ADDENDUM NO. 1

CITY OF POMONA
PUBLIC WORKS DEPARTMENT

"SEWER TRUNK MAIN REPLACEMENT - FAIRPLEX DRIVE PROJECT NO. 586-86001"

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

"SEWER TRUNK MAIN REPLACEMENT - FAIRPLEX DRIVE PROJECT NO. 586-86001"

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

CONTRACT SPECIFICATIONS:

1. Pages B-3 and B-4 of the Contract Documents are revised as attached.
2. Pages C-2, C-3 and C-4 of the Contract Documents are revised as attached.
3. Page E-4 of the Contract Documents is revised as attached.
4. Pages SP-26 and SP-27 of the Contract Documents are revised as attached.
5. SECTION 01010 SUMMARY OF WORK of the Contract Documents is revised as attached.
6. SECTION 02700 PAVING AND SURFACING of the Contract Documents is revised as attached.

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

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: Contractor **bids received will be compared based upon the lowest combined Sum Total of the Project Base Bids plus the Additive Alternate. The construction contract if awarded will, at the discretion of the City Council, include the Base Bid Project, and may include the Additive Alternate, as funds are available. Submittals not including all bid unit prices for the Additive Alternate will be deemed non-responsive.** The Contract, if awarded, will be awarded to the lowest responsible and responsive bidder whose proposal complies with the requirements of these specifications. 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. The Contract, if awarded, will be awarded to the lowest responsible and responsive bidder whose proposal complies with the requirements of these specifications.

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.

INSURANCE AND BONDS: The Contractor shall not commence work under this contract until he has secured all insurance and bonds required under the Public Works Contract nor shall he allow any Subcontractor to commence work on this contract until all similar insurance and bonds required of the Subcontractor have been obtained, and the Full Notice to Proceed has been issued by the City.

EVIDENCE OF RESPONSIBILITY: Upon the request of the City, a bidder whose bid is under consideration for the award of the contract shall submit promptly to the City satisfactory evidence showing the bidder's financial resources, his construction experience and his organization and plant facilities available for the performance of the contract.

LISTING OF SUBCONTRACTORS: Each bidder shall submit a list of the proposed Subcontractors on this project as required by the Subletting and Subcontracting Fair Practice Act (Government Code Section 4100 and following). Forms for this purpose are furnished herein entitled **"Information Required of Bidders"**.

EMPLOYMENT OF APPRENTICES: Attention is directed to the provisions in Sections 1777.5 and 1777.6 of the California Labor Code concerning employment of apprentices by the Contractor or any

Subcontractor under him. The Contractor and any Subcontractor under him shall comply with the requirements of said sections in the employment of apprentices; however, the Contractor shall have full responsibility for compliance with said Labor Code sections for all apprentice able occupations, regardless of any other contractual or employment relationships alleged to exist.

WAGE RATES: The Contractor and/or Subcontractor shall pay wages at rates not less than those indicated in the **"Notice Inviting Sealed Bids"** section of these specifications.

SAFETY PERMIT: The City will not perform safety inspection for this project. Particular attention is called to Subsection 7-10.4.1 of the Standard Specifications for Public Works Construction, which requires compliance with orders issued by the California State Division of Industrial Safety. The Contractor shall secure a permit for excavation and trenching from the Division of Industrial Safety and shall file a copy of such permit with the City Engineer prior to commencement of work. The Safety Permit Application Form S-691 is shown on page J-3 herein

SUBMITTAL OF SUBSTITUTIONS: The Contractor must submit to the City Engineer within ten (10) working days from the date of bid opening all requests for substitution of an Approved Equal for materials listed or specified in the contract documents and specifications. The Contractor must include with the request documentation to substantiate said claim, i.e. specifications, detailed drawings and/or technical data.

OTHER PERMITS, FEES AND LICENSES: The Contractor shall, prior to the start of construction, obtain, pay, and comply with all necessary permits as required as the result of its work, including but not limited to the permit(s) described herein and as attached in the appendix .

In addition to the requirements above noted, the Contractor, and all subcontracts, **shall possess a valid City of Pomona business license** at the time of application for the Construction Permit and for the duration of the contract. The fee for said business license shall be based upon the total amount bid for the contract in accordance with Chapter 14 of the Pomona City Code. Amount of fee may be obtained from the City of Pomona, Finance Department, Revenue Management Division, Business License Unit at (909) 620-2292.

PROPOSAL
FOR

Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001

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 Trunk Main Replacement - Fairplex Drive Project No. 586-86001,** 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 Trunk Main Replacement - Fairplex Drive Project No. 586-86001**, as designated on the specifications known as **Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001**, 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 same numbered bid item in the Technical Provisions of the Contract Documents.

AWARD OF CONTRACT: Contractor **bids received will be compared based upon the lowest combined Sum Total of the Project Base Bids plus the Additive Alternate. The construction contract if awarded will, at the discretion of the City Council, include the Base Bid Project, and may include the Additive Alternate, as funds are available. Submittals not including all bid unit prices for the Additive Alternate will be deemed non-responsive.** The Contract, if awarded, will be awarded to the lowest responsible and responsive bidder whose proposal complies with the requirements of these specifications. 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.

Base Bid - Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001

ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	TOTAL PRICE
1.	Mobilization, demobilization, and permits	1	LS	_____	$ _____
2.	Trenching & excavation safety measures	1	LS	_____	_____
3.	Temporary Sewer Bypass	1	LS	_____	_____
4.	Traffic control	1	LS	_____	_____
5.	Sewer main, 8-inch VCP	37	LF	_____	_____
6.	Sewer main, 15-inch VCP	838	LF	_____	_____
7.	Precast concrete sewer manhole	7	EA	_____	_____

Base Bid - Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001

ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	TOTAL PRICE
8.	Precast concrete sewer manhole	1	EA		
9.	30-inch Steel Casing	437	LF		
10.	Cleanout	1	EA		
11.	6-inch Extra-Strength Lateral	1	EA		
12.	15-inch Fusible PVC	775	LF		
13.	Post-construction CCTV Inspection	1	LS		
14.	Abandon sewer main line	1,355	LF		
15.	Abandon manhole	5	EA		
16.	Cold Mill Existing Asphalt Concrete	21,500	SF		
17.	ARHM	250	TN		
18.	Replace Signage, Striping, and Pavement markers	1	LS		
19.	Replace Traffic Detector Loops/Pavement	1	LS		
20.	Implement Stormwater Best Management Practices installation	1	LS		

TOTAL BASE BID AMOUNT: $_____

TOTAL BASE BID AMOUNT IN WORDS:

Additive Alternate – Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001

ITEM	DESCRIPTION	QUANTITY		UNIT PRICE	TOTAL PRICE
1.	Portland Cement Concrete	24,000	SF	_____	**$** _____

TOTAL ADDITIVE ALTERNATE AMOUNT:	**$**_____
TOTAL ADDITIVE ALTERNATE BID AMOUNT IN WORDS:	

TOTAL BID AMOUNT (TOTAL BASE BID PLUS TOTAL ADDITIVE ALTERNATIVE BID):	**$**_____
TOTAL BID AMOUNT IN WORDS:	

INFORMATION REQUIRED OF BIDDERS

The bidder is required to supply the following information.

(Additional sheets may be attached if necessary.)

(1) Address: _____

(2) Telephone: _____

(3) Type of Firm: _____

Individual, Partnership, or Corporation

(4) Corporation organized under the laws of the State of: _____

(5) Is 51% or more of the business owned by: American Indian ( ), Asian ( ), Black ( ), Hispanic ( ), Female ( ), Other (Specify) _____.

(6) List the names and addresses of all members of the firm or names and titles of all officers of the corporation.

(7) Number of years' experience as a Contractor in construction work. _____

(7A) MINIMUM EXPERIENCE REQUIREMENTS:

- Prime Contractor shall have successfully completed three construction projects consisting of the installation of 2,000 LF of 8-inch or larger sewer main since January 22, 2012.
- Prime Contractor or Sub-contractor shall have successfully completed three construction projects consisting of the installation of 400 LF of 24-inch diameter or larger steel casing using the jack and bore method since January 22, 2012.

The City may keep any monies which would otherwise be payable at any time hereunder and apply the same, or so much as may be necessary therefore, to the payment of any expense, losses or damages, as determined by the Engineer, incurred by the City, for which the Contractor is liable under the contract.

Whenever in the opinion of the City Engineer the Contractor shall have completely performed the contract on his part, the City Engineer shall notify the City that the contract has been completed in its entirety. He shall request that the City accept the work and that the City Clerk be authorized to file, on behalf of the City, in the office of the Los Angeles County Recorder, a notice of completion of the work herein agreed to be done by the Contractor. The Contractor will then submit to the City Engineer for approval a written statement of the final quantities of contract items for inclusion in the final invoice. Upon receipt of such statement, the Engineer's Representative shall check the quantities included therein and shall authorize the Contractor to submit an invoice which in the City Engineer's opinion shall be just and fair, covering the amount and value of the total amount of work done by the Contractor, less **~~five~~ ten percent (~~5~~10%)** of the total work done.

On the expiration of **thirty-five (35) calendar days** after the filing of the **Notice of Completion** of the work, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the invoice all prior payments to the Contractor and all amounts to be kept and retained under the provisions of the contract.

9-3.2 Partial and Final Payment. Add the following:

The amount of liquidated damages will be deducted from earned progress payments due the Contractor.

Add the following subsection:

9-3.2.1 Progress Payments. Prior to the first day of the month, during the progress of the work, commencing on the day and month specified in the Contract, Contractor shall submit to the Contract Officer a complete itemized payment request for all labor and materials incorporated into the work during the preceding month and the portion of the contract sum applicable thereto. Upon receipt of a properly presented payment request, the Contract Officer shall process the payment request in accordance with Public Contracts Code Section 20104.50. The Contract Officer shall review the payment request as soon as possible. If the Contract Officer rejects the payment request, it shall be returned to the Contractor within seven days of its receipt by the City with an explanation for the reasons of its rejection. If the payment request is approved in writing by the Contract Officer, payment shall be made within thirty (30) days of receipt of an undisputed and properly presented payment request. Late payments shall bear interest at the legal rate of interest in accordance with Code of Civil Procedure 685.010. City shall pay Contractor a sum based upon ninety~~-five~~ percent (~~95~~90%) of the contract price apportionment of the labor and materials incorporated into the work under the contract during the month covered by said statement. The remaining five percent (~~5~~10%) thereof shall be retained as performance security. Refer to Section 3.3 of this Contract for retention of funds.

Add the following subsections

9-3.2.2 Retention of Funds. Progress payments shall be made in accordance with the provisions of Section 3.2 of the Contract documents. In accordance with said section, City shall pay Contractor a sum based upon ninety~~-five~~ percent (~~95~~90%) of the contract price apportionment of the labor and materials incorporated into the work under the contract during the month covered by said

statement. The remaining ~~five~~ ten percent (~~5~~10%) thereof shall be retained as performance security to be paid to the Contractor, **thirty five (35) calendar days** after recordation of final Notice of Completion with County of Los Angeles, after Contractor shall have furnished City with a release of all undisputed contract amounts, if required by City. In the event there are any claims specifically excluded by Contractor from the operation of the release, the City may retain proceeds (per Public Contract Code 7107) of up to 150% of the amount in dispute. City's failure to deduct or withhold shall not affect Contractor's obligations hereunder.

Add the following subsection:

9-3.2.3 Substitution of Securities. Pursuant to California Public Contract Code Section 22300, substitution of eligible 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.

9-3.3 Delivered Materials. Add the following:

Unless included in the Bid Schedule, or unless otherwise called for in Technical Provisions, no payment will be made for materials or equipment delivered but not yet incorporated in the work.

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 furnishing and installing approximately 1,650 linear feet sewer mainline and related appurtenances in Holt Avenue, Short Street, Caltrans Right of Way and Bellevue Easement. The mainline will be 8-inch vitrified clay pipe; 15-inch vitrified clay pipe and 15-inch fusible PVC pipe. Special construction methods for this project consist of jack and bore and polyvinyl chloride pipe fusion. Refer to the bid schedule and bid item descriptions for additional work descriptions.

Portions of the work are located within Caltrans right-of-way and are subject to the requirements of said agency.

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 – BID ITEM # 1 (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; 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 Caltrans Encroachment Permit (Double),; 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 – BID ITEM # 2 (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 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 TEMPORARY SEWER BYPASS – BID ITEM # 3 (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.

1.3.4 TRAFFIC CONTROL – BID ITEM # 4(LUMP SUM)

Payment for traffic control will be paid for at the contract lump sum price, complete in place, for all traffic control devices and operations required for pipeline 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.

1.3.5 SEWER MAIN, 8-INCH & 15-INCH VETRIFIED CLAY PIPE – BID ITEMS # 5 & 6 (UNIT PRICE)

Payment for sewer main, diameter and of the class specified in the Contract Documents and on the bid schedule shall be paid for at the contract unit price, complete in place, in accordance with the Contract Documents. Measurement of pipeline installed by open trench construction shall be made to the nearest foot along its centerline projection onto a horizontal plane. The contract price for work under this item shall also include piping, utility marker tape, and all other pipe appurtenances and components in accordance with the Contract Documents. This bid item shall also include work necessary for excavation, excavation support systems; dewatering and any required treatment; water disposal; surplus material disposal; trench plating; bedding; backfill; compaction; modifying existing manhole channels; plugging and/or removing and legal disposal of any pipes or structures that are in conflict; pipeline testing; pavement grinding, saw cutting, removal, disposal and replacement for trench repair in accordance with CITY Standard A-26-02; and all other incidental work. 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.

1.3.6 PRECAST CONCRETE SEWER MANHOLE – BID ITEM # 7(UNIT PRICE)

Payment for sewer manholes shall be paid for at the contract unit price for each sewer manhole constructed, complete in place, in accordance with the Contract Documents. The contract price for work under this item shall include, but not be limited to, construct new manholes pursuant to CITY Std B-11-83 including but not limited to concrete base and channels, precast concrete manhole sections, cones, grade rings, frames and covers, concrete collars, interior lining, exterior waterproofing and testing. This bid item shall also include work necessary for excavation, excavation support systems; dewatering and any required treatment; water disposal; surplus material disposal; trench plating; bedding; backfill; compaction; plugging and/or removing conduits or structures that are in conflict; pipeline testing; pavement grinding, saw cutting, removal, disposal and replacement for trench resurfacing in accordance with CITY Standard A-26-02; and all other incidental work. 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 PRECAST CONCRETE SEWER MANHOLE - BID ITEM # 8 (UNIT PRICE)

Payment for sewer manholes shall be paid for at the contract unit price for each sewer manhole constructed, complete in place, in accordance with the Contract Documents. The contract price for work under this item shall include, but not be limited to, delivery, installation of a new manhole pursuant to CSD Std S-A-204 including but not limited to concrete base and channels, precast concrete manhole sections, cones, grade rings, frames and covers, concrete collars, interior lining, exterior waterproofing and testing. **Note**: The City has pre-purchased the manhole; the invoice is in the appendix. This bid item shall also include work necessary for excavation, excavation support systems; dewatering and any required treatment; water disposal; surplus material disposal; trench plating; bedding; backfill; compaction; plugging and/or removing conduits or structures that are in conflict; pipeline testing; pavement grinding, saw cutting, removal, disposal and replacement for trench resurfacing in accordance with CITY Standard A-26-02; and all other incidental work. 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 30-INCH STEEL CASING – BID ITEM # 9 (UNIT PRICE)

Payment for casing of the size and class specified in the Contract Documents and on the bid schedule will be paid for at the contract unit price, complete in place, in accordance with the Contract Documents. Measurement of casing installed by bore and jack construction shall be made to the nearest foot along the centerline projection of the casing onto a horizontal plane. The contract price for work under this item shall include, but not be limited to, 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, and documentation of conditions exposed during the potholing to the satisfaction of the CITY. The contract price for work under this item shall also include excavation; excavation support systems; jack head, jacking pit, control of alignment and grade, closing of pits, trench plates; installation of carrier pipe casing spacers; grouting; filling of annular space with blown sand; fittings, adapters, restraint devices and/or thrust blocks not included in any other bid item; pavement grinding, saw cutting, removal, disposal and replacement for trench resurfacing in accordance with CITY Standard A-26-02. The contract price for work under this item shall also include compliance with Caltrans Encroachment permit (714-6UJ-0379), which includes but is not limited to preparation of a settlement monitoring plan, establishment of a survey gridline, settlement monitoring. The

Contractor shall also be responsible for all corrective and remedial actions to correct settlement.

1.3.9 CLEANOUT – BID ITEM # 10 (UNIT PRICE)

Payment for sewer terminal clean-out shall be paid for at the contract unit price for clean-out, complete in place, in accordance with the Contract Documents. The contract price for work under this item shall include, but not be limited to, construct new clean-out pursuant to CITY Standard B-10-61 including but not limited to wye branch and plug, fitting, casting in concrete, frames and covers. This bid item shall also include work necessary for saw cutting of the sidewalk, excavation, excavation support systems; dewatering and any required treatment; water disposal; surplus material disposal; plating; bedding; backfill; compaction; and restoration of the sidewalk to the original condition.

1.3.10 6-INCH VCP SEWER LATERAL – BID ITEM # 11 (UNIT PRICE)

Payment for sewer lateral reconnection, 6-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.

1.3.11 15-INCH FUSIBLE PVC – BID ITEM # 12 (UNIT PRICE)

Payment for fusible polyvinyl chloride sewer pipe, of the diameter and class specified in the Contract Documents and on the bid schedule shall be paid for at the contract unit price, complete in place, in accordance with the Contract Documents. The Contract Price for this bid item shall include, but not be limited to; all work required to install fusible polyvinyl chloride sewer pipe by open trench and in a 30-inch steel casing in accordance with contract documents. This bid item shall also include work necessary for excavation, excavation support systems; dewatering and any required treatment; water disposal; surplus material disposal; trench plating; bedding; backfill; compaction; modifying existing manhole channels; plugging and/or removing and legal disposal of any pipes or structures that are in conflict; pipeline testing; pavement grinding, saw cutting, removal, disposal and replacement for trench repair in accordance with CITY Standard A-26-02; and all other incidental work. 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.

1.3.12 POST CONSTRUCTION CCTV INSPECTION – BID ITEM # 13 (UNIT PRICE)

Payment for performing a Post Construction CCTV inspection video (DVD) of the all of the VCP sewer main constructed shall be paid for at the contract lump sum price. Payment shall include furnishing all labor, material, equipment, tools, and incidentals and for doing all work involved, and no additional compensation will be allowed.

1.3.13 ABANDONMENT OF SEWER MAINLINE – BID ITEM # 14 (LUMP SUM)

Payment to abandon existing sewer pipelines shall be made at the contract unit price per linear foot, complete and in accordance with the Contract Documents, and as directed by the CITY. The Contract Price for this bid item shall include, but not be limited to; all work required to abandon the existing pipelines as specified in the Contract Documents and required to complete the Work. The Contract Price for this bid item shall also include flushing the existing pipe prior to abandonment, concrete plugs, filling with flowable fill, and the proper disposal of all materials or debris generated during abandonment or removal process.

1.3.14 ABANDONMENT OF EXISTING SEWER MANHOLES – BID ITEM # 15 (LUMP SUM)

Payment to abandon existing sewer manholes shall be made at the contract unit price per each abandoned manhole, complete and in accordance with the Contract Documents, and as directed by the CITY. The Contract Price for this bid item shall include, but not be limited to, all work required to abandon existing manholes as specified in the Contract Documents and required to complete the Work. The Contract Price for this bid item shall also include concrete plugs, 1-sack slurry, and the proper disposal of all materials or debris generated during abandonment.

1.3.15 COLD MILL EXISTING ASPHALT CONCRETE – BID ITEM # 16 (UNIT PRICE)

Payment for Cold Mill Existing 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.

1.3.16 COLD MILL EXISTING ASPHALT CONCRETE – BID ITEM # 16 (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.

1.3.17 ARHM – BID ITEM # 17 (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.

1.3.18 REPLACE SIGNAGE, STRIPING, AND PAVEMENT MARKERS – BID ITEM # 18 (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.

1.3.19 REPLACE TRAFFIC DETECTOR LOOPS – BID ITEM # 19 (LUMP SUM)

Payment for replacing traffic detector loops will be paid for at the contract unit price, for each loop, complete in place, for all traffic detector loops damaged during construction. The contract price shall include, but not be limited to, furnishing all labor, material, tools, equipment, and incidentals for replacing and testing detector loops to the satisfaction of the CITY.

1.3.20 IMPLEMENT STORMWATER BEST MANAGEMENT PRACTICES INSTALLATION – BID ITEM # 20 (LUM SUM)

Payment for implementing Stormwater best management practices shall be paid for at the contract lump sum price, in accordance with the Contract Documents. Payment shall include, but not be limited to, proving labor, equipment and materials to design, construct, operate and inspect all devices and methods for Stormwater pollution prevention as required

by the Water Quality Control Plan and any other applicable all applicable federal, state and local laws and regulations.

1.3.21 PORTLAND CEMENT CONCRETE – ALTERNATE BID ITEM # 1 (UNIT PRICE)

Payment for Portland Cement 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 removal and disposal of 6-inch of aggregate base, placing dowels into existing adjoining concrete, final subgrade preparation, placing and finishing the concrete paving as described in the contract documents. The price of this item shall include use of floats, shovels, spades, or other approved tools to consolidate the concrete without segregation; screeding with a transverse finishing machine; screeding longitudinally with a power operated longitudinal finish machine; placement of longitudinal and transverse construction joints to match existing adjoining concrete. The concrete mix shall be Robinson Ready-Mix Concrete Mix Design# 43692. .

END OF SECTION

SECTION 02700 – PAVING AND SURFACING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Contractor shall furnish all labor, material, equipment, tools and services required for placing and compacting temporary and permanent asphalt concrete at trench areas damaged or removed during sewer line and manhole construction.

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.

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.

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 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.

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.

2.2 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

2.3 ASPHALT RUBBER HOT MIX

A. Asphalt concrete pavement shall conform to Sections 203-11 of the SSPWC, except as modified herein.

B. 203-11.2 Materials. Contractor shall submit the latest RHMA-G job mix formula approval documentation/test results from Caltrans using the same aggregate proposed

in the mix design for this current project with the submittal of the mix design documentation.

Contractor shall maintain a minimum quality control plan as follows:

1. Perform sieve analysis test Caltrans Test 202 on a sample taken immediately after 300 tons of production and every 500 tons thereafter.

2. Perform binder content test Caltrans Test 382 on a sample taken immediately after 300 tons production and every 1,000 tons thereafter.

Tests shall be performed and completed without interruption directly after samples are procured at the production plant laboratory.

A copy of test results shall be provided to the Engineer immediately upon completion of each test or upon request thereafter if Engineer is not present at time of the test. Adjustments shall be made immediately if test results indicate a need for adjustment.

C. 203-11.2.3 Crumb Rubber Modifier (CRM).

The 5th paragraph of Subsection 203-11. 2.3 is hereby deleted and replaced with the following:

The High Natural CRM shall be one hundred percent aircraft tires. A 4 ounce sample of granulated material and a 3 ounce sample of ungranulated material shall be provided to the Engineer. Chemical analysis of natural rubber content shall be by ASTM D247 paragraph 53.

D. 203-11.3 Composition and Grading.

Optimum binder content shall be based on Caltrans 367 procedure without modification using air voids of 3% or as otherwise approved by the Engineer. The Voids in Mineral Agg. Percent Min. in Table 203-11.3(A) is hereby modified to 19.

The gradation ranges shown in Table 203-11.3(A) shall be considered the Contract Compliance Range. The Operating Range for the ½” sieve shall be 94% to 99%. The Operating Range for all other sieves, except the 200 sieve, shall be 2 percentage points inside the Contract Compliance Range. If gradation test results do not meet the Operating Range requirements but meet the Contract Compliance Range, placement of ARHM may be continued for the remainder of the day. However, another day's work shall not be started until tests, or other information, indicate to the

satisfaction of the Engineer that the next material to be used in the work will comply with the requirements specified for Operating Range.

Except for the No. 200 sieve, it is the intent of the Specifications that the target percentage be the central value in the Contract Compliance Range.

E. 203-11.3.1 Interlift. Interlift shall mean open graded high bindered ARHM, and shall conform to Section 203-11 except as modified herein.

Aggregate for interlift shall conform to 3/8" Open Graded Asphalt Concrete aggregate as specified in Caltrans Standard Specifications Section 39.

Binder content for interlift shall be determined by Caltrans Test 368 with the factor in the formula in Section E hereby modified to 1.7.

F. 203-11.4 Mixing.

The first sentence of the third paragraph of Subsection 203-11.4 is hereby deleted and replaced with the following:

The binder formulation shall be 13 percent scrap tire, 4 percent High Natural CRM, 2 percent extender oil and 81 percent asphalt cement.

The required mixing/reaction time is hereby modified to 75 minutes minimum. The minimum reaction period shall be the time from complete incorporation of materials into the mix to the time that the asphalt-rubber meets all specifications for reacted material.

The maximum value for Haake Field Viscosity @191 degrees C (375 degrees Fahrenheit), (Centipoise) in Table 203-11.4(A) is hereby changed to 2600.

Each batch of binder shall be tested for viscosity after the minimum reaction time has passed and the following information shall be recorded:

1. Temperature of stored asphalt cement material at time of loading
2. Time at which the reaction tank is fully loaded
3. Tons of asphalt rubber added to the tank for the batch
4. Total asphalt rubber in the tank after loading
5. The beginning time of reaction (Fully loaded and above 375° F)
6. Binder temperature at time of sampling
7. Temperature of tested material
8. Viscosity reading
9. Time of viscosity test

A copy of the Asphalt Rubber Batch Log shall be provided to the Engineer upon request.

G. 203-11.4 .1 Hand Held Viscometer Test

Modify Subsection 203-11.4.1 Test Procedure as follows:

Delete the last two sentences of Step 4 and replace with the following:

Stop stirring the binder. While the spindle is rotating, move the spindle in and out of the binder slowly three times at a location close to the edge of the container (do not disturb the central area).

Delete the first three sentences of Step 5 and replace with the following:

Determine the viscosity of the binder at 190C +/- 3C (375F+-5F) as follows. In one continuous operation, turn off the spindle rotation, remove the spindle vertically from the binder, and immediately insert the spindle back into the center of the binder. Wait 5 seconds to fill the spindle. While holding the viscometer level, turn the spindle on, watch the needle on the viscometer dial and record the maximum value obtained on the dial.

H. 302-9 ASPHALT-RUBBER HOT MIX (ARHM).

Contractor's attention is directed to Subsection 302-5.8, Manholes, for requirements for patching manholes and miscellaneous, frames and covers in ARHM pavements.

All PCC surfaces, to be crossed by trucks used to haul ARHM, that are within 500 feet of the work limits shall be covered with sand or other durable covering prior to applying tack coat.

Contractor shall have sufficient power brooms on site during all periods of distribution and spreading to provide for cleanup of haul routes and work areas. Power broom shall provide miscellaneous cleanup of ARHM spoils as directed by the Engineer.

Power brooms used ahead of paving operations after acceptance of cold milling shall only sweep areas that are accepted as completed for cold milling. Power brooms shall not be operated more than 80 percent full of sweepings. Power brooms that have swept areas not accepted as completed for cold milling shall not enter onto areas that are accepted as completed for cold milling.

I. 302-9.1.1 Preparation.

A singular crack shall be considered to be a crack on the **perimeter of an otherwise uncracked asphalt pavement area exceeding 3 feet in minimum dimension or any crack or joint adjacent to concrete pavement.** Such pavement area is defined by the cracks forming its perimeter. If asphalt concrete pavement is being constructed directly upon an existing asphalt concrete pavement: 1) Contractor shall spray all weeds in cracks with Monsanto brand Roundup, a minimum of 1 week prior to paving. 2) all cracks and holes with weeds (or weed roots) shall be routed clear to a depth of one-inch; 3) all cracks or joints exceeding 1 ½" in width shall be blown clear with high pressure air and shall be filled with compacted F-PG 64-10 asphalt concrete, 3) all cracks and joints ¼ inch or greater in width shall be blown clear with high pressure air; and 4) all joints and singular cracks between ¼ inch and 1 1/2 inches in width shall be **filled with Crafco Polyflex Type III or equal using a "shoe" type nozzle approved by the Engineer. The "shoe" nozzle shall be pressed firmly on the pavement surface and shall be thoroughly squeegeed immediately thereafter.**

To ensure awareness of crackfill crew of the specification, the foreman on the crackfill work shall fill out the following certificate, have the certificate at the site of the work, and present the certificate to the inspector on request.

CRACKFILL CREW - CERTIFICATE OF PROCEDURES

*****No work shall begin without this certificate on site, signed by the foreman.*****

As the on-site supervisor of the crackfill crew, I hereby certify that I am aware of and will provide for application such that: **"** all joints and singular cracks between ¼ inch and 1 1/2 inches in width shall be filled with Crafco Polyflex Type III or equal using a "shoe" type nozzle approved by the Engineer. The "shoe" nozzle shall be pressed firmly **on the pavement surface and shall be thoroughly squeegeed immediately thereafter.** "

I also certify that I have verified that the crackfill material is the same material shown on the Certification of Compliance, or is the precise product identified in the specifications: **Crafco Polyflex Type III**

Print Name:

Signed Date

All crack preparation shall be performed after cold milling.

Engineer shall be notified in writing 24 to 48 hours prior to performing crack filling.

J. 302-9.4 Distribution and Spreading.

The temperature of ARHM shall be high enough upon delivery that pavement temperature after two passes with the breakdown roller exceeds 240 degrees Fahrenheit.

To avoid picking up loose rock in the overlay area, the tires of all trucks must be lightly oiled with linseed oil or soybean oil or approved equal. Diesel fuel will not be allowed on the project at all for oil down of any equipment.

Raking of ARHM shall be eliminated as much as possible. ARHM material shall not be cast across the mat under any circumstance. Raking shall be just enough to set up edges for uniform joins without casting material. Screed controls shall be the predominant means of controlling material at joins. In areas where paving machines can not be used due to space constraints, material shall not be thrown by shovels. Material shall be removed directly from the paving machine hopper and shall be placed directly in its final location, to be distributed with minimal raking. Material may be dumped directly from a truck, but further material distribution shall be by shovel directly to its final location with minimal raking. A small rubber tire tractor with a screed type attachment may be used to spread a pile dumped from a truck, but raking shall be minimized after spreading.

The paving machine screed shall not be pulled across an area already paved with ARHM, even adjacent to narrow areas to be paved. Such narrow areas shall have ARHM distributed by methods specified by shovel or rubber tire tractor, unless the adjacent area has hardened enough and will not be significantly marred by passing the screed over it. Even if hardened adequately, Contractor shall spread rock dust by hand tools to avoid cohesion of the ARHM in the screed to the existing surface of such areas of freshly cured ARHM.

Contractor shall maintain a functioning infrared heat measurement device in close proximity to each paving machine at all times. The infrared device shall be correlated by thermometer to the actual mat temperature prior to use. The correlation difference shall be applied to all readings thereafter. Contractor shall provide a pavement temperature reading, with an infrared heat measurement instrument, when requested by the Engineer. Inaccessibility of a heat measurement shall be cause for termination of paving operations.

Transverse cold joints shall be provided such that longitudinal joints are not left exposed at the end of the workday.

K. 302-9.5 Rolling.

During paving of the first approximate 200 feet of ARHM overlay, Contractor shall provide 2 vibratory passes of the breakdown roller and 4 static passes of intermediate rolling on the entire 200 foot length area, all within specified temperature minimums. Rollers shall not proceed beyond this 200 foot area until such rolling is complete. A second area shall be used if temperatures during rolling fall below minimums in the first area. This area shall be considered the test strip to be used for any correlation of nuclear gauges.

Initial breakdown rolling shall be vibratory. Rolling in vibratory mode shall not be performed after ARHM material temperature falls below 240 degrees F, due to disturbance of the bonds beginning to set up in the binder at lower temperatures.

An intermediate roller of the same or greater width than the breakdown roller shall be rolling directly behind the breakdown roller at all times, and paving shall cease if intermediate rolling is terminated for any reason. Additional intermediate rollers may be necessary depending on production rates.

Once a rolling pattern is elected by Contractor, the rolling pattern shall remain consistent, unless conditions change and/or a modified rolling pattern is needed to conform to specification.

All finish rolling shall be performed by a separate finish roller.

To ensure optimum quality control, the use of more than one paver will require notification 3 days in advance to the Engineer, and will generally require one foreman, one sweeper, and a full complement of rollers per Subsection 302-5 of the Standard Specifications and this Subsection 302-9.5 for each paving machine.

An extra breakdown roller shall be on site at all times, free of defects.

L. **302-9.5.1 Density and Smoothness.** Density and smoothness shall conform to Subsection 302-5.6.2, except the second and third paragraph of Subsection 302-5.6.2 shall not apply to ARHM. The compaction after rolling shall be 95 percent of density obtained with the California Kneading Compactor, California Test 304.

The field density of compacted ARHM shall be determined by a nuclear asphalt testing device, tested and calibrated in conformance with California Test 375, in the field designed to measure the density of pavement of the thickness being constructed. All test sections (and any such areas where cores are taken for calibration) shall have compactions consistently in excess of 94.5% based on the nuclear gauge.

In case of dispute, all costs for such procedures shall be borne by the Contractor to provide the full set of coring, tests and documentation in conformance with the Standard Specifications, except all test methods shall be modified as specified in these Special Provisions. Also, Contractor shall notify the Engineer at least 3 days in advance of coring operations, and immediately after core testing is complete Contractor shall deliver cores to the Agency for verification.

Nuclear test procedures, including correlation with core densities, shall be in conformance with California Test 375, except as follows:

Core locations for correlation with cores shall be selected based on appearance of relatively tight surface texture. If a test location is determined to have a significantly open texture relative to other areas within the test strip, the location shall not be used. This selection criteria is not to be considered significant to the outcome, but only as a guideline towards obtaining samples that are relatively well compacted to yield results with minimum standard deviation. The locations shall be well clear of grade breaks and joints. Use method 2) in this Subsection 302-9.5.1 to determine density of cores. Surface voids shall not be filled with sand.

Contractor will be notified in writing at least 5 days in advance of such correlation testing and will be invited to have a nuclear gauge onsite to correlate a second gauge. If not independently calibrating at that time, Contractor shall bear the full expense of performing correlation for his nuclear gauge under the specified procedures, but shall notify the City 5 days in advance of such correlation testing, such that the City can correlate with the Contractor's gauge, if Contractor disagrees with City's test results.

M. **302-9.5.2 Compaction Payment Reductions.** Based on laboratory tests on AC pavements revealing a highly significant loss of life span for each 1 percent reduction of compaction, and the well known catastrophic effect of oxidation and stripping of asphalt products due to interconnected voids that develop below 95 percent compaction, and the extreme expense of removing and replacing pavement not compacted to the specified minimum, a nominal deduction of payment will be applied for under-compacted ARHM pavement. The bidder in submitting a bid fully accepts the provisions in this Subsection 302-9.5.2 and agrees that the nominal payment deduction is acceptable and reasonable for these purposes. Payment reductions will be applied to ARHM compacted less than 95 percent of maximum density, the specified minimum, and greater than 91.9 percent of the maximum density based on nuclear testing with Part 3 Test Site Selection of California Test 375 modified as follows:

A lot will be one day's production or other lesser area of paving as determined by the Agency to be deficient in terms of compaction, and a pull will be the width between joints or edge of pavement as the lot is placed.

Test site selection will conform to California Test 375 Part 3, except the number of tests shall be the area of the lot in square feet divided by 400 and any test site within .5m of a grade break or pavement joint shall be relocated laterally towards the center of the pull to .5m from such joint or grade break.

The mathematical mean average of percent of maximum density represented by all these tests shall be calculated, except any test results outside of this mean plus two standard deviations based on all tests, shall be rejected. The mean average shall be calculated directly from the remaining values. A compensation reduction in conformance with Table 302-9.5.1A will be applied to the contract unit price for ARHM for material within any lot determined to be below minimum relative compaction, except any lot with tests indicating compaction 91.9 percent or less shall be removed and replaced at Contractor's expense.

TABLE 302-9.5.1A
REDUCED COMPENSATION FACTORS

Relative Compaction (Percent)	Reduced Compensation Factor	Relative Compaction (Percent)	Reduced Compensation Factor
95.0	0.000	93.4	0.062
94.9	0.002	93.3	0.068
94.8	0.004	93.2	0.075
94.7	0.006	93.1	0.082
94.6	0.009	93.0	0.090
94.5	0.012	92.9	0.098
94.4	0.015	92.8	0.108
94.3	0.018	92.7	0.118
94.2	0.022	92.6	0.129
94.1	0.026	92.5	0.142
94.0	0.030	92.4	0.157
93.9	0.034	92.3	0.175
93.8	0.039	92.2	0.196
93.7	0.044	92.1	0.225
93.6	0.050	92.0	0.300
93.5	0.056		

N. 302-9.6 Rock Dust Blotter. Lack of uniformity of application of rock dust shall be cause to terminate paving operations. Rock dust blotter shall not be applied until the temperature of the pavement is below 200 degrees F and the surface is firm and unyielding, except as approved by the Engineer based on a fine uniform layer of rock dust, or at major intersections and access points.

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.

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 ft^2 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 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.

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.

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 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

ROBERTSON'S

ROCK * SAND * BASE MATERIALS
READY MIX CONCRETE

QUALITY CONTROL - TECHNICAL SERVICES
FACSIMILE MESSAGE

Telephone: (951) 685-2200 ext 6381
Fax #: (951) 280-1429
E-mail: robbie@rrmca.com

To: CITY OF POMONA PUBLIC WORKS **From:** ROBBI STANOFF

Email: tim_hampton@ci.pomona.ca.us **Date:** 01/02/2015

Attn: TIM HAMPTON **No. of Pages** 3 + Certs

RE: MIX DESIGN FOR SEWER TRUNK MAIN REPLACEMENT,
FAIRPLEX DRIVE, CITY OF POMONA

Message: ***Please check with the Sales Department for any possible price changes***

COLD WEATHER TIPS:

RULE OF THUMB: EACH 20 DEGREE DROP IN TEMPERATURE WILL DOUBLE SET TIMES!

Colder temperatures will affect concrete performance resulting in slower set times and lower early strengths.

*** INCREASE CEMENT CONTENT
*** CONSIDER USING ACCELERATING ADMIXTURES
*** PROTECT SLABS FROM RAPID MOISTURE LOSS; PROVIDE INSULATION WHEN AIR TEMPS DROP BELOW 50 DEGREES
*** LEAVE FORMS IN PLACE AS LONG AS POSSIBLE
*** USE COLD WEATHER CURING PRACTICES

ROBERTSON'S

ROCK * SAND * BASE MATERIALS
READY MIX CONCRETE

REGISTERED PROFESSIONAL ENGINEER MICHAEL M. OROZCO NO. 61055 EXP. 12/31/15 CIVIL STATE OF CALIFORNIA

Project No. 586-86001

Date: 01/02/2015

Concrete Mix Design #: 43692

Project: **Sewer Trunk Main Replacement, Fairplex Drive, City of Pomona**
Contractor: **City of Pomona Dept. of Public Works**
Description: 3000 psi 1-1/2" Mix

Strength (f'c):	3000 psi	*W/C ratio:*	0.60
Slump:	4 "	*Sack Content:*	5.00 sk.
Max. Size of Agg.:	1 1/2 "	*Gal/sk.:*	6.80
Pump Type:	Boom pump	*Un. Wt.:*	150.1

ALL CONCRETE IS MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94

Aggregate Weights are SSD; Moisture in Aggregates Must be Considered When Determining Total Mix Water

MIX DESIGN PROPORTION

Contents:		Batch Wt.	%used	Sp. Gr.	Volume
Cement (ASTM C-150)		470	100	3.15	2.39
Fly Ash-Class F (ASTM C-618)		0	0	2.33	0.00
Sand		1306	40	2.62	7.98
1-1/2" x 3/4"		466	14	2.67	2.80
1" x #4		1198	36	2.65	7.24
3/8" x #8		329	10	2.65	1.99
Water	34.0 gal.	283.2			4.54
Entrapped Air	0.25 %				0.07
	Wt.=	4052		Vol. =	27.00
ADMIXTURES :					
WRDA 64 (ASTM C-494)	3.0 oz/cwt	14.1 oz.			

Remark: The project engineer should review this mix to ensure compliance to the project specifications

AGGREGATE GRADATIONS

Size	%	2"	1 1/2"	1"	3/4"	1/2"	3/8"	No 4	No 8	No 16	No 30	No 50	No 100	No 200
1 1/2"	14	100	95	33	7	3	1	0	0	0	0	0	0	0
1"	36	100	100	95	70	38	12	1	0	0	0	0	0	0
3/8"	10	100	100	100	100	100	96	18	2	1	1	0	0	0
WCS	40	100	100	100	100	100	100	98	80	60	39	18	6	2
Combined	100	100	99	89	76	64	54	41	32	24	16	7	2	1

Sand Source : Robertson's Redlands
Rock Source : Robertson's Redlands
Cement : Portland Cement Type II/V
Fly Ash : Class F

Aggregates meet ASTM C-33

(951) 685-2200 ext 6381 P.O. Box 3600 Corona, CA 92878 Fax (951) 280-1429

Compressive Strength Results

Mix # 43692

Project **Sewer Trunk Main Replacement, Fairplex Drive, City of Pomona** Date: 01/02/2015

Subject Mix design submittal

MSA, in.: 1 1/2

EqSack: 5

Source of Aggregate: Robertson's Redlands

Cement: Mitsubishi

Mineral Admixture: None

Chemical Admixture: WRDA - 64

Updated 12/08/2014

Set #	Cast Date	28 day 1	28 day 2	28 Day Avg	Range	In Co Var	Cum Avg	Cum Std Dev	Cum CoVar	Moving Three (3)
1	04/04/2014	3760	3630	3695	130		3695			
2	04/04/2014	3550	3530	3540	20		3618	109.6	3.0	
3	04/04/2014	3570	3600	3585	30		3607	79.7	2.2	3607
4	04/04/2014	3650	3720	3685	70		3626	76.0	2.1	3603
5	04/04/2014	3990	4080	4035	90		3708	194.3	5.2	3768
6	04/04/2014	3450	3860	3655	410		3699	175.1	4.7	3792
7	04/04/2014	3540	3670	3605	130		3686	163.8	4.4	3765
8	04/04/2014	3740	3590	3665	150		3683	151.8	4.1	3642
9	04/04/2014	3880	4140	4010	260		3719	179.0	4.8	3760
10	04/04/2014	3970	4030	4000	60		3748	190.6	5.1	3892
11	04/04/2014	4010	3910	3960	100		3767	191.9	5.1	3990
12	04/04/2014	4010	4050	4030	40		3789	198.1	5.2	3997
13	04/04/2014	3890	3430	3660	460		3779	193.0	5.1	3883
14	04/04/2014	3840	4020	3930	180		3790	189.8	5.0	3873
15	04/04/2014	4050	4460	4255	410		3821	218.8	5.7	3948
16	04/07/2014	3680	3710	3695	30		3813	213.7	5.6	3960
17	04/07/2014	4140	4210	4175	70		3834	224.8	5.9	4042
18	04/07/2014	3630	3770	3700	140		3827	220.4	5.8	3857
19	04/07/2014	4080	3900	3990	180		3835	217.4	5.7	3955
20	04/07/2014	3980	3670	3825	310		3835	211.6	5.5	3838
21	04/07/2014	3780	3680	3730	100		3830	207.5	5.4	3848
22	04/07/2014	3550	4010	3780	460		3828	202.8	5.3	3778
23	04/07/2014	3980	4380	4180	400		3843	211.3	5.5	3897
24	04/07/2014	4060	4100	4080	40		3853	212.3	5.5	4013
25	04/08/2014	3610	3990	3800	380		3851	208.1	5.4	4020
26	04/08/2014	3800	3610	3705	190		3845	205.9	5.4	3862
27	04/08/2014	3990	3820	3905	170		3847	202.2	5.3	3803
28	04/08/2014	4110	3970	4040	140		3854	201.7	5.2	3883
29	04/08/2014	3870	3820	3845	50		3854	198.1	5.1	3930
30	04/08/2014	4000	3990	3995	10		3859	196.4	5.1	3960

Spec'd *f'c* = 3000 psi @ 28 days

Reg'd *f'cr* = 3263 psi, the larger of [1] or[2] Below

Number of tests	30
Modification Factor (K)	1
Maximum	4255
Minimum	3540
Standard Deviation (s)	196.4
Coefficient of variation	5.1

[1]	*f'cr* = *f'c* +1.34ks =	3000	+ (1.34 * 1 * 196.4)	3263
[2]	*f'cr* = *f'c* +*2.33* ks - 500 =	3000	+ (2.33 * 1 * 196.4) - 500	2958

PLEASE FILL OUT ACKNOWLEDGMENT AND RETURN THE RECEIPT EITHER BY FAX TO 909-620-2222 OR EMAIL TO TIM_HAMPTON@CI.POMONA.CA.US

CONFIRMATION OF RECEIPT OF ADDENDUM

PROJECT: SEWER TRUNK MAIN REPLACEMENT - FAIRPLEX DRIVE

TO: All Bidders

RE: Receipt of Addendum

This is to verify receipt of Addendum No**.** 1 , for "Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001". By signing this document, you acknowledge receipt of addenda.

We appreciate your cooperation and consideration of a bid submittal for this project.

Timotheus Hampton, P.E.
Senior Water Resources Engineer

RETURN TO Tim Hampton, Project Manager

ACKNOWLEDGMENT

I have read the above request from the City of Pomona and by signing, I hereby acknowledge receipt of Addendum No. **1** , for **"Sewer Trunk Main Replacement - Fairplex Drive Project No. 586-86001"**. Total pages: 36 (excluding the confirmation sheet).

By: _____
Title: _____
Company: _____
Date received _____

PLEASE FILL OUT ACKNOWLEDGMENT AND RETURN THE RECEIPT EITHER BY FAX TO 909-620-2222 OR EMAIL TO TIM_HAMPTON@CI.POMONA.CA.US