed verification from each source of supply for each construction material employed on this project indicating that the materials meet the Specification requirements.

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3. Mix design for asphalt concrete.
4. Submit manufacturer's certification of the actual volatile organic compounds (VOC) content for all pavement paints and bituminous pavement sealers proposed for use on this project. Submit certification of the actual VOC content for coatings manufactured after 1 September 1987. For coatings manufactured before 1 September 1987, submit VOC content and date of manufacture. VOC content shall be measured in grams per liter by weight of coating as applied excluding water and color added to the tint base.
5. Submit verification that bituminous pavement sealers and paint products furnished meet applicable regulations as to allowable VOC content for the time and place of application and use intended.

1.5 QUALITY ASSURANCE

- A. Comply with the requirements of Subsection 303 of the SSPWC and City Public Works Standard Drawings.
- B. All pavement stripe painting shall be performed by competent and experienced equipment operators and painters using proper equipment, tools, stencils, templates and shields in a workmanlike manner.
- C. Construction Methods
 1. General: The Contractor shall contact the affected utility companies for information regarding identification, location, and depth of underground utilities.
 2. Preservation of Property: Existing improvement in areas adjoining the property whereon demolition and removal is being performed shall be protected from injury or damage resulting from operations of the Contractor and the Contractor shall be responsible for such damage. In like manner, any building, structure, tree, shrub, or other existing item in the bid item where demolition and removal are being performed shall be similarly protected and preserved.
 3. Dust Control: The Contractor shall provide such dust control equipment and methods as may be required to protect adjacent property from annoyance or damage from dust caused by his operations, and failure to control such dust shall be cause for the City Engineer to stop the work until said dust is controlled, and the Contractor shall have no recourse to collect from the City for any loss of time or expense sustained by him due to such suspension of work.
 4. Selected Materials: Existing materials excavated within the project limits that meet the specifications for backfill, topsoil, or other selected materials may be used to fulfill all or a portion of the requirements for such materials. No additional compensation will be allowed for excavation, stockpiling, overhaul, or placing selected materials encountered in tile excavation.

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5. Surplus Materials: The Contractor shall furnish written consent from the owner of the property where it is intended to dispose of the surplus materials. Surplus excavation shall become the property of the Contractor.

1.6 REGULATORY REQUIREMENTS

- A. All work, material, procedures and practices under this Section shall conform to requirements of the California Air Resources Board (CARB).

PART 2 - PRODUCTS

2.1 Asphalt Rubberized Hot Mix (ARHM)

- A. Paving asphalt to be used in ARHM shall be PG64-16 per table 203-1.2(A) in the SSPWC.
- B. Asphalt rubber pavement shall conform to the requirements of the Standard Specifications Section 203-11, "Asphalt Rubber Hot Mix (ARHM) Wet Process."
- C. Asphalt rubber shall be used for the surface course only. The surface course is defined as the final layer of asphalt placed above the cold milled or leveling course surface. Required base courses shall be constructed with asphalt concrete pavement as specified elsewhere herein. The surface course of new or repaired pavement and that of adjacent pavement to be resurfaced shall be constructed together.
- D. Asphalt Rubber Hot Mix shall be ARHM-GG-C, gap-graded. Asphalt concrete shall be placed with a paving machine equipped with a 'Preco' attachment or similar device for use in obtaining constant cross- slope and maximum joint quality.
- E. The Contractor shall utilize a paving machine equipped with an automatic adjusting screed, which is actuated by a 30-foot "ski", for the entire ARHM-GG overlay.
- F. Breakdown compaction shall be performed with a two-axle or three-axle tandem or three-wheel roller weighing not less than 12 tons for all ARHM-GG lift thickness of four (4) inches or less. Breakdown compaction shall be performed with a vibratory roller weighing not less than 12 tons for all ARHM-GG lift thickness between two (2) and four (4) inches. When more than one layer of ARHM-GG is required, the layers shall be of equal thickness.
- G. Ski arms to improve smoothness of paving operations are required on all paved streets with a 30 foot minimum length arm for paving.

2.2 PORTLAND CEMENT CONCRETE

- A. GENERAL. PCC Pavement shall conform to Section 302-6 of the Standard Specifications for Public Works and shall match existing transverse joints. Weakened plane joints shall be placed in accordance with Subsection 303-5.4.3. of the Standard Specifications at 15' intervals.

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- B. PCC PAVEMENT MATERIALS. PCC Pavement shall be constructed of concrete prepared in accordance with Section 201-1 of the Standard Specifications using symbol designation class 520-A-2500. The Contractor shall furnish to the City reports from the supplier certifying that the PCC Pavement materials and proportions comply with the designated classifications, for PCC Pavement as required herein or as directed by the Engineer.

2.3 ASPHALT CONCRETE

- A. Asphalt concrete pavement shall conform to Sections 203-6 and 302-5 of the SSPWC, except as modified herein.
- B. Asphalt concrete shall have a performance grade binder of PG 64-10.
- C. The grading of the combined aggregates shall conform to the following:
 - 1. B-2: Asphalt Concrete Base Course for Deep Lift Repairs
 - 2. C-2: Asphalt Concrete – Surface Course

2.4 TACK COAT

- A. Material for tack coat shall be Grade SS-1h emulsified asphalt or AR 4000/AR 8000 paving asphalt conforming to the requirements of the SSPWC.

2.5 PRIME COAT

- A. Material for prime coat shall be Grade SC-250 liquid asphalt conforming to the requirements of the SSPWC.

2.6 CRUSHED MISCELLANEOUS/AGGREGATE BASE

- A. Crushed/miscellaneous aggregate base shall consist entirely of crushed rock and rock dust and shall conform to the requirements of the SSPWC.

2.7 TRAFFIC STRIPES AND PAVEMENT MARKINGS

- A. Paint shall be thermoplastic material; the thermoplastic material and glass beads shall comply with paragraphs 84-2.02 and 84-2.03 of Caltrans Standard Specifications.

PART 3 - EXECUTION

3.1 GENERAL

- A. This Specification shall cover newly paved areas as well as existing pavement restoration.

SECTION 02700 – PAVING AND SURFACING

- B. Where trenching or other construction activity has resulted in damage to a localized area of pavement, the damaged pavement shall be cut back 6 inches and shall be removed and replaced.
- C. Where the damaged area extends over more than 50% of the road width or paved area, as determined by the Engineer, the full pavement width or area shall be cut away, removed and repaired.
- D. Structures such as valve boxes, manhole frames and covers, and electrical vaults shall be adjusted to grade as necessary within paved areas.
- E. Existing asphalt pavement islands of 50 ft² or less and strips 18 inches or less in width shall be removed and replaced.
- F. Adjust existing manholes, meter boxes, cleanouts, etc. to match the new grade.

3.2 PAVEMENT CUTTING

- A. After backfilling and prior to paving, proper tools and equipment shall be used in marking and breaking so that the pavement shall be cut accurately and on neat lines parallel to the trench. The asphalt pavement shall be saw cut (using a concrete saw) to a minimum depth equal to or greater than one-half the thickness thereof. The pavement shall be cut back 12 inches on each side of the trench or excavation wall. Any pavement damaged outside these lines shall be re-cut and restored at the expense of the Contractor. Should voids develop under existing pavements during construction, those affected pavements shall be neatly saw cut in straight lines and replaced after the voids have been filled.
- B. Construct joints between successive runs vertical and at right angles to the line of the improvement. Exercise care in construction of all joints to ensure that the surface of the pavement is true to grade and cross-section. Lapped joints will not be permitted.

3.3 PLACEMENT OF AGGREGATE BASE

- A. Subgrade Preparation:
 - 1. Subgrade preparation shall conform to Section 301-1 “Subgrade Preparation” of the SSPWC. The last sentence of the first paragraph of Subsection 301-1.2, “Preparation of Subgrade” of the SSPWC is deleted and replaced by the following:

“When unsuitable material due to excessive moisture content is found below the processing depth for subgrade specified herein, the Contractor shall make a reasonable effort as directed by the City Engineer, to dry the material in order to obtain compaction as specified in Subsection 301-1.3, “Relative Compaction”. Such reasonable effort may include periodic cultivating and scarifying or allowing the material to dry naturally or a combination of the above, for a period of time not-to-exceed 2 weeks. After this time period, or earlier if so determined by the City Engineer, the unsuitable material shall be treated in accordance with Subsection 300-2.2, “Unsuitable Material”. The Contractor will be allowed non-working days for such work in accordance with Section 6-7 “Time

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of Completion”. An extension of time for such work will be granted in accordance with Subsection 6-6 of the SSPWC.

2. The subgrade shall be watered or dried as required to bring the soil, as close as practicable, to the optimum moisture content for proper compacting and then compacted, as specified, to a relative compaction of not less than 95% in the upper 6 inches. When compaction of the subgrade areas on fill and embankments has been properly obtained, only such additional rolling will be required as necessary to obtain a thoroughly compacted subgrade immediately prior to placing the aggregate base thereon.
 3. Payment for preparation of subgrade will be considered as included in the item of work for which the subgrade is prepared, and no additional compensation will be allowed therefore.
- B. Aggregate Base Tolerance: The aggregate base shall not be placed before the subgrade is approved by the Engineer. The finished aggregate base shall not vary more than 0.05 foot above, nor 0.10 foot below, the planned grade.
- C. Aggregate Base Placing: The aggregate base material shall be spread on the prepared subgrade by means of approved spreading devices subject to approval by the Engineer; the aggregate base material may be dumped in piles upon the subgrade and spread by bulldozing ahead from the dumped material. Each layer shall not exceed 0.50 feet. Segregation of large or fine particles of aggregate shall be avoided, and the material as spread shall be free from pockets of large and fine material.
- D. Compaction: The relative compaction of each layer of compacted aggregate base material shall not be less than 95% as determined by ASTM D1556 (Sand Cone), or ASTM D2922 (Nuclear method when approved by the Engineer). Compaction shall be in accordance with Section 26-1.05 of Caltrans Standard Specifications. Aggregate base, after compaction, shall be watered as provided in Section 17 of Caltrans Standard Specifications. Paragraph 17-1.04 is not applicable.

3.4 PRIME COAT APPLICATION

- A. Asphalt concrete being constructed directly upon existing hard surface pavement shall require a prime coat. Prime coat shall be applied in accordance to Section 302-5.3 of the SSPWC.

3.5 TACK COAT APPLICATION

- A. Tack coat shall be applied in accordance to Section 302-5.4 of the SSPWC.

3.6 PLACEMENT OF ASPHALT CONCRETE

- A. All work shall conform to the provisions in Section 302 “Roadway Surfacing” of the SSPWC, and these Special Provisions.

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- B. Pavement Thickness: Pavement shall match the existing adjoining pavement in thickness, or as indicated on the Construction Plans, or as specified, whichever is greater.
- C. Joining Pavement: The joints between old and new pavements or between successive days' work shall be carefully made in such manner as to ensure a continuous bond between old and new sections of the course. Edges of existing pavement shall be exposed and cleaned and edges cut to straight, vertical surfaces. All joints shall be painted with a uniform coat of tack coat before the fresh mixture is applied.
- D. Protection of Pavement: After final rolling, no vehicular traffic of any kind shall be permitted on the pavement until it has cooled and hardened and in no case less than 6 hours.
- E. Base Course, Final Course and Striping: Base course paving shall be complete at all times to a point not to exceed 1,000 feet behind any working heading. The final asphalt surface course shall be at least 1-inch thick and shall be placed within a period of two weeks after traffic has been returned to that portion of the street. Temporary striping shall be applied after the base course of asphalt concrete pavement has been placed, in the same configuration as the existing permanent striping, so that traffic can be returned to normal patterns. Temporary striping shall be maintained until permanent striping is applied.
- F. Contractor shall submit copies of the certified weight tickets showing quantities of asphalt concrete delivered to the project site. Payment for asphalt concrete pavement surfaces shall not be made until Contractor water tests all AC surfaces to verify proper drainage without ponding.

3.7 TEMPORARY RESURFACING AND PAVEMENT RESTORATION

- A. Final pavement restoration shall be made as soon as practicable after backfilling. In that period of time between backfilling and final pavement restoration, the trench shall be maintained level with the adjacent pavement and shall be covered with a 2-inch minimum layer of temporary pavement. The surface to receive the temporary pavement shall be rolled by a tandem, steel drum roller with a width at least 90% of the width of the trench (wheel rolling and vibratory plates are not allowed). Temporary pavement shall be placed, rolled by a tandem, steel drum roller with a width at least 90% of the trench width (wheel rolling and vibratory plates are not allowed), and maintained in a good level surface by the Contractor. The Contractor shall immediately repair any temporary pavement not considered to be in good condition by the City.
- B. Temporary pavement shall not be allowed over the trench or any excavation for a period greater than 30 calendar days after placement.
- C. Prior to placing the final pavement, the temporary pavement shall be removed, the aggregate base excavated to the lines indicated on the Construction Plans, and the existing pavement edges saw cut as herein specified. The final asphalt pavement shall not be placed before the primed aggregate base surface is approved by the Engineer.

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- D. On residential streets and alleys, the minimum thickness of the temporary pavement should be 2". Residential streets, as used here, refers to streets having a maximum width of 50 feet.
- E. On major streets, the minimum thickness of the temporary pavement should be 3". Major streets, as used here, refers to streets having equal to or exceeding a width of 50.

3.8 PAVEMENT MARKINGS

- A. Preparation: Immediately before applying the paint, the pavement surface shall be thoroughly cleaned of all dust, dirt, scale, curing compound, oil, grease, or other objectionable matter as directed by the Engineer. Solvent material that will damage the pavement shall not be used as a cleaning agent.
- B. Tolerances: Marking and striping shall be within 2 inches of the correct alignment. Dimensions of marking and stripings shall be within ½-inch.
- C. Mixing: Mechanical mixers shall be used to mix paint. Prior to applying, the paint shall be mixed a sufficient length of time to thoroughly mix the pigment and vehicle together, and shall be kept thoroughly agitated during its application.
- D. Application: Pavement marking shall be applied only on dry surfaces and only during periods of favorable weather. Painting shall not be performed when the atmospheric temperature is below 40°F when using solvent-borne paint or below 50°F when using water borne paint; when freshly painted surfaces may become damaged by rain, fog, or condensation; nor when it can be anticipated that the atmospheric temperature will drop below said 40°F or 50°F temperatures during the drying period.
 - 1. Immediately following the preparation of the pavement, the paint shall be applied. The paint shall be applied at the rate of 100 to 110 square feet per gallon of paint. The stripe painting machine shall have a compressor capacity of at least 105 cubic feet per minute and be capable of operating at an air pressure of 125 psi. The paint shall be mechanically agitated while the machine is in operation. The striping machine shall be equipped with a guide post so designed that the machine will hold exactly to the alignment. The propelling vehicle shall be equipped with a guide post so designed that the machine will hold exactly to the alignment. The propelling vehicle shall be equipped with a speedometer or tachometer, and with a suitable device for determining the quantity of paint in the container. The paint container and spray nozzles on the machine shall be thoroughly cleaned before starting each day's work. The stripe shall be of the required width, with clean, true edges and without sharp breaks.
 - 2. Allow ten days between the application of a bituminous seal coat and the permanent pavement marking. The paint shall not bleed, curl or discolor when applied to bituminous surfaces. If bleeding or discoloring occurs, apply an additional coat of paint.
 - 3. Remove existing permanent or temporary markings and striping which are to be abandoned or obliterated, by wet sandblasting or other favorably reviewed methods. Dry sandblasting may be used in selected areas only with prior approval of the Engineer and with approval of the air pollution control authority having jurisdiction over the area

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in which the work will be performed. Obliteration of traffic striping with black paint or light emulsion oil shall be done only with the prior favorable review shall not be used as a removal agent.

- E. Provide all warning devices required to protect the painting operation and the finished work. Repaint, to the applicable specifications, any portion of the stripe damaged by any type of traffic within 24 hours after the stripe has been applied. For striping less than 50 feet in length, favorably reviewed portable painting equipment may be used.

3.9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS

- A. The Contractor shall maintain all existing roadside mailboxes, and signs, including, but not limited to, directional, warning, advisory, regulatory, bus stop, and street markers, in an erect and functional position and condition at all times during the construction period in temporary locations as designated by the City Engineer. The Contractor shall also protect existing water meters and fittings, driveways, fire hydrants, street lights, chain link and wrought iron fences, block walls, power poles, wires, catch basins, traffic signals, gas meters, and AC berms. The Contractor, at no cost to the City, shall replace any of these facilities which are damaged or lost.

END OF SECTION

PIPE SUMMARY
Point Replacements

Atlas Sheet	Facility Number	Upstream Manhole	Downstream Manhole	Street	Pipe Diameter (IN)	Pipe Material	Inspection Footage (FT)	Repair Footage (FT)	# of Laterals	Surface Type	A-26-02 Case #	Pavement Restoration (SF)	Trench Backfill Requirement	Traffic Control Plan Required	Work Hour Restrictions 8:00 - 3:30
G16	FB1004-1	G21-1782	G21-6759	1842 PHILLIPS DR	10	VCP	358	10	0	ARMH	III	540	slurry	Yes	Yes
H16	FB1009-2	H22-154	H22-6677	1647 JUNIPER RD	8	VCP	342	10	0	ARHM	III	1020	native		
G16	FB1031-1	G21-1790	G21-6762	1142 BLUEGRASS PL	8	VCP	352	20	1	ARMH	III	720	native		
H19	FB-1037-2	J26-2048	J26-2049	78 QUIET HILLS	15	VCP	308	50	0	HM	II	1050	native		
J19	FB1039-4	K26-1311		4 QUIET HILLS CIR	15	VCP	191	10	0	HM	II	450	native		
G18	FB1067B-7	H26-44	H26-5757	1 SILVERWOOD LN	10	VCP	349	20	1	HM	II	600	native		
H18	FB1067C-2	H26-47	H25-5790	25 OLD WOOD DR	8	VCP	109	30	0	ARHM	III	900	native		
M08	FB-107-2	N11-3180	N11-3201	2433 LOVEJOY ST	8	VCP	373	30	2	HM	II	750	native		
H19	FB1081B-2	H26-32	H26-5746	44 ROLLING HILLS DR	8	PVC	325	10	2	HM	II	1020	native		
G17	FB1090D-2	G24-1959	G24-6043	52 LOS FELIS DR	8	PVC	253	10	0	HM	II	450	native		
G18	FB1091C-5	G25-109	G25-5827	33 LA SIERRA DR	8	PVC	103	10	0	HM	II	450	native		
N14	FB11-1	P19-2982	P19-2981	1655 E MISSION BLVD	8	VCP	361	20	0	HM	II	600	slurry	Yes	Yes
F17	FB1110D-6	F23-1726	F23-4870	15 LA RAMADA PL	8	VCP	210	10	0	ARHM	III	1050	native		
F17	FB1110G-3	F24-2501	F24-6294	15 AVENIDA RANCHEROS	8	PVC	320	15	0	ARHM	III	1225	slurry	Yes	Yes
N14	FB11-4	P19-2978	P19-2980	1678 E MISSION BLVD	8	VCP	370	15	0	HM	II	525	slurry	Yes	Yes
E14	FB125-2	E19-1284	E19-1283	2811 LYNDAL AVE	8	VCP	205	20	0	ARHM	III	1400	native		
D15	FB127-3	D20-1815	D20-2558	3089 VALLEY BLVD	8	VCP	381	35	1	HM	II	825	slurry	Yes	Yes
D15	FB128	D21-1831	D21-1833	230 W VALLEY ST	8	VCP	382	30	0	HM	II	750	slurry	Yes	Yes
K06	FB-157-3	L8-5334	L8-5333	2911 GRAMERCY ST	8	VCP	288	20	1	ARHM	III	1320	native		
L06	FB-203-2	M7-5399	M7-5382	3018 VAMANA ST	8	VCP	264	40	1	HM	II	1980	native		Yes
H15	FB204	J21-2549	J21-2268	1225 BUENA VISTA AVE	10	VCP	707	10	2	HM	II	450	native		
K09	FB-208-1	L11-5091	L11-5092	220 ROYAL COACH AVE	8	VCP	270	20	1	HM	II	600	native		
K09	FB-208-2	L11-5092	L11-5081	252 ROYAL COACH AVE	8	VCP	248	30	1	HM	II	750	native		
K09	FB-209-1	L11-5103	L11-5091	2180 RAVENSWOOD WAY	8	VCP	315	30	1	HM	II	750	native		
L09	FB-209-2	L11-5096	L11-5092	2190 CASTLE PL	8	VCP	265	40	2	HM	II	900	native		
N10	FB229-2	R13-2716	R13-2713	1854 AMERICAN AVE	8	VCP	351	40	0	ARHM	III	1860	native		
N12	FB2-3	P16-2948	P16-2953	1324 BREWSTER DR	8	VCP	299	20	1	HM	II	600	native		
P10	FB231-2	R13-2722	R13-2699	1855 ELAINE ST	8	VCP	348	30	0	HM	II	750	native		
P10	FB234-1	R13-2705	R13-2704	1779 RUSSELL PL	8	VCP	345	40	1	HM	II	900	native		
N10	FB239	R13-2695	R13-2694	1664 AMERICAN AVE	8	VCP	285	40	0	ARHM	III	1860	native		
N10	FB240-3	R13-2691	R14-2728	1820 INDIAN HILL BLVD	8	VCP	304	40	3	HM	II	900	slurry	Yes	Yes
N10	FB241-2	R14-2726	R14-2725	1734 BONNIE BRAE ST	8	VCP	148	20	2	HM	II	600	native		
N12	FB253	R15-2760	R15-2759	1671 E COLUMBIA AVE	8	VCP	222	10	0	HM	II	450	native		
J17	FB-314-17	K22-749	K23-823	1090 W FREMONT ST	8	VCP	350	0	0	HM	II	300	native		
J17	FB-314-19	K23-818	K23-817	913 W FREMONT ST	8	VCP	51	10	0	HM	II	450	native		
J17	FB-314-20	K23-817	K23-814	953 W FREMONT ST	8	VCP	256	10	1	HM	II	450	native		
J17	FB-314-21	K23-813	K23-812	985 W FREMONT ST	8	VCP	96	10	1	HM	II	450	native		
J17	FB-314-22	K23-818	K23-817	952 W FREMONT ST	8	VCP	198	30	0	HM	II	750	native		
J17	FB-316-5	K24-863	K24-845	998 DAYTON AVE	8	VCP	248	20	0	ARHM	III	1360	native		
F12	FB-33-4	F16-1626	F16-1625	2319 BELINDA AVE	8	VCP	330	50	0	HM	II	1050	native		
H12	FB337	H16-921	H16-922	1312 ORANGE GROVE AVE	8	VCP	319	30	2	ARHM	III	1000	slurry	Yes	Yes
H12	FB337-1	H16-922	H16-923	1378 ORANGE GROVE AVE	8	VCP	338	20	2	ARHM	III	800	slurry	Yes	Yes
H13	FB338-1	H17-320	H17-319	1448 LAUREL AVE	8	VCP	389	10	1	HM	II	450	native		
E12	FB-34-2	F16-1635	F16-1605	2363 CONCORD AVE	8	VCP	324	10	0	HM	II	450	native		
H13	FB354	H17-336	H17-319	608 DEL ROSA PL	8	VCP	380	30	0	HM	II	750	native		
N12	FB405-1	P16-2973	P16-2974	791 KARESH AVE	8	VCP	277	10	0	HM	II	450	native		
N12	FB405-2	P16-2974	P17-4051	699 KARESH AVE	8	VCP	280	10	0	HM	II	450	native		
N13	FB411-14	MH-17	MH-18	177 S EAST END AVE	8	VCP	295	10	0	HM	II	450	slurry	Yes	Yes
N14	FB411-17	MH-15	MH-19	285 S EAST END AVE	8	VCP	44	10	0	HM	II	450	slurry	Yes	Yes
L05	FB-416-2	M6-6400	M6-5505	510 FOOTHILL BLVD	8	VCP	91	10	0	HM	II	450	slurry	Yes	Yes
G12	FB418-2	G16-1420	G16-1419	1739 ARROYO AVE	8	VCP	280	10	1	HM	II	450	native		Yes

PIPE SUMMARY
Point Replacements

Atlas Sheet	Facility Number	Upstream Manhole	Downstream Manhole	Street	Pipe Diameter (IN)	Pipe Material	Inspection Footage (FT)	Repair Footage (FT)	# of Laterals	Surface Type	A-26-02 Case #	Pavement Restoration (SF)	Trench Backfill Requirement	Traffic Control Plan Required	Work Hour Restrictions 8:00 - 3:30
G13	FB419-1	H17-343	H17-342	615 ERIE ST	8	VCP	355	30	2	HM	II	750	native		
K07	FB458-3	K7-476	K7-475	2959 FULTON RD	8	VCP	397	10	0	HM	II	450	native		
K06	FB-459	K7-475	K7-474	2984 FULTON RD	8	VCP	36	10	0	HM	II	450	native		
K05	FB463	K6-470	K7-481	3125 FLORINDA ST	8	VCP	286	10	1	ARHM	III	1050	native		
M12	FB-491	N16-4103	N16-4109	881 N SAN ANTONIO AVE	8	VCP	367	10	0	HM	III	360	slurry	Yes	Yes
N11	FB50-1	P15-2905	P15-2903	1441 FARRELL AVE	8	VCP	326	20	1	HM	III	1320	native		
H16	FB502-1	H21-217	H21-210	1547 W GRAND AVE	8	VCP	299	10	0	ARHM	III	1050	native		
G15	FB505-6	H20-250	H20-6736	1703 W NINTH ST	8	VCP	148	10	0	HM	II	450	slurry	Yes	Yes
M14	FB518	N19-3429	N19-3428	1105 E SEVENTH ST	8	VCP	340	30	1	HM	II	750	native		
M14	FB529	N19-3431	N19-3429	1105 E SEVENTH ST	8	VCP	321	10	1	HM	II	450	native		
N11	FB533	R15-2776	R15-2775	1767 E JEFFERSON AVE	8	VCP	397	10	0	HM	II	450	native		
L05	FB-537	M6-5497	M6-5486	3277 FORTNER WAY	8	VCP	167	10	0	HM	II	450	native		
G11	FB564	H15-6207	H15-358	1550 N DUDLEY ST	8	VCP	201	10	1	HM	II	450	slurry	Yes	Yes
K11	FB-579	L14-4206	L14-4199	240 W MCKINLEY AVE	8	CP	272	15	1	HM	III	840	native		
M14	FB581-6	N18-3397	N18-3428	1036 E SECOND ST	8	VCP	313	35	3	HM	II	825	native		
J14	FB-584-19	K18-685	K18-997	739 W MONTEREY AVE	8	VCP	303	10	1	HM	II	450	native		
H13	FB584-4B	H17-337A	H17-338	1451 W HOLT AVE	8	VCP	323	10	0	HM	II	300	slurry	Yes	Yes
J13	FB585-2	J17-2339	J17-2331	966 W HOLT AVE	8	VCP	374	10	1	HM	II	300	slurry	Yes	Yes
H13	FB585-3	J17-2331	J17-2329	1147 W HOLT AVE	8	VCP	370	20	1	HM	II	600	slurry	Yes	Yes
L13	FB-586-1	M18-5741	M18-3951	404 E MONTEREY AVE	8	VCP	180	20	0	HM	II	600	native		
K11	FB-589	L15-4234	L15-4263	125 W ORANGE GROVE AVE	8	VCP	300	30	2	HM	III	1100	slurry	Yes	Yes
K14	FB-60-11	L19-5572	K19-1160	252 W THIRD ST	8	VCP	663	30	0	HM	III	1100	native		
L14	FB601-3	M18-5729	M18-5730	608 E SECOND ST	8	VCP	235	40	4	concrete	II	1620	native		
L14	FB601-6	M18-5730	M19-3953	608 E SECOND ST	8	VCP	18	10	0	concrete	II	810	native		
L11	FB-602-1	L15-4243	L15-4242	342 GARFIELD AVE	8	VCP	325	10	1	HM	II	450	native		
K11	FB-604-1	L15-4266	L15-4265	206 MONROE AVE	8	VCP	350	40	4	HM	III	2100	native		
K11	FB-604-3	L15-4265	L15-4264	194 MONROE AVE	8	VCP	324	10	0	HM	III	1050	native		
K11	FB-604-4	L15-4264	L15-4248	146 MONROE AVE	8	VCP	279	30	0	HM	III	1750	native		
K12	FB606-5	L16-4773	L16-4738	808 N GAREY AVE	8	VCP	842	30	2	HM	II	750	slurry	Yes	Yes
L12	FB618-1	M16-4788	M16-4762	984 N ELEANOR ST	8	VCP	312	30	0	HM	III	1850	native		
L10	FB-665-5	M13-4912	M13-4898	1907 CLOVERDALE DR	8	VCP	262	30	0	HM	II	750	native		
L10	FB-666	M13-2924	M13-4910	1953 RAYLENE PL	8	VCP	176	30	2	HM	II	750	native		
J12	FB-672-2	K15-965	K15-966	747 W ORANGE GROVE AVE	8	VCP	344	40	1	HM	II	900	slurry	Yes	Yes
J17	FB-68-1	K23-801	K24-867	1815 MORRISON ST	8	VCP	361	10	0	ARHM	III	1020	native		
M10	FB697-2	N13-3288	N13-3286	1957 SAN SIMEON ST	8	VCP	353	10	1	HM	II	450	native		
L13	FB7.03	M17-3966	M17-3967	451 E CENTER ST	8	VCP	586	30	2	HM	II	750	native		
M10	FB709	N13-3294	N13-3296	1974 MARIGOLD ST	8	VCP	396	40	1	HM	II	900	native		Yes
L05	FB-733	M6-5524	M6-5523	553 E FOOTHILL BLVD	8	VCP	260	10	0	HM	III	360	slurry	Yes	Yes
L05	FB-734-1	M6-5519	M6-5518	309 E FOOTHILL BLVD	8	VCP	331	20	1	HM	III	320	slurry	Yes	Yes
K05	FB-763-1	L6-5481	L6-5457	200 COVECREST WAY	8	PVC	347	10	0	HM	II	450	native		
K12	FB802-1	L16-4783	L16-4782	954 BRADFORD ST	8	VCP	222	25	1	ARHM	III	1575	native		
K08	FB-809	L10-5133	L10-5132	115 FREDA AVE	8	VCP	389	20	1	HM	II	600	native		
G13	FB811-1	H17-308	H17-343	1633 LAUREL AVE	8	VCP	372	20	1	HM	II	600	native		
F13	FB828-2	F18-1687	F18-4720	369 RANDY ST	8	VCP	318	50	4	ARHM	III	2450	native		
N12	FB88	P15-2894	P15-2895	1574 ELYSIAN AVE	8	VCP	332	10	1	HM	II	450	native		
N12	FB88-1	P15-2895	P15-2890	1520 ELYSIAN AVE	8	VCP	302	30	2	HM	II	750	native		
C18	FB888-3	C24-1532	C24-1533	VALLEY BLVD	8	VCP	259	20	0	HM	II	480	slurry	Yes	Yes
D15	FB888-3	C24-1532	C24-1533	400 VALLEY BLVD	8	VCP	253	10	0	ARHM	III	360	slurry	Yes	Yes
L06	FB-89	M7-5383	M7-5368	2977 SUMNER AVE	8	VCP	208	10	1	HM	II	450	native		
L06	FB-89-1	M7-5368	M7-5353	2955 SUMNER AVE	8	VCP	215	40	0	HM	II	900	slurry		
F13	FB905-3	F17-1652	F17-4756	2241 VALLEY BLVD	8	VCP	290	10	0	HM	II	450	native	Yes	Yes

PIPE SUMMARY
Point Replacements

Atlas Sheet	Facility Number	Upstream Manhole	Downstream Manhole	Street	Pipe Diameter (IN)	Pipe Material	Inspection Footage (FT)	Repair Footage (FT)	# of Laterals	Surface Type	A-26-02 Case #	Pavement Restoration (SF)	Trench Backfill Requirement	Traffic Control Plan Required	Work Hour Restrictions 8:00 - 3:30
E15	FB928-7	E21-1566	E21-1565	3215 PRODUCER WAY	8	VCP	186	10	1	HM	II	450	native		
E16	FB929-2	E21-1564	E21-4995	3215 PRODUCER WAY	8	VCP	231	20	1	HM	II	600	native		
E16	FB990C-1	F22-1920	F22-5114	400 LUCERA CT	8	VCP	234	10	0	HM	II	450	native		
E16	FB990C-2	F22-1921	F21-5097	400 LUCERA CT	8	VCP	301	10	0	HM	II	450	native		
E16	FB990D-2	F22-1919	F22-5113	400 LUCERA CT	8	VCP	319	10	0	HM	II	450	native		
J11	SEW116-8	J14-5796	J14-5793	902 LOMA VISTA ST	8	VCP	143	10	0	HM	II	450	native		
J09	SEW119-2	J12-5914	K13-5838	601 W MCKINLEY AVE	8	VCP	1064	10	1	ARHM	III	1050	slurry	Yes	Yes
J12	SEW176-2	J16-2404	K16-632	1127 CASA VISTA DR	8	VCP	120	30	0	ARHM	III	1750	native		
M14	SEW177-1	N19-3444	N19-3443	370 S RESERVOIR ST	8	VCP	143	20	1	HM	II	480	slurry	Yes	Yes
J09	SEW182	K12-5932	K12-5913	1795 WESTWOOD PL	8	VCP	485	40	4	ARHM	III	2160	native		
J12	SEW190	J16-2416	J16-2415	721 WILSON ST	8	VCP	280	20	1	HM	III	1360	native		
K09	SEW-203	L12-5664	K12-5924	252 SHERWOOD PL	8	VCP	302	30	2	HM	III	1800	native		
K09	SEW203-2	L12-5664	F15-1524	258 SHERWOOD PL	8	VCP	371	50	2	ARHM	III	2450	native		
L13	SEW213-1	M18-3949	M18-5737	350 E COMMERCIAL ST	8	VCP	265	40	2	HM	III	2520	native		
K11	SEW235-6	J16-2408	J16-2407	171 ORANGE GROVE AVE	8	VCP	217	10	1	HM	II	450	slurry	Yes	Yes
H16	SEW249	J21-6181	J21-2272	1304 W GRAND AVE	8	VCP	412	40	4	HM	II	900	native		
N16	SEW255-2	P21-4173	P21-4174	1330 S SIGNAL DR	8	VCP	299	60	2	ARHM	III	2960	native		
J16	SEW262	L21-5754	K21-745	1415 S PARK AVE	8	VCP	270	10	1	ARHM	III	810	native		
M12	SEW287-1	N16-4089	N17-4143	705 LORANNE AVE	8	VCP	269	15	2	HM	II	525	native		
H11	SEW291-1	J15-2289	J16-2402	950 PAVILLION DR	8	VCP	420	20	1	HM	II	600	native		
G15	SEW297-1	G21-1764	G21-6747	1851 GRIER ST (Alley)	8	VCP	198	40	5	ARHM	III	2100	native		
G15	SEW298-8	G20-1896	G20-5091	1933 WRIGHT ST (Alley)	8	VCP	208	30	1	ARHM	III	900	native		
N12	SEW300-4	P16-2939	P16-4345	1244 KINGSLEY AVE	8	VCP	285	50	2	ARHM	III	1260	slurry	Yes	Yes
N12	SEW301-1	P16-2964	P16-2965	1544 BREWSTER DR	8	VCP	270	50	3	HM	II	1050	native		
N12	SEW301-8	P16-2960	P16-2967	1422 BREWSTER DR	8	VCP	335	30	1	HM	II	750	native		
F15	SEW308	F20-1753	F20-1747	1997 PHILLIPS ST	8	VCP	192	30	0	HM	III	750	native		
F15	SEW308-12	F20-1747	G20-5091	1975 WRIGHT ST (Alley)	8	VCP	163	20	0	ARHM	III	1360	native		
G15	SEW308-4	G21-1773	G21-6753	1806 WRIGHT ST	8	VCP	120	20	0	ARHM	III	1400	native		
G16	SEW308-6	G21-1771	G21-6751	1873 PHILLIPS DR (Alley)	8	VCP	369	30	1	ARHM	III	900	native		
G16	SEW308-7A	G21-1770	G21-6751A	1873 PHILLIPS DR (Alley)	8	VCP	213	10	0	ARHM	III	540	native		
J14	SEW328-12	K19-1138	K19-6092	255 S HUNTINGTON ST	8	VCP	332	35	2	HM	II	825	native		
N12	SEW355	P16-4041	P16-4040	1277 MINDO DR	8	VCP	342	10	0	HM	III	990	native		
L14	SEW363	M19-3944	M19-3943	990 E SIXTH ST	8	VCP	292	40	4	HM	II	900	native		
M09	SEW-365-3	N12-3246	N12-3245	2196 N SAN ANTONIO AVE	8	VCP	335	45	1	HM	II	975	slurry	Yes	Yes
M12	SEW-365-5	N12-3244	N13-3291	799 N SAN ANTONIO AVE	8	VCP	319	10	0	HM	III	1860	slurry	Yes	Yes
M09	SEW-367-5	N12-3226	N12-3225	2205 LARCHMONT ST	8	VCP	270	20	0	HM	II	600	native		
L15	SEW73-4	M19-3887	M19-3886	685 E SIXTH ST	8	VCP	661	50	4	HM	II	1050	native		
H14	SEW74-2	H18-1482	H19-1527	FIRST ST	8	VCP	78	20	0	ARHM		720	native		
H14	SEW78-1	J19-2372	J19-2371	254 OAK AVE	8	VCP	335	40	2	HM	III	2160	native		
M14	SEW79-5	J19-2485	J19-2484	1192 FOURTH ST	8	VCP	328	50	6	ARHM	III	2450	native		
H14	SEW80-5	J19-2375	J19-2372	1351 W THIRD ST	8	VCP	323	50	7	HM	III	1610	native		
H14	SEW81-4	J18-2418	J18-2419	1293 W SECOND ST	8	VCP	327	60	5	HM	II	1200	native		
J12	SEW88	K16-617	K16-616	407 W ALVARADO ST	8	VCP	351	20	2	HM	II	600	native		
J12	SEW88-1	K16-616	K16-615	461 W ALVARADO ST	8	VCP	365	20	0	HM	II	600	native		
K15	SEW-91-3	L20-5590	L20-5591	803 S GAREY ST	8	VCP	220	30	3	HM	II	750	slurry	Yes	Yes
K13	SEW94-1	M18-3961	M18-5721	163 E COMMERCIAL ST	8	VCP	106	10	0	HM	II	450	native		
K13	SEW94-2	M18-5721	M18-5732	140 E COMMERCIAL ST	8	VCP	159	10	0	HM	II	450	native		
L13	SEW94-4	M17-3966	M17-3967	452 E CENTER ST	8	VCP	582	50	3	HM	III	2450	native		
L13	SEW94-6	M17-3987	M17-3968	334 E CENTER ST	8	VCP	302	40	4	HM	II	900	native		
L13	SEW95-1	M18-3964	M18-5961	206 N TOWNE AVE	8	VCP	419	40	3	HM	III	2100	slurry	Yes	Yes
L14	SEW98-1	M19-3942	M19-3940	850 E SIXTH ST	8	VCP	254	30	3	HM	II	750	native		

PIPE SUMMARY
Facility Replacements

Atlas Sheet	Facility Number	Upstream Manhole	Downstream Manhole	Street	Pipe Diameter (IN)	Pipe Material	Inspection Footage (FT)	Repair Footage (FT)	# of Laterals	Surface Type	A2602 Case #	Trench Backfill Requirement	Traffic Control Plan Required	Work Hour Restrictions
K08	FB144	K11-542	K11-541	2168 YORBA DR	8	VCP	201	201	7	HM	II	native		
K08	FB144-1	K11-541	K11-537	2075 YORBA DR	8	VCP	173	173	4	HM	II	native		
K08	FB144-2	K11-537	K11-534	2049 YORBA DR	8	VCP	386	386	7	HM	II	native		
K09	FB144-3	K11-534	K11-533	2004 YORBA PL	8	VCP	396	396	10	HM	II	native		
J09	FB144-4	K11-533	K12-5956	1935 YORBA ST	8	VCP	395	395	10	HM	II	native		
J17	FB-314-14	K23-809	K23-808	1766 HUNTINGTON ST	8	VCP	237	237	9	ARHM	III	native		
J17	FB-314-2	K23-824	K23-823	1630 WATERS AVE	8	VCP	162	162	3	ARHM	III	native		
J17	FB-316	K23-819	K24-846	1791 WATERS AVE	8	VCP	326	326	11	ARHM	III	native		
J17	FB-316-2	K23-816	K23-815	1614 S HUNTINGTON ST	8	VCP	208	208	7	ARHM	III	native		
L09	FB-344-3	M12-5017	M12-4997	556 TASMAN AVE	8	VCP	114	114	0	ARHM	III	native		
J11	SEW120-3	K14-567	K14-552	1405 N. WHITE AVE	8	VCP	315	315	3	ARHM	II	slurry	Yes	Yes
K10	SEW174A-3	K13-5896	K13-5906	263 WILARD PL	8	VCP	322	322	7	ARHM	III	native		
G15	SEW278-6	G20-1913	G20-5104	1891 DENISON PL (Alley)	8	VCP	258	262	5	HM	III	native		
M12	SEW287-1	N16-4089	N17-4143	705 LORANNE AVE	8	VCP	269	15	2	HM	II	native		
H11	SEW291-1	J15-2289	J16-2402	950 PAVILLION DR	8	VCP	420	20	1	HM	II	native		
G15	SEW297-1	G21-1764	G21-6747	1851 GRIER ST (Alley)	8	VCP	198	40	5	ARHM	III	native		
F15	SEW297-5	G20-1884	G20-4925	1927 GRIER ST (Alley)	8	VCP	333	333	6	ARHM	III	native		
G15	SEW298-1	G21-1894	G21-6771	1587 WRIGHT ST	8	VCP	183	183	7	ARHM	III	native		
F15	SEW308-13	F20-1891	G20-4929	1995 WRIGHT ST (Alley)	8	VCP	219	215	0	ARHM	III	native		

Manhole Rehabilitation Data

Atlas Sheet	Manhole Number	Manhole Diameter (IN)	Manhole Depth (IN)	Extention Depth (IN)	Comments
Clean and Line Existing Manhole with Epoxy/Urethane Coating System					
F17	F242505	48	132	N/A	Located in easement in private street (Gated Community)
H19	J262045	48	132	N/A	
Manhole Channel replacement/reform List					
K11	L154263	48	96	N/A	
K11	L154232	48	96	N/A	
K11	K15967	48	96	N/A	
Manhole Extension List					
M10	N133261	48	96	96	
M10	N135533	48	96	96	
E14	E191255	48	96	96	
J19	J272023	48	96	96	

FACILITY NUMBER:		FB-458-3			
CCTV Subcontractor:	CITY	Upstream MH:	K7-476	Downstream MH:	K7-475
Field Data Input Date:	11/29/2006	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	1087.11	Downstream MH I.E	1082.43
QC Date:	9/23/2009				
Street Name:	2988 FULTON ST	Footage Inspected:	356	Prioritization Code:	3
Cross Street:	LAURIE LN	Map Length:	432	Recommendation Code:	C & D
Gate Book Page	K7	Pipe Size:	8 in	Defect Points per Foot:	0.8
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	326
Joint Spacing:	6'			Repair/Replacement Length:	30
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 476-475-13291106.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	11/29/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	13:39	Ending Feet	356

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		K7-476
0	WL-1	Water Level	0	0		AT 0%
23	CL-2	Crack – Longitudinal, Small	0	50		
45	CP-1	Plugged Connection	0	0	9	
48	CP-1	Plugged Connection	0	0	2	
80	CL-2	Crack – Longitudinal, Small	0	50		
84	CB-1	Break in Connection	0	50	10	
86	CP-1	Plugged Connection	0	0	10	
89	CP-1	Plugged Connection	0	0	2	
89	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUSLY
152	CP-1	Plugged Connection	0	0	10	
154	CP-1	Plugged Connection	0	0	3	
198	CN-1	Service Connection	0	0	9	
253	CP-1	Plugged Connection	0	0	10	
255	CP-1	Plugged Connection	0	0	2	
287	CL-3	Crack – Longitudinal, Moderate	0	100		NEEDS REPAIR
293	CC-3	Circular Crack, Moderate	0	100		NEEDS REPAIR
298	SR-1	Spot Repair	0	50		
298	MC-1	Material Change	0	0		FROM VCP TO CI
310	MC-1	Material Change	0	0		FROM CI TO VCP
342	CB-1	Break in Connection	0	50	10	
351	SR-1	Spot Repair	0	50		NEEDS REPAIR

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
351	DJ-3	Displaced Joint, Moderate	0	100		
356	DJ-4	Displaced Joint, Heavy	0	200		RED FLAG
356	SA-1	Inspection Suspended	75	100		
356	FH-1	Finish Inspection	0	0		
TOTAL POINTS			125	900		

FACILITY NUMBER:		FB-1037-2			
CCTV Subcontractor:	CITY	Upstream MH:	J26-2048	Downstream MH:	J26-2049
Field Data Input Date:	2/26/2008	Upstream MH Elevation:	853.60	Downstream MH Elevation:	850.60
QC Review:	TCE	Upstream MH I.E:	846.12	Downstream MH I.E:	845.63
QC Date:	6/15/2009				
Street Name:	78 QUIET HILLS	Footage Inspected:	308	Prioritization Code:	3
Cross Street:	CANYON RIM RD	Map Length:	307	Recommendation Code:	B, C & D
Gate Book Page:	J26	Pipe Size:	15 in.	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	257
Joint Spacing:	6'			Repair/Replacement Length:	50
				Rehabilitation Length:	0
				Cleaning Frequency:	24 MONTHS
WM VIDEO: 2048-2049-12260208.MPG					
General Comments: 1. UPSTREAM MH ID ON VIDEO DISPLAYS "J26-2040", UPSTREAM MH ID ON DATABASE DISPLAYS "J26-2048".					
2. RED FLAG					

Direction of Travel:	DS	Inspection Date:	2/26/2008	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:29	Ending Feet	308

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH J26-2048
0	WL-1	Water Level	0	0		AT 30%
35	E-2	Mineral Deposits, Light	0	50	12	CONTINUOUS
40	CM-4	Cracks – Multiple, Large	0	200		
46	B-2	Broken Pipe, Small	0	200	10	AT JOINT
46	R-2	Roots, Light	25	0	2	SOIL ENTERING AT JOINT
100	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
132	R-2	Roots, Light	25	0	9	AT JOINT
175	E-2	Mineral Deposits, Light	0	50		
232	E-2	Mineral Deposits, Light	0	50		AT JOINT
261	R-2	Roots, Light	25	0		AT JOINT
262	CC-5	Circular Crack, Critical	0	250		RED FLAG
275	R-2	Roots, Light	25	0		AT JOINT
275	E-2	Mineral Deposits, Light	0	50		
276	CC-5	Circular Crack, Critical	0	250		RED FLAG
289	B-5	Broken Pipe, Critical	0	500		RED FLAG
301	CC-3	Circular Crack, Moderate	0	100	8 TO 4	
308	MH-1	Manhole	0	0		MH J26-2049
308	FH-1	Finish Inspection	0	0		
TOTAL POINTS			150	1700		

FACILITY NUMBER:		FB-11-1			
CCTV Subcontractor:	CITY	Upstream MH:	P19-2982	Downstream MH:	P19-2981
Field Data Input Date:	5/29/2007	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	873.04	Downstream MH I.E	872.44
QC Date:	10/21/2009				
Street Name:	1655 E MISSION BLVD	Footage Inspected:	217	Prioritization Code:	3
Cross Street:	SE END AVE	Map Length:	357	Recommendation Code:	D
Gate Book Page	P19	Pipe Size:	8 in	Defect Points per Foot:	0.1
Zip Code:	91767	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	20
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 2982-2981-11290507.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	5/29/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	11:00	Ending Feet	217

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH P19-2982
0	WL-1	Water Level	0	0		AT 10%
22	CP-1	Plugged Connection	0	0	2	
66	CC-2	Circular Crack, Small	0	75		NEEDS REPAIR
107	CP-1	Plugged Connection	0	0	2	
150	CB-1	Break in Connection	0	50	3	
162	CP-1	Plugged Connection	0	0	2	
211	B-4	Broken Pipe, Large	0	300		RED FLAG
217	SA-1	Inspection Suspended	75	100		
217	FH-1	Finish Inspection	0	0		
TOTAL POINTS			75	525		

FACILITY NUMBER:		FB-11-4			
CCTV Subcontractor:	CITY	Upstream MH:	P19-2978	Downstream MH:	P19-2980
Field Data Input Date:	6/14/2007	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	873.76	Downstream MH I.E	872.35
QC Date:	10/21/2009				
Street Name:	1664 E MISSION BLVD	Footage Inspected:	71	Prioritization Code:	3
Cross Street:	SE END AVE	Map Length:	370	Recommendation Code:	B & D
Gate Book Page	P19	Pipe Size:	8 in	Defect Points per Foot:	0.2
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	61
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 2978-2980-12140607.MPG					
General Comments: INSPECTION SUSPENDED DUE TO INTRUDING LATERAL PRIORITY 3 DUE TO INTRUDING LATERAL. OTHERWISE PRIORITY 1					

Direction of Travel:	DS	Inspection Date:	6/14/2007	Starting Feet	0	
Camera Operator:	CITY	Inspection Time:	13:21	Ending Feet	71	
Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH P19-2978
0	WL-1	Water Level	0	0		AT 10%
40	DE-2	Debris, Light	50	0		
57	CP-1	Plugged Connection	0	0	10	
71	CB-1	Break in Connection	0	50	9	
71	CNI-5	Intruding Lateral, Critical	0	300		RED FLAG
71	SA-1	Inspection Suspended	75	100		DUE TO INTRUDING LATERAL
71	FH-1	Finish Inspection	0	0		
TOTAL POINTS			125	450		

FACILITY NUMBER:		FB-128			
CCTV Subcontractor:	CITY	Upstream MH:	D21-1831	Downstream MH:	D21-1833
Field Data Input Date:	5/7/2007	Upstream MH Elevation:	703.63	Downstream MH Elevation:	698.80
QC Review:	TCE	Upstream MH I.E	695.15	Downstream MH I.E	691.17
QC Date:	10/22/2009				
Street Name:	230 W VALLEY ST.	Footage Inspected:	382	Prioritization Code:	3
Cross Street:	TEMPLE AVE.	Map Length:	381	Recommendation Code:	C & D
Gate Book Page	D21	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	351
Joint Spacing:	6'			Repair/Replacement Length:	30
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 1833-1831-13070507.MPG					
General Comments: 1. RED FLAG, RECOMMEND SPOT REPAIR.					

Direction of Travel:	US	Inspection Date:	5/7/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	13:13	Ending Feet	382

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH D21-1833
0	WL-1	Water Level	0	0		AT 30%
30	WL-1	Water Level	0	0		AT 20%
39	CP-1	Plugged Connection	0	0		
40	WL-1	Water Level	0	0		AT 10%
92	CP-1	Plugged Connection	0	0	10	
139	CC-3	Circular Crack, Moderate	0	100		NEEDS REPAIR
141	CP-1	Plugged Connection	0	0	10	
148	CL-2	Crack – Longitudinal, Small	0	50		
191	CP-1	Plugged Connection	0	0	10	
243	CP-1	Plugged Connection	0	0	10	
246	R-2	Roots, Light	25	0		
250	CL-4	Crack – Longitudinal, Large	0	175		RED FLAG
292	CP-1	Plugged Connection	0	0	10	
299	CM-2	Cracks – Multiple, Small	0	75		
336	CC-2	Circular Crack, Small	0	75		
369	CM-2	Cracks – Multiple, Small	0	75		CONTINUOUS
376	CM-4	Cracks – Multiple, Large	0	200		NEEDS REPAIR
382	MH-1	Manhole	0	0		MH D21-1831
382	FH-1	Finish Inspection	0	0		
TOTAL POINTS			25	750		

FACILITY NUMBER:		FB144			
CCTV Subcontractor:	CITY	Upstream MH:	K11-542	Downstream MH:	K11-541
Field Data Input Date:	8/25/2009	Upstream MH Elevation:	1012.58	Downstream MH Elevation:	1008.95
QC Review:	TCE	Upstream MH I.E	1005.12	Downstream MH I.E	995.22
QC Date:	9/24/2009				
Street Name:	2168 YORBA DR.	Footage Inspected:	201	Prioritization Code:	3
Cross Street:	ARMOUR ST.	Map Length:	201	Recommendation Code:	F
Gate Book Page	K11	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91768	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	201
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 542-541-00250809.MPG					
General Comments: 1. MH K11-541 IS A DROP MANHOLE					
2. RED FLAG					

Direction of Travel:	DS	Inspection Date:	8/25/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	0:00	Ending Feet	201

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K11-542
0	WL-1	Water Level	0	0		AT 10%
2	R-3	Roots, Moderate	75	50		
3	CN-1	Service Connection	0	0	10	
3	CR-4	Roots in Lateral, Heavy	75	50		
4	R-3	Roots, Moderate	75	50		CONTINUOUS
4	CN-1	Service Connection	0	0	2	
4	CR-5	Roots in Lateral, Critical	150	50		
5	CN-1	Service Connection	0	0	10	
5	CR-3	Roots in Lateral, Moderate	50	0		
6	CL-2	Crack – Longitudinal, Small	0	50		
10	CL-3	Crack – Longitudinal, Moderate	0	100		
17	CM-3	Cracks – Multiple, Moderate	0	150		
18	CN-1	Service Connection	0	0	2	
20	CM-2	Cracks – Multiple, Small	0	75		
30	CM-4	Cracks – Multiple, Large	0	200		
33	CC-2	Circular Crack, Small	0	75		
36	CL-2	Crack – Longitudinal, Small	0	50		
43	CM-3	Cracks – Multiple, Moderate	0	150		
46	CM-4	Cracks – Multiple, Large	0	200		
50	CM-4	Cracks – Multiple, Large	0	200		RED FLAG

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
53	CM-3	Cracks – Multiple, Moderate	0	150		
56	CM-2	Cracks – Multiple, Small	0	75		
63	CM-2	Cracks – Multiple, Small	0	75		
64	CN-1	Service Connection	0	0	10	
64	CR-3	Roots in Lateral, Moderate	50	0		
68	WL-1	Water Level	0	0		AT 5%
72	CM-2	Cracks – Multiple, Small	0	75		
75	R-2	Roots, Light	25	0		CONTINUOUS
75	CM-3	Cracks – Multiple, Moderate	0	150		
79	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
104	CN-1	Service Connection	0	0	2	
104	DEG-5	Debris – Grease, Critical	225	0		HIGH PRIORITY. IN LATERAL
105	R-2	Roots, Light	25	0		CONTINUOUS
105	CM-2	Cracks – Multiple, Small	0	75		
112	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
139	CM-3	Cracks – Multiple, Moderate	0	150		
159	CM-3	Cracks – Multiple, Moderate	0	150		
177	CN-1	Service Connection	0	0	2	
177	CR-4	Roots in Lateral, Heavy	75	50		
194	CM-4	Cracks – Multiple, Large	0	200		
195	B-4	Broken Pipe, Large	0	300		
201	MH-1	Manhole	0	0		DROP MH K11-541
201	FH-1	Finish Inspection	0	0		
TOTAL POINTS			825	3200		

FACILITY NUMBER:		FB144-1			
CCTV Subcontractor:	CITY	Upstream MH:	K11-541	Downstream MH:	K11-537
Field Data Input Date:	8/25/2009	Upstream MH Elevation:	1008.95	Downstream MH Elevation:	1005.73
QC Review:	TCE	Upstream MH I.E	995.22	Downstream MH I.E	993.88
QC Date:	9/24/2009				
Street Name:	2075 YORBA DR.	Footage Inspected:	173	Prioritization Code:	3
Cross Street:	ALISO ST.	Map Length:	172	Recommendation Code:	F
Gate Book Page	K11	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91768	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	173
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 541-537-00250809.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	8/25/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	0:00	Ending Feet	173

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K11-541
0	WL-1	Water Level	0	0		AT 5%
3	R-3	Roots, Moderate	75	50		CONTINUOUS
3	SR-1	Spot Repair	0	50		
3	B-2	Broken Pipe, Small	0	200		
3	CN-1	Service Connection	0	0	10	
3	CR-3	Roots in Lateral, Moderate	50	0		
5	CM-4	Cracks – Multiple, Large	0	200		
9	CM-4	Cracks – Multiple, Large	0	200		
17	CC-2	Circular Crack, Small	0	75		
23	CM-3	Cracks – Multiple, Moderate	0	150		
37	R-2	Roots, Light	25	0		CONTINUOUS
44	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
48	CN-1	Service Connection	0	0	2	
53	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
56	CM-4	Cracks – Multiple, Large	0	200		
70	CM-4	Cracks – Multiple, Large	0	200		
73	SJ-3	Separated Joint, Moderate	0	100		
83	CM-3	Cracks – Multiple, Moderate	0	150		
86	R-3	Roots, Moderate	75	50		
94	CN-1	Service Connection	0	0	10	
94	CR-3	Roots in Lateral, Moderate	50	0		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
102	CM-3	Cracks – Multiple, Moderate	0	150		
120	CN-1	Service Connection	0	0		
120	DEG-4	Debris – Grease, Large	150	0		IN LATERAL
121	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
126	R-3	Roots, Moderate	75	50		
131	CM-3	Cracks – Multiple, Moderate	0	150		
135	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
162	CM-4	Cracks – Multiple, Large	0	200		
171	DE-3	Debris, Moderate	75	0		
173	MH-1	Manhole	0	0		MH K11-537
173	FH-1	Finish Inspection	0	0		
TOTAL POINTS			575	2875		

FACILITY NUMBER:		FB144-2			
CCTV Subcontractor:	CITY	Upstream MH:	K11-537	Downstream MH:	K11-534
Field Data Input Date:	8/25/2009	Upstream MH Elevation:	1005.73	Downstream MH Elevation:	998.53
QC Review:	TCE	Upstream MH I.E	993.88	Downstream MH I.E	991.00
QC Date:	9/24/2009				
Street Name:	2049 YORBA DR.	Footage Inspected:	386	Prioritization Code:	3
Cross Street:	ALISO ST.	Map Length:	392	Recommendation Code:	F
Gate Book Page	K11	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91768	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	386
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 537-534-12250809.MPG					
General Comments: 1. RED FLAG, RECOMMEND REPLACING MANHOLE TO MANHOLE.					

Direction of Travel:	DS	Inspection Date:	8/25/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:58	Ending Feet	386

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K11-537
0	WL-1	Water Level	0	0		AT 10%
2	R-3	Roots, Moderate	75	50		
2	CM-2	Cracks – Multiple, Small	0	75		
3	CN-1	Service Connection	0	0	10	
3	CR-3	Roots in Lateral, Moderate	50	0		
6	WL-1	Water Level	0	0		AT 5%
14	CL-2	Crack – Longitudinal, Small	0	50		
18	CM-3	Cracks – Multiple, Moderate	0	150		RED FLAG
22	CM-2	Cracks – Multiple, Small	0	75		
23	CN-1	Service Connection	0	0	2	
23	CR-4	Roots in Lateral, Heavy	75	50		
24	CM-2	Cracks – Multiple, Small	0	75		
26	CM-3	Cracks – Multiple, Moderate	0	150		RED FLAG
30	CL-3	Crack – Longitudinal, Moderate	0	100		
37	R-3	Roots, Moderate	75	50		CONTINUOUS
44	CM-2	Cracks – Multiple, Small	0	75		
47	CM-3	Cracks – Multiple, Moderate	0	150		
74	CC-2	Circular Crack, Small	0	75		
78	CL-2	Crack – Longitudinal, Small	0	50		
81	CM-3	Cracks – Multiple, Moderate	0	150		RED FLAG
82	CN-1	Service Connection	0	0	10	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
84	H-2	Hole in Pipe, Small	0	250		RED FLAG
84	CM-2	Cracks – Multiple, Small	0	75		
87	CM-3	Cracks – Multiple, Moderate	0	150		RED FLAG
90	CM-2	Cracks – Multiple, Small	0	75		
100	R-2	Roots, Light	25	0		CONTINUOUS
100	CM-3	Cracks – Multiple, Moderate	0	150		
101	CN-1	Service Connection	0	0	2	
103	CM-3	Cracks – Multiple, Moderate	0	150		RED FLAG
106	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
109	CM-4	Cracks – Multiple, Large	0	200		
112	CM-3	Cracks – Multiple, Moderate	0	150		
116	CM-4	Cracks – Multiple, Large	0	200		
120	CM-2	Cracks – Multiple, Small	0	75		
126	CM-2	Cracks – Multiple, Small	0	75		
136	CM-3	Cracks – Multiple, Moderate	0	150		
139	CM-3	Cracks – Multiple, Moderate	0	150		
142	CM-2	Cracks – Multiple, Small	0	75		
149	CC-2	Circular Crack, Small	0	75		
149	R-3	Roots, Moderate	75	50		CONTINUOUS
159	CM-2	Cracks – Multiple, Small	0	75		
160	CN-1	Service Connection	0	0	10	
160	CR-2	Roots in Lateral, Light	20	0		
172	CL-2	Crack – Longitudinal, Small	0	50		
178	CL-3	Crack – Longitudinal, Moderate	0	100		
179	CN-1	Service Connection	0	0		
179	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
181	CM-3	Cracks – Multiple, Moderate	0	150		
190	CL-2	Crack – Longitudinal, Small	0	50		
194	CL-2	Crack – Longitudinal, Small	0	50		
197	CM-4	Cracks – Multiple, Large	0	200		
204	CC-2	Circular Crack, Small	0	75		
211	CM-3	Cracks – Multiple, Moderate	0	150		
220	R-3	Roots, Moderate	75	50		CONTINUOUS
227	CM-3	Cracks – Multiple, Moderate	0	150		
238	CM-4	Cracks – Multiple, Large	0	200		
241	CM-3	Cracks – Multiple, Moderate	0	150		
246	CN-1	Service Connection	0	0		
246	CR-4	Roots in Lateral, Heavy	75	50		
247	WL-1	Water Level	0	0		AT 10%

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
251	CM-2	Cracks – Multiple, Small	0	75		
253	CM-3	Cracks – Multiple, Moderate	0	150		
263	CM-4	Cracks – Multiple, Large	0	200		
265	CN-1	Service Connection	0	0		
265	CR-5	Roots in Lateral, Critical	150	50		
266	WL-1	Water Level	0	0		AT 5%
269	CL-2	Crack – Longitudinal, Small	0	50		
286	CM-3	Cracks – Multiple, Moderate	0	150		
293	R-3	Roots, Moderate	75	50		CONTINUOUS
294	WL-1	Water Level	0	0		AT 10%
296	CM-2	Cracks – Multiple, Small	0	75		
323	CL-3	Crack – Longitudinal, Moderate	0	100		
331	CN-1	Service Connection	0	0	10	
331	CR-5	Roots in Lateral, Critical	150	50		
331	CM-3	Cracks – Multiple, Moderate	0	150		
343	CB-1	Break in Connection	0	50	2	DEBRIS IN LATERAL
349	CM-2	Cracks – Multiple, Small	0	75		
350	CN-1	Service Connection	0	0	2	
350	CR-5	Roots in Lateral, Critical	150	50		
355	CM-2	Cracks – Multiple, Small	0	75		
375	R-2	Roots, Light	25	0		CONTINUOUS
375	CM-2	Cracks – Multiple, Small	0	75		
385	DE-3	Debris, Moderate	75	0		
386	MH-1	Manhole	0	0		MH K11-534
386	FH-1	Finish Inspection	0	0		
TOTAL POINTS			1320	6550		

FACILITY NUMBER:		FB144-3			
CCTV Subcontractor:	CITY	Upstream MH:	K11-534	Downstream MH:	K11-533
Field Data Input Date:	8/25/2009	Upstream MH Elevation:	998.53	Downstream MH Elevation:	989.03
QC Review:	TCE	Upstream MH I.E	991.00	Downstream MH I.E	981.35
QC Date:	9/24/2009				
Street Name:	2004 YORBA PL.	Footage Inspected:	396	Prioritization Code:	3
Cross Street:	ARMOUR ST.	Map Length:	396	Recommendation Code:	F
Gate Book Page	K11	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91768	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	396
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 534-533-14250809.MPG					
General Comments: RED FLAG.					

Direction of Travel:	DS	Inspection Date:	8/25/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	14:51	Ending Feet	396

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K11-534
0	WL-1	Water Level	0	0		AT 5%
7	R-2	Roots, Light	25	0		CONTINUOUS
7	CL-3	Crack – Longitudinal, Moderate	0	100		
10	CM-2	Cracks – Multiple, Small	0	75		
31	CN-1	Service Connection	0	0		
31	CR-4	Roots in Lateral, Heavy	75	50		
40	CM-2	Cracks – Multiple, Small	0	75		
41	CN-1	Service Connection	0	0	2	
42	CM-3	Cracks – Multiple, Moderate	0	150		
42	R-2	Roots, Light	25	0		CONTINUOUS
49	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
56	CC-2	Circular Crack, Small	0	75		
63	CM-2	Cracks – Multiple, Small	0	75		
76	CM-2	Cracks – Multiple, Small	0	75		
63	CC-2	Circular Crack, Small	0	75		
86	CM-2	Cracks – Multiple, Small	0	75		
88	CM-2	Cracks – Multiple, Small	0	75		
100	CL-3	Crack – Longitudinal, Moderate	0	100		
103	CM-2	Cracks – Multiple, Small	0	75		
103	R-2	Roots, Light	25	0		CONTINUOUS
110	R-3	Roots, Moderate	75	50		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
110	CC-2	Circular Crack, Small	0	75		
117	CN-1	Service Connection	0	0		
117	CR-4	Roots in Lateral, Heavy	75	50		
119	CM-3	Cracks – Multiple, Moderate	0	150		
120	CN-1	Service Connection	0	0		
120	CR-4	Roots in Lateral, Heavy	75	50		
128	CM-3	Cracks – Multiple, Moderate	0	150		
131	CM-2	Cracks – Multiple, Small	0	75		
151	CM-3	Cracks – Multiple, Moderate	0	150		
158	CM-2	Cracks – Multiple, Small	0	75		
162	CM-3	Cracks – Multiple, Moderate	0	150		
165	R-2	Roots, Light	25	0		CONTINUOUS
172	CM-3	Cracks – Multiple, Moderate	0	150		
175	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
178	R-2	Roots, Light	25	0		
178	CM-2	Cracks – Multiple, Small	0	75		
186	CC-2	Circular Crack, Small	0	75		
198	R-3	Roots, Moderate	75	50		CONTINUOUS
198	CM-3	Cracks – Multiple, Moderate	0	150		
199	CN-1	Service Connection	0	0	10	
201	CN-1	Service Connection	0	0	2	
201	CR-3	Roots in Lateral, Moderate	50	0		
206	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
246	CM-3	Cracks – Multiple, Moderate	0	150		
256	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
259	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
262	R-3	Roots, Moderate	75	50		CONTINUOUS
272	CM-4	Cracks – Multiple, Large	0	200		
276	CM-4	Cracks – Multiple, Large	0	200		
277	CN-1	Service Connection	0	0	10	
279	CM-3	Cracks – Multiple, Moderate	0	150		
279	CN-1	Service Connection	0	0	2	
284	CM-3	Cracks – Multiple, Moderate	0	150		
290	CM-4	Cracks – Multiple, Large	0	200		
308	CM-2	Cracks – Multiple, Small	0	75		
311	CM-4	Cracks – Multiple, Large	0	200		
311	R-3	Roots, Moderate	75	50		
318	CM-2	Cracks – Multiple, Small	0	75		
341	R-2	Roots, Light	25	0		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
344	CM-2	Cracks – Multiple, Small	0	75		
347	CM-3	Cracks – Multiple, Moderate	0	150		
356	CN-1	Service Connection	0	0	10	
356	CR-4	Roots in Lateral, Heavy	75	50		
357	CN-1	Service Connection	0	0	2	
357	CR-5	Roots in Lateral, Critical	150	50		
363	CM-3	Cracks – Multiple, Moderate	0	150		
366	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
372	R-3	Roots, Moderate	75	50		
379	CM-3	Cracks – Multiple, Moderate	0	150		
396	MH-1	Manhole	0	0		MH K11-533
396	FH-1	Finish Inspection	0	0		
TOTAL POINTS			1025	5875		

FACILITY NUMBER:		FB144-4			
CCTV Subcontractor:	CITY	Upstream MH:	K11-533	Downstream MH:	K12-5956
Field Data Input Date:	8/26/2009	Upstream MH Elevation:	989.03	Downstream MH Elevation:	981.32
QC Review:	TCE	Upstream MH I.E	981.35	Downstream MH I.E	973.00
QC Date:	9/24/2009				
Street Name:	1935 YORBA DR	Footage Inspected:	395	Prioritization Code:	3
Cross Street:	ALISO ST	Map Length:	395	Recommendation Code:	F
Gate Book Page	K11	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91768	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	395
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 533-5956-11260809.MPG					
General Comments: RED FLAG, RECOMMEND REPLACE FROM MANHOLE TO MANHOLE.					

Direction of Travel:	DS	Inspection Date:	8/26/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	11:03	Ending Feet	395

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K11-533
0	WL-1	Water Level	0	0		AT 10%
0	R-2	Roots, Light	25	0		
0	SS-4	Erosion of CP, Heavy	0	300		INSIDE MANHOLE
4	R-2	Roots, Light	25	0		CONTINUOUS
8	CL-3	Crack – Longitudinal, Moderate	0	100		
8	H-2	Hole in Pipe, Small	0	250		
18	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
22	R-2	Roots, Light	25	0		CONTINUOUS
35	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
38	R-2	Roots, Light	25	0		CONTINUOUS
39	CN-1	Service Connection	0	0	2	
39	CR-4	Roots in Lateral, Heavy	75	50		
41	B-2	Broken Pipe, Small	0	200		RED FLAG
42	CN-1	Service Connection	0	0	9	
42	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
50	R-2	Roots, Light	25	0		CONTINUOUS
52	CL-3	Crack – Longitudinal, Moderate	0	100		CONTINUOUS
60	CM-4	Cracks – Multiple, Large	0	200		
60	B-3	Broken Pipe, Moderate	0	250		RED FLAG
80	R-2	Roots, Light	25	0		
80	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
83	R-2	Roots, Light	25	0		
83	CM-4	Cracks – Multiple, Large	0	200		
103	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
107	CM-5	Cracks – Multiple, Critical	0	300		RED FLAG
107	R-2	Roots, Light	25	0		CONTINUOUS
113	CM-4	Cracks – Multiple, Large	0	200		
120	CM-4	Cracks – Multiple, Large	0	200		
121	CN-1	Service Connection	0	0	2	
121	CXC-2	Connection w/ Small Defect	0	50		JOINT DISPLACED
121	CR-3	Roots in Lateral, Moderate	50	0		
122	CM-3	Cracks – Multiple, Moderate	0	150		
123	CN-1	Service Connection	0	0	10	
123	CXC-2	Connection w/ Small Defect	0	50		JOINT DISPLACED
123	CR-3	Roots in Lateral, Moderate	50	0		
131	CC-2	Circular Crack, Small	0	75		
145	CM-2	Cracks – Multiple, Small	0	75		CONTINUOUS
155	R-2	Roots, Light	25	0		CONTINUOUS
158	CC-2	Circular Crack, Small	0	75		
169	CM-3	Cracks – Multiple, Moderate	0	150		
171	CM-4	Cracks – Multiple, Large	0	200		
178	R-2	Roots, Light	25	0		CONTINUOUS
192	CM-2	Cracks – Multiple, Small	0	75		
196	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
200	CN-1	Service Connection	0	0	2	
200	CR-4	Roots in Lateral, Heavy	75	50		RED FLAG
200	DE-4	Debris, Heavy	150	0		
202	R-2	Roots, Light	25	0		
205	R-3	Roots, Moderate	75	50		CONTINUOUS
208	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
209	CN-1	Service Connection	0	0	10	
209	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
217	R-2	Roots, Light	25	0		CONTINUOUS
231	CM-3	Cracks – Multiple, Moderate	0	150		
233	CM-2	Cracks – Multiple, Small	0	75		
237	R-2	Roots, Light	25	0		CONTINUOUS
244	CL-2	Crack – Longitudinal, Small	0	50		
248	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
254	R-3	Roots, Moderate	75	50		CONTINUOUS
268	R-3	Roots, Moderate	75	50		CONTINUOUS

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
271	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
282	CN-1	Service Connection	0	0	2	
282	CR-3	Roots in Lateral, Moderate	50	0		
286	R-2	Roots, Light	25	0		
291	R-2	Roots, Light	25	0		
291	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
292	CN-1	Service Connection	0	0	10	
292	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
294	R-4	Roots, Heavy	150	50		CONTINUOUS
310	CM-3	Cracks – Multiple, Moderate	0	150		
314	R-2	Roots, Light	25	0		CONTINUOUS
314	CM-3	Cracks – Multiple, Moderate	0	150		
323	CL-2	Crack – Longitudinal, Small	0	50		
327	CC-3	Circular Crack, Moderate	0	100		
334	R-2	Roots, Light	25	0		CONTINUOUS
334	CM-3	Cracks – Multiple, Moderate	0	150		
361	CM-3	Cracks – Multiple, Moderate	0	150		CONTINUOUS
363	CN-1	Service Connection	0	0	2	
363	CR-3	Roots in Lateral, Moderate	50	0		
367	R-2	Roots, Light	25	0		
372	CN-1	Service Connection	0	0	10	
372	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
380	R-2	Roots, Light	25	0		CONTINUOUS
380	CC-2	Circular Crack, Small	0	75		
389	CC-2	Circular Crack, Small	0	75		
393	LR-1	Bend in Pipe Right	0	50		
393	DJ-3	Displaced Joint, Moderate	0	100		
394	SS-4	Erosion of CP, Heavy	0	300		INSIDE MANHOLE.
395	MH-1	Manhole	0	0		MH K12-5956
395	FH-1	Finish Inspection	0	0		
TOTAL POINTS			1950	6675		

FACILITY NUMBER:		FB-314			
CCTV Subcontractor:	CITY	Upstream MH:	K22-763	Downstream MH:	K22-764
Field Data Input Date:	3/8/2006	Upstream MH Elevation:	799.79	Downstream MH Elevation:	796.66
QC Review:	TCE	Upstream MH I.E	792.41	Downstream MH I.E	789.66
QC Date:	8/12/2009				
Street Name:	1519 WATERS AVE.	Footage Inspected:	74	Prioritization Code:	3
Cross Street:	W PHILLIPS BLVD	Map Length:	337	Recommendation Code:	F
Gate Book Page	K22	Pipe Size:	8 in	Defect Points per Foot:	0.2
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	74
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 763-764-07080306.MPG					
General Comments:					

Direction of Travel:	DS	Inspection Date:	3/8/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	7:48	Ending Feet	74

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K22-763
0	WL-1	Water Level	0	0		AT 1%. SLUDGE
14	CN-1	Service Connection	0	0	2	
20	CN-1	Service Connection	0	0	10	
22	DE-2	Debris, Light	50	0		
30	CN-1	Service Connection	0	0	10	
31	CC-2	Circular Crack, Small	0	75		
66	DE-2	Debris, Light	50	0		
74	FH-1	Finish Inspection	0	0		
TOTAL POINTS			100	75		

FACILITY NUMBER: FB-314-14

CCTV Subcontractor:	CITY	Upstream MH:	K23-809	Downstream MH:	K23-808
Field Data Input Date:	3/10/2006	Upstream MH Elevation:	786.97	Downstream MH Elevation:	785.83
QC Review:	TCE	Upstream MH I.E	779.39	Downstream MH I.E	777.83
QC Date:	8/13/2009				
Street Name:	1766 HUNTINGTON ST	Footage Inspected:	237	Prioritization Code:	3
Cross Street:	FREMONT ST	Map Length:	239	Recommendation Code:	F
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	237
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 809-808-07130306.MPG					
General Comments: 1. CCTV INSPECTION VIDEO INCREDIBLY BLURRY FOR 120.' REINSPECTION HIGHLY RECOMMENDED BEFORE ACTION IS TAKEN					

Direction of Travel:	DS	Inspection Date:	3/10/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	14:37	Ending Feet	237

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-809
0	WL-1	Water Level	0	0		AT 15%
9	CN-1	Service Connection	0	0	2	
9	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
58	CN-1	Service Connection	0	0	2	
63	CN-1	Service Connection	0	0	10	
68	CN-1	Service Connection	0	0	2	
68	WL-1	Water Level	0	0		AT 20%
77	CN-1	Service Connection	0	0	10	
77	CR-2	Roots in Lateral, Light	20	0		
129	CL-3	Crack – Longitudinal, Moderate	0	100		
130	CN-1	Service Connection	0	0	10	
136	WL-1	Water Level	0	0		AT 10%
144	CC-2	Circular Crack, Small	0	75		
150	R-2	Roots, Light	25	0		
150	CL-3	Crack – Longitudinal, Moderate	0	100		
156	CC-2	Circular Crack, Small	0	75		
162	CL-4	Crack – Longitudinal, Large	0	175		
170	CN-1	Service Connection	0	0	2	
170	CR-3	Roots in Lateral, Moderate	50	0		
178	CM-3	Cracks – Multiple, Moderate	0	150		
196	CM-3	Cracks – Multiple, Moderate	0	150		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
199	CM-3	Cracks – Multiple, Moderate	0	150		
203	CM-3	Cracks – Multiple, Moderate	0	150		
206	CL-2	Crack – Longitudinal, Small	0	50		
223	CN-1	Service Connection	0	0	2	
223	CR-2	Roots in Lateral, Light	20	0		
224	CM-3	Cracks – Multiple, Moderate	0	150		
226	CN-1	Service Connection	0	0	10	
228	CM-2	Cracks – Multiple, Small	0	75		
237	MH-1	Manhole	0	0		MH K23-808
237	FH-1	Finish Inspection	0	0		
TOTAL POINTS			265	1450		

FACILITY NUMBER:		FB-314-17			
CCTV Subcontractor:	CITY	Upstream MH:	K22-749	Downstream MH:	K23-823
Field Data Input Date:	3/14/2006	Upstream MH Elevation:	794.20	Downstream MH Elevation:	792.50
QC Review:	TCE	Upstream MH I.E	787.08	Downstream MH I.E	785.38
QC Date:	8/15/2009				
Street Name:	1090 W FREMONT ST	Footage Inspected:	269	Prioritization Code:	3
Cross Street:	S HAMILTON BLVD	Map Length:	370	Recommendation Code:	D & E
Gate Book Page	K22	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	269
				Cleaning frequency:	36 MONTHS
WM VIDEO: 749-823-09140306.MPG					
General Comments: 1. INSPECTION CONTINUED FROM VIDEO "749-823-08140306.MPG".					
2. RED FLAG DUE TO MODERATE CRACK UNDER WATER LEVEL.					

Direction of Travel:	DS	Inspection Date:	3/14/2006	Starting Feet	81
Camera Operator:	CITY	Inspection Time:	9:13	Ending Feet	350

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
81	ST-1	Start Inspection	0	0		
81	WL-1	Water Level	0	0		AT 10%
88	DE-2	Debris, Light	50	0		UNDER WATER
91	CN-1	Service Connection	0	0	10	
92	CM-2	Cracks – Multiple, Small	0	75		
104	CN-1	Service Connection	0	0	2	
105	CC-2	Circular Crack, Small	0	75		
110	CN-1	Service Connection	0	0	2	
110	CXC-2	Connection w/ Small Defect	0	50		MINOR SOIL INTRUSION AT JOINT
111	CM-2	Cracks – Multiple, Small	0	75		
114	CM-2	Cracks – Multiple, Small	0	75		
129	CM-2	Cracks – Multiple, Small	0	75		
144	CM-2	Cracks – Multiple, Small	0	75		
154	CM-2	Cracks – Multiple, Small	0	75		
166	CM-2	Cracks – Multiple, Small	0	75		
179	CC-2	Circular Crack, Small	0	75		
196	CN-1	Service Connection	0	0	10	
196	CXC-2	Connection w/ Small Defect	0	50		MINOR SOIL INTRUSION AT JOINT
196	CM-3	Cracks – Multiple, Moderate	0	150		
214	CN-1	Service Connection	0	0	2	
214	CR-3	Roots in Lateral, Moderate	50	0		
223	CN-1	Service Connection	0	0	2	CAMERA DOES NOT FULLY INSPECT

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
227	CC-2	Circular Crack, Small	0	75		
242	CN-1	Service Connection	0	0	10	
243	CL-2	Crack – Longitudinal, Small	0	50		
246	CC-2	Circular Crack, Small	0	75		
262	CL-2	Crack – Longitudinal, Small	0	50		
271	CM-2	Cracks – Multiple, Small	0	75		
301	CM-2	Cracks – Multiple, Small	0	75		
304	CM-3	Cracks – Multiple, Moderate	0	150		UNDER WATER, RED FLAG
320	CM-3	Cracks – Multiple, Moderate	0	150		
336	CL-2	Crack – Longitudinal, Small	0	50		
345	CM-2	Cracks – Multiple, Small	0	75		
350	V-1	Vermin	0	0		COCKROACHES IN MANHOLE
350	MH-1	Manhole	0	0		MH K23-823
350	FH-1	Finish Inspection	0	0		
TOTAL POINTS			100	1750		

FACILITY NUMBER:		FB-314-19			
CCTV Subcontractor:	CITY	Upstream MH:	K23-818	Downstream MH:	K23-817
Field Data Input Date:	2/14/2006	Upstream MH Elevation:	792.97	Downstream MH Elevation:	792.19
QC Review:	TCE	Upstream MH I.E	785.97	Downstream MH I.E	785.04
QC Date:	8/15/2009				
Street Name:	913 W FREMONT ST.	Footage Inspected:	51	Prioritization Code:	3
Cross Street:	S WHITE AVE	Map Length:	50	Recommendation Code:	D
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	0.2
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 818-817-10140306.MPG					
General Comments: 1. INSPECTION SUSPENDED AT 51' DUE TO SEVERE CRACKS. REINPSECTION RECOMMENDED.					

Direction of Travel:	DS	Inspection Date:	2/14/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	10:05	Ending Feet	51

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-818
0	WL-1	Water Level	0	0		AT 0%
14	WL-1	Water Level	0	0		AT 1%
18	CN-1	Service Connection	0	0	2	
19	WL-1	Water Level	0	0		AT 5%
21	CN-1	Service Connection	0	0	10	
23	DE-2	Debris, Light	50	0		
30	CN-1	Service Connection	0	0	2	
32	DEG-2	Debris – Grease, Slight	50	0		
36	CN-1	Service Connection	0	0	10	LIGHT DEBRIS IN CONNECTION
50	CM-5	Cracks – Multiple, Critical	0	300		RED FLAG
51	SA-1	Inspection Suspended	75	100		
51	FH-1	Finish Inspection	0	0		
TOTAL POINTS			175	400		

FACILITY NUMBER:		FB-314-20			
CCTV Subcontractor:	CITY	Upstream MH:	K23-817	Downstream MH:	K23-814
Field Data Input Date:	2/14/2006	Upstream MH Elevation:	792.19	Downstream MH Elevation:	793.66
QC Review:	TCE	Upstream MH I.E	785.04	Downstream MH I.E	784.19
QC Date:	8/15/2009				
Street Name:	953 W FREMONT ST.	Footage Inspected:	256	Prioritization Code:	3
Cross Street:	S WHITE AVE	Map Length:	261	Recommendation Code:	D & E
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	256
				Cleaning frequency:	36 MONTHS
WM VIDEO: 817-814-10140306.MPG					
General Comments: 1. CCTV INSPECTION SUMMARY HAS DOWNSTREAM AND UPSTREAM MANHOLE SWITCHED					

Direction of Travel:	DS	Inspection Date:	2/14/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	10:46	Ending Feet	256

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-817
0	WL-1	Water Level	0	0		AT 5%
1	CM-3	Cracks – Multiple, Moderate	0	150		
1	WL-1	Water Level	0	0		AT 10%
18	CM-3	Cracks – Multiple, Moderate	0	150		
30	CN-1	Service Connection	0	0	2	
37	CM-3	Cracks – Multiple, Moderate	0	150		
39	CN-1	Service Connection	0	0	10	
40	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
43	CL-2	Crack – Longitudinal, Small	0	50		
74	CM-3	Cracks – Multiple, Moderate	0	150		
86	CN-1	Service Connection	0	0	10	
92	CN-1	Service Connection	0	0	2	
94	CM-3	Cracks – Multiple, Moderate	0	150		
98	CN-1	Service Connection	0	0	2	
106	CM-3	Cracks – Multiple, Moderate	0	150		
107	CN-1	Service Connection	0	0	10	
127	CC-2	Circular Crack, Small	0	75		
142	CM-3	Cracks – Multiple, Moderate	0	150		
160	CN-1	Service Connection	0	0	10	
160	CR-2	Roots in Lateral, Light	20	0		
164	DE-2	Debris, Light	50	0		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
189	CM-3	Cracks – Multiple, Moderate	0	150		
197	CN-1	Service Connection	0	0	2	
205	CL-2	Crack – Longitudinal, Small	0	50		
213	CN-1	Service Connection	0	0		
216	CN-1	Service Connection	0	0	10	
206	CR-2	Roots in Lateral, Light	20	0		
223	CL-2	Crack – Longitudinal, Small	0	50		
233	CM-2	Cracks – Multiple, Small	0	75		
248	CC-3	Circular Crack, Moderate	0	100		
256	MH-1	Manhole	0	0		MH K23-814
256	FH-1	Finish Inspection	0	0		
TOTAL POINTS			90	1800		

FACILITY NUMBER:		FB-314-21			
CCTV Subcontractor:	CITY	Upstream MH:	K23-813	Downstream MH:	K23-812
Field Data Input Date:	2/14/2006	Upstream MH Elevation:	792.01	Downstream MH Elevation:	791.10
QC Review:	TCE	Upstream MH I.E	784.98	Downstream MH I.E	783.61
QC Date:	8/15/2009				
Street Name:	985 W FREMONT ST.	Footage Inspected:	96	Prioritization Code:	3
Cross Street:	HUNTINGTON ST	Map Length:	95	Recommendation Code:	C & D
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	85
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 813-812-11140306.MPG					
General Comments: 1. INSPECTION SUSPENDED AT 95' DUE TO SEVERE ROOTS IN LATERAL. REINSPECTION HIGHLY RECOMMENDED.					

Direction of Travel:	DS	Inspection Date:	2/14/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	11:03	Ending Feet	96

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-813
0	WL-1	Water Level	0	0		AT 15%
6	CL-3	Crack – Longitudinal, Moderate	0	100		
8	CN-1	Service Connection	0	0	10	
12	CN-1	Service Connection	0	0	2	
16	WL-1	Water Level	0	0		AT 20%
22	CL-2	Crack – Longitudinal, Small	0	50		
38	CL-2	Crack – Longitudinal, Small	0	50		
45	DEG-2	Debris – Grease, Slight	50	0		
50	R-2	Roots, Light	25	0		CONTINUOUS
68	CL-2	Crack – Longitudinal, Small	0	50		
94	CC-2	Circular Crack, Small	0	75		
95	R-3	Roots, Moderate	75	50		
96	CN-1	Service Connection	0	0	10	
96	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
96	SA-1	Inspection Suspended	75	100		
96	FH-1	Finish Inspection	0	0		
TOTAL POINTS			375	525		

FACILITY NUMBER: FB-314-22

CCTV Subcontractor:	CITY	Upstream MH:	K23-818	Downstream MH:	K23-817
Field Data Input Date:	2/14/2006	Upstream MH Elevation:	792.97	Downstream MH Elevation:	792.19
QC Review:	TCE	Upstream MH I.E	785.97	Downstream MH I.E	785.04
QC Date:	8/15/2009	Footage Inspected:	198	Prioritization Code:	3
Street Name:	952 W FREMONT ST.	Map Length:	198	Recommendation Code:	D
Cross Street:	S WHITE AVE	Pipe Size:	8 in	Defect Points per Foot:	0.2
Gate Book Page	K23	Pipe Material:	VCP	Maintenance Length:	0
Zip Code:	91766			Repair/Replacement Length:	30
Joint Spacing:	6'			Rehabilitation Length:	0

WM VIDEO: 817-818-10140306.MPG

General Comments: 1. INSPECTION SUSPENDED AT 198' DUE TO SEVERE CRACKS IN MAIN

Direction of Travel:	US	Inspection Date:	2/14/2006	Starting Feet	0	Comments	
Camera Operator:	CITY	Inspection Time:	10:05	Ending Feet	198	Comments	
Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments	
0	ST-1	Start Inspection	0	0			
0	MH-1	Manhole	0	0		MH K23-817	
0	WL-1	Water Level	0	0		AT 10%	
4	CN-1	Service Connection	0	0	10		
44	DE-2	Debris, Light	50	0			
52	CN-1	Service Connection	0	0	2		
62	CN-1	Service Connection	0	0	2		
77	CL-3	Crack – Longitudinal, Moderate	0	100			
99	CC-2	Circular Crack, Small	0	75			
111	CN-1	Service Connection	0	0	10		
121	CN-1	Service Connection	0	0	10		
121	DE-2	Debris, Light	50	0			
133	CM-3	Cracks – Multiple, Moderate	0	150			
166	CN-1	Service Connection	0	0	2		
198	CM-5	Cracks – Multiple, Critical	0	300		RED FLAG	
198	DEG-2	Debris – Grease, Slight	50	0			
198	SA-1	Inspection Suspended	75	100			
198	FH-1	Finish Inspection	0	0			
TOTAL POINTS			225	725			

FACILITY NUMBER:		FB-316			
CCTV Subcontractor:	CITY	Upstream MH:	K23-819	Downstream MH:	K24-846
Field Data Input Date:	3/8/2006	Upstream MH Elevation:	785.46	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	777.85	Downstream MH I.E	771.96
QC Date:	8/13/2009				
Street Name:	1791 WATERS AVE.	Footage Inspected:	326	Prioritization Code:	3
Cross Street:	FREMONT ST	Map Length:	343	Recommendation Code:	F
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	326
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 819-846-10090306.MPG					
General Comments: 1. DATE ON CCTV INSPECITION SUMMERY (3/10/2006) DOES NOT MATCH WITH DATE ON VIDEO (3/9/2006)					
1. DOWNSTREAM MANHOLE LISTED ON CCTV INSPECITION SUMMERY (K24-846) DOES NOT MATCH WITH DATE ON VIDEO (K23-865)					

Direction of Travel:	DS	Inspection Date:	3/8/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	10:24	Ending Feet	326

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-819
0	WL-1	Water Level	0	0		AT 15%
6	DEG-2	Debris – Grease, Slight	50	0		
40	CC-2	Circular Crack, Small	0	75		
50	CC-3	Circular Crack, Moderate	0	100		
52	CN-1	Service Connection	0	0	10	
53	CL-2	Crack – Longitudinal, Small	0	50		
55	CN-1	Service Connection	0	0	2	
55	CL-2	Crack – Longitudinal, Small	0	50		
75	CL-2	Crack – Longitudinal, Small	0	50		
86	CM-2	Cracks – Multiple, Small	0	75		
93	CM-2	Cracks – Multiple, Small	0	75		
104	CN-1	Service Connection	0	0	10	
107	CN-1	Service Connection	0	0	2	
107	CR-2	Roots in Lateral, Light	20	0		
109	CL-2	Crack – Longitudinal, Small	0	50		
118	CM-2	Cracks – Multiple, Small	0	75		CONTINUOUS
141	CL-3	Crack – Longitudinal, Moderate	0	100		
152	CC-2	Circular Crack, Small	0	75		
157	CN-1	Service Connection	0	0	10	
160	CN-1	Service Connection	0	0	2	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
183	CM-2	Cracks – Multiple, Small	0	75		
192	CM-3	Cracks – Multiple, Moderate	0	150		
198	CM-2	Cracks – Multiple, Small	0	75		
205	CM-2	Cracks – Multiple, Small	0	75		
207	CN-1	Service Connection	0	0	10	
210	CN-1	Service Connection	0	0	3	
214	CM-3	Cracks – Multiple, Moderate	0	150		
222	CM-2	Cracks – Multiple, Small	0	75		
242	CL-2	Crack – Longitudinal, Small	0	50		
245	CM-2	Cracks – Multiple, Small	0	75		
257	CN-1	Service Connection	0	0	10	
257	CR-2	Roots in Lateral, Light	20	0		
260	CN-1	Service Connection	0	0	2	
273	R-2	Roots, Light	25	0		
273	CL-3	Crack – Longitudinal, Moderate	0	100		
306	CN-1	Service Connection	0	0	10	
306	CR-3	Roots in Lateral, Moderate	50	0		
307	CL-2	Crack – Longitudinal, Small	0	50		
309	CP-1	Plugged Connection	0	0	2	
310	WL-1	Water Level	0	0		AT 30%
316	R-2	Roots, Light	25	0		
319	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
326	MH-1	Manhole	0	0		MH K23-846
326	FH-1	Finish Inspection	0	0		
TOTAL POINTS			190	1850		

FACILITY NUMBER:		FB-316-2			
CCTV Subcontractor:	CITY	Upstream MH:	K23-816	Downstream MH:	K23-815
Field Data Input Date:	3/8/2006	Upstream MH Elevation:	795.13	Downstream MH Elevation:	793.2
QC Review:	TCE	Upstream MH I.E	788.29	Downstream MH I.E	786.26
QC Date:	8/13/2009				
Street Name:	1614 HUNTINGTON ST	Footage Inspected:	208	Prioritization Code:	3
Cross Street:	FREMONT ST	Map Length:	215	Recommendation Code:	F
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	208
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 816-815-12100308.MPG					
General Comments:					

Direction of Travel:	DS	Inspection Date:	3/8/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:54	Ending Feet	208

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-816
0	WL-1	Water Level	0	0		AT 10%
1	CM-3	Cracks – Multiple, Moderate	0	150		
2	CN-1	Service Connection	0	0	10	
5	CC-3	Circular Crack, Moderate	0	100		
17	CL-3	Crack – Longitudinal, Moderate	0	100		
17	R-2	Roots, Light	25	0		
26	CN-1	Service Connection	0	0	10	
26	CXC-2	Connection w/ Small Defect	0	50		
28	CM-3	Cracks – Multiple, Moderate	0	150		
38	CM-3	Cracks – Multiple, Moderate	0	150		
49	CN-1	Service Connection	0	0	2	
51	CL-2	Crack – Longitudinal, Small	0	50		
66	CM-3	Cracks – Multiple, Moderate	0	150		
72	CM-3	Cracks – Multiple, Moderate	0	150		
79	CC-2	Circular Crack, Small	0	75		
88	CL-2	Crack – Longitudinal, Small	0	50		
94	CM-3	Cracks – Multiple, Moderate	0	150		
96	CN-1	Service Connection	0	0		
97	CL-2	Crack – Longitudinal, Small	0	50		
107	CM-3	Cracks – Multiple, Moderate	0	150		
108	CN-1	Service Connection	0	0	10	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
114	CN-1	Service Connection	0	0	2	
119	CM-3	Cracks – Multiple, Moderate	0	150		
125	CM-4	Cracks – Multiple, Large	0	200		
131	CL-2	Crack – Longitudinal, Small	0	50		
141	CM-2	Cracks – Multiple, Small	0	75		
156	CL-2	Crack – Longitudinal, Small	0	50		
158	CM-3	Cracks – Multiple, Moderate	0	150		
170	CN-1	Service Connection	0	0	10	
170	DE-2	Debris, Light	50	0		
175	CL-3	Crack – Longitudinal, Moderate	0	100		
196	CM-3	Cracks – Multiple, Moderate	0	150		
208	MH-1	Manhole	0	0		MH K23-815
208	FH-1	Finish Inspection	0	0		
TOTAL POINTS			75	2450		

FACILITY NUMBER:		FB-316-5			
CCTV Subcontractor:	CITY	Upstream MH:	K24-863	Downstream MH:	K24-845
Field Data Input Date:	2/14/2006	Upstream MH Elevation:	779.27	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	771.60	Downstream MH I.E	770.31
QC Date:	8/15/2009				
Street Name:	998 DAYTON AVE	Footage Inspected:	248	Prioritization Code:	3
Cross Street:	S HUNTINGTON ST	Map Length:	257	Recommendation Code:	B, C, & D
Gate Book Page	K24	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	228
Joint Spacing:	6'			Repair/Replacement Length:	20
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 863-845-13140306.MPG					
General Comments:					

Direction of Travel:	DS	Inspection Date:	2/14/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	13:33	Ending Feet	248

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K24-863
0	WL-1	Water Level	0	0		AT 20%
10	R-2	Roots, Light	25	0		
16	CL-2	Crack – Longitudinal, Small	0	50		
18	CN-1	Service Connection	0	0	10	
21	CP-1	Plugged Connection	0	0	2	
32	WL-1	Water Level	0	0		AT 25%
48	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
56	DEG-2	Debris – Grease, Slight	50	0		
59	R-2	Roots, Light	25	0		
61	CL-2	Crack – Longitudinal, Small	0	50		
66	CN-1	Service Connection	0	0	10	
69	CN-1	Service Connection	0	0	2	
69	CR-4	Roots in Lateral, Heavy	75	50		
71	CC-2	Circular Crack, Small	0	75		
76	DEG-2	Debris – Grease, Slight	50	0		
78	CM-4	Cracks – Multiple, Large	0	200		REPAIR 2 SECTIONS
86	CM-2	Cracks – Multiple, Small	0	75		
98	DEG-2	Debris – Grease, Slight	50	0		
108	CL-2	Crack – Longitudinal, Small	0	50		
118	CN-1	Service Connection	0	0	10	
121	CN-1	Service Connection	0	0	2	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
131	DEG-2	Debris – Grease, Slight	50	0		
136	R-2	Roots, Light	25	0		
167	CN-1	Service Connection	0	0	10	
171	CN-1	Service Connection	0	0	2	
179	CC-2	Circular Crack, Small	0	75		
204	CC-2	Circular Crack, Small	0	75		
247	DEG-2	Debris – Grease, Slight	50	0		
248	MH-1	Manhole	0	0		MH K24-845
248	FH-1	Finish Inspection	0	0		
TOTAL POINTS			400	900		

FACILITY NUMBER:		FB502-1			
CCTV Subcontractor:	CITY	Upstream MH:	H21-216	Downstream MH:	H21-211
Field Data Input Date:	10/28/2009	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	786.50	Downstream MH I.E	785.15
QC Date:	12/15/2009				
Street Name:	1563 PALMER ST	Footage Inspected:	322	Prioritization Code:	3
Cross Street:	DUDLEY ST	Map Length:	341	Recommendation Code:	B
Gate Book Page	H21	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	341
Joint Spacing:	6'			Repair/Replacement Length:	0
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 216-211-10281009.MPG					
General Comments:					

Direction of Travel:	DS	Inspection Date:	10/28/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	10:59	Ending Feet	322

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH H21-216
0	WL-1	Water Level	0	0		AT 10%
0	V-1	Vermin	0	0		COCKROACHES
7	CN-1	Service Connection	0	0	2	
30	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
56	CN-1	Service Connection	0	0	10	
58	CN-1	Service Connection	0	0	2	
116	CN-1	Service Connection	0	0	2	
121	CN-1	Service Connection	0	0	10	
142	CN-1	Service Connection	0	0	9	
142	DE-3	Debris, Moderate	75	0		IN LATERAL
172	CN-1	Service Connection	0	0	3	
261	CN-1	Service Connection	0	0	2	
272	CN-1	Service Connection	0	0	10	
307	WL-1	Water Level	0	0		AT 30%
312	CN-1	Service Connection	0	0	2	
315	DE-4	Debris, Heavy	150	0		
322	SA-1	Inspection Suspended	75	100		
322	FH-1	Finish Inspection	0	0		
TOTAL POINTS			350	100		

FACILITY NUMBER:		FB-518			
CCTV Subcontractor:	CITY	Upstream MH:	N19-3429	Downstream MH:	N19-3428
Field Data Input Date:	7/12/2007	Upstream MH Elevation:	859.50	Downstream MH Elevation:	867.50
QC Review:	TCE	Upstream MH I.E	851.81	Downstream MH I.E	853.52
QC Date:	10/27/2009				
Street Name:	1105 E SEVENTH ST	Footage Inspected:	340	Prioritization Code:	3
Cross Street:	S RESERVOIR ST	Map Length:	333	Recommendation Code:	B, C, & D
Gate Book Page	N19	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	303
Joint Spacing:	6'			Repair/Replacement Length:	30
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3428-3429-00120707.MPG					
General Comments: 1. FIELD INSPECTION VIDEO DOES NOT DISPLAY ANY FACILITY INFORMATION, INFORMATION TAKEN FROM CCTV INSPECTION SUMMARY DATA SHEET. 2. RED FLAG DUE TO BROKEN PIECE OF PIPE AT RISK OF COLLAPSING INTO SEWER MAIN.					

Direction of Travel:	US	Inspection Date:	7/12/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	UNKNOWN	Ending Feet	340

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH N19-3428
0	WL-1	Water Level	0	0		AT 15%
0	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
11	CN-1	Service Connection	0	0	10	
30	WL-1	Water Level	0	0		AT 5%
44	CN-1	Service Connection	0	0	2	
46	CN-1	Service Connection	0	0	10	
59	DE-2	Debris, Light	50	0		
61	WL-1	Water Level	0	0		AT 20%
95	CN-1	Service Connection	0	0	10	
97	CP-1	Plugged Connection	0	0	2	
123	B-3	Broken Pipe, Moderate	0	250		RED FLAG
124	DEG-2	Debris – Grease, Slight	50	0		
124	CB-1	Break in Connection	0	50	9	
145	CN-1	Service Connection	0	0	2	
148	CN-1	Service Connection	0	0	10	
175	WL-1	Water Level	0	0		AT 10%
196	CN-1	Service Connection	0	0	10	
198	CP-1	Plugged Connection	0	0	2	
223	R-2	Roots, Light	25	0		
224	CB-1	Break in Connection	0	50	11	ROOTS ENTERING AROUND BREAK IN CONNECTION, NEEDS REPAIR

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
247	CN-1	Service Connection	0	0	2	
249	CN-1	Service Connection	0	0	10	
297	CN-1	Service Connection	0	0	2	
300	CP-1	Plugged Connection	0	0	10	
322	CB-1	Break in Connection	0	50	10	
322	CNI-2	Intruding Lateral, Small	0	75		NEEDS REPAIR
323	SR-1	Spot Repair	0	50		POORLY PATCHED HOLE, NEEDS REPAIR
331	WL-1	Water Level	0	0		AT 0%
339	DE-2	Debris, Light	50	0		IN MANHOLE TROUGH
340	MH-1	Manhole	0	0		MH N19-3429
340	DND-1	Dead End	0	0		AT END OF MANHOLE TROUGH
340	FH-1	Finish Inspection	0	0		
TOTAL POINTS			225	525		

FACILITY NUMBER:		FB-529			
CCTV Subcontractor:	CITY	Upstream MH:	N19-3431	Downstream MH:	N19-3429
Field Data Input Date:	7/12/2007	Upstream MH Elevation:	863.12	Downstream MH Elevation:	859.50
QC Review:	TCE	Upstream MH I.E	857.49	Downstream MH I.E	851.81
QC Date:	10/27/2009				
Street Name:	1105 E SEVENTH ST	Footage Inspected:	321	Prioritization Code:	3
Cross Street:	S RESERVOIR ST	Map Length:	320	Recommendation Code:	C & D
Gate Book Page	N19	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	310
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3429-3431-09120707.MPG					
General Comments: 1. RED FLAG DUE TO COLLAPSED LATERAL CONNECTION.					

Direction of Travel:	US	Inspection Date:	7/12/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	9:22	Ending Feet	321

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH N19-3429
0	WL-1	Water Level	0	0		AT 5%
4	R-2	Roots, Light	25	0		
7	R-2	Roots, Light	25	0		
12	R-2	Roots, Light	25	0		
25	R-2	Roots, Light	25	0		
29	R-2	Roots, Light	25	0		
33	R-2	Roots, Light	25	0		
45	CP-1	Plugged Connection	0	0	10	CAMERA DOES NOT INSPECT
48	CP-1	Plugged Connection	0	0	2	CAMERA DOES NOT INSPECT
49	R-2	Roots, Light	25	0		
62	R-2	Roots, Light	25	0		
69	R-2	Roots, Light	25	0		
79	R-2	Roots, Light	25	0		
94	R-3	Roots, Moderate	75	50		
96	CN-1	Service Connection	0	0	10	
96	CR-4	Roots in Lateral, Heavy	75	50		HIGH PRIORITY
98	CP-1	Plugged Connection	0	0	2	
133	R-2	Roots, Light	25	0		
145	CP-1	Plugged Connection	0	0	10	
148	CP-1	Plugged Connection	0	0	2	
149	R-2	Roots, Light	25	0		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
162	R-2	Roots, Light	25	0		
179	R-2	Roots, Light	25	0		
186	R-2	Roots, Light	25	0		
195	CP-1	Plugged Connection	0	0	10	
195	R-2	Roots, Light	25	0		
197	CP-1	Plugged Connection	0	0	2	
198	R-2	Roots, Light	25	0		
245	CP-1	Plugged Connection	0	0	10	
247	CP-1	Plugged Connection	0	0	2	
298	CN-1	Service Connection	0	0	10	
298	CXC-5	Connection w/ Critical Defect	75	200		COLLAPSED LATERAL CONNECTION, RED FLAG
300	CP-1	Plugged Connection	0	0	2	
321	MH-1	Manhole	0	0		MH N19-3431
321	FH-1	Finish Inspection	0	0		
TOTAL POINTS			650	300		

FACILITY NUMBER:		FB-537			
CCTV Subcontractor:	CITY	Upstream MH:	M6-5497	Downstream MH:	M6-5486
Field Data Input Date:	10/19/2005	Upstream MH Elevation:	1161.96	Downstream MH Elevation:	1155.30
QC Review:	TCE	Upstream MH I.E	1152.61	Downstream MH I.E	1148.01
QC Date:	7/13/2009				
Street Name:	3277 FORTNER WAY	Footage Inspected:	167	Prioritization Code:	3
Cross Street:	VILLAGE LOOP RD.	Map Length:	167	Recommendation Code:	B, C & D
Gate Book Page	M6	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91767	Pipe Material:	VCP	Maintenance Length:	157
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 5486-5497-13191005.MPG					
General Comments:					

Direction of Travel:	US	Inspection Date:	10/19/2005	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	13:00	Ending Feet	167

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M6-5486
0	WL-1	Water Level	0	0		AT 10%
1	R-2	Roots, Light	25	0		
3	CN-1	Service Connection	0	0	3	
29	R-2	Roots, Light	25	0		
40	DEG-2	Debris – Grease, Slight	50	0		
140	B-4	Broken Pipe, Large	0	300		RED FLAG
159	DEG-3	Debris – Grease, Moderate	75	0		
163	R-4	Roots, Heavy	150	50		
166	DE-3	Debris, Moderate	75	0		
167	MH-1	Manhole	0	0		MH M6-5497
167	FH-1	Finish Inspection	0	0		
TOTAL POINTS			400	350		

FACILITY NUMBER:		FB-581-6			
CCTV Subcontractor:	CITY	Upstream MH:	N18-3397	Downstream MH:	N18-3428
Field Data Input Date:	5/10/2007	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E.		Downstream MH I.E.	
QC Date:	10/22/2009				
Street Name:	1036 E SECOND ST	Footage Inspected:	313	Prioritization Code:	3
Cross Street:	PICO ST	Map Length:	318	Recommendation Code:	B & D
Gate Book Page	N18	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	278
Joint Spacing:	6'			Repair/Replacement Length:	35
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3397-3428-14100507.MPG					
General Comments: RED FLAG.					

Direction of Travel:	DS	Inspection Date:	5/10/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	14:41	Ending Feet	313

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH N18-3397
0	WL-1	Water Level	0	0		AT 5%
2	CB-1	Break in Connection	0	50	10	
2	CNI-2	Intruding Lateral, Small	0	75		NEEDS REPAIR
52	CB-1	Break in Connection	0	50	2	
55	CL-2	Crack – Longitudinal, Small	0	50		
69	CNI-2	Intruding Lateral, Small	0	75	11	
69	CXC-3	Connection w/ Moderate Defect	25	100		HOLE, NEEDS REPAIR
97	CN-1	Service Connection	0	0	11	
107	CN-1	Service Connection	0	0	1	
115	CL-2	Crack – Longitudinal, Small	0	50		
150	CB-1	Break in Connection	0	50	11	
155	CN-1	Service Connection	0	0	1	
183	CP-1	Plugged Connection	0	0	11	
188	CN-1	Service Connection	0	0	1	
228	CP-1	Plugged Connection	0	0	11	
230	CP-1	Plugged Connection	0	0	1	
233	CB-1	Break in Connection	0	50	10	
238	CB-1	Break in Connection	0	50	2	
266	CB-1	Break in Connection	0	50	1	
266	DE-4	Debris, Heavy	150	0		INSIDE LATERAL
269	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
274	H-2	Hole in Pipe, Small	0	250		NEEDS REPAIR
275	SR-1	Spot Repair	0	50		NEEDS REPAIR
278	CN-1	Service Connection	0	0	11	
278	CXC-4	Connection w/ Heavy Defect	50	150		HOLE, RED FLAG
283	CP-1	Plugged Connection	0	0	2	
304	WL-1	Water Level	0	0		AT 45%. HIGH WATER LEVEL BACK UP FROM DOWN STREAM MANHOLE.
313	V-1	Vermin	0	0		COCKROACHES
313	MH-1	Manhole	0	0		MH N18-3428
313	FH-1	Finish Inspection	0	0		
TOTAL POINTS			275	1100		

FACILITY NUMBER:		SEW-228-2			
CCTV Subcontractor:	CITY	Upstream MH:	N18-3415	Downstream MH:	N18-3414
Field Data Input Date:	6/29/2007	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	865.78	Downstream MH I.E	
QC Date:	10/27/2009				
Street Name:	1211 E THIRD ST	Footage Inspected:	149	Prioritization Code:	1
Cross Street:	S RESERVOIR ST	Map Length:	336	Recommendation Code:	A
Gate Book Page	N18	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	0
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3414-3415-12290607.MPG					
General Comments:					

Direction of Travel:	US	Inspection Date:	6/29/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:56	Ending Feet	149

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	GO-1	General Observation	0	0		PIPE MATERIAL APPEARS TO BE PVC
0	WL-1	Water Level	0	0		AT 30%
1	CUB-1	Camera Underwater Begin	50	50		
12	MC-1	Material Change	0	0		PVC TO VCP
15	CUE-1	Camera Underwater End	50	50		
15	WL-1	Water Level	0	0		AT 20%
90	WL-1	Water Level	0	0		AT 30%
140	GO-1	General Observation	0	0		CAMERA PARTIALLY UNDER WATER UNTIL MANHOLE
149	MH-1	Manhole	0	0		MH N18-3415
149	FH-1	Finish Inspection	0	0		
TOTAL POINTS			100	100		

FACILITY NUMBER: SEW-228-1

CCTV Subcontractor:	CITY	Upstream MH:	N18-3416	Downstream MH:	N18-3415
Field Data Input Date:	6/29/2007	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	867.50	Downstream MH I.E	865.78
QC Date:	10/27/2009				
Street Name:	1211 E THIRD ST	Footage Inspected:	302	Prioritization Code:	3
Cross Street:	S RESERVOIR ST	Map Length:	303	Recommendation Code:	B & D
Gate Book Page	N18	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	283
Joint Spacing:	6'			Repair/Replacement Length:	20
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3416-3415-11290607.MPG					
General Comments: 1. FLOW IS BACKING UP FROM DOWNSTREAM FACILITY, RECOMMEND TO CLEAN DOWNSTREAM MANHOLE AND DOWNSTREAM FACILITY.					

Direction of Travel:	DS	Inspection Date:	6/29/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	11:04	Ending Feet	302

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH N18-3416
0	WL-1	Water Level	0	0		AT 10%
39	CN-1	Service Connection	0	0	10	
50	DE-2	Debris, Light	50	0		
78	CN-1	Service Connection	0	0	10	
85	DE-2	Debris, Light	50	0		CONTINUOUS
100	DE-2	Debris, Light	50	0		CONTINUOUS
129	CN-1	Service Connection	0	0	10	
130	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
135	CB-1	Break in Connection	0	50	2	SOIL INTRUSION, NEEDS REPAIR
175	DE-2	Debris, Light	50	0		
219	CB-1	Break in Connection	0	50	3	
219	CNI-4	Intruding Lateral, Heavy	0	250		NEEDS REPAIR
230	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
245	WL-1	Water Level	0	0		AT 20%
255	DE-2	Debris, Light	50	0		CONTINUOUS
261	WL-1	Water Level	0	0		AT 10%
275	CN-1	Service Connection	0	0	3	
280	WL-1	Water Level	0	0		AT 30%
282	CM-2	Cracks – Multiple, Small	0	75		
288	WL-1	Water Level	0	0		AT 40%
291	CM-2	Cracks – Multiple, Small	0	75		

FACILITY NUMBER:		FB-601-6			
CCTV Subcontractor:	CITY	Upstream MH:	M18-5730	Downstream MH:	M19-3953
Field Data Input Date:	5/24/2007	Upstream MH Elevation:	872.36	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	865.71	Downstream MH I.E	858.41
QC Date:	10/23/2009				
Street Name:	608 E SECOND ST	Footage Inspected:	18	Prioritization Code:	3
Cross Street:	LINDEN ST	Map Length:	338	Recommendation Code:	D
Gate Book Page	M18	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 5730-3953-10240507.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	5/24/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	10:58	Ending Feet	18

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M18-5730
0	WL-1	Water Level	0	0		AT 20%
18	DJ-4	Displaced Joint, Heavy	0	200		RED FLAG
18	SA-1	Inspection Suspended	75	100		
18	FH-1	Finish Inspection	0	0		
TOTAL POINTS			75	300		

FACILITY NUMBER:		FB-68-1			
CCTV Subcontractor:	CITY	Upstream MH:	K23-801	Downstream MH:	K24-867
Field Data Input Date:	3/13/2006	Upstream MH Elevation:	785.46	Downstream MH Elevation:	778.06
QC Review:	TCE	Upstream MH I.E	779.5	Downstream MH I.E	773.48
QC Date:	8/14/2009				
Street Name:	1815 MORRISON ST	Footage Inspected:	361	Prioritization Code:	3
Cross Street:	DAYTON AVE	Map Length:	377	Recommendation Code:	D & E
Gate Book Page	K23	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	361
				Cleaning frequency:	36 MONTHS
WM VIDEO: 801-867-14130306.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	3/13/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	14:41	Ending Feet	361

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K23-801
0	WL-1	Water Level	0	0		AT 20%
6	DE-3	Debris, Moderate	75	0		BLOCKING FLOW
7	WL-1	Water Level	0	0		AT 10%
15	CC-3	Circular Crack, Moderate	0	100		
30	CC-2	Circular Crack, Small	0	75		
38	CN-1	Service Connection	0	0	10	
38	CR-2	Roots in Lateral, Light	20	0		
41	CN-1	Service Connection	0	0	2	
42	CC-2	Circular Crack, Small	0	75		
51	CC-3	Circular Crack, Moderate	0	100		
64	CL-2	Crack – Longitudinal, Small	0	50		
93	CN-1	Service Connection	0	0	2	
96	CN-1	Service Connection	0	0	10	
115	CC-2	Circular Crack, Small	0	75		
124	CC-3	Circular Crack, Moderate	0	100		
152	CC-2	Circular Crack, Small	0	75		
163	CN-1	Service Connection	0	0	2	
166	CN-1	Service Connection	0	0	10	
186	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
198	CC-2	Circular Crack, Small	0	75		
213	CL-2	Crack – Longitudinal, Small	0	50		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
220	DE-2	Debris, Light	50	0		BLOCKING FLOW
230	CN-1	Service Connection	0	0	10	
233	CN-1	Service Connection	0	0	2	
234	CC-2	Circular Crack, Small	0	75		
243	CM-3	Cracks – Multiple, Moderate	0	150		
266	WL-1	Water Level	0	0		AT 15%
280	CM-3	Cracks – Multiple, Moderate	0	150		
286	DE-2	Debris, Light	50	0		BLOCKING FLOW
292	CL-3	Crack – Longitudinal, Moderate	0	100		
298	CN-1	Service Connection	0	0	10	
300	CN-1	Service Connection	0	0	2	
300	CR-2	Roots in Lateral, Light	20	0		
322	CC-3	Circular Crack, Moderate	0	100		
329	CM-3	Cracks – Multiple, Moderate	0	150		
349	CN-1	Service Connection	0	0	10	
349	CR-3	Roots in Lateral, Moderate	50	0		
353	CM-2	Cracks – Multiple, Small	0	75		
361	MH-1	Manhole	0	0		MH K24-867
361	FH-1	Finish Inspection	0	0		
TOTAL POINTS			265	1775		

FACILITY NUMBER:		FB-89-1			
CCTV Subcontractor:	CITY	Upstream MH:	M7-5368	Downstream MH:	M7-5353
Field Data Input Date:	11/1/2005	Upstream MH Elevation:	1126.14	Downstream MH Elevation:	1122.59
QC Review:	TCE	Upstream MH I.E	1119.11	Downstream MH I.E	1115.61
QC Date:	7/30/2009				
Street Name:	2955 SUMNER AVE.	Footage Inspected:	215	Prioritization Code:	3
Cross Street:	E HARRISON AVE.	Map Length:	207	Recommendation Code:	C & D
Gate Book Page	M7	Pipe Size:	8 in	Defect Points per Foot:	1.1
Zip Code:	91767	Pipe Material:	VCP	Maintenance Length:	185
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 5368-5353-13011105.MPG					
General Comments: 1. INSPECTION SUMMARY SHOWS CCTV TRAVELING IN UPSTREAM DIRECTION, BUT INSPECTION SHOWS DOWNSTREAM DIRECTION. 2. RED FLAG					

Direction of Travel:	DS	Inspection Date:	11/1/2005	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	13:38	Ending Feet	215

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M7-5368
0	WL-1	Water Level	0	0		AT 5%
9	CM-2	Cracks – Multiple, Small	0	75		
52	CN-1	Service Connection	0	0	10	
52	CXC-2	Connection w/ Small Defect	0	50		LATERAL DISPLACED
57	CN-1	Service Connection	0	0	2	
57	CXC-2	Connection w/ Small Defect	0	50		LATERAL DISPLACED
78	R-2	Roots, Light	25	0		
105	CL-2	Crack – Longitudinal, Small	0	50		
114	CN-1	Service Connection	0	0	10	
117	CN-1	Service Connection	0	0	2	
117	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
120	CL-2	Crack – Longitudinal, Small	0	50		
128	CM-2	Cracks – Multiple, Small	0	75		
131	CM-2	Cracks – Multiple, Small	0	75		
141	CM-3	Cracks – Multiple, Moderate	0	150		NEEDS REPAIR
154	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
158	CM-3	Cracks – Multiple, Moderate	0	150		TO BE REPAIRED WITH RED FLAG
168	CL-2	Crack – Longitudinal, Small	0	50		
174	CN-1	Service Connection	0	0	10	
174	CXC-2	Connection w/ Small Defect	0	50		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
180	CN-1	Service Connection	0	0	2	
183	CL-2	Crack – Longitudinal, Small	0	50		
194	CM-2	Cracks – Multiple, Small	0	75		
204	CL-3	Crack – Longitudinal, Moderate	0	100		NEEDS REPAIR
215	MH-1	Manhole	0	0		MH M7-5353
215	FH-1	Finish Inspection	0	0		
TOTAL POINTS			175	1300		

FACILITY NUMBER:		SEW151-3			
CCTV Subcontractor:	CITY	Upstream MH:	N19-3439	Downstream MH:	M19-3902
Field Data Input Date:	7/10/2007	Upstream MH Elevation:		Downstream MH Elevation:	866.71
QC Review:	TCE	Upstream MH I.E		Downstream MH I.E	860.51
QC Date:	10/26/2009				
Street Name:	1023 EAST FOURTH ST	Footage Inspected:	15	Prioritization Code:	3
Cross Street:	S SAN ANTONIO AVE	Map Length:	74	Recommendation Code:	B & D
Gate Book Page	M19	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	59
Joint Spacing:	6'			Repair/Replacement Length:	15
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3439-3902-08100707.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	7/10/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	8:55	Ending Feet	15

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH N19-3439
0	WL-1	Water Level	0	0		AT 15%
6	CM-3	Cracks – Multiple, Moderate	0	150		NEEDS REPAIR
6	DE-3	Debris, Moderate	75	0		
12	WL-1	Water Level	0	0		AT 35%
15	B-5	Broken Pipe, Critical	0	500		RED FLAG
15	SA-1	Inspection Suspended	75	100		
15	FH-1	Finish Inspection	0	0		
TOTAL POINTS			150	750		

FACILITY NUMBER:		SEW-177-1			
CCTV Subcontractor:	CITY	Upstream MH:	N19-3444	Downstream MH:	N19-3443
Field Data Input Date:	5/9/2007	Upstream MH Elevation:	867.88	Downstream MH Elevation:	865.00
QC Review:	TCE	Upstream MH I.E	861.04	Downstream MH I.E	857.74
QC Date:	10/22/2009				
Street Name:	370 S RESERVOIR ST	Footage Inspected:	143	Prioritization Code:	3
Cross Street:	4TH ST	Map Length:	326	Recommendation Code:	B & D
Gate Book Page	N19	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	306
Joint Spacing:	6'			Repair/Replacement Length:	20
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 3444-3443-13090507.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	5/9/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	13:07	Ending Feet	143

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH N19-3444
0	WL-1	Water Level	0	0		AT 5%
9	CM-2	Cracks – Multiple, Small	0	75		
18	CM-2	Cracks – Multiple, Small	0	75		
21	CL-2	Crack – Longitudinal, Small	0	50		
73	CL-2	Crack – Longitudinal, Small	0	50		
84	CP-1	Plugged Connection	0	0	3	
84	CXC-5	Connection w/ Critical Defect	75	200		BROKEN CAP, SOIL AND WOOD EXPOSED. NEEDS REPAIR.
87	CN-1	Service Connection	0	0	9	
87	DE-4	Debris, Heavy	150	0		INSIDE LATERAL
91	CL-2	Crack – Longitudinal, Small	0	50		
101	DE-4	Debris, Heavy	150	0		
103	CL-2	Crack – Longitudinal, Small	0	50		
125	CM-2	Cracks – Multiple, Small	0	75		
137	B-5	Broken Pipe, Critical	0	500		RED FLAG
143	SA-1	Inspection Suspended	75	100		
143	FH-1	Finish Inspection	0	0		
TOTAL POINTS			450	1225		

FACILITY NUMBER:		SEW182			
CCTV Subcontractor:	CITY	Upstream MH:	K12-5932	Downstream MH:	K12-5913
Field Data Input Date:	9/1/2009	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	957.50	Downstream MH I.E	945.40
QC Date:	8/28/2009				
Street Name:	1795 WESTWOOD PL.	Footage Inspected:	485	Prioritization Code:	3
Cross Street:	W WILLOW ST.	Map Length:	485	Recommendation Code:	C & D
Gate Book Page	K12	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91768	Pipe Material:	VCP	Maintenance Length:	445
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 5932-5913-15010909.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	9/1/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	15:00	Ending Feet	485

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH K12-5932
0	WL-1	Water Level	0	0		AT 5%
4	DE-2	Debris, Light	50	0		
80	R-3	Roots, Moderate	75	50		
80	CC-4	Circular Crack, Large	0	175		RED FLAG
81	CN-1	Service Connection	0	0	10	
81	CR-4	Roots in Lateral, Heavy	75	50		
85	CC-3	Circular Crack, Moderate	0	100		NEEDS REPAIR
86	CN-1	Service Connection	0	0	2	
86	CR-3	Roots in Lateral, Moderate	50	0		
90	CL-2	Crack – Longitudinal, Small	0	50		
103	R-3	Roots, Moderate	75	50		
115	R-2	Roots, Light	25	0		
149	CC-3	Circular Crack, Moderate	0	100		RED FLAG
150	CN-1	Service Connection	0	0	10	
150	CR-3	Roots in Lateral, Moderate	50	0		
158	CN-1	Service Connection	0	0		
158	CR-4	Roots in Lateral, Heavy	75	50		
212	CC-3	Circular Crack, Moderate	0	100		RED FLAG
213	CN-1	Service Connection	0	0		
213	CR-3	Roots in Lateral, Moderate	50	0		
219	R-2	Roots, Light	25	0		

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
222	CN-1	Service Connection	0	0	2	
222	CR-4	Roots in Lateral, Heavy	75	50		
272	R-2	Roots, Light	25	0		
279	CN-1	Service Connection	0	0		
279	CR-5	Roots in Lateral, Critical	150	50		RED FLAG
289	R-3	Roots, Moderate	75	50		
290	CN-1	Service Connection	0	0	2	
297	CL-2	Crack – Longitudinal, Small	0	50		
306	CL-2	Crack – Longitudinal, Small	0	50		
338	CL-2	Crack – Longitudinal, Small	0	50		
343	R-3	Roots, Moderate	75	50		
344	CN-1	Service Connection	0	0	10	
344	CR-3	Roots in Lateral, Moderate	50	0		
356	CN-1	Service Connection	0	0	2	
356	CR-3	Roots in Lateral, Moderate	50	0		
370	R-3	Roots, Moderate	75	50		CONTINUOUS
411	CN-1	Service Connection	0	0	10	
411	CR-2	Roots in Lateral, Light	20	0		
418	R-2	Roots, Light	25	0		
419	CN-1	Service Connection	0	0	2	
439	R-2	Roots, Light	25	0		
472	CN-1	Service Connection	0	0		
485	MH-1	Manhole	0	0		MH K12-5913
485	FH-1	Finish Inspection	0	0		
TOTAL POINTS			1195	1125		

FACILITY NUMBER:		SEW-213-1			
CCTV Subcontractor:	CITY	Upstream MH:	M18-3949	Downstream MH:	M18-5737
Field Data Input Date:	10/17/2006	Upstream MH Elevation:	874.79	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	868.89	Downstream MH I.E	
QC Date:	9/23/2009				
Street Name:	350 E COMMERCIAL ST	Footage Inspected:	265	Prioritization Code:	3
Cross Street:	N PALOMARES ST.	Map Length:	262	Recommendation Code:	D
Gate Book Page	M18	Pipe Size:	8 in	Defect Points per Foot:	0.2
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3949-5737-14171006.MPG					
General Comments: 1. RED FLAGS, RECOMMEND SPOT REPAIRS.					

Direction of Travel:	DS	Inspection Date:	10/17/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	14:32	Ending Feet	265

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M18-3949
0	WL-1	Water Level	0	0		AT 5%
0	H-2	Hole in Pipe, Small	0	250		RED FLAG
1	CC-2	Circular Crack, Small	0	75		
5	CN-1	Service Connection	0	0	10	
8	WL-1	Water Level	0	0		AT 10%
13	CP-1	Plugged Connection	0	0	2	
15	DE-2	Debris, Light	50	0		
32	CC-2	Circular Crack, Small	0	75		
36	CP-1	Plugged Connection	0	0	10	
43	CN-1	Service Connection	0	0	2	
51	WL-1	Water Level	0	0		AT 20%
56	LD-1	Bend in Pipe Down	0	50		
64	WL-1	Water Level	0	0		AT 5%
82	CC-2	Circular Crack, Small	0	75		
87	CN-1	Service Connection	0	0	2	
92	WL-1	Water Level	0	0		AT 10%
93	CN-1	Service Connection	0	0	10	
93	CXC-3	Connection w/ Moderate Defect	25	100		NEEDS REPAIR
129	CC-4	Circular Crack, Large	0	175		RED FLAG
137	WL-1	Water Level	0	0		AT 20%
141	CN-1	Service Connection	0	0	10	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
145	CP-1	Plugged Connection	0	0	2	
167	WL-1	Water Level	0	0		AT 10%
173	CB-1	Break in Connection	0	50	10	
196	CP-1	Plugged Connection	0	0	2	
203	CN-1	Service Connection	0	0	10	
215	CC-4	Circular Crack, Large	0	175		RED FLAG
242	WL-1	Water Level	0	0		AT 15%
265	WL-1	Water Level	0	0		AT 10%
265	CO-1	Cleanout	0	0		CO M18-5737
265	FH-1	Finish Inspection	0	0		
TOTAL POINTS			75	1025		

FACILITY NUMBER:		SEW249			
CCTV Subcontractor:	CITY	Upstream MH:	J21-6181	Downstream MH:	J21-2272
Field Data Input Date:	10/12/2009	Upstream MH Elevation:		Downstream MH Elevation:	804.18
QC Review:	TCE	Upstream MH I.E.		Downstream MH I.E.	798.44
QC Date:	12/28/2009				
Street Name:	1304 W GRAND AVE	Footage Inspected:	412	Prioritization Code:	3
Cross Street:	S BUENA VISTA AVE	Map Length:	420	Recommendation Code:	D
Gate Book Page	J21	Pipe Size:	8 in	Defect Points per Foot:	0.1
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 6181-2272-08121009.MPG					
General Comments: 1. RED FLAGS DUE TO BROKEN PIPE AND LARGE CRACK BELOW WATER LEVEL.					

Direction of Travel:	DS	Inspection Date:	10/12/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	8:52	Ending Feet	412

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH J21-6181
0	WL-1	Water Level	0	0		AT 5%
3	CN-1	Service Connection	0	0	2	
7	B-4	Broken Pipe, Large	0	300		RED FLAG
13	DE-2	Debris, Light	50	0		
41	CP-1	Plugged Connection	0	0	2	
117	CN-1	Service Connection	0	0	10	
121	CC-2	Circular Crack, Small	0	75		
124	CL-2	Crack – Longitudinal, Small	0	50		
126	CN-1	Service Connection	0	0	2	
159	CN-1	Service Connection	0	0	10	
159	CM-2	Cracks – Multiple, Small	0	75		
173	CN-1	Service Connection	0	0	2	
249	CN-1	Service Connection	0	0	10	
261	CN-1	Service Connection	0	0	2	
300	CN-1	Service Connection	0	0	10	
310	CM-3	Cracks – Multiple, Moderate	0	150		NEEDS REPAIR
311	CB-1	Break in Connection	0	50		POOR CONNECTION
311	CNI-2	Intruding Lateral, Small	0	75		NEEDS REPAIR
332	CN-1	Service Connection	0	0	2	
333	CB-1	Break in Connection	0	50		POOR CONNECTION, DISPLACED JOINT INSIDE OF CONNECTION, NEEDS REPAIR

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
356	WL-1	Water Level	0	0		AT 15%
363	CM-2	Cracks – Multiple, Small	0	75		
365	CN-1	Service Connection	0	0	10	
407	CN-1	Service Connection	0	0	2	
408	CC-4	Circular Crack, Large	0	175		RED FLAG
412	MH-1	Manhole	0	0		MH J21-2272
412	FH-1	Finish Inspection	0	0		
TOTAL POINTS			50	1075		

FACILITY NUMBER:		SEW255-2			
CCTV Subcontractor:	CITY	Upstream MH:	P21-4173	Downstream MH:	P21-4174
Field Data Input Date:	12/28/2010	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E		Downstream MH I.E	
QC Date:	8/15/2011				
Street Name:	1330 S SIGNAL DR	Footage Inspected:	299	Prioritization Code:	3
Cross Street:	GRAND AVE	Map Length:	300	Recommendation Code:	D
Gate Book Page	P21	Pipe Size:	8 in	Defect Points per Foot:	0.2
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	60
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 4173-4174-12281210.MPG					
General Comments: RED FLAG. RECOMMEND REPAIR SAG FROM 99 FT TO 114 FT.					

Direction of Travel:	DS	Inspection Date:	12/28/2010	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:46	Ending Feet	299

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MANHOLE P21-4173
0	WL-1	Water Level	0	0		AT 0%
48	CP-1	Plugged Connection	0	0	2	
61	CC-4	Circular Crack, Large	0	175		NEEDS REPAIR
62	CN-1	Service Connection	0	0	10	
63	SR-1	Spot Repair	0	50		
63	H-4	Hole in Pipe, Large	0	400		RED FLAG
70	SR-1	Spot Repair	0	50		NEEDS REPAIR
75	WL-1	Water Level	0	0		AT 2%
84	B-3	Broken Pipe, Moderate	0	250		NEEDS REPAIR
95	CN-1	Service Connection	0	0	2	
99	SR-1	Spot Repair	0	50		
99	H-3	Hole in Pipe, Moderate	0	300		RED FLAG
99	LD-1	Bend in Pipe Down	0	50		SAG BEGIN, NEEDS REPAIR
104	WL-1	Water Level	0	0		AT 30%
111	LU-1	Bend in Pipe Up	0	50		SAG END
111	WL-1	Water Level	0	0		AT 10%
114	SR-1	Spot Repair	0	50		NEEDS REPAIR
125	CN-1	Service Connection	0	0	10	
162	SR-1	Spot Repair	0	50		
164	CP-1	Plugged Connection	0	0	2	
169	CN-1	Service Connection	0	0	10	
236	CP-1	Plugged Connection	0	0	2	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
241	CN-1	Service Connection	0	0	10	
299	V-1	Vermin	0	0		COCKROACHES
299	MH-1	Manhole	0	0		MANHOLE P21-4174
299	FH-1	Finish Inspection	0	0		
TOTAL POINTS			0	1475		

FACILITY NUMBER:		SEW262			
CCTV Subcontractor:	CITY	Upstream MH:	L21-5754	Downstream MH:	K21-745
Field Data Input Date:	10/14/2009	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E.		Downstream MH I.E.	800.85
QC Date:	12/23/2009				
Street Name:	1415 S PARK AVE	Footage Inspected:	172	Prioritization Code:	3
Cross Street:	FERNLEAF AVE	Map Length:	308	Recommendation Code:	B, C & D
Gate Book Page	L21	Pipe Size:	8 in	Defect Points per Foot:	0.6
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	162
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 5754-745-08141009.MPG					
General Comments: VIDEO STARTS AT 28:17					
RED FLAG					

Direction of Travel:	DS	Inspection Date:	10/14/2009	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	8:55	Ending Feet	172

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH L21-5754
0	WL-1	Water Level	0	0		AT 5%
0	DE-2	Debris, Light	50	0		
5	CP-1	Plugged Connection	0	0	10	
8	CP-1	Plugged Connection	0	0	2	
16	CB-1	Break in Connection	0	50	2	
16	CXC-4	Connection w/ Heavy Defect	50	150		HOLE, RED FLAG
16	CNI-3	Intruding Lateral, Moderate	0	150		
48	CP-1	Plugged Connection	0	0	2	
72	CN-1	Service Connection	0	0	10	
95	CP-1	Plugged Connection	0	0	2	
126	CB-1	Break in Connection	0	50	2	
134	CN-1	Service Connection	0	0	10	
143	CP-1	Plugged Connection	0	0	2	
149	CB-1	Break in Connection	0	50	2	
172	SA-1	Inspection Suspended	75	100		
172	FH-1	Finish Inspection	0	0		
TOTAL POINTS			175	550		

FACILITY NUMBER:		SEW262			
CCTV Subcontractor:	CITY	Upstream MH:	L21-5754	Downstream MH:	K21-745
Field Data Input Date:	10/14/2009	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E.		Downstream MH I.E.	800.85
QC Date:	12/23/2009				
Street Name:	1415 S PARK AVE	Footage Inspected:	98	Prioritization Code:	3
Cross Street:	FERNLEAF AVE	Map Length:	308	Recommendation Code:	B, C & D
Gate Book Page:	L21	Pipe Size:	8 in	Defect Points per Foot:	0.3
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	88
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 5754-745-09141009.MPG					
General Comments:					

Direction of Travel:	DS	Inspection Date:	10/14/2009	Starting Feet	172	
Camera Operator:	CITY	Inspection Time:	8:55	Ending Feet	270	
Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
172	ST-1	Start Inspection	0	0		
172	MH-1	Manhole	0	0		MH L21-5754
172	WL-1	Water Level	0	0		AT 10%
172	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
182	CN-1	Service Connection	0	0	10	
196	CP-1	Plugged Connection	0	0	2	
206	CC-3	Circular Crack, Moderate	0	100		NEEDS REPAIR
236	CN-1	Service Connection	0	0	10	
256	CN-1	Service Connection	0	0	10	
259	CN-1	Service Connection	0	0	2	
262	R-2	Roots, Light	25	0		
270	MH-1	Manhole	0	0		MH K21-745
270	FH-1	Finish Inspection	0	0		
TOTAL POINTS			75	100		

FACILITY NUMBER:		SEW300-4			
CCTV Subcontractor:	CITY	Upstream MH:	P16-2939	Downstream MH:	P16-4345
Field Data Input Date:	7/1/2008	Upstream MH Elevation:		Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E.		Downstream MH I.E.	
QC Date:	11/11/2009				
Street Name:	1244 KINGSLEY AVE.	Footage Inspected:	285	Prioritization Code:	3
Cross Street:	INDIAN HILL BLVD.	Map Length:	292	Recommendation Code:	D
Gate Book Page	P16	Pipe Size:	8 in	Defect Points per Foot:	0.1
Zip Code:	91767	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 2939-4345-09010708.MPG					
General Comments: RED FLAG, RECOMMEND SPOT REPAIR.					

Direction of Travel:	DS	Inspection Date:	7/1/2008	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	9:09	Ending Feet	285

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH P16-2939
0	WL-1	Water Level	0	0		AT 10%
7	DEG-2	Debris – Grease, Slight	50	0		
31	CN-1	Service Connection	0	0	10	
41	CB-1	Break in Connection	0	50	10	
86	CB-1	Break in Connection	0	50	2	
86	CNI-3	Intruding Lateral, Moderate	0	150		NEEDS REPAIR
101	WL-1	Water Level	0	0		AT 20%
146	CB-1	Break in Connection	0	50	10	NEEDS REPAIR
164	CB-1	Break in Connection	0	50	10	NEEDS REPAIR
267	CB-1	Break in Connection	0	50	10	
267	CNI-3	Intruding Lateral, Moderate	0	150		NEEDS REPAIR
267	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
285	MH-1	Manhole	0	0		MH P16-4345
285	FH-1	Finish Inspection	0	0		
TOTAL POINTS			50	750		

FACILITY NUMBER:		SEW-308			
CCTV Subcontractor:	CITY	Upstream MH:	F20-1753	Downstream MH:	F20-1747
Field Data Input Date:	1/16/2007	Upstream MH Elevation:	772.00	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	768.44	Downstream MH I.E	771.71
QC Date:	10/12/2009				
Street Name:	1997 PHILLIPS ST.	Footage Inspected:	141	Prioritization Code:	3
Cross Street:	W MISSION BLVD.	Map Length:	216	Recommendation Code:	D
Gate Book Page	F20	Pipe Size:	8 in	Defect Points per Foot:	0.1
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	30
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 1753-1747-10160107.MPG					
General Comments: 1. INSPECTION SUSPENDED AT 141' DUE TO HIGH FLOW LEVELS. INSPECTION CONTINUED ON F20-1753-1747-11160107.XLS					
2. RED FLAG, RECOMMEND SPOT REPAIR.					

Direction of Travel:	DS	Inspection Date:	1/16/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	10:14	Ending Feet	141

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH F20-1753
0	WL-1	Water Level	0	0		AT 15%
2	CL-4	Crack – Longitudinal, Large	0	175		RED FLAG
7	LU-1	Bend in Pipe Up	0	50		
23	DE-3	Debris, Moderate	75	0		
26	CC-4	Circular Crack, Large	0	175		HIGH PRIORITY REPAIR
47	WL-1	Water Level	0	0		AT 20%
63	CL-3	Crack – Longitudinal, Moderate	0	100		HIGH PRIORITY REPAIR
74	WL-1	Water Level	0	0		AT 10%
106	CL-2	Crack – Longitudinal, Small	0	50		
116	WL-1	Water Level	0	0		AT 25%
140	WL-1	Water Level	0	0		AT 50%
143	CUB-1	Camera Underwater Begin	50	50		
143	SA-1	Inspection Suspended	75	100		DUE TO WATER FLOW LEVELS
143	FH-1	Finish Inspection	0	0		
TOTAL POINTS			200	700		

FACILITY NUMBER:		SEW308-12			
CCTV Subcontractor:	PROPIPE	Upstream MH:	F20-1747	Downstream MH:	F20-1891
Field Data Input Date:	7/2/2009	Upstream MH Elevation:		Downstream MH Elevation:	771.40
QC Review:	TCE	Upstream MH I.E	771.71	Downstream MH I.E	767.43
QC Date:	7/7/2009				
Street Name:	SOUTH VIEW PL	Footage Inspected:	163	Prioritization Code:	3
Cross Street:	WRIGHT ST	Map Length:	170	Recommendation Code:	C & D
Gate Book Page	F20	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	150
Joint Spacing:	6'			Repair/Replacement Length:	20
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 1747-1891-13020709.MPG					
General Comments: 1. RED FLAG DUE TO BROKEN PIPE UNDER WATER LEVEL.					

Direction of Travel:	DS	Inspection Date:	7/2/2009	Starting Feet	0	
Camera Operator:	MAR K T.	Inspection Time:	13:18	Ending Feet	163	
Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH F20-1747
0	WL-1	Water Level	0	0		AT 0%
0	DE-2	Debris, Light	50	0		
2	CC-3	Circular Crack, Moderate	0	100		NEEDS REPAIR
6	CC-3	Circular Crack, Moderate	0	100		NEEDS REPAIR
30	R-2	Roots, Light	25	0		CONTINUOUS
50	R-2	Roots, Light	25	0		CONTINUOUS
92	R-2	Roots, Light	25	0		
159	B-5	Broken Pipe, Critical	0	500	6	RED FLAG
163	MH-1	Manhole	0	0		MH F20-1891
163	FH-1	Finish Inspection	0	0		
TOTAL POINTS			125	700		

FACILITY NUMBER:		SEW308-4			
CCTV Subcontractor:	PROPIPE	Upstream MH:	G21-1773	Downstream MH:	G21-1772
Field Data Input Date:	6/26/2009	Upstream MH Elevation:	780.10	Downstream MH Elevation:	779.80
QC Review:	TCE	Upstream MH I.E	775.15	Downstream MH I.E	773.96
QC Date:	7/15/2009				
Street Name:	1806 WRIGHT ST.	Footage Inspected:	120	Prioritization Code:	3
Cross Street:	PHILLIPS DR.	Map Length:	372	Recommendation Code:	B, C, & D
Gate Book Page	G21	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	352
Joint Spacing:	6'			Repair/Replacement Length:	20
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 1773-1772-12260609.MPG					
General Comments: 1. COLLASPED PIPE AT 120' NEEDS IMMEDIATE REPAIR.					
2. INSPECTION SUSPENDED DUE TO PIPE COLLAPSE AT 120.' PERFORM SPOT REPAIR AND RETELEVISION LINE.					

Direction of Travel:	DS	Inspection Date:	6/26/2009	Starting Feet	0
Camera Operator:	ROMAN VARGAS	Inspection Time:	12:24	Ending Feet	120

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH G21-1773
0	WL-1	Water Level	0	0		AT 10%
9	R-2	Roots, Light	25	0		
11	DEG-2	Debris – Grease, Slight	50	0		
21	CB-1	Break in Connection	0	50	3	
21	CR-4	Roots in Lateral, Heavy	75	50		
23	CP-1	Plugged Connection	0	0	3	
31	CM-2	Cracks – Multiple, Small	0	75		
38	R-2	Roots, Light	25	0		CONTINUOUS
52	CC-3	Circular Crack, Moderate	0	100		REPAIR
68	DEG-2	Debris – Grease, Slight	50	0		
87	CP-1	Plugged Connection	0	0	3	
102	CN-1	Service Connection	0	0	3	
102	R-3	Roots, Moderate	75	50		
120	X-1	Collapsed Pipe	0	700		RED FLAG
120	SA-1	Inspection Suspended	75	100		
120	FH-1	Finish Inspection	0	0		
TOTAL POINTS			375	1125		

FACILITY NUMBER:		SEW328-12			
CCTV Subcontractor:	CITY	Upstream MH:	M19-3957	Downstream MH:	M18-3954
Field Data Input Date:		Upstream MH Elevation:	865.97	Downstream MH Elevation:	864.43
QC Review:	TCE	Upstream MH I.E	858.34	Downstream MH I.E	857.57
QC Date:	9/14/2011				
Street Name:	S LINDEN ST	Footage Inspected:	0	Prioritization Code:	1
Cross Street:	ALLEY	Map Length:	334	Recommendation Code:	A
Gate Book Page	M19	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	0
				Rehabilitation Length:	0
WM VIDEO:				Cleaning frequency:	36 MONTHS
General Comments: DISTRICT SEWER LINE.					

Direction of Travel:		Inspection Date:		Starting Feet		
Camera Operator:		Inspection Time:		Ending Feet		
Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
TOTAL POINTS			0	0		

FACILITY NUMBER:		SEW363			
CCTV Subcontractor:	CITY	Upstream MH:	M19-3944	Downstream MH:	N19-3451
Field Data Input Date:	10/28/2009	Upstream MH Elevation:	856.55	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	852.14	Downstream MH I.E	
QC Date:	12/15/2009				
Street Name:	990 E 6TH ST	Footage Inspected:	50	Prioritization Code:	1
Cross Street:	SAN ANTONIO AVE	Map Length:	132	Recommendation Code:	A
Gate Book Page	M19	Pipe Size:	8 in	Defect Points per Foot:	0.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	0
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3944-3451-07281009.MPG					
General Comments: CAMERA SUSPENDED DUE TO HIGH WATER LEVEL. RECOMMEND REINSPECT AT LOW FLOW TIME FOR ACCURATE RECOMMENDATION.					

Direction of Travel:	DS	Inspection Date:	10/28/2009	Starting Feet	0	
Camera Operator:	CITY	Inspection Time:	7:41	Ending Feet	50	
Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M19-3944
0	WL-1	Water Level	0	0		AT 45%
1	CL-2	Crack – Longitudinal, Small	0	50		
40	CUB-1	Camera Underwater Begin	50	50		
50	SA-1	Inspection Suspended	75	100		
50	FH-1	Finish Inspection	0	0		
TOTAL POINTS			125	200		

FACILITY NUMBER:		SEW73-4			
CCTV Subcontractor:	CITY	Upstream MH:	M19-3923	Downstream MH:	M19-3922
Field Data Input Date:	12/6/2010	Upstream MH Elevation:	857.43	Downstream MH Elevation:	857.24
QC Review:	TCE	Upstream MH I.E	852.57	Downstream MH I.E	851.97
QC Date:	7/28/2011				
Street Name:	808 E MISSION BLVD	Footage Inspected:	52	Prioritization Code:	3
Cross Street:	TOWNE AVE	Map Length:	50	Recommendation Code:	D
Gate Book Page	M19	Pipe Size:	10 in	Defect Points per Foot:	0.2
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	10
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3923-3922-11061210.MPG					
General Comments: FACILITY DATABASE SHOWS PIPE SIZE IS 8 IN, THOUGH CCTV ANALYSIS REVEALS THAT PIPE SIZE IS 10 IN.					

Direction of Travel:	DS	Inspection Date:	12/6/2010	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	11:44	Ending Feet	52

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MANHOLE M19-3923
0	WL-1	Water Level	0	0		AT 15%
9	LR-1	Bend in Pipe Right	0	50		
19	B-3	Broken Pipe, Moderate	0	250		NEEDS REPAIR
52	MH-1	Manhole	0	0		MANHOLE M19-3922
52	FH-1	Finish Inspection	0	0		
TOTAL POINTS			0	300		

FACILITY NUMBER:		SEW-78-1			
CCTV Subcontractor:	CITY	Upstream MH:	J19-2372	Downstream MH:	J19-2371
Field Data Input Date:	4/26/2007	Upstream MH Elevation:	834.17	Downstream MH Elevation:	822.73
QC Review:	TCE	Upstream MH I.E	817.09	Downstream MH I.E	814.98
QC Date:	10/23/2009				
Street Name:	254 OAK AVE	Footage Inspected:	335	Prioritization Code:	3
Cross Street:	W SECOND ST	Map Length:	331	Recommendation Code:	D
Gate Book Page	J19	Pipe Size:	8 in	Defect Points per Foot:	0.1
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	0
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 2372-2371-11260407.MPG					
General Comments: 1. RED FLAG DUE TO BROKEN PIPE UNDER WATER LEVEL.					

Direction of Travel:	DS	Inspection Date:	4/26/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	11:06	Ending Feet	335

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH J19-2372
0	WL-1	Water Level	0	0		AT 20%
0	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
46	CM-2	Cracks – Multiple, Small	0	75		
72	CM-2	Cracks – Multiple, Small	0	75		
82	CN-1	Service Connection	0	0	10	
82	CXC-4	Connection w/ Heavy Defect	50	150		LARGE CRACK INSIDE LATERAL, NEEDS REPAIR, HIGH PRIORITY
100	CN-1	Service Connection	0	0	10	
100	CXC-3	Connection w/ Moderate Defect	25	100		DISPLACED JOINT IN LATERAL, NEEDS REPAIR
116	CC-2	Circular Crack, Small	0	75		
123	CB-1	Break in Connection	0	50	2	POOR CONNECTION, NEEDS REPAIR
126	CL-2	Crack – Longitudinal, Small	0	50		CONTINUOUS
140	WL-1	Water Level	0	0		AT 10%
158	B-3	Broken Pipe, Moderate	0	250		RED FLAG
244	CM-2	Cracks – Multiple, Small	0	75		
246	CB-1	Break in Connection	0	50	10	DEBRIS INSIDE CONNECTION
250	CL-2	Crack – Longitudinal, Small	0	50		
252	CB-1	Break in Connection	0	50	2	
289	CM-2	Cracks – Multiple, Small	0	75		
300	CB-1	Break in Connection	0	50	10	
306	CM-2	Cracks – Multiple, Small	0	75		CONTINUOUS

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
335	MH-1	Manhole	0	0		MH J19-2371
335	FH-1	Finish Inspection	0	0		
TOTAL POINTS			125	1250		

FACILITY NUMBER:		SEW-94-2			
CCTV Subcontractor:	CITY	Upstream MH:	M18-5721	Downstream MH:	M18-5732
Field Data Input Date:	10/12/2006	Upstream MH Elevation:	877.21	Downstream MH Elevation:	
QC Review:	TCE	Upstream MH I.E	871.25	Downstream MH I.E	
QC Date:	9/28/2009				
Street Name:	140 E COMMERCIAL ST	Footage Inspected:	126	Prioritization Code:	3
Cross Street:	N LOCUST ST	Map Length:	157	Recommendation Code:	B, C & D
Gate Book Page	M18	Pipe Size:	8 in	Defect Points per Foot:	0.8
Zip Code:	91767	Pipe Material:	VCP	Maintenance Length:	126
Joint Spacing:	6'			Repair/Replacement Length:	0
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 5721-5732-12121006.MPG					
General Comments: 1. LIGHT SAG IN PIPE CAUSING DEBRIS ACCUMULATION, RECOMMEND 24 MONTH CLEANING.					

Direction of Travel:	DS	Inspection Date:	10/12/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:33	Ending Feet	126

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M18-5721
0	WL-1	Water Level	0	0		AT 10%
26	R-2	Roots, Light	25	0		
29	R-2	Roots, Light	25	0		
33	DEG-3	Debris – Grease, Moderate	75	0		
70	DEG-2	Debris – Grease, Slight	50	0		
104	DEG-2	Debris – Grease, Slight	50	0		
117	LU-1	Bend in Pipe Up	0	50		
118	WL-1	Water Level	0	0		AT 45%
118	DEG-3	Debris – Grease, Moderate	75	0	3 TO 9	
125	CM-2	Cracks – Multiple, Small	0	75		
126	SA-1	Inspection Suspended	75	100		
126	FH-1	Finish Inspection	0	0		
TOTAL POINTS			375	225		

FACILITY NUMBER:		SEW-94-6			
CCTV Subcontractor:	CITY	Upstream MH:	M17-3987	Downstream MH:	M17-3968
Field Data Input Date:	10/16/2006	Upstream MH Elevation:		Downstream MH Elevation:	878.71
QC Review:	TCE	Upstream MH I.E.		Downstream MH I.E.	871.81
QC Date:	9/22/2009				
Street Name:	334 E CENTER ST.	Footage Inspected:	302	Prioritization Code:	3
Cross Street:	N ELEANOR ST.	Map Length:	291	Recommendation Code:	B & D
Gate Book Page	M17	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	262
Joint Spacing:	6'			Repair/Replacement Length:	40
				Rehabilitation Length:	0
				Cleaning frequency:	36 MONTHS
WM VIDEO: 3987-3968-08161006.MPG					
General Comments: RED FLAG					

Direction of Travel:	DS	Inspection Date:	10/16/2006	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	8:23	Ending Feet	302

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M17-3987
0	WL-1	Water Level	0	0		AT 15%
28	CN-1	Service Connection	0	0	10	
28	CXC-3	Connection w/ Moderate Defect	25	100		NEEDS REPAIR
32	CN-1	Service Connection	0	0	2	
34	DE-2	Debris, Light	50	0		
42	CC-2	Circular Crack, Small	0	75		
53	CM-4	Cracks – Multiple, Large	0	200		REPAIR 3 SECTIONS
81	CN-1	Service Connection	0	0	10	
100	CN-1	Service Connection	0	0	2	
100	CNI-2	Intruding Lateral, Small	0	75		NEEDS REPAIR
108	CC-2	Circular Crack, Small	0	75		
120	CL-2	Crack – Longitudinal, Small	0	50		
128	CN-1	Service Connection	0	0		
130	CN-1	Service Connection	0	0		
146	CC-2	Circular Crack, Small	0	75		
182	CN-1	Service Connection	0	0	2	
182	CNI-2	Intruding Lateral, Small	0	75		
189	CN-1	Service Connection	0	0	10	
194	CN-1	Service Connection	0	0	2	
201	DJ-3	Displaced Joint, Moderate	0	100		NEEDS REPAIR
238	CN-1	Service Connection	0	0	10	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
241	CN-1	Service Connection	0	0	2	
241	DE-5	Debris, Critical	200	0		RED FLAG. IN LATERAL
250	WL-1	Water Level	0	0		AT 10%
268	CC-2	Circular Crack, Small	0	75		
269	CC-2	Circular Crack, Small	0	75		
302	MH-1	Manhole	0	0		MH M17-3968
302	FH-1	Finish Inspection	0	0		
TOTAL POINTS			275	975		

FACILITY NUMBER:		SEW-98-1			
CCTV Subcontractor:	CITY	Upstream MH:	M19-3942	Downstream MH:	M19-3940
Field Data Input Date:	7/23/2007	Upstream MH Elevation:		Downstream MH Elevation:	853.96
QC Review:	TCE	Upstream MH I.E	845.10	Downstream MH I.E	848.96
QC Date:	10/13/2009				
Street Name:	850 E SIXTH ST	Footage Inspected:	254	Prioritization Code:	3
Cross Street:	S TOWNE AVE	Map Length:	330	Recommendation Code:	B, C & D
Gate Book Page	M19	Pipe Size:	8 in	Defect Points per Foot:	1.0
Zip Code:	91766	Pipe Material:	VCP	Maintenance Length:	300
Joint Spacing:	6'			Repair/Replacement Length:	30
				Rehabilitation Length:	0
				Cleaning frequency:	24 MONTHS
WM VIDEO: 3942-3940-12230707.MPG					
General Comments: 1. RED FLAG DUE TO LARGE CRACKS BELOW WATER LINE.					
2. INSPECTION SUSPENDED DUE TO HIGH WATER LEVEL.					
3. RECOMMEND TO CLEAN THIS FACILITY AS WELL AS DOWNSTREAM MANHOLE AND DOWNSTREAM FACILITY, THEN REINSPECT TO SEE IF WATER LEVEL DECREASES.					

Direction of Travel:	DS	Inspection Date:	7/23/2007	Starting Feet	0
Camera Operator:	CITY	Inspection Time:	12:50	Ending Feet	254

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
0	ST-1	Start Inspection	0	0		
0	MH-1	Manhole	0	0		MH M19-3942
0	WL-1	Water Level	0	0		AT 20%
0	DEG-2	Debris – Grease, Slight	50	0		CONTINUOUS
6	R-2	Roots, Light	25	0		
42	CN-1	Service Connection	0	0	2	
42	CR-4	Roots in Lateral, Heavy	75	50		
46	CM-2	Cracks – Multiple, Small	0	75		
47	CN-1	Service Connection	0	0	10	
47	CR-3	Roots in Lateral, Moderate	50	0		
54	R-2	Roots, Light	25	0		
96	CN-1	Service Connection	0	0	10	
98	CN-1	Service Connection	0	0	2	
109	CM-4	Cracks – Multiple, Large	0	200		RED FLAG
117	CM-2	Cracks – Multiple, Small	0	75		
134	CN-1	Service Connection	0	0	10	
134	CR-2	Roots in Lateral, Light	20	0		
135	CM-2	Cracks – Multiple, Small	0	75		
135	R-2	Roots, Light	25	0		
137	CN-1	Service Connection	0	0	2	

Footage (feet)	Observation Code	Observation	Maintenance Severity Points	Structural Severity Points	Position	Comments
137	CR-3	Roots in Lateral, Moderate	50	0		
143	WL-1	Water Level	0	0		AT 30%
152	CM-2	Cracks – Multiple, Small	0	75		
196	CL-2	Crack – Longitudinal, Small	0	50		
198	CP-1	Plugged Connection	0	0	10	
203	CP-1	Plugged Connection	0	0	2	
206	CB-1	Break in Connection	0	50	2	POOR CONNECTION, NEEDS REPAIR
212	WL-1	Water Level	0	0		AT 40%
113	DEG-2	Debris – Grease, Slight	50	0	2 TO 10	CONTINUOUS
225	CB-1	Break in Connection	0	50	10	
225	CNI-3	Intruding Lateral, Moderate	0	150		NEEDS REPAIR
227	CN-1	Service Connection	0	0	10	
230	CP-1	Plugged Connection	0	0	2	
232	CN-1	Service Connection	0	0	2	
232	CNI-2	Intruding Lateral, Small	0	75		NEEDS REPAIR
239	WL-1	Water Level	0	0		AT 50%
242	R-2	Roots, Light	25	0		
243	CUB-1	Camera Underwater Begin	50	50		
249	R-2	Roots, Light	25	0		
249	CM-2	Cracks – Multiple, Small	0	75		
253	WL-1	Water Level	0	0		AT APPROXIMATELY 60%
254	SA-1	Inspection Suspended	75	100		DUE TO HIGH WATER LEVEL
254	FH-1	Finish Inspection	0	0		
TOTAL POINTS			545	1150		



CCTV Post Construction Inspection Review Form

Project Name: _____ Project Number: _____

Contractor Name: _____

Construction Management Firm: _____

CCTV Firm: _____

Facility Number	Upstream Manhole	Downstream Manhole	Street	Replacement Date	CCTV Date	CCTV Review Date

We the undersigned do hereby certify that we have reviewed the post construction CCTV inspection videos and have found that all house laterals for the facilities listed above have been reconnected.

Company Name:	
Name:	
Signature:	
Date:	

- CONTRACTOR LETTERHEAD -

City of Pomona
Sewer Replacement Citywide
Project No. 586-86020

Date

Dear City of Pomona Resident:

The Pomona City Council recently awarded a contract for _____ to _____ . The contractor will start construction on _____, 2005. The work includes _____ at the following streets:

STREET NAME

FROM

TO

The project is scheduled to be completed within _____ working days. The estimated project completion date is _____, 2005.

We apologize for the inconvenience that this construction may cause and ask for your understanding and cooperation. A City inspector or representative will be at the job site during construction on a daily basis to monitor the construction for public safety and the timely process of construction.

To reach the Contractor, please contact _____ at _____.

THANK YOU FOR YOUR PATIENCE AND COOPERATION

Inquiries concerning this project may be directed to the City of Pomona Public Works Department at (909) 620-2281 during City business hours.

INSTALLATION GUIDE, OPERATION GUIDE AND EMERGENCY ACTION PLANS FOR THE PREVENTION, CONTROL AND REMEDIATION OF SEWAGE SPILLS.	
Project:	
Owner:	
Prime Contractor:	
Sub Contractor:	

This plan has been prepared to address the issues of sewer bypass pump and piping installation, spill prevention and control, and remediation of sewage spills for the project named above. The pump bypass will be operated on a continuous basis within the allowed work hours for the time required to perform various tasks during the pipeline rehabilitation.

During any leak or spill the Prime Contractor, City Inspector on site, Wastewater Supervisor (909) 376-7284, Wastewater After-hours Standby (909) 772- 4105 and the City Dispatch (909) 772-4241 will be immediately notified.

Installation and Removal Procedures

Following is a detailed description of the installation and operation of the system in a sequential order:

Prevention Measures

Measures taken to prevent the discharge of sewage to the ground from pumps, pipes or hoses as a result of physical damage or equipment failure are outlined below:

1. Bypass Lines:
2. Bypass Pumps:
3. Storm Drain Protection:

Spill Control Measures

Measures taken to control the amount of sewage spilled from an accidental discharge caused by damage to, or failure of, equipment are outlined below.

These measures will make every attempt to keep sewage from spreading or reaching surface waters and keep ground contact to a minimum.

1. Bypass Discharge Line Leaks and Breaks:

- 1.1. Should a primary bypass discharge pipe develop a leak the primary system will be shut down and the standby backup system will be put into operation. No major spill should occur and the primary system will be repaired.
- 1.2. Should the main bypass discharge pipe develop a leak, the system will be shut down and the line will be repaired with spare repair couplings and pipe which will be kept on the jobsite in the vicinity of the bypass. The upstream and downstream manholes will be monitored constantly during any shutdown for repairs.
- 1.3. As soon as a break is discovered replacement pumps, hoses and equipment will be mobilized to the site from our main facility as needed.
- 1.4. Should a bypass pipe develop a major leak or should a spill occur the driveways on the down gradient of the spill will be blocked with a row of sand bags. Concurrently portable pumps and hoses shall be available on site to assist in the rerouting of the spill back to the sewer.

2. Bypass Pump Failure:

- 2.1. If a primary pump on the main bypass system fails, the backup pump will be started. Upon starting the backup pump, the failed pump will be repaired or replaced immediately with a pump of the same or greater capacity. The pumps can be isolated from one another and the discharge line with gate valves in addition to the check valve in each pump.

3. Line Plug Failure:

- 3.1. Plugs will be secured via a 3/8" stainless steel cable anchored to manhole steps or a pump leg above ground at either the insertion manhole or a manhole immediately upstream. Should an inflatable line plug fail the pumps will be continuously ran until the plug is retrieved and a new plug is installed. Should an inflatable plug fail, no blockage or sewage spill will occur. Plugs shall be removed upon the direction of the Engineer or Inspector.

REMEDIATION MEASURES

Remediation measures will begin concurrently with the spill control measures and with the help of sub-contractors as required. Vacuum pumping trucks will be called to assist in the cleanup if required. Portable pumps and hoses will be called

