

PLEASE FILL OUT ACKNOWLEDGMENT, SCAN AND  
RETURN ATTACHED TO EMAIL TO: pwengineering@ci.pomona.ca.us

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## CONFIRMATION OF RECEIPT OF ADDENDUM

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**PROJECT:**

**STREET REHABILITATION- DISTRICTS 2 & 3 PROJECT NO.428-67914  
FEDERAL PROJECT NO. STPL-5070 (033), STREET IMPROVEMENTS-  
CITYWIDE (CDBG) PROJECT NO. 427-64807, & SIDEWALKS- PENMAR  
LANE (CDBG) PROJECT NO.428-67919**

Bidder \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Contact Person \_\_\_\_\_  
Phone No. \_\_\_\_\_

FAX No. \_\_\_\_\_

TO: All Bidders

RE: Receipt of Addendum

This is to verify receipt of Addendum No. 1, 2, \_\_, \_\_\_\_ for  
this project. By signing this document, you acknowledge receipt of addenda.

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

Rene Guerrero, P.E.  
City Engineer

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### ACKNOWLEDGMENT

I have read the above request from the City of Pomona and by signing, I hereby  
acknowledge receipt of Addendum No. 1, 2, \_\_, \_\_, \_\_\_\_  
for this project.

By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Date received \_\_\_\_\_

PLEASE FILL OUT ACKNOWLEDGMENT, SCAN AND  
RETURN ATTACHED TO EMAIL TO: pwengineering@ci.pomona.ca.us

THE CITY OF  
**POMONA**

Public Works Department



September 7, 2017

TO: All Bidders

RE: **"STREET REHABILITATION DISTRICTS 2 & 3 (FY 15-16 / 16-17) PROJECT NO. 428-67914 ; FEDERAL PROJECT NO. STPL – 5070(033), STREET IMPROVEMENTS - CITYWIDE (CDBG) (FY 15-16 / 17-18) PROJECT NO. 428-64807, & SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18) PROJECT NO. 428-67919"**

**ADDENDUM NO. 2**

The attached Addendum (1 Page) revises the Contract Documents and Specifications for:

**"STREET REHABILITATION DISTRICTS 2 & 3 (FY 15-16 / 16-17) PROJECT NO. 428-67914  
FEDERAL PROJECT NO. STPL – 5070(033), STREET IMPROVEMENTS - CITYWIDE (CDBG)  
(FY 15-16 / 17-18) PROJECT NO. 428-64807, & SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18) PROJECT NO. 428-67919"**

Please incorporate the revision in your bid and acknowledge receipt of the Addendum on page **C-16** of the Proposal. Failure to acknowledge receipt of the Addendum may result in rejection of your bid.

Sincerely,

Rene Guerrero, P.E.  
City Engineer

By:

Laura Lara  
Engineering Associate

Attachment  
cc: File

**ADDENDUM NO. 2**

CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

**"STREET REHABILITATION DISTRICTS 2 & 3 (FY 15-16 / 16-17) PROJECT NO. 428-67914 FEDERAL PROJECT NO. STPL- 5070(033), STREET IMPROVEMENTS - CITYWIDE (CDBG) (FY 15-16 / 17-18) PROJECT NO. 428-64807, & SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18) PROJECT NO. 428-67919"**

September 7, 2017

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

**"STREET REHABILITATION DISTRICTS 2 & 3 (FY 15-16 / 16-17) PROJECT NO. 428-67914 FEDERAL PROJECT NO. STPL - 5070(033), STREET IMPROVEMENTS - CITYWIDE (CDBG) (FY 15-16 / 17-18) PROJECT NO. 428-64807, & SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18) PROJECT NO. 428-67919**

and the Bidder shall acknowledge receipt thereof on page C-16 of the Proposal.

**CONTRACT DOCUMENTS AND SPECIFICATIONS**

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The Table of Contents page numbers have been adjusted to reflect additions and corrections.

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Part 3: Bidder's Proposal Section C- Bid Sheets have been revised to match Addendum #1 page numbers refer to new pages C-3 through C-15.

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Part 3: Bidder's Proposal Pages D-1 and D-2 have been renumbered to C-16 and C-17.

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Part 3: Bidder's Proposal Section D- Bidder's Bond, sheets D-3 and D-4 are now renumbered as D-1 and D-2.

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Part 5 Special Provisions and Part 6 Technical Provisions page numbers have been updated.

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Remove Appendix D- Federal Wage Rates on the Specifications (SPECS.PDF) and use the current Appendix D (APPDXD.PDF) dated 8/4/17.

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Attachment:

- **Remove** the existing Contract Documents and Specifications in its entirety and **Replace** with attached.
- \*\*\*\*\*END ADDENDUM NO. 2\*\*\*\*\*

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## BID SCHEDULE

### STREET REHABILITATION DISTRICTS 2 & 3 (FY 15-16 / 16-17)

PROJECT NO. 428-67914, FEDERAL PROJECT NO. STPL – 5070(033)

### BASE BID (A)

**Street Rehabilitation Districts 2 & 3 (FY 15-16 / 16-17), PROJECT NO. 428-67914, FEDERAL PROJECT NO. STPL – 5070(033) [9<sup>th</sup> from Towne Ave. to San Antonio Ave. – Lexington Ave. from Towne Ave. to Reservoir St. – Grand Ave. from Hansen Ave. to White Ave.]**

ITEM	DESCRIPTION	QUANT ITY	UNIT	UNIT PRICE	TOTAL PRICE
A-1	Mobilization, including Quality Assurance Compliance (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
A-2	Monument Preservation	1	LS	\$ _____	\$ _____
A-3	NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
A-4	Project Signs	6	EA	\$ _____	\$ _____
A-5	Traffic Control & <b>Electronic Signs</b>	1	LS	\$ _____	\$ _____
A-6	Remove & Replace Curb & Gutter	70	LF	\$ _____	\$ _____
A-7	Remove & Replace Sidewalk	850	SF	\$ _____	\$ _____
A-8	Remove & Replace Cross Gutter	1,100	SF	\$ _____	\$ _____
A-9	Remove and Replace Residential Driveway	200	SF	\$ _____	\$ _____
A-10	Remove and Replace Commercial Driveway	850	SF	\$ _____	\$ _____
A-11	Remove and Replace Curb Ramp	1	EA	\$ _____	\$ _____
A-12	Retrofit Truncated Domes on Existing Surface & Grind Existing Lip to 0" Curb Face	30	EA	\$ _____	\$ _____
A-13	Construct Concrete Sidewalk	1,190	SF	\$ _____	\$ _____
A-14	3" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)	411,317	SF	\$ _____	\$ _____
A-15	Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	32,000	SF	\$ _____	\$ _____
A-16	Install 1.5" ARHM-GG-C Overlay	4,000	TONS	\$ _____	\$ _____

**Street Rehabilitation Districts 2 & 3 (FY 15-16 / 16-17), PROJECT NO. 428-67914, FEDERAL PROJECT NO. STPL – 5070(033) [9<sup>th</sup> from Towne Ave. to San Antonio Ave. – Lexington Ave. from Towne Ave. to Reservoir St. – Grand Ave. from Hansen Ave. to White Ave.]**

ITEM	DESCRIPTION	QUANT ITY	UNIT	UNIT PRICE	TOTAL PRICE
A-17	Install 1.5" AC Leveling Course	4,000	TONS	\$ _____	\$ _____
A-18	Adjust Monument Well Frame & Cover to Grade	4	EA	\$ _____	\$ _____
A-19	Adjust Manhole Frame & Cover to Grade *	36	EA	\$ _____	\$ _____
A-20	Adjust Water Valve Frame & Cover to Grade *	30	EA	\$ _____	\$ _____
A-21	Remove, Replace, and Adjust Water Meter Box	1	EA	\$ _____	\$ _____
A-22	Install Type E Traffic loop	11	EA	\$ _____	\$ _____
A-23	Install Type D Traffic Loop	8	EA	\$ _____	\$ _____
A-24	Signing, Striping, & Pavement Marking	1	LS	\$ _____	\$ _____

**TOTAL BASE "A" BID AMOUNT IN FIGURES: \$ \_\_\_\_\_**

**TOTAL BASE "A" BID AMOUNT IN WORDS:**

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**\* BID ITEMS 19 & 20 ARE NON-PARTICIPATING ITEMS**

**ADDITIVE ALTERNATE BID SCHEDULE**

*The following Additive Alternate will be considered in awarding this project. The project will be awarded to the lowest responsive, responsible bidder based upon the lowest Total Base Bid plus all Additive Alternates. If the City elects to perform additive alternate work for this project, the City, at its sole discretion, may include work below in the contract for this project.*

**Street Rehabilitation Districts 2 & 3 (FY 15-16 / 16-17), PROJECT NO. 428-67914, FEDERAL PROJECT NO. STPL – 5070(033)  
ADDITIVE ALTERNATE “B”: [Franklin Ave. from San Antonio Ave. to Towne Ave.]**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
B-1.	Mobilization, <b><u>including Quality Assurance Compliance</u></b> (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
B-2.	Monument Preservation	1	LS	\$ _____	\$ _____
B-3.	NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
B-4.	Project Signs	1	EA	\$ _____	\$ _____
B-5.	Traffic Control & <b>Electronic Signs</b>	1	LS	\$ _____	\$ _____
B-6.	Remove & Replace Sidewalk	50	SF	\$ _____	\$ _____
B-7.	Retrofit Truncated Domes on Existing Surface & Grind Existing Lip to 0" Curb Face	6	EA	\$ _____	\$ _____
B-8.	3" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)	41,210	SF	\$ _____	\$ _____
B-9.	Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	12,540	SF	\$ _____	\$ _____
B-10.	Install 1.5" ARHM-GG-C Overlay	495	TONS	\$ _____	\$ _____
B-11.	Install 1.5" AC Leveling Course	490	TONS	\$ _____	\$ _____
B-12.	Adjust Monument Well Frame & Cover to Grade	1	EA	\$ _____	\$ _____
B-13.	Adjust Manhole Frame & Cover to Grade	3	EA	\$ _____	\$ _____
B-14.	Adjust Water Valve Frame & Cover to Grade	6	EA	\$ _____	\$ _____
B-15.	Install Type E Traffic loop	4	EA	\$ _____	\$ _____

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**Street Rehabilitation Districts 2 & 3 (FY 15-16 / 16-17), PROJECT NO. 428-67914, FEDERAL PROJECT NO. STPL – 5070(033)**  
**ADDITIVE ALTERNATE “B”: [Franklin Ave. from San Antonio Ave. to Towne Ave.]**

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B-16.	Install Type D Traffic Loop	2 EA	\$ _____	\$ _____
B-17.	Signing, Striping, & Pavement Marking	1 LS	\$ _____	\$ _____

**TOTAL ADDITIVE ALTERNATE “B” BID AMOUNT IN FIGURES: \$ \_\_\_\_\_**

**TOTAL ADDITIVE ALTERNATE “B” BASE BID AMOUNT IN WORDS:**

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**Street Rehabilitation Districts 2 & 3 (FY 15-16 / 16-17), PROJECT NO. 428-67914, FEDERAL PROJECT NO. STPL – 5070(033)  
ADDITIVE ALTERNATE “C”: [Grand Ave. from White Ave. to Park Ave.]**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
C-1.	Mobilization, <b><u>including Quality Assurance Plan Compliance</u></b> (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
C-2.	Monument Preservation	1	LS	\$ _____	\$ _____
C-3.	NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
C-4.	Project Signs	1	EA	\$ _____	\$ _____
C-5.	Traffic Control & <b>Electronic Signs</b>	1	LS	\$ _____	\$ _____
C-6.	Remove & Replace Cross Gutter	340	SF	\$ _____	\$ _____
C-7.	Remove and Replace Curb Ramp	1	EA	\$ _____	\$ _____
C-8.	Retrofit Truncated Domes on Existing Surface & Grind Existing Lip to 0" Curb Face	7	EA	\$ _____	\$ _____
C-9.	3" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)	75,560	SF	\$ _____	\$ _____
C-10.	Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	5,442	SF	\$ _____	\$ _____
C-11.	Install 1.5" ARHM-GG-C Overlay	745	TONS	\$ _____	\$ _____
C-12.	Install 1.5" AC Leveling Course	735	TONS	\$ _____	\$ _____
C-13.	Adjust Manhole Frame & Cover to Grade	1	EA	\$ _____	\$ _____
C-14.	Adjust Water Valve Frame & Cover to Grade	8	EA	\$ _____	\$ _____
C-15.	Install Type E Traffic loop	5	EA	\$ _____	\$ _____
C-16.	Install Type D Traffic Loop	3	EA	\$ _____	\$ _____
C-17.	Signing, Striping, & Pavement Marking	1	LS	\$ _____	\$ _____
C-18.	<b>Perforate Through Bottom of Catch Basin (Within Project Limits in Base &amp; Additive Alternates)</b>	<b>11</b>	<b>EA</b>	\$ _____	\$ _____

**TOTAL ADDITIVE ALTERNATE "C" BID AMOUNT IN FIGURES: \$** \_\_\_\_\_

**TOTAL ADDITIVE ALTERNATE "C" BASE BID AMOUNT IN WORDS:**

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## BID SCHEDULE

### STREET IMPROVEMENTS - CITYWIDE (CDBG) (FY 15-16 / 17-18) PROJECT NO. 428-64807

## BASE BID (A)

**Street Improvements - Citywide (CDBG) (FY 15-16 / 17-18) Project No. 428-64807**  
**[Olive St. From Garey Ave. to Palomares St.-Owens Lane from Gabriel St. to Geneva St. – Denison St. from Golden Rod Pl. to Westmont Ave.]**

ITEM	DESCRIPTION	QUANTIT Y	UNIT	UNIT PRICE	TOTAL PRICE
A-1	Mobilization (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
A-2	Monument Preservation	1	LS	\$ _____	\$ _____
A-3	NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
A-4	Project Signs	2	EA	\$ _____	\$ _____
A-5	Traffic Control & <b>Electronic Signs</b>	1	LS	\$ _____	\$ _____
A-6	Remove & Replace Curb & Gutter	<b>136</b>	LF	\$ _____	\$ _____
A-7	Remove & Replace Sidewalk	<b>2,887</b>	SF	\$ _____	\$ _____
A-8	Retrofit Truncated Domes on Existing Surface & Grind Existing Lip to 0" Curb Face	<b>20</b>	EA	\$ _____	\$ _____
A-9	Prune, Remove & Dispose of Conflicting Roots	<b>2</b>	EA	\$ _____	\$ _____
A-10	2" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)	<b>73,200</b>	SF	\$ _____	\$ _____
A-11	Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	<b>29,310</b>	SF	\$ _____	\$ _____
A-12	Install 1.5" ARHM-GG-C Overlay	<b>580</b>	TONS	\$ _____	\$ _____
A-13	Install 2" AC Leveling Course	480	TONS	\$ _____	\$ _____
A-14	Install 1.5" AC Leveling Course	<b>570</b>	TONS	\$ _____	\$ _____
A-15	<b>Install Type I Slurry Seal</b>	<b>1,750</b>	SF	\$ _____	\$ _____
A-16	Remove and Replace Water Meter Box	<b>11</b>	EA	\$ _____	\$ _____
A-17	Adjust Manhole Frame & Cover to Grade	<b>8</b>	EA	\$ _____	\$ _____

**Street Improvements - Citywide (CDBG) (FY 15-16 / 17-18) Project No. 428-64807**  
**[Olive St. From Garey Ave. to Palomares St.-Owens Lane from Gabriel St. to Geneva St. – Denison St. from Golden Rod Pl. to Westmont Ave.]**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTIT Y</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL PRICE</b>
<b>A-18</b>	<b>Adjust Monument Well Frame &amp; Cover to Grade</b>	<b>1</b>	<b>EA</b>	\$ _____	\$ _____
<b>A-19</b>	<b>Adjust Water Valve Frame &amp; Cover to Grade</b>	<b>17</b>	<b>EA</b>	\$ _____	\$ _____
<b>A-20</b>	<b>Signing, Striping, &amp; Pavement Marking</b>	<b>1</b>	<b>LS</b>	\$ _____	\$ _____

**TOTAL BASE "A" BID AMOUNT IN FIGURES: \$** \_\_\_\_\_

**TOTAL BASE "A" BID AMOUNT IN WORDS:**

\_\_\_\_\_

**ADDITIVE ALTERNATE BID**

*The following Additive Alternate will be considered in awarding this project. The project will be awarded to the lowest responsive, responsible bidder based upon the lowest Total Base Bid plus all Additive Alternates. If the City elects to perform additive alternate work for this project, the City, at its sole discretion, may include work below in the contract for this project.*

**Street Improvements - Citywide (CDBG) (FY 15-16 / 17-18) Project No. 428-64807**

**ADDITIVE ALTERNATE "B": [Geneva St. from Owens Ln. to Park Ave.]**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
B-1.	Mobilization (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
B-2.	Monument Preservation	1	LS	\$ _____	\$ _____
B-3.	NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
B-4.	Project Signs	1	EA	\$ _____	\$ _____
B-5.	Traffic Control & <b>Electronic Signs</b>	1	LS	\$ _____	\$ _____
B-6.	Remove & Replace Curb & Gutter	10	LF	\$ _____	\$ _____
B-7.	Remove & Replace Sidewalk	1825	SF	\$ _____	\$ _____
B-8.	Prune, Remove & Dispose of Conflicting Roots	9	EA	\$ _____	\$ _____
B-9.	Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	33,000	SF	\$ _____	\$ _____
B-10.	Install 1.5" ARHM-GG-C Overlay	305	TONS	\$ _____	\$ _____
B-11.	Install 1.5" AC Leveling Course	300	TONS	\$ _____	\$ _____
B-12.	Remove and Replace Water Meter Box	3	EA	\$ _____	\$ _____
B-13.	Adjust Manhole Frame & Cover to Grade	2	EA	\$ _____	\$ _____
B-14.	Adjust Water Valve Frame & Cover to Grade	1	EA	\$ _____	\$ _____
B-15.	Signing, Striping, & Pavement Marking	1	LS	\$ _____	\$ _____

**TOTAL ADDITIVE ALTERNATE "B" BID AMOUNT IN FIGURES: \$ \_\_\_\_\_**

**TOTAL ADDITIVE ALTERNATE "B" BASE BID AMOUNT IN WORDS:**

**Street Improvements – Citywide (CDBG) (FY 15-16/17-18) Project No. 428-64807**  
**ADDITIVE ALTERNATE “C”: [Olive St. From Garey Ave. to Palomares St.]**

DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
C-1. Mobilization (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
C-2. Monument Preservation	1	LS	\$ _____	\$ _____
C-3. NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
C-4. Project Signs	1	EA	\$ _____	\$ _____
C-5. Traffic Control	1	LS	\$ _____	\$ _____
C-6. Remove & Replace Curb & Gutter	120	SF	\$ _____	\$ _____
C-7. Remove & Replace Sidewalk	1840	SF	\$ _____	\$ _____
C-8. Retrofit Truncated Domes on Existing Surface & Grind Existing Lip to 0" Curb Face	10	EA	\$ _____	\$ _____
C-9. Prune, Remove & Dispose of Conflicting Roots	1	EA	\$ _____	\$ _____
C-10. 3" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)	34,500	SF	\$ _____	\$ _____
C-11. Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	16,400	SF	\$ _____	\$ _____
C-12. Install 1.5" ARHM GG-C Overlay	470	TONS	\$ _____	\$ _____
C-13. Install 1.5" AC Leveling Course	465	TONS	\$ _____	\$ _____
C-14. Install Type I Slurry Seal	1750	SF	\$ _____	\$ _____
C-15. Remove and Replace Water Meter Box	4	EA	\$ _____	\$ _____
C-16. Adjust Manhole Frame & Cover to Grade	4	EA	\$ _____	\$ _____
C-17. Adjust Water Valve Frame & Cover to Grade	10	EA	\$ _____	\$ _____
C-18. Adjust Monument Well Frame & Cover to Grade	1	EA	\$ _____	\$ _____
C-19. Signing, Striping, & Pavement Marking	1	EA	\$ _____	\$ _____

**TOTAL ADDITIVE ALTERNATE “C” BID AMOUNT IN FIGURES: \$ \_\_\_\_\_**

**TOTAL ADDITIVE ALTERNATE “C” BASE BID AMOUNT IN WORDS:**

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**Street Improvements - Citywide (CDBG) (FY 15-16 / 17-18) Project No. 428-64807**  
**ADDITIVE ALTERNATE "C": [Denison St. From Westmont Ave. to Brea Canyon Rd.]**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
C-1.	Mobilization (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
C-2.	Monument Preservation	1	LS	\$ _____	\$ _____
C-3.	NPDES/Water Pollution Control	1	LS	\$ _____	\$ _____
C-4.	Project Signs	1	EA	\$ _____	\$ _____
C-5.	Traffic Control & <b>Electronic Signs</b>	1	LS	\$ _____	\$ _____
C-6.	Remove & Replace Curb & Gutter	8	SF	\$ _____	\$ _____
C-7.	Remove & Replace Sidewalk	161	SF	\$ _____	\$ _____
C-8.	Remove & Replace Cross Gutter	810	SF	\$ _____	\$ _____
C-9.	Retrofit Truncated Domes on Existing Surface & Grind Existing Lip to 0" Curb Face	4	EA	\$ _____	\$ _____
C-10.	2" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)	25,900	SF	\$ _____	\$ _____
C-11.	Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC	1,210	SF	\$ _____	\$ _____
C-12.	Install 2" ARHM-GG-C Overlay	335	TONS	\$ _____	\$ _____
C-13.	Remove and Re place Water Meter Box	3	EA	\$ _____	\$ _____
C-14.	Adjust Manhole Frame & Cover to Grade	1	EA	\$ _____	\$ _____
C-15.	Adjust Water Valve Frame & Cover to Grade	3	EA	\$ _____	\$ _____
C-16.	Signing, Striping, & Pavement Marking	1	EA	\$ _____	\$ _____
C-17.	<b>Perforate Through Bottom of Catch Basin (Within Project Limits in Base &amp; Additive Alternates)</b>	2	EA	\$ _____	\$ _____

**TOTAL ADDITIVE ALTERNATE "D" BID AMOUNT IN FIGURES: \$ \_\_\_\_\_**

**TOTAL ADDITIVE ALTERNATE "D" BASE BID AMOUNT IN WORDS:**



**BID SCHEDULE**

**SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18)**

**PROJECT NO. 428-67919**

**BASE BID (A)**

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**Street Improvements - SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18)**  
**PROJECT NO. 428-67919: [ Penmar Ln. (West End)]**

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<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL PRICE</b>
A-1	Mobilization (Bid Price Shall be 2% of the Total Bid)	1	LS	\$ _____	\$ _____
A-2	Traffic Control	1	LS	\$ _____	\$ _____
A-3	Construct 8" AC Berm	35	LF	\$ _____	\$ _____
A-4	Construct Culvert Drain	2	EA	\$ _____	\$ _____
A-5	Grading	100	CY	\$ _____	\$ _____
A-6	Construct A.C. Sidewalk	300	SF	\$ _____	\$ _____
A-7	Construct Concrete Sidewalk	100	SF	\$ _____	\$ _____

**TOTAL BID AMOUNT IN FIGURES: \$ \_\_\_\_\_**

**TOTAL BID AMOUNT IN WORDS:**

**PROPOSAL BID SECURITY**

BIDDER'S GUARANTY: Attached is bidder's bond, certified check or Cashier's Check No. \_\_\_\_\_ of the \_\_\_\_\_ Bank, for \$ \_\_\_\_\_ payable to the **City Clerk of the City of Pomona, California**, which is not less than ten percent (10%) of this bid, and which is given as a guarantee that the undersigned will enter into the contract, if awarded to the undersigned. The undersigned further agrees that in case of default in executing the required contract with the necessary bonds and submittals, within the time limits specified, said bond or check and the money payable therein shall be forfeited to and become the property of the City of Pomona, California.

**The Council of the City of Pomona reserves the right to reject any and all bids.**

The undersigned further agrees, in case of award, to execute the contract and provide all submittals required for the within described work and improvements, within **fifteen (15) calendar days** after written notice of the award of the contract. All work to be done under this contract shall be completed within **two-hundred (200) consecutive working days**, beginning on the date stipulated in the written Notice to Proceed issued by the City Engineer.

The bid is submitted in response to Notice Inviting Sealed Bids attached hereto, and pursuant to all of the proceedings of the Council of the City of Pomona heretofore had and taken to date.

The undersigned hereby certifies that he/she has received addenda number(s) \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, and that this bid includes the cost of all additional work specified thereon.

The names of all persons, firms and corporations interested in the foregoing Proposal as principals are as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned shall satisfy the Council of the City of Pomona of their ability, experience, qualifications, and resources to perform the contract for the proposed work and improvements in accordance with the requirements of the Contract Documents.

Dated \_\_\_\_\_

\_\_\_\_\_

Signature of Bidder

**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, location of the place of business **and California Contract License Number** 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.

<b>Work To Be Performed:</b>	<b>Subcontractor and License No.</b>	<b>Location of Business</b>	<b>% of the Work</b>

**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 \_\_\_\_\_

**BID BOND**

**KNOW ALL MEN BY THESE PRESENTS, THAT WE \_\_\_\_\_ as PRINCIPAL, and \_\_\_\_\_ as SURETY,** are held and firmly bound unto the **CITY OF POMONA, CALIFORNIA**, hereinafter referred to as the "**City**", in the sum of ten percent (10%) of the total amount of the bid of the Principal above named, submitted by said Principal to said City, for the work described below, for payment of which sum in lawful money of the United States of America, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

In no case shall the liability of the surety hereunder exceed the sum of

\$ \_\_\_\_\_.

**THE CONDITIONS OF THIS OBLIGATION ARE SUCH,** that whereas, said Principal has submitted the same mentioned bid to said City, for construction of work under the City's specification entitled "**Street Rehabilitation Districts 2 & 3 (FY 15-16 / 16-17) Project No. 428-67914, Federal Project No. STPL – 5070(033) & Street Improvements - Citywide (CDBG) (FY 15-16 / 17-18) Project No. 428-64807& Sidewalks-Penmar Lane (CDBG) (FY 16-17 / 17-18) Project No. 428-67919**", for which bids are to be opened in the City Engineer's office, City Hall of said City at **10:00 AM on September 12, 2017.**

**NOW, THEREFORE,** if said Principal is awarded the contract, and within the time and manner required under the heading "**Instructions to Bidders**", after the prescribed forms are presented to him for signature, enters into a written contract, in the form of agreement bound herein, in accordance with the bid, submits and obtains City approval of required submittals, and files the two (2) bonds with said City, one to guarantee faithful performance and the other to guarantee payment for labor and materials, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgement is recovered, said Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the Court.

**IN WITNESS WHEREOF,** we have hereunto set our hands and seals this \_day of \_\_,20\_\_.

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Surety

By:\_\_\_\_\_

(SEAL)

**BID BOND**

**ACKNOWLEDGMENT OF SURETY**

**STATE OF \_\_\_\_)**  
**COUNTY OF \_\_\_\_)** ss.

**On** this \_\_day of \_\_, **20**\_\_\_\_, **A.D.**,\_\_\_\_personally  
appeared before me, a

(Notary Public, Judge or Other Officer)

in and for \_\_\_\_**County, State of** \_\_\_\_ known to me to be the \_\_\_\_\_of the corporation that executed the foregoing instrument and, upon oath, did depose that he is the officer of said corporation as above designated; that he is acquainted with the seal of said corporation and the seal affixed to said instrument is the corporate seal of said corporation; that the signatures to said instrument were made by officers of said corporation as indicated after said signatures; and that the said corporation executed the said instrument freely and voluntarily and for the uses and purposes therein mentioned.

(Notary Public, Judge or Other Officer)

# PART 5

## **SPECIAL PROVISIONS**

(SUPPLEMENTS AND MODIFICATIONS TO  
THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION)

# **SPECIAL PROVISIONS**

The City adopts by reference as its Special Provisions for this Public Works Contract the following standard specifications. All work shall be performed in accordance with the provisions of the latest edition of the following standard specifications:

- STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), including all Supplemental Amendments, as published by Building News, Inc., Los Angeles, California, which Specifications are hereinafter referred to as the "Standard Specifications (Greenbook)."
- STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, plus any supplements, which Specifications are hereinafter referred to as the "State Standard Specifications."

The Standard Specifications (Greenbook) shall govern the performance of the work except:

- (a) When the situation is not covered by the Standard Specifications (Greenbook), the situation shall be governed by the State Standard Specifications.
- (b) When a specific reference is made to different specifications, plans or drawings, those specific specifications, plans or drawings shall govern.
- (c) When a conflict exists between the Standard Specifications (Greenbook) and any other specifications, the Greenbook shall govern unless the reference to the other specification requires compliance to the other specification.
- (d) As modified by these Special Provisions, Technical Provisions, City of Pomona and State of California Standard Drawings and the Project Plans.

These Special Provisions supplement and revise the aforementioned Standard Specifications (Greenbook) as set forth below. Any reference to "Section" or "Subsection" in these Special Provisions shall refer to the aforementioned Standard Specifications unless noted otherwise.

## **SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS & SYMBOLS, UNITS OF MEASURE AND SYMBOLS**

### **1-2 TERMS AND DEFINITIONS.**

#### **Add or substitute the following:**

In this subsection, substitute where applicable, or add the following:

<b>Agency</b>	The City of Pomona, for which the work is being performed.
<b>Board</b>	The City Council of the City of Pomona, constituting the awarding authority of the City.
<b>City</b>	The City of Pomona.

**City Engineer (or)**

**Engineer** The City Engineer of the City of Pomona or other person designated by the City Engineer acting either directly or through authorized agents.

**Owner** City of Pomona unless specified differently.

**STD DWG** City of Pomona Public Works Department Standard Drawings

**STD Plans** APWA Standard Plans for Public Works Construction, Latest Edition

**Pomona Water**

**Standard** Standard Specifications for Water Facility Construction by Pomona Water Division

**Prime Contractor (or)**

**Contractor** Contractor who contracts directly with the City.

**SECTION 2 – SCOPE AND CONTROL OF WORK**

**2-1 AWARD AND EXECUTION OF CONTRACT.**

**Add the following:**

The Bidder is required to examine carefully the site of work, Proposal forms and all other Contract documents for the work contemplated. The Submission of a Bidder's Proposal shall be considered conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality and quantities of work to be performed and materials to be furnished, and as to the requirements of all the above documents.

**2-2 ASSIGNMENT.**

**Delete the entire subsection and Refer to Section 8.3 of Public Works Contract**

**2-3.2 SELF PERFORMANCE.**

**Delete the entire subsection and substitute the following:**

The Prime Contractor shall perform, solely with its own organization, Contract work amounting to at least 51 percent of the awarded bid price contract work. When an entire item is subcontracted, the value of work subcontracted will be based on the Contract Unit Price. When a portion of an item is subcontracted, the value of the work subcontracted will be based on the estimated percentage of the Contract Unit Price. This will be determined from information submitted by the Contractor, and subject to approval by the Engineer.

**2-4 CONTRACT BONDS.**

**Add the following:**

If during the continuance of the contract any of the sureties upon the faithful performance bond in the opinion of the City Engineer are or become insufficient, he may require additional sufficient sureties



which the Contractor shall furnish to the satisfaction of the City Engineer within fifteen (15) calendar days after notice, and in default thereof the contract may be suspended and the work completed as provided in Section 6 of the Standard Specifications.

Consistent with the Standard Specifications, the Bond for Faithful Performance and the bond for Material Suppliers and Laborers shall each be in the amount of 100 percent of the Contract price. Said bonds shall insure the City during the life of the Contract.

The Faithful Performance Bond also shall insure the City during the life of the Contract and for the term of one (1) year (unless specifically stated otherwise in the Specifications) from the date of final acceptance of the work against faulty or improper materials or workmanship that may be discovered during that time.

## **2-5 PLANS AND SPECIFICATIONS.**

### **2-5.1. General.**

#### **Add the following:**

Except as otherwise specified on the Plans or in these Special or Technical Provisions, all work relating to traffic signals and street lighting, including all equipment, materials, components, and the installation thereof, shall be in accordance with the latest edition of the State Standard Plans and Section 86, of the latest edition of the State Standard Specifications. The order of precedence for said State Standard Plans shall be lower than that of the Project Plans and Specifications but higher than that of the Standard Plans and Standard Specifications for Public Works Construction (Green Book).

If the contractor, in the course of the work, becomes aware of any claimed errors or omissions in the contract documents or in the City's field work, it shall immediately inform the City Engineer. The City Engineer shall promptly review the matter, and if he/she finds an error or omission has been made, he/she shall determine the corrective actions and advise the Contractor accordingly. If the corrective work associated with an error or omission increases or decreases the amount of work called for in the Contract, the City shall issue an appropriate Change Order. After discovery of an error or omission identified by the Contractor, any related work performed by the Contractor shall be done at its risk unless authorized by the City Engineer.

### **2-5.2 Precedence of the Contract Documents.**

#### **Delete the entire subsection and substitute the following:**

If there is a conflict between any of the Contract Documents, the document highest in the order of precedence shall control. The order of precedence, from highest to lowest, shall be as follows:

- a) Permit issued by jurisdictional regulatory agencies.
- b) Change Orders and Supplemental Agreements; whichever occurs last.
- c) Contract/Agreement.
- d) Addenda.
- e) Bid/Proposal.
- f) Technical Provisions.
- g) Special Provisions.
- h) Plans.
- i) Standard Plans.

- j) Standard Specifications.
- k) Reference Specifications.

Detail drawings shall take precedence over general drawings. The precedence of the notice inviting bids and instruction to bidders shall be as specified in the Special Provisions.

### **2-5.3.3 Shop Drawings and Submittals.**

#### **Add the following:**

Within **fifteen (15) calendar days** after issuance of **Conditional NTP** of the contract, the Contractor shall, at his or her expense, transmit to the Engineer for review and acceptance, all submittals, shop drawings and/or other available instructive and descriptive information from the manufacturer, when and as required by the Plans and/or Specifications, or requested by the Engineer. Shop drawings will normally not be required for standard items in common use for which adequate manufacturers' literature is available.

The Contractor shall consecutively number, thoroughly check, approve and sign each Shop Drawing and transmit the Shop Drawings by letter to the Engineer for review. In the event that certain Shop Drawings are unacceptable to the City, they will be rejected by the Engineer. The Contractor shall thereafter, correct said drawings and resubmit same in within seven (7) calendar days.

In the event that in the process of development of the Shop Drawings, it is discovered that there are defects and/or errors on the Plans, resulting in conflict between said Plans and the Shop Drawings, or if the Shop Drawings show variation from the Plans and/or Contract requirements because of standard shop practice or other reasons, the Contractor shall thoroughly describe and explain said defects and/or conflicts in his transmittal letter to the Engineer.

The Engineer's review of the Shop Drawings will be for general design and arrangement only, and shall not relieve the Contractor from responsibility for errors of any sort in the Shop Drawings or of the responsibility for executing the work in accordance with the Contract. The Contractor shall be solely responsible for the correctness of the drawings, for shop fits and field connections, and for the results obtained by use of such drawings. The Contractor shall verify and be fully responsible for all dimensions and job-site conditions affecting the work and shall be responsible for furnishing and installing the proper materials required by the Contract, whether or not indicated on the Shop Drawings when reviewed.

When submitted for the Engineer's review, shop drawings shall be the Contractor's certification that he has reviewed, checked and approved the shop drawings and that these are in conformance with the requirements of the Contract Documents. The following Contractor's certification shall appear on all submittals:

"It is hereby certified that the (equipment, material) shown and marked in this submittal is that proposed to be incorporated into this project, is in compliance with the Contract Documents, can be installed in the allocated spaces, and is submitted for review.

Certified by (sign): \_\_\_\_\_

Certified by (print name): \_\_\_\_\_

Date: \_\_\_\_\_

A copy of each shop drawing and each sample as reviewed by the Engineer shall be kept in good order by the Contractor at the site and shall be available to the Engineer.

The following procedures will apply to shop drawing submittals:

- A. The Contractor shall submit to the Engineer for review, eight (8) copies of all shop drawings. These drawings shall be complete, certified by the Contractor, and shall contain all required information in detail. The Contractor shall make any corrections to shop drawings required by the Engineer.
- B. When reviewed by the Engineer, each copy of the drawings will be stamped signed, and dated by the Engineer.
- C. Three sets of said drawings will be returned to the Contractor.
- D. The review of the drawings shall not be construed as a complete check, but will indicate only that the general method of construction and detailing is satisfactory.
- E. Upon the Contractor's receipt of reviewed shop drawings, he shall furnish to the Engineer eight (8) copies of instruction and maintenance manuals and parts lists of all major equipment furnished. Data in these manuals shall cover completely all items as specified and as supplied.
- F. The Contractor agrees that if deviations, discrepancies, or conflicts between shop drawings submittals and the Contract Documents in the form of design drawings and specifications, except as particularly noted within the submittal, are discovered either prior to or after shop drawing submittals are processed by the Engineer, the design drawings and specifications shall control and shall be followed.

Revisions indicated on shop drawings shall be considered as changes necessary to meet the requirements of the Contract plans and specifications and shall not be taken as the basis of claims for extra work. The Contractor shall have no claims for damages or extension of time due to any delay resulting from making required revisions to shop drawings. The review of said drawings by the Engineer will apply to general design only and will in no way relieve the Contractor of responsibility for errors or omissions contained therein nor will such review operate to waive or modify any provisions or requirements contained in these Contract Specifications or on the Contract Drawings.

Shop fabrication drawings and lay sheets are required for all steel pipelines 16 inches and greater in diameter. The drawings and lay sheets shall fully illustrate horizontal station and vertical elevation of all joints and angle points, true angular deflection at locations of combined vertical and horizontal bends, and horizontal station for pipeline appurtenances.

Compliance certificates and weigh slips shall be provided for all aggregate base, asphalt concrete, Portland Cement Concrete, reinforcing steel, etc. Mix designs shall be submitted for asphalt concrete and Portland Cement Concrete mixes.

## **2-9 SURVEYING**

### **2-9.1 Permanent Survey Markers.**

**Delete the entire subsection and substitute the following:**

The Land Surveyors Act, Section 8771 of the Business and Professional Code, and Sections 732.5, 1492-5, and 1810-5 of the Streets and Highways Code require that survey monuments shall be protected and perpetuated.

The Contractor shall be responsible prior to the start of construction for locating, referencing, and filing of Corner Records with the County Surveyor's office for survey control points/ monuments that exist as shown on recorded Tract Maps, Parcel Maps, Records of Surveys and Highway Maps which are going to be affected or disturbed by the proposed construction.

After the proposed completion of the proposed construction, said monuments and/or control survey points shall be reset to the new surface in accordance with current professional land surveying practices and per City of Pomona Standard A-9-65. Corner Records shall be filed with the County Surveyor, with a copy provided to the City, for all new monuments set.

**2-9.2 Survey Service.**

**Delete the entire subsection and substitute the following:**

The Contractor shall pay and provide usual and customary construction staking. The Contractor shall submit to the City for approval, the qualifications of the Licensed Land Surveyor, prior to commencing the construction staking.

“All survey monuments, centerline ties and survey reference points shall be protected in place or reestablished where disturbed, in accordance with Section 8771 of the Professional Land Surveyor's Act (Business & Professions Code Section 8700 et seq.), prior to Project acceptance. This work will be the responsibility of the Contractor and shall be at the Contractor's sole cost and expense.”

All construction control surveying shall be performed under the supervision of a Registered Civil Engineer or Licensed Land Surveyor at the expense of the Contractor.

Survey stakes shall be set and stationed by the Contractor's surveyor as follows:

- |    |              |   |
|----|--------------|---|
| 1. | Drains       | 50' intervals and change of alignment or grade  |
| 2. | Water        | 40' intervals and change of alignment or grade  |
| 3. | Sewer        | 40' intervals and change of alignment or grade  |
| 4. | Structures   | 4 corners with reference elevations   |
| 5. | Rough Grade  | As required to achieve cut or fill to finished grade (or flow line) as indicated on a grade sheet (maximum interval of: 50' intervals, 50' grid pattern, and change of alignment or grade)  |
| 6. | Finish Grade | As required to achieve cut or fill to finished grade (or flow line) as indicated on a grade sheet (maximum interval of: 25' intervals, 25' grid pattern, and change of alignment or grade; as well as 15' intervals and 15' grid pattern for intersections and curb return areas) |

Offsets and locations shall be as agreed upon. The Contractor shall transfer grade hubs for construction as he may require. The Engineer shall have the right to verify the Contractor's survey extensions, and if found deficient, the Contractor shall pay the costs therefore.

**2-9.4 Line and Grade.**

**Delete the entire subsection and substitute the following:**

“All work, including finished surfaces, shall during its progress and upon completion conform to the lines, grades, cross-sections, elevations and dimensions shown on the Plans. All distances and measurements are given thereon and will be made in a horizontal plane. Three consecutive points shown on the same rate of slope must be used in common in order to detect any variation from a straight line. In the event any discrepancy exists, it must be reported to the City’s Representative. Failure to make this report shall make the Contractor responsible for any error in the finished work. Minor deviations from approved plans, whenever required by the exigencies of construction, shall be determined in all cases by the City’s Representative and authorized in writing.”

**2-11 INSPECTION.**

**Add the following:**

The City Engineer, or his/her authorized agent, shall at all times have access to work during construction, and shall be furnished with every reasonable facility for ascertaining full knowledge regarding the process, workmanship, and character or materials used and employed in the work. Whenever required, the Contractor shall furnish to the City for test, and free of charge, samples of any one of the materials proposed to be used in the work. Said samples shall be delivered by the Contractor at the place within the City of Pomona designated by the City Engineer. Rejected material must be immediately removed from the work by the Contractor and shall not again be brought back to the site of the improvement.

The Contractor shall notify the City Engineer of his authorized agent forty-eight (48) hours in advance when he will require inspection for material work to be done.

**SECTION 3 – CHANGE IN WORK**

**3-3 EXTRA WORK.**

**3-3.1 General.**

**Add the following:**

The Contractor shall not perform any extra work prior to written authorization from the Engineer.

**3-3.2.3 Markup.**

**Delete the entire subsection and substitute the following:**

a) **Work by Contractor.** When extra work is to be paid for on a force account basis, the labor, materials, equipment rental and other items of expenditures, the percentage of markup applied to the Contractor's direct cost for all overhead and profit shall be as follows:

- (1) Labor..... 20
- (2) Materials..... 15
- (3) Equipment Rental..... 15
- (4) Other Items and Expenditure..... 15

To the sum of the costs and markups provided for in this section, 1% shall be added as compensation for bonding.

b) **Work by Subcontractor.** When all or any part of the extra work is performed by a Subcontractor, the markup established above in this section shall be applied to the Subcontractor's actual cost of such work. A markup of 10 percent on the first \$5,000 of the subcontracted portion of the extra work and a markup of 5 percent on work added in excess of \$5,000 of the subcontracted portion of the extra work may be added by the Contractor.

### **3-3.3 Daily Reports by Contractor.**

#### **Add the following:**

Material charges shall be substantiated by valid copies of vendor's invoices. Such invoices shall be submitted with the daily extra work reports, or if not available, they shall be submitted with subsequent daily extra work reports. When these daily extra work reports are agreed upon and signed by both parties, said reports shall become the basis of payment for the work performed.

### **3-5 DISPUTED WORK.**

#### **Add the following:**

All claims which do not exceed the sum of three hundred seventy-five thousand dollars( \$375,000) shall be resolved pursuant to the provisions of Public Contract Code Section 20104 through 20104.6, "Resolution of Construction Claims" as follows:

- (1) Informal negotiation between the City and general contractor.
- (2) Mediation with the general contractor.
- (3) Arbitration.
- (4) Court trial. If the party requesting the court trial does not prevail, then that party must pay all court costs and attorney's fees.

## **SECTION 4 – CONTROL OF MATERIALS**

### **4-1 MATERIALS AND WORKMANSHIP.**

#### **4-1.3 Inspection Requirements.**

##### **4-1.3.3 Inspection by the Agency.**

#### **Add the following:**

In the event work is allowed by the City Engineer outside of the normal working hours, at the request of and for the benefit of the Contractor, inspection service fees will be levied against the Contractor at a rate of the city's actual cost, in addition to travel time where applicable. The above charge may also be levied if inspection services are deemed necessary by the City Engineer as a matter of public safety or to otherwise insure the quality of the work.

#### **4-1.4 Tests of Materials.**

##### **Amend to read as follow:**

Before incorporation into the Work, the Contractor shall submit sample of materials, as the Engineer may require, at no cost to the Agency. The Contractor, as its expense, shall deliver the materials for testing to the place and at the time designated by the Engineer. Unless otherwise called for hereinafter in these Special Provisions, all testing will be performed by the City in such number and at such locations as deemed necessary by the Engineer to insure compliance with the Plans and Specifications; the cost of all initial testing will be borne by the City; the cost of all retesting will be borne by the Contractor, and the amount due the City for said retesting will be deducted from the Contractor's progress payments. If the Contractor is to provide and pay for testing, it will be so specified in the Special Provisions. For Private Contracts, the testing expense shall be borne by the permittee.

The Contractor shall notify the Engineer in writing, at least fifteen (15) calendar days in advance, of its intention to use materials for which tests are specified, to allow sufficient time to perform the tests. The Notice shall name the proposed supplier and source of material.

If the notice of intent to use is sent before the materials are available for testing or inspection, or is sent so far in advance that the materials on hand at the time will not last but will be replaced by a new lot prior to use on the Work, it will be the Contractor's responsibility to re-notify the Engineer when sample which are representative may be obtained.

#### **4-1.5 Trade Names or Equals.**

##### **Amend to read as follow:**

The Contractor may supply any of the materials specified or offer an equivalent. The Engineer material offered is equivalent to that specified. Adequate time shall be allowed for the Engineer to make this determination.

A listing of materials is not intended to be comprehensive, or in order of preference. The Contractor may offer any material, process, or equipment considered to be equivalent to the indicated. Within ten (10) working days from the date of bid opening, the Contractor shall, at his expense, submit a written request to the Engineer for each desired substitution, accompanied by complete descriptive information from the manufacturer, samples as requested by the Engineer, complete detailed test results from a licensed independent testing laboratory of the City's choice if requested by the Engineer, and if requested by the Engineer, an evaluation report from a qualified licensed professional engineer, all for final evaluation by the Engineer. If in the Engineer's opinion, the requested substitution is of lesser quality or in variance with that specified, or if the information submitted is insufficient or incomplete, the requested substitution will be disallowed and the specified materials or equipment shall be furnished. Except as hereafter provided, no request for substitutions submitted, after the 10-working -day deadline specified will be considered.

The Contractor shall, at its expense, furnish data concerning items offered by its equivalent to those specified. The Contractor shall have the material tested as required by the Engineer to determine that the quality, strength, physical, chemical, or other characteristics, including durability, finish, efficiency, diminutions, service, and suitability are such that the item will fulfill its intended function.

Test methods shall be subject to the approval of the Engineer. Test results shall be reported promptly to the Engineer, who will evaluate the results and determine if the suitable item is equivalent. The

Engineer's findings shall be final. Installation and use of a substitute item shall not be made until approved by the Engineer.

If a substitute offered by the Contractor is not found to be equal to the specified materials, the Contractor shall furnish and install the specified material.

The specified Contract completion time shall not be affected by any circumstance developing from the provisions of this subsection.

## **SECTION 5 – UTILITIES**

### **5-1 LOCATION.**

#### **Amend to read as follow:**

Attention is directed to the possible existence of underground facilities not known to the owner or in a location different from that which maybe indicated on the plans or in these Special Provisions and/or Technical Provisions.

The Contractor shall take steps to ascertain the exact location of all underground utility facilities prior to doing work that may damage such facilities or interfere with their service. Contractor shall call Underground Service Alert, [USA] 1-800-422-4133 to verify locations. Contractor shall locate all existing utilities, including storm and sewer laterals, within the project vicinity and shall exercise due care to ensure that existing utility facilities are not damaged during his operations. The existence of sewer mains or storm drains are evidenced by the manhole structures and catch basins. When in doubt, the Contractor shall contact the utility operator concerned before proceeding further.

The contractor shall determine the location and depth of all utilities by exploratory excavations, including service connections, which have been marked by the respective utility owners and which may effect or be affected by the Contractor's operations at least 10 working days prior to the start of any mainline or lateral trench construction. Full compensation for such work shall be considered as included in the prices bid for other items of work.

The sewer service laterals are owned by the property owners and will not be marked by the City. Sewer system atlas sheet is available upon request at the City Hall for contractor's reference. However, the City shall not guarantee the accuracy of the information. It shall be the Contractor's responsibility to locate and pothole all laterals. The Contractor at its expense shall repair sewer laterals that are damaged as the result of contractor's activities.

Where underground main distribution conduits such as water, gas, sewer, electric power, telephone, or cable television are shown on the Plans, the Contractor shall assume that every property parcel will be served by a service connection for each type of utility.

Pursuant to Section 4216 of the Government Code, at least 2 working days prior to commencing any excavation, the Contractor shall contact the regional notification center (Underground Service Alert of Southern California) and obtain an inquiry identification number.

Caltrans is not required be Section 4216 to become a member of the regional notification center. The Contractor shall contact Caltrans for the location of its subsurface installations.



The Contractor shall determine the location and depth of all utilities, including service connections, which have been marked by the respective owners and which may affect or be affected by its operations. Unless otherwise specified in the Special Provisions, payment shall be considered as included in the prices in the Bid for other items of work.

## **SECTION 6 – PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK**

### **6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK.**

#### **6-1.1 Construction Schedule.**

**Delete the entire subsection and substitute the following:**

The Contractor must provide to the City Engineer within **fifteen (15) calendar days** after issuance of **Conditional NTP**, a construction schedule in the format of a Gantt Chart created using Microsoft Project 2003 and revised schedules thereafter as required by the Engineer when the Contractor's activities differ or are expected to differ from the latest existing schedule. **Failure to provide schedule updates or a revised baseline schedule could result in withholding all subsequent contract payments until an acceptable schedule is received.**

Progress schedules will be required for this contract. Progress schedules shall utilize the Critical Path Method (CPM).

Definitions - The following definitions apply to this special provision:

Activity - Any task, or portion of a project which takes time to complete.

Work Progress – The progress of the work shall be at a rate sufficient to complete the contract within the time allowed. If it appears that the rate of progress is such that the contract will not be completed within the time allowed, or if the work is not being executed in a satisfactory manner, the City Engineer may order the Contractor to take such steps as necessary to complete the contract within the period of time specified or to prosecute the work in satisfactory manner. If the Contractor fails to comply with such order within 14 Calendar days after receipt of the order, the contract may be cancelled in accordance with section 6-4 of the latest edition of the STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).

Baseline Schedule - The initial CPM schedule representing the Contractor's original work plan, as accepted by the Engineer.

Critical Path Method - A graphic representation of the sequence of activities that shows the inter-relationships and interdependencies of the elements composing a project.

Early Completion Time - The difference in time between the current contract completion date and the Contractor's scheduled early completion date as shown on the accepted baseline schedule, or schedule updates and revisions.

Float - The amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any activity or group of activities in the network.

Fragnet - A section or fragment of the network diagram comprised of a group of activities.

Hammock Activity - An activity added to the network to span an existing group of activities for summarizing purposes.

Milestone - A marker in a network which is typically used to mark a point in time or denote the beginning or end of a sequence of activities. A milestone has zero duration, but will otherwise function in the network as if it were an activity.

Revision - A change in the future portion of the schedule that modifies logic, adds or deletes activities, or alters activities, sequences, or durations.

Tabular Listing - A report showing schedule activities, their relationships, durations, scheduled and actual dates, and float.

Total Float - The amount of time that an activity may be delayed without affecting the total project duration of the critical path.

Update - The modification of the CPM progress schedule through a regular monthly review to incorporate actual progress to date by activity, approved time adjustments, and projected completion dates.

**Add the following subsection:**

**6-1.1.1 Preconstruction Scheduling Conference.** The Engineer will schedule and conduct a Preconstruction Scheduling Conference with the Contractor's Project Manager and Construction Scheduler within **fifteen (15) calendar days** after issuance of **Conditional NTP**. At this meeting, the requirements of this section of the specifications will be reviewed with the Contractor. The Contractor shall be prepared to discuss its schedule methodology, proposed sequence of operations, and any deviations it proposes to make from the Stage Construction Plans. At this meeting, the Contractor shall submit its structure and the activity identification system for labeling all work activities. The Engineer shall review and comment on the work breakdown structure within seven (7) calendar days after submission by the Contractor. The Contractor shall make all modifications to the proposed work breakdown structure, the coding structure and activity identification system that are requested by the Engineer, and shall employ that coding, structure and system in its baseline schedule submission.

**Add the following subsection:**

**6-1.1.2 Baseline Schedule.** Within **fifteen (15) calendar days** after issuance of **Conditional NTP**, the Contractor shall submit to the Engineer a baseline project schedule. The baseline schedule shall include the activities shown on the interim baseline schedule in the same order and logical relationship as shown in the interim baseline schedule. The baseline project schedule shall have a data date of the day prior to the first working day of the contract and shall not include any completed work to date. The baseline progress schedule shall meet interim target dates, milestones, stage construction requirements, internal time constraints, show logical sequence of activities, and must not extend beyond the number of days originally provided for in the contract.

The baseline CPM schedule submitted by the Contractor shall have a sufficient number of activities to assure adequate planning of the project and to permit monitoring and evaluation of progress and the analysis of time impacts. The baseline schedule shall depict how the Contractor plans to complete the

whole work involved, and shall show all activities that define the critical path.

Critical or near critical paths shall be kept to a minimum. Near critical paths shall be defined as those paths having ten (10) working days or less of total float at the time of initial submission. A total of no more than 20% of the baseline schedule activities shall be critical or near critical.

The Contractor shall allow for non-work days and inclement weather days in the CPM schedule calendar and the bid prices of the various items of work.

**Add the following subsection:**

**6-1.1.3 Project Schedule Reports.** All schedules submitted to the Engineer including baseline and interim baseline schedules shall include time scaled network diagram(s). Network diagrams shall be based on early start and early finish dates of activities shown. The network diagrams shall be based on early start and early finish generated mathematical analysis tabular reports for each activity included in the project schedule. Three different report sorts shall be provided: Early Start, Total Float, and Activity Number which shall show all predecessors and successors for each activity. Such mathematical analysis tabular reports (8-1/2" x 11" size) shall be submitted to the Engineer and shall include at a minimum, the following:

- Data date;
- Predecessor and successor activity numbers and descriptions;
- Activity number and description;
- Activity code(s);
- Schedule and actual/remaining duration for each activity;
- Earliest start date (by calendar date);
- Earliest finish date (by calendar date);
- Actual start date (by calendar date);
- Actual finish date (by calendar date);
- Latest start date (by calendar date);
- Latest finish date (by calendar date);
- Float, in work days;
- Percentage of activity complete and remaining duration for incomplete activities;
- Imposed constraints.

All networks shall be drafted time scaled to show a continuous flow of information from left to right. The primary path(s) of criticality shall be clearly and graphically identified on the network(s). The network diagram shall be prepared on (11" x 17") size sheets, shall have a title block in the lower right hand corner, and a timeline on each page. Exceptions to the size of the network sheets and the use of computer graphics to generate the networks shall be subject to the approval of the Engineer.

Schedule network diagrams and computer tabulations shall be submitted to the Engineer for acceptance in the following quantities:

- a. Two (2) sets of the Network Diagram(s);
- b. Three (3) copies of the computer tabulation reports (8-1/2" x 11" size).

Should the baseline schedule or Schedule Update, submitted for acceptance, show variances from

the requirements of the Contract, the Contractor shall make specific mention of such variations in the letter of transmittal, in order that, if accepted, proper adjustments to the project schedule can be made. The Contractor will not be relieved of the responsibility for execution of the work in strict accordance with the requirements of the Contract Documents. In the event of a conflict between the requirements of the Contract Documents and the information provided or shown on an accepted schedule, the requirements of the Contract Documents shall take precedence.

Each schedule submitted to the Engineer shall comply with all limits imposed by the Contract, with all specified intermediate milestone and completion dates, and with all constraints, restraints or sequences included in the Contract. The degree of detail shall include factors to the satisfaction of the Engineer, including, but not limited to:

- Physical breakdown of the project;
- Contract milestones and completion dates, substantial completion dates, constraints, restraints, sequences of work shown in the contract, the planned substantial completion date, and the final completion date;
- Type of work to be performed, the sequences, and the major subcontractors involved;
- All purchase, submittals, submittal reviews, manufacture, tests, deliver, and installation activities for all major materials and equipment;
- Preparation, submittal and approval of shop and/or working drawings and material samples showing time, as specified elsewhere, for the Engineer's review. The same time frame shall be allowed for at least one (1) re-submittal on all major submittals so identified in the Contract Documents;
- Identification of interfaces and dependencies with preceding, concurrent and follow-on Contractors, Railroads, and Utilities as shown on the Plans or called out in the Specifications;
- Identification of each and every utility relocation and/or interface as a separate activity, including activity description and responsibility coding that identifies the type of utility and the name of the utility company involved;
- Actual tests, submission of test reports, and approval of test results;
- All start-up, testing, training, and assistance required under the Contract;
- Punchlist and final cleanup;
- Identification of any manpower, material, or equipment restrictions, as well as any activity requiring unusual shift work, such as two shifts, six (6) day weeks, specified overtime, or work at times other than regular days or hours; and
- Identification of each and every ramp closing and opening event as a separate one day activity, including designation by activity coding and description that it is a northbound, southbound, eastbound, westbound, and entry or exit ramp activity.
- Hammock activities shall be used to identify ramp closure, road closures and lane closures.

All on site construction activities shall have durations of not more than (20) working days, unless permitted otherwise by the Engineer. All activities in the schedule, with the exception of the first and last activities, shall have a minimum of one predecessor and a minimum of one successor. The baseline schedule shall not attribute negative float to any activity. Float shall not be considered as time for the exclusive use of or benefit of either the State or the Contractor but shall be considered as a jointly owned, expiring resource available to the project and shall not be used to the financial detriment of either party. Any accepted schedule, revision, or update having an early completion date shall show the time

between the early completion date and the current Contract Completion Date as ‘project float.’

The Contractor shall be responsible for assuring that all work sequences are logical and the network shows a coordinated plan for complete performance of the work. Failure of the Contractor to include any element of work required for the performance of the contract in the network shall not relieve the Contractor from completing all work within the time limit specified for completion of the contract. If the Contractor fails to define any element of work, activity or logic, and the omission or error is discovered by either the Contractor or the Engineer, it shall be corrected by the Contractor at the next monthly update or revision of the schedule.

The Engineer shall be allowed (5) calendar days to review and accept or reject the interim baseline schedule submitted. Rejected schedules shall be resubmitted to the Engineer within (2) calendar days of receipt by Contractor of the Engineer’s comments, at which time a new (5) calendar day review period by the Engineer will begin.

The Engineer shall be allowed 5 calendar days to review and accept or reject the baseline project schedule submitted. Rejected schedules shall be resubmitted to the Engineer within (5) calendar days, at which time a new (5) calendar day review period by the Engineer will begin.

**Add the following subsection:**

**6-1.1.4 Monthly Update Schedules.** The Contractor shall submit the Monthly Update Schedule to the Engineer each month. The proposed update schedule prepared by the Contractor shall include all information available as of the **20th calendar day of the month**, or other date as established by the Engineer. A detailed list of all proposed schedule changes (logic, duration, lead/lag, additions, and deletions) shall be submitted with the update.

The monthly submittal to the Engineer shall be accompanied by a Schedule Narrative Report. The Schedule Narrative Report shall describe the physical progress during the report period, plans for continuing the work during the forthcoming report period, actions planned to correct any negative float predictions, and an explanation of potential delays and/or problems and their estimated impact on performance, milestone completion dates, and the overall project completion date. In addition, alternatives for possible schedule recovery to mitigate any potential delay and/or cost increases shall be included for consideration by the Engineer. The report shall follow the outline set forth below:

Contractor’s Schedule Narrative Report Outline:

- Contractor’s Transmittal Letter
- Work completed during the period
- Description of the current critical path
- Description of problem areas
- Current and anticipated delays
- Cause of the delay
- Corrective action and schedule adjustments to correct the delay
- Impact of the delay on other activities, milestones, and completion dates
- Changes in construction sequences
- Pending items and status thereof
- Permits
- Change Orders

- Time Extensions
- Non-Compliance Notices
- Contract completion date(s) status
- Ahead of schedule and number of days
- Behind schedule and number of days
- Include updated Network Diagram and Reports

The Contractor shall provide to the Engineer printed copies of the network diagrams and tabular reports described under “Project Schedule Reports,” and the Schedule Narrative Report.

The monthly update of the schedule shall be for the period from the last update to the current cut-off date, and for the remainder of the project. The current period’s activities shall be reported as they actually took place and designated as actually complete, if actually completed, in the schedule updates.

Portions of the network diagram on which all activities are complete need not be reprinted and submitted in subsequent updates. However, the electronic disk file of the submitted schedule and the related reports shall constitute a clear record of progress of the work from award of contract to final completion.

The Contractor will be permitted to show early or late completion on schedule updates and revisions. The Engineer may use the updates and revisions, and other information available, in evaluating the effect of changes, delays, or time savings on the critical path and the accepted schedule current at the time to determine if there is an applicable adjustment of time, if any, to any target date or completion date due to the changes, delays, or time savings.

On a date determined by the Engineer, the Contractor shall meet with the Engineer to review the monthly schedule update. At the monthly progress meeting the Contractor and the Engineer will review the updated schedule and will discuss the content of the Narrative Report. The Engineer shall be allowed (5) working days after the meeting to review and accept or reject the update schedule submitted. Rejected schedules shall be resubmitted to the Engineer within (2) calendar days, at which time a new (5) calendar day review period by the Engineer will begin.

**Add the following subsection:**

**6-1.1.5 Final Schedule Update.** Within (20) calendar days after the Engineer’s acceptance of the work, the Contractor shall submit a final update of the schedule with actual start and actual finish dates for all activities. This schedule submission shall be accompanied by a certification, signed by an officer of the company and the Contractor’s Project Manager stating “To the best of my knowledge, the enclosed final update of the project schedule reflects the actual start and completion dates of the activities contained herein.” Submittal of the final Schedule Update and the Certification shall be a condition precedent to the release of any retained funds under the Contract.

**Add the following subsection:**

**6-1.1.6 Schedule Revisions.** No revision to the accepted baseline schedule or the schedule updates shall be made without the prior written approval of the Engineer. If the Contractor desires to make a change to the accepted schedule, the Contractor shall request permission from the Engineer in writing, stating the reasons for the change as well as the specifics, such as, revisions to activities, logic, durations, etc. The Engineer will provide a response within five (5) calendar days.

If the Engineer considers a schedule revision to be of a major nature, the Engineer may require the Contractor to revise and submit for acceptance all of the affected portion(s) of the project schedule and an analysis to show the effect on the entire project. The proposed revision and analysis shall be submitted to the Engineer within 2 days after the Engineer notifies the Contractor the revision is of a major nature. A change will be considered to be of a major nature if the time estimated for an activity or sequence of activities is varied from the original plan to the degree that there is reasonable doubt that milestone or Contract completion dates will be met, or if the schedule revision impacts the work of other contractors.

The Contractor shall submit a proposed revised schedule within (15) calendar days when requested by the Engineer when:

- a. There is a significant change in the Contractor's operations that will affect the critical path;
- b. The current updated schedule indicates that the contract progress is (30) calendar days or more behind the planned schedule, as determined by the Engineer, or
- c. The Contractor or the Engineer considers that an approved or anticipated change will impact the critical path or contract progress.

The Engineer shall be allowed (5) calendar days to review and accept or reject a schedule revision. Rejected revision schedules shall be resubmitted to the Engineer within (2) calendar days at which time a new 5 calendar day review period by the Engineer will begin. Only upon approval of a change by the Engineer shall it be reflected in the next schedule update submitted by the Contractor.

**Add the following subsection:**

**6-1.1.7 Schedule Time Extension Requests.** When Change Orders or delays are experienced by the Contractor and a time extension is requested, the Contractor shall submit to the Engineer a written Time Impact Analysis illustrating the influence of each change or delay on the current Contract completion date, or milestone completion date, utilizing the current accepted schedule. Each Time Impact Analysis shall include a fragnet demonstrating how the Contractor proposes to incorporate the Change Order or delay into the current schedule. The fragnet shall include the sequence of new and/or existing activity revisions that are proposed to be added to the accepted baseline project schedule or current schedule in effect at the time the change or delay is encountered, to demonstrate the influence of the delay and the proposed method for incorporating the delay and its impact into the schedule.

Each Time Impact Analysis shall demonstrate the estimated time impact based on the events of delay, the anticipated or actual date of the Change Order work performance, the status of construction at that point in time, and the event time computation of all activities affected by the change or delay. The event times used in the analysis shall be those included in the latest update of the current schedule in effect at the time the change or delay was encountered.

Time extensions will be granted only to the extent that equitable time adjustments for the activity or activities affected exceed the total or remaining float along the critical path of activities at the time of actual delay, or at the time of the Change Order work performance. Float time is not for the exclusive use or benefit of the Engineer or the Contractor, but is an expiring resource available to all parties as needed to meet Contract milestones and the Contract Completion Date. Time extensions shall not be granted nor delay damages paid until:

- a. A delay occurs which is beyond the control and without the fault or negligence of the Contractor and its subcontractors or suppliers, at any tier; and,
- b. Which extends actual performance of the work beyond the applicable current Contract Completion Date and the most recent date predicted for completion of the project on the accepted schedule update current as of the time of the delay or as of the time of issuance of the Change Order.

Each Time Impact Analysis shall be submitted in triplicate within fifteen (15) calendar days after a delay occurs or issuance of the Preliminary Change Order. If the Contractor does not submit a Time Impact Analysis for a specific Change Order or delay within the specified period of time, the Contractor shall be deemed to have irrevocably waived any rights to additional time and cost.

Approval or rejection of each Time Impact Analysis by the Engineer shall be made within fifteen (15) calendar days after receipt of each Time Impact Analysis, unless subsequent meetings and negotiations are necessary. Upon approval, a copy of a Time Impact Analysis, unless subsequent meetings and negotiations are necessary. Upon approval, a copy of a Time Impact Analysis signed by the Engineer shall be returned to the Contractor for incorporation into the schedule.

Upon mutual agreement by both parties, the accepted schedule revisions illustrating the influence of Change Orders and delays shall be incorporated into the project schedule during the first update after agreement is reached.

In the event the Contractor does not agree with the decision of the Engineer regarding the impact of a change or delay, notice shall be given in accordance with Section 9-1.04 of the State Standard Specifications.

**Add the following subsection:**

**6-1.1.8 Payment.** Payment for preparation and updating the progress schedule (critical path) shall be included in the various items of work and no additional compensation will be allowed.

**The Contractor shall include revised/updated schedule with invoice submittal for all payments.**

**6-7 TIME OF COMPLETION.**

**6-7.2 Working Day.**

**Add the following:**

The following days have been designated as holidays by the City of Pomona:

New Year's Day	January 1
Martin Luther King, Jr Day	3rd Monday in January
President's Day	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	1st Monday in September
Veterans' Day	November 11
Thanksgiving	4th Thursday in November
Day after Thanksgiving	4th Friday in November



Christmas Eve  
Christmas Day

December 24  
December 25

If a holiday falls upon a Sunday, the following Monday shall be the day the holiday is observed, and if a holiday falls upon a Saturday, the preceding Friday shall be the day the holiday is observed.

**Add the following subsection:**

**6-7.4 Work Hours.** The normal work hours, outside of the traffic lane, shall be from 7:00 AM until 4:00 PM on all work days. Workdays are defined in Section 6-7.2 of the Standard Specifications. Work hours within traffic lanes are defined in Section 7-10.1. Work hours other than normal work hours will not be allowed without prior consent of the City Engineer, **or required by the approved traffic control plan.** If work is performed at night, the Contractor shall provide adequate light for proper prosecution of the work for the safety of the workmen and the public, and for proper inspection.

**6-8 COMPLETION, ACCEPTANCE, AND WARRANTY.**

**Delete the entire subsection and substitute the following:**

The work will be inspected for acceptance by the City's Representative upon receipt of the Contractor's written assertion that the work has been completed. If, in the sole discretion of the City's Representative, the work has been completed and is ready for acceptance, the City's Representative will notify the City Clerk that the Contract has been completed in its entirety. The City's Representative 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. The date of completion shall be the date the Contractor is relieved from responsibility to protect the work.

The Contractor hereby guarantees that the entire work constructed by him under the Contract will meet fully all requirements as to quality of workmanship and materials. The Contractor hereby agrees to make, at his own expense, any repairs or replacements made necessary by defects in materials or workmanship that became evident within one (1) year after the date of the completion, and to restore to full compliance with the requirements of these Contract Documents, including any test requirements set forth herein for any part of the work constructed hereunder, which during said one (1) year period is found to be deficient with respect to any provisions of the Contract Documents. The Contractor shall make all repairs and replacements promptly upon receipt of written orders for the same from the City's Representative. If the Contractor fails to make the repairs and replacements promptly, the City may do the work and the Contractor and his sureties shall be liable to the City for the cost thereof.

The guarantees and agreements set forth herein shall be secured by a surety bond which shall be delivered by the Contractor to the City before the Notice of Completion and acceptance of the work by the City. Said bond shall be in the form approved by the City Attorney and executed by a surety company or companies satisfactory to the City in the amount of one hundred percent (100%) of the Contract. Said bond shall remain in force for a period of one (1) year after the date of Notice of Completion and acceptance. Alternatively, the Contractor may provide for the Faithful Performance Bond furnished under the Contract to remain in force and effect for said amount until the expiration of said one (1) year period.

The parties agree that no certificate given, with the exception of the certificate of final payment, shall be conclusive evidence of the faithful performance of the Contract, either in whole or in part, and that no payment shall be construed to be in acceptance of any defective work or improper materials.

Further, the certificate of final payment shall not terminate the Contractor's obligations under his warranty herein above. The Contractor agrees that payment of the amount due under the Contract and the adjustments and payments due for any work done in accordance with any alterations of the same, shall release the City, the City Council and its officials, officers and employees from any and all claims or liability on account of work performed under the Contract or any alteration thereof.

**6-9 LIQUIDATED DAMAGES.**

**Delete the entire subsection and substitute the following:**

Failure of the Contractor to complete the Work within the time allowed will result in damages being sustained by the Agency. Such damages are, and will continue to be, impracticable and extremely difficult to determine. For each consecutive calendar day in excess of the time specified for completion of the Work, as adjusted in accordance with 6-6, the Contractor shall pay to the Agency, or have withheld from moneys due it, the sum of **\$1,600**. Execution of the contract under these specifications shall constitute agreement by the Agency and Contractor that **\$1,600** per calendar day is the minimum value of the costs and actual damage caused by failure of the Contractor to complete the Work within the allotted time. Such sum is liquidated damages and shall not be construed as a penalty, and may be deducted from payments due the Contractor if such delay occurs.

In addition to the liquidated damages specified, if the Contractor fails to complete the work within the time specified for completion, plus any authorized time extensions, the Agency shall have the right to charge to the Contract all or any part, as it may deem proper, of the actual costs of inspection, supervision and other overhead expenses that are directly chargeable to the project and that accrue after the expiration of such specified time for completion plus authorized extensions. This charge will be addition to the payment of liquidated damages.

**SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR**

**7-3 LIABILITY INSURANCE.**

**Delete the entire subsection and Refer to Public Works Contract Article 7.**

**7-4 WORKERS' COMPENSATION INSURANCE.**

**Delete the entire subsection and Refer to Public Works Contract Article 7.**

**7-5 PERMITS.**

**Delete and substitute:**

The Contractor shall obtain, pay, and comply with all permits, including but not limited to the permits requirements as shown in the "Instruction to Bidders" part of this contract document, and give all notices necessary and incident to the due and lawful prosecution of the work and to the preservation of the public health and safety.

Excavation shall not be started on any trench, vertical or sloping, that is five feet (5') or more in depth until the Contractor has obtained a permit from the State Division of Industrial Safety and

submitted a copy of said permit to the Engineer. Upon demand by the City or the State Division of Industrial Safety or representatives thereof, the Contractor shall produce the permit.

The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work.

The Environmental Quality Act of 1970 (Chapter 1433, Stats. 1970), as amended by Chapter 1154, Stats. 1972 may be applicable to permits, license and other authorizations which the Contractor must obtain from local agencies in connection with performing the work of the contract. The Contractor shall comply with the provisions of said statutes in obtaining such permits, licenses and other authorizations and they shall be obtained in sufficient time to prevent delays to the work.

In the event that the City has obtained permits, licenses or other authorizations, applicable to the work, in conformance with the requirements in said Environmental Quality Act of 1970, the Contractor shall comply with the provisions of said permits, licenses and other authorizations.

## **7-6 THE CONTRACTOR'S REPRESENTATIVE.**

### **Add the following:**

When and as directed by the City Engineer, the Contractor shall attend all conferences and meetings which the City Engineer deems necessary for the proper progress of work under this contract.

## **7-8 WORK SITE MAINTENANCE.**

### **7-8.1 General.**

### **Add the following:**

When and as often as required by the Engineer, the Contractor shall furnish and operate self-loading motor sweepers with spray nozzles, to keep paved areas affected by the work acceptably clean and dust free.

The Contractor shall remove graffiti from all work, materials, equipment, and signs within the project. Equipment, materials, or signs containing graffiti shall not be brought to the project. Any graffiti found on work, materials, equipment, or signs shall be cleaned or removed from the project within 24 hours from its discovery. The cost of graffiti removal shall be borne by the Contractor, and shall be considered as being included in the various Contract items. Graffiti removal on paved surfaces shall be by sand-blasting with use of appropriate BMP's and clean-up included, and graffiti removal from other surfaces shall be by methods involving equivalent level of effort as approved by the Engineer.

### **7-8.3 Noise Control.**

### **Add the following:**

The Contractor shall comply with all local sound control and noise level rules, regulations and ordinances which apply to any work performed pursuant to the contract.

Each internal combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said muffler. If the Contractor is forced or allowed by the

Engineer to work outside the normal work hours, the noise level from the Contractor's operations, between the hours of 9:00 P.M. and 6:00 A.M. shall not exceed 86 dBA at a distance of fifty (50) feet. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level. Said noise level requirements shall apply to all equipment on the job or related to the job, including but not limited to trucks, transmit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

#### **7-8.4 Storage of Equipment and Materials.**

##### **7-8.4.1 General.**

##### **Add the following:**

It shall be the Contractor's responsibility to locate any storage sites for materials and equipment needed and such sites must be approved in advance by the City Engineer, and must be free of objectionable material. The storage site shall be properly fenced, screened from neighboring properties and street view. The storage site has to comply with Sec 7-8.6, in compliance with California Storm Water Best Management Practice handbook for construction activities. The Contractor must submit to the City Engineer for approval any and all agreement(s) between the Contractor and the property owner(s) of said storage site(s) and/or construction site(s) for approval prior to the start of construction. Said agreement(s) must provide for the restoration of the site(s) by the Contractor prior to the filing of "Notice of Completion" by the City Engineer.

##### **7-8.4.2 Storage in Public Streets.**

##### **Add the following:**

Stockpiling or storage of materials and equipments on any public right-of-way or parking areas will not be permitted without the approval of the City Engineer. Materials spilled along or on said right-of-way or parking areas shall be removed completely and promptly. All stockpile and storage areas shall be kept in a safe, neat, clean, and orderly fashion, and shall be restored to equal or better than original condition upon completion of the work.

##### **Add the following subsection:**

**7-8.4.3 Temporary Light, Power, and Water** Any water drawn from City fire hydrant shall be via City owned water meter. The meter requires posting a security deposit with the Utility Services Customer Service at City Hall. The deposit shall be retained until return of the meter in a condition like received, less normal wear and tear and set up charge. Deposit shall be forfeited for lost, stolen, or damaged meter. Cost of service charges and water consumption shall be paid to be paid to the Utility Services Department monthly. Current read of the meter to be provided or available for reading each month. All construction water meters require an approved "Reduced Pressure Backflow Preventer" (RPBP) to be installed immediately behind the meter on the service side. The Contractor shall operate the fire hydrant with a hydrant wrench only. Should damage occur to the hydrant, the Contractor shall make repairs at his expense.

The Contractor shall notify the Los Angeles County Fire Department and the City of Pomona, Public Works Department 24 hours in advance, stating the location of the hydrant and the hours when it will be used.

It is a misdemeanor to use water from any Public Fire Hydrant without obtaining the proper authorization.

#### **7-8.6 Water Pollution Control.**

##### **Add the following:**

The Contractor shall comply with the requirements of Subsection 7-8.6 of the Standard Specifications and shall conduct his operations so as to prevent Portland cement, mud, silt or other materials from entering the surface drainage structures of the adjoining street and any underground storm drainage system. Contractor shall comply with the requirements of project specific **Storm Water Pollution Prevention Plan (SWPPP)**.

In addition to complying with all applicable federal, state and local laws and regulations, the contractor shall take note of the **NPDES (National Pollution Discharge Elimination System)** Requirements. The Contractor shall take all precautionary actions and implement all necessary BMPs to prevent discharges to any portion of the storm drain conveyance system including discharge of pollutants from activities such as paving operations, concrete waste washouts, cold-milling, vehicle and equipment fueling from entering storm drain systems. These precautionary actions are required as dictated by the Stormwater Management program in accordance with Chapter 18 of the Pomona City Code. Such pollutants are listed per the California Stormwater Best Management Practices handbook for Construction activities.

The following shall be implemented:

1. Handle, store, and dispose of materials properly.
2. Avoid excavation and grading activities during wet weather.
3. Construct diversion dikes and drainage swales around working sites.
4. Cover stockpiles and excavated soil with secured tarps or plastic sheeting.
5. Develop and implement erosion control plans (if applicable).
6. Check and repair leaking equipment away from construction sites.
7. Designate a location away from storm drains for refueling.
8. Cover and seal catch basins if work in their vicinity may allow debris or deleterious liquids to enter.
9. Use vacuum with all concrete sawing operations.
10. Never wash excess material from aggregate, concrete, or equipment onto a street.
11. Catch drips from paving equipment with drip pans or absorbent material.
12. Clean up all spills using dry methods.

#### **7-10 PUBLIC CONVENIENCE AND SAFETY.**

##### **7-10.1 Traffic and Access.**

##### **Add the following:**

Traffic and access, including but not limited to vehicular and pedestrian traffic controls, maintenance of vehicular and pedestrian access, detours, and street closures, shall be in accordance with Subsection 7-10, of the latest edition of the Standard Specifications for Public Works Construction, including all its subsequent amendments; the latest edition of the **CAMUTCD (California Manual of Uniform Traffic Control Devices)** with State of California Modifications and the following Special Provisions. In the

event of conflict, the Special Provisions shall take precedence over the CAMUTCD and the Standard Specifications, and the CAMUTCD shall take precedence over the Standard Specifications.

**No lane closure will be allowed prior to 8:30 AM or after 3:30 PM within half-mile from any school or on major streets in the direction of peak traffic flow, unless otherwise provided in a City approved Traffic Control Plan.**

**No lane closure will be allowed prior to 8:00 AM on all other city streets.**

The Contractor shall provide and maintain two portable programmable signboards for each street under construction and on all major arterial streets. The signboards shall be installed one week prior to begin construction. The text shall be approved by the City. The cost shall be included in the various bid items.

Convenient and safe pedestrian access to occupied residential and business property shall be maintained at all times. Access to mailboxes must be maintained at all times such that the postal delivery service is not- interrupted. Trash pick-up service shall not be interrupted. Access to vacant and unused property may be restricted when approved by the Engineer. Both vehicular and pedestrian access shall be maintained at all times to all other property except as otherwise specifically authorized in writing by the City's Engineer.

1) **NOTIFICATION:** The Contractor shall give written and reasonable notice (in English and in Spanish) to occupants or owners of property adjacent to the construction site at least (5) working days prior to the beginning of construction in their respective areas. The notification shall include the date and time of street closures, parking and traffic access information and requirements, and precautionary information regarding the work to be done. A copy of all notifications shall be submitted to the City Engineer for approval.

2) **ACCESS TO DRIVEWAYS:** The Contractor shall notify in writing residents of property adjoining the location of the work at least forty-eight (48) hours before the start of construction on that street. The Contractor is responsible for posting "temporary no-parking" signs at least forty-eight (48) hours before using the parking lane for construction purposes. The Contractor shall be responsible for furnishing, posting, and removing temporary "No Parking" and "No Driving" signs (as applicable) along project streets. Signs shall be posted on each side of the street with a maximum of 200 feet between signs. Signs may be attached to existing poles, street lights standards or whatever is existing in the public right-of-way. When necessary, the Contractor shall furnish posts.

Pursuant to City requirements, "Temporary No Parking" signs must be posted and verified by the Pomona Police Department 24 hours prior to beginning of construction.

In the case of work requiring excavation of the roadway which may interfere with the use by residents or businesses of their driveways, suitable provisions shall be made by the Contractor at such time as the exigencies of construction may demand a temporary blocking of said driveways. Efforts shall be made by the Contractor to minimize the duration of said blocking and to notify the residents of this need well in advance. Further, the Contractor shall provide access to each residential or commercial establishment each evening.

The contractor shall keep the access open to all Pomona Unified Schools and including all other business offices along project limits, the LA County Fire Department and Pomona Police Department at all times and coordinate his construction efforts with these entities and the City of

Pomona.

3) **TRAFFIC CONTROL PLANS:** If required, the Contractor shall submit a legible, detailed Traffic Control Plan (TCP) on one or more 24" x 36" reproducible plan sheets which shall clearly show and/or describe all proposed lights, warning signs, barricades, delineators, temporary lane markings, temporary traffic signals or signs, and any and all other facilities proposed to be installed. Said TCP shall be prepared and stamped/sealed, signed, and dated by a State of California Registered Civil or Traffic Engineer and shall show all lane closures, restrictions, tapers, and other disruptions of normal traffic flow, including pedestrian and vehicular detours. A schedule and/or sequencing diagram shall be included. Said TCP may be drawn on a sepia or other transparent copy of the project's Plans. Said TCP shall be submitted to the Engineer for approval within **fifteen (15) calendar days** after issuance of **Conditional NTP**. It shall be the Contractor's responsibility to immediately revise said Plan at the direction of the Engineer, and the Contractor hereby agrees that such shall be strictly adhered to, and the Contractor hereby understands and agrees that its failure to provide any facility or device as shown on the TCP, or its deviation from said Plan, shall constitute a breach of contract.

### **7-10.3 Street Closures, Detours, Barricades.**

#### **Add the following:**

No closure of any street shall be allowed unless prior written permission is obtained from the City Engineer and approval of traffic control and detour plan. If permission to close a street is granted, then the Contractor is required to notify in writing at least **five (5) working days** in advance of street closures, all directly affected properties, all emergency services, and school bus services shall be notified by the contractor in writing of the locations, time, and date of the closures. In case of schedule changes, the emergency services, etc., shall be notified by telephone at least **two (2) working days** in advance of the street closure.

#### **Add the following subsection:**

**7-15 RECORD DRAWINGS.** At the beginning of the project, one blue-line print of each applicable drawing will be issued by the City to the Contractor for use in preparing record drawings.

Actual construction conditions shall be accurately and completely recorded on the blue-line prints by the Contractor as the project progresses. Upon completion of the work, the Contractor shall sign the record drawings and shall submit same to the City's Inspector for checking and approval prior to the Notice of Completion is filed.

#### **Add the following subsection:**

**7-16 HAUL ROUTES.** Haul routes shall be submitted to the Engineer within **fifteen (15) consecutive calendar days** following written notice of award of contract. Haul routes shall minimize impacts on heavily traveled arterials and areas with sensitive land used including schools, hospitals, and religious and residential communities.

Minimize **idling:** Contractor shall prohibit engine idling while waiting to load or unload, if the expected wait exceeds **ten (10) minutes**.

## SECTION 8 – FACILITIES FOR AGENCY PERSONNEL

Facilities for Agency Personnel will not be required on this project unless specified otherwise in technical Provisions.

## SECTION 9 – MEASUREMENT AND PAYMENT

### 9-3 PAYMENT.

#### 9-3.1 General.

##### Add the following:

Payment for cost of work to comply with the Standard Specification for Public Works Construction and these Special Provision and the Public Works Contract shall be included in the various bid items, and no additional payment will be made.

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 percent (5%)** 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.

The Engineer will, after award of the Contract, establish a closure date for the purpose of making monthly progress payments. The Contractor may request in writing that such monthly closure date be changed. The Engineer may approve such request when it is compatible with the Agency's payment procedure.

- 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, or partially approved in writing by the Contract Officer, payment shall be made for the approved portion of the work 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%)** 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%)** thereof shall be retained as performance security.

**Add the following subsections**

**9-3.2.1 Retention of Funds.** Progress payments shall be made in accordance with section 9-3.2 of the Special Provisions. In accordance with said section, City shall pay Contractor a sum based upon ninety-five percent (95%) 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%) 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.

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

**Add the following subsection:**

9-3.2.2 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.**

9-3.2 **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.

# PART 6

## **TECHNICAL PROVISIONS**

(SUPPLEMENTS AND MODIFICATIONS TO  
THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION)

**City of Pomona**  
**Street Rehabilitation Districts 2 & 3 (FY 2015-16/2016-17)**  
**PROJECT NO. 428-67914**  
**STPL PROJECT NO. 5070(033)**

**Technical Provisions**

**MOBILIZATION, INCLUDING QUALITY ASSURANCE PLAN COMPLIANCE (BID PRICE SHALL BE 2% OF THE TOTAL BASE BID) –**

**BID ITEMS # A-1, B-1, C-1:**

**A. GENERAL**

Mobilization shall consist of all conditional notice to proceed work, securing all permits/approvals and licenses, paying all fees, preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all other work and operations which must be performed or cost incurred without other pay items on the various contract items on the project site. The following items of work shall be included in the lump sum bid for Mobilization, and no additional compensation will be allowed:

1. Mobilization.
2. Clearing and Grubbing, general excavation, earthwork, and grading not included specifically in any other bid items.
3. Sawcut and removal of existing pavement and base material, not included specifically in any other bid items.
4. Sawcut and removal of existing PCC improvements (concrete curb, gutter, sidewalk, ramps, etc.).
5. Protection of existing improvements in place.
6. Punchlist
7. Notifications and Public Outreach

Re-mobilizations from street to street and as needed in all other circumstances by the Contractor's operations, work sequencing, revised work sequencing, scheduling, revised schedules and for all work shall be included in various other pay items. No separate payment or change orders will be allowed for any re-mobilizations related to additive alternate work shall be included in the additive alternate work pay items.

Mobilization shall also include all costs required by the contract and not specifically included in a pay item.

**B. PROJECT COORDINATION**

The Contractor shall be required to initiate and maintain project coordination with affected stakeholders, residents, schools, police & fire departments, solid waste collection department, utility agencies, transportation agencies and businesses throughout the course of this project.

The Contractor shall coordinate with all transit agencies regarding affected transit routes a minimum of 4 weeks in advance of any impact to the route. Known transportation agencies within the project limits are:

- Foothill Transit,
- Metro,
- Omni Trans and
- Pomona Transportation Authority

The contractor shall coordinate with each agency to determine necessary accommodations for the bus stops during the course of the project. Coordination may involve field meetings to discuss the safe passage of pedestrians, the limits where work zone will be, recommend phasing of work in a sequence to cause as little impact and/or the closure of the bus stops.

Attention to business coordination shall also be included under the contractor's responsibilities.

As part of the contractor's project coordination efforts, a minimum of two project specific notices shall be prepared and distributed to all residences and businesses within the project limits, or whose properties lie on dead end/cul-de-sac streets that intersect with one of the project segments. Separate notices shall be prepared for each roadway segment. The minimum required notices are:

- **Project Information Notice** (to be distributed **one week (7 calendar days) prior to the start of construction** ~~to be distributed at start of project~~) which includes:
  - General project limits (street specific) & scope of work
  - Construction timeframe & duration
  - Contractor contact name and number for access needs and project questions
  - **All notices shall be in English and Spanish**
- **Slurry/Fog Seal or Grinding and Paving Notice** (to be distributed 5 working days prior to start of grinding/paving operations) which includes:
  - Description of type of work
  - Specific Dates of grinding & paving impacts
  - Parking limitations
  - Special Instructions (Trash, Access, Etc.)
  - Contractor contact name and number for access needs and questions.

The cost for project coordination and notification shall be included in various work items and no additional compensation will be allowed therefore.

### **C. CITY OF POMONA COORDINATION**

The Contractor shall be responsible for coordinating with the City of Pomona to obtain the necessary encroachment permits and approvals for the work which will affect traffic signal and vehicular operations. All permitting, coordination, and other hours required to obtain approval and maintain correspondence with the City of Pomona shall be included in this bit item.

**D. CONDITIONAL NOTICE TO PROCEED**

Prior to the issuance of the Notice to Proceed, the City will issue a Conditional Notice to Proceed for the items listed in the general provisions of these specification. Upon issuance of the Conditional Notice to Proceed, the Contractor shall also be allowed to pothole existing facilities to verify pavement depths and take the necessary pavement cores for the cold central plant recycling testing and design. Working days will not be charged to the contract during this period until the issuance of the full Notice to Proceed and agreement of the construction start date.

**E. NOTIFICATION AND PUBLIC OUTREACH**

The contractor shall keep the access open to all Pomona Unified Schools and including all other Business offices along project limits, the LA County Fire Department and Pomona Police Department at all times and coordinate his construction efforts with these entities and the City of Pomona.

A notice shall be prepared summarizing extraordinary impacts to specific residences and those stakeholders mentioned as required by the City Engineer. Full compensation for complying with the work contained in this section shall be included in this bid item and no additional compensation will be allowed therefore. Due to the schools on 9<sup>th</sup> Street, Franklin Avenue, and Grand Avenue, all work, within those impacted streets, paving operations within the school block shall be started and completed during the school's winter break during December 18 through the 29<sup>th</sup> 2017 or outside these dates during the hours of 9 AM to 1 PM and 4 PM to 7 PM should inclement weather occur.

**F. QUALITY ASSURANCE COMPLIANCE**

**The Contractor shall comply with the requirements of the Quality Assurance Plan in Appendix G.**

**G. MEASUREMENT & PAYMENT**

**Measurement & Payment for Mobilization, including Quality Assurance Plan Compliance (Bid Price Shall be 2% of the Total Base Bid)** shall be on a **lump sum (LS)** basis as defined in Section 9-3.4 of the standard specifications, including but not limited to all activities, equipment, supplies, materials, transportation, facilities, and cleanup, and the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all other work and operations of the Contractor's forces which must be performed or cost incurred, without other pay items on the various contract items on the project site under the Contract. Payment shall be made as the work proceeds and shall constitute full compensation for the completion of the work. The total price for Mobilization shall be 2% of the total contract amount. No further compensation will be allowed separately from bid items.

**MONUMENT PRESERVATION – BID ITEM # A-2, B-2, C-2:**

Prior to any construction activities, all monuments, centerline ties, and any other survey markers within the project limits shall be located and recorded by a State of California Licensed Land Surveyor. No work will be authorized until the Contractor submits the required documentation to the City. Upon completion of construction, conflicting monuments, centerline ties, and other survey markers obliterated during construction shall be replaced in-kind per section 309 of the SSPWC and per the California Professional Land Surveyor's Act, latest edition. Corner records for all applicable intersections shall be filed with the County of Los Angeles prior to and after construction activities with copies of recordings

provided to the City. All work involved shall conform to the California Professional Land Surveyor's Act, latest edition.

**Measurement & Payment for Monument Preservation** shall be on a **lump sum (LS)** basis for all work involved with impacted monuments, centerline ties and survey markers due to all construction activity and shall include furnishing all materials, labor, and equipment necessary to perform all operations involved with resetting obliterated monuments, centerline ties, and other survey markers. Work shall also include all work involved with filing corner records prior to and after construction in conformance with the California Professional Land Surveyor's Act, latest edition and County of Los Angeles requirements, and providing documentation of same to the City.

### **NPDES/WATER POLLUTION CONTROL – BID ITEMS # A-3, B-3, C-3:**

#### **A. GENERAL**

The Contractor shall conform to the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities, NPDES General Permit No.CAS000002 (Order No. 2009-0009-DWQ), the Waste Discharge Requirements for the County of Los Angeles and the Regional Water Quality Control Board for the Los Angeles Region. The Contractor shall confirm that all of the Best Management Practices (BMP's) have been adequately detailed and addresses his or her anticipated construction operations and meets the intent of the NPDES requirements.

The Contractor shall utilize Best Management Practices (BMP's) during construction to ensure that sediment from storm runoff and construction activities does not enter storm drains. Some of the primary Water Pollution Control measures anticipated for this project include, but are not limited to, covering all storm drains inlets in the project vicinity with water permeable fabric and gravel bags prior to performing any AC grinding, removal or paving operations; properly fueling and cleaning all equipment/vehicles; maintaining an ample supply of gravel/sand bags on-hand when excavating new PCC sidewalk/ramp/curb/gutter improvements in the event of rain; properly containing all PCC treatment materials such as the coloring agents, exposed aggregate etching chemicals and surface treatment chemicals required to install the detectable warning mats; properly covering all incoming material trucks and all out going debris hauling vehicles; providing restroom facilities for workers; and regular street sweeping of the work area and haul routes to the satisfaction of the City of Pomona. The requirements of all of the following agencies shall be met and maintained and where there is a conflict between requirements, the most stringent requirement shall govern.

1. Regional Water Quality Control Board Los Angeles Region
2. County of Los Angeles
3. City of Pomona & NPDES General Permit Requirements (No. CAS000002 and Order No. 2009-0009-DWQ) including BMP's

#### **B. BEST MANAGEMENT PRACTICES**

The Contractor shall submit a Best Management Practice (BMP) plan for containing any wastewater or storm water runoff from the project site including, but not limited to the following:

1. No placement of construction materials where they could enter storm drain system, which includes gutters that lead to catch basins.
2. Checking construction vehicles for leaking fluids.
3. Providing a controlled area for cleaning or rinse-down activities.
4. Monitoring construction activities.

5. Minimizing usage of water when saw-cutting and vacuum the residue.
6. Providing measures to capture or vacuum-up water contaminated with construction debris.
7. Removing any construction related debris on a daily basis.
8. Protecting work areas from erosion.

The BMP will be approved by the Engineer prior to any work. The City of Pomona will monitor the adjacent storm drains and streets for compliance. Failure of the Contractor to follow BMP plan will result in immediate cleanup by City and back-charging the Contractor for all costs plus 15 percent.

It is assumed that the Contractor will apply for the “Small Construction Rainfall Erosivity Waiver” as defined in the General Permit. Filing of the waiver does not relieve the Contractor of submitting BMP’s to be used on site during construction, nor does it relieve the Contractor from conforming to the storm water requirements of the State Water Resources Control Board. The Contractor shall complete the electronic Notice of Intent (NOI) and Sediment Risk form through the State Water Board’s SMARTS system, certifying that the construction activity will take place during a period when the value of the rainfall erosivity factor is less than five. In the event that a the Rainfall Erosivity Waiver is not granted by the State Water Resource Control Board, the Engineer shall be notified immediately.

### **C. MEASUREMENT & PAYMENT**

**Measurement & Payment** for NPDES/Water Pollution Control shall be on a **lump sum (LS)** basis including but not limited to all activities, equipment, supplies, materials, cleanup, and incidentals for doing all the work including the preparation, implementation and maintenance of BMP’s on the construction site, preparation and filing for the NOI and “Small Construction Rainfall Erosivity Waiver” as specified herein and as described in the SSPWC, all NPDES related work and activities, and no further compensation will be allowed therefore.

### **PROJECT SIGNS – BID ITEMS # A-4, B-4, C-4:**

The Contractor shall provide and install project signs. The signs shall be mounted onto a 4’X8’ plywood board, and supported by wood posts with bracing and skids as directed. The finish and lettering of the sign shall be as directed by the City.

The Contractor shall erect the sign using the attached City specifications install at locations designated by the Engineer. The erection of the signs shall be designed to be stable when subjected to high wind gusts. The Contractor shall maintain the sign for graffiti and shall provide a new sign if the graffiti or other event which damages the sign cannot be repaired. The Contractor may apply an anti-graffiti coating or cover the sign with clear Plexiglas as an alternative. The conditions for sign maintenance would remain the same; resulting in sign-replacement or Plexiglas replacement. At the end of construction the Contractor shall be responsible for removal and return to the City.

The signs shall incorporate the required information as shown in the attached plan provided by the City (Appendix B). The Contractor shall submit a draft copy of the Project Sign and Grant Sign to the Engineer for approval before fabrication.

**Measurement & Payment** for **Project Signs** shall on a **per each (EA)** basis for the approval, production, fabrication, installation, maintenance, and, upon completion of the project, the removal of project signs, restoration of impacts, and shall include all materials, labor, equipment, and performing all

operations necessary for project signage, as directed by the Engineer. No additional payment will be made therefore.

**TRAFFIC CONTROL & ELECTRONIC SIGNS– BID ITEMS # A-5, B-5, C-5:**

**A. GENERAL REQUIREMENTS:**

It shall be the Contractor's responsibility to furnish detailed Traffic Detour and Control Plans for CITY approval. Traffic Detour and Control plans shall be prepared by a California registered Civil or Traffic Engineer and submitted for plan checking prior to the start of construction.

Said plan shall identify construction phasing, which shall not disrupt existing traffic circulation patterns. Delineation shall be in accordance with the latest version of the California Manual on Uniform Traffic Control Devices as approved by the City Traffic Engineer. No street closures shall be proposed or made without the prior approval of the ENGINEER and other agencies involved.

All work shall conform to the SSPWC and the "California Manual on Uniform Traffic Control Devices" (CA-MUTCD). Unless otherwise specified, this item shall include full compensation for street closures, detours, grading, restoration, signs, flagmen, barricades, flashers, temporary striping, removal and replacement of miscellaneous signs, fences and all appurtenances related to providing traffic control for the project.

No street or access closure to through traffic will be allowed to be proposed or implemented without the approval of the ENGINEER.

Electronic message signs (EMS) shall be provided on each roadway segment per section 7-10.1. A minimum of three EMS shall be in place one week prior to any roadway operation that will have impact on the street. EMS shall remain in place until the work is completed on the roadway segment. It shall be the contractor's responsibility to maintain, update and move the EMS as required and directed by the City.

The Contractor shall provide advance electronic message signs (EMS) for road closures requiring detours and for lane closures at appropriate locations prior to entering the detour or lane closure area in each affected direction. These signs are in addition to the advance notification EMSs discussed in the supplemental provision (Section 7-10.1).

Traffic control also includes all additional materials, equipment and labor to construct driveways one-half (1/2) at a time.

Steel plate covers shall be installed over all open trenches at the close of construction each day so that a minimum of one (1) travel lane in each direction can be maintained during non-construction hours. Recess (flush) installation of steel plates is required on all asphalt streets and ramping (1v:24h) with asphalt is required on all concrete streets.

Specialized traffic control will be required for this project, requirements are described in Section 7-10.

“No Parking” signs must be posted a minimum of 48 hours in advance, but not more than 72 hours prior to the period needing enforcement. Tow-away, No Parking signs must include:

BY ORDER OF THE POLICE DEPT, C.V.C. 22651 (L) / 22658 (A)



All necessary temporary striping is included as part of the traffic control bid item.

**B. PHASING REQUIREMENTS:**

**General Traffic Control/Phasing Requirements:**

A minimum of one (1) travel lane of twelve (12) feet (minimum) in each direction shall be maintained on all paved streets within the construction zone at all times wherever possible. If one travel lane in each direction is not possible during construction, the Contractor shall follow the requirements stated in Section 7-10.1 which require flaggers and pilot cars for lane closures. Clearances from traffic lanes shall be five feet to the edge of any excavation and two feet to the face of any curb, pole, barricade, delineator, or other vertical obstruction. Access shall be provided to all intersecting local streets and driveways at all times. Utility adjustment and striping will be permitted during daylight hours. The Contractor shall submit a plan detailing the delineation and protective measures to be undertaken for CITY and other agencies' approval.

**Holiday Phasing Requirements:**

The Contractor will not be allowed to excavate and leave open any parkway or roadway improvements over any weekend or holiday. The Contractor shall schedule and phase the work accordingly to ensure that all initiated work is completed before the start of any weekend or holiday.

**Street Specific Traffic Control/Phasing Requirements:**

Grand Avenue: (From Hansen Ave to Garey Ave)

- Road closures will not be allowed on Grand Avenue.
- Detailed traffic control plans shall not be required on Grand Avenue, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

9<sup>th</sup> Street: (From Towne Ave to San Antonio Ave)

- Road closures will not be allowed on 9<sup>th</sup> Street.
- Detailed traffic control plans shall not be required on Grand Avenue, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

Franklin Avenue: (From San Antonio Ave to Garey Ave)

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.
- Contractor's Cold Mill and Overlay operations within the vicinity of Simons Middle School (SEC of Franklin Avenue & Towne Avenue) shall be scheduled during summer break or when school is not in session.

Lexington Avenue: (From San Antonio Ave to Reservoir Ave )

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

**C. Measurement & Payment:**

**Measurement & Payment for Traffic Control** shall be on a **lump sum (LS)** basis and shall include compensation for all traffic control activities including but not limited to labor, materials, tools, equipment for temporary Asphalt Concrete, Cold and Hot Mix installation as well as the removal for all work involved in Traffic Control as specified, including preparation of Traffic Control Plans and obtaining CITY and other agencies plan review, approval and permits, install and maintain project signs, temporary construction signs, delineators, cones, flashing arrow signs, portable changeable message signs, street closures, detours, temporary striping, barricades, steel plates, one-half width at a time driveway construction, and other safety devices, as required for public safety in Section 7-10 "Public Convenience and Safety" of the Standard Specifications for Public Works Construction (SSPWC) and the Special Provisions or as directed by the Engineer. No separate payment will be made for traffic control, and no further compensation will be allowed therefore.

### **PUNCH LIST**

This item includes all labor, equipment and materials required to prepare, complete and restore all punch list items to the City's satisfaction. No partial payment will be allowed until all punch list items, restoration, clean up, demobilization, as-builts, operation and maintenance manuals/documents, and prevailing wage submittals are completed and provided to the City and accepted by the City Engineer.

Payment for punch list will be included in the various items of work and no additional payment will be made therefore.

### **CLEARING AND GRUBBING:**

Section 300-1, "Clearing and Grubbing," of the Standard Specifications is supplemented by the following:

Contractor shall field verify existing grades and shall accept site as is, for no other grading shall be performed by the CITY.

- 300-1.3 Removal and Disposal of Materials
- 300-1.3.1 General

All materials removed shall be disposed of in a legal manner at an appropriate Disposal Site.

- 300-1.3.2 Requirements
- A. Bituminous Pavement  
Saw cutting of edges to be joined is required.
- D. Miscellaneous

In addition to the work outlined in Section 300-1.1 of the Standard Specifications, the following items of work are included under Clearing & Grubbing unless otherwise covered by specific bid item.

1. Maintaining dust control at all times by watering during the entire time of the project, whether extended or not, including developing a water supply and furnishing and placing all water for all work done in the contract, including water used for extra work.

2. Application of soil sterilant.
3. Protection of utilities, structures, improvements and other facilities within the construction zone, except those specifically shown on the plans to be removed or relocated.
4. Removal and disposal of existing natural and artificial objectionable material within the limits of construction.
5. Verification of existing locations and elevations as shown on the plans or directed by the ENGINEER.
6. Replacement of disturbed traffic signs, street names, mailboxes, property owner signs, fences, landscaping, protection of temporary construction fences and all appurtenances, striping and markings as required to the satisfaction of the ENGINEER. Also, includes the installation of safe pedestrian pathway by installing orange netting or other approved method of safely directing pedestrians through a protected path.
7. Provide for the replacement of trees and plants, of the same kind, to the satisfaction of the property owners whether indicated on the plans or not.
8. This item shall also be interpreted to include the removal or relocation of any additional items in conflict with the proposed work not specifically mentioned herein or covered by specific bid item as directed in the field by the Engineer, which maybe found within the work limits whether shown or not shown on the plans to be removed or relocated.
9. All surplus material three (3) inches or smaller shall be uniformly spread and compacted in the street sub grade. No material greater than three (3) inches in any dimension shall be used in the top twelve (12) inches of the sub grade. No nesting of rocks shall be allowed.
10. Unclassified fill shall consist of all fill unless separately designated. Construction of unclassified fill included preparing the area on which fill is to be placed, and the depositing, conditioning, and compaction of fill material.
11. Complete all demolition and removal work associated with the removal of AC, underlying PCC, PCC curb/gutter, as designated on the drawings for removal, unless otherwise defined.
12. Any structural or non-structural demolition work involved for the construction of the project and Contractor shall be responsible for disposing in a legal manner.
13. Determining and maintaining a straight edge in areas where AC joins existing edge of pavement.

Payment for items 1 through 13 as described above shall include full compensation in furnishing all labor, materials, tools and equipment as specified, including saw-cutting, loading, hauling, stockpiling and disposal, shall be included in the various items of work for which Clearing and Grubbing is required, as directed by the Engineer, and no additional payment will be allowed therefore.

**UNCLASSIFIED EXCAVATION:**

Section 300-2, "Unclassified Excavation," of the Standard Specifications is supplemented by the following:

Unclassified excavation shall also include salvaging clean excavated material, filling areas to the required grade and cross-section, compacting fill material, and subgrade preparation, as directed by the Engineer.

#### 300-2.2 Unsuitable Material

Bituminous Pavement and Concrete removals shall be saw-cut at the designated lines of removal shown on the Plans or as designated by the Engineer.

#### 300-2.6 Surplus Material

All surplus materials shall be disposed of in a legal manner at the Contractor's expense.

This item shall be included in the various items of work, for which unclassified excavation is required, as directed by the Engineer. No further compensation will be allowed therefore.

### **CONCRETE IMPROVEMENTS**

#### **A. GENERAL**

Section 302-6, "Portland Cement Concrete Pavement," and Section 303-5, "Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways," of the Standard Specifications are supplemented by the following:

Portland cement concrete improvements shall be constructed in accordance with the details shown on the Plans and the City of Pomona Standard Plans, included herein. Concrete shall be specified by class and shall be in conformance with Table 201-1.1.2(A), or as shown on the plans.

High-early strength concrete shall be used for bus pads, cross gutter, all driveways, and alley approaches to comply with the requirements in the latest SSPWC, Section 7-10 "Public Convenience and Safety." High-early strength concrete shall achieve a compressive strength of 2,000 p.s.i. within 48 hours of pouring and at least 2,500 p.s.i. after 28 days.

It shall be the responsibility of the Contractor to protect wet concrete from graffiti. All newly poured concrete items observed to have graffiti markings left in the wet concrete or etched in the new surface prior to the acceptance of the project shall be removed and replaced by the contractor at no additional cost to the City.

All concrete removal and replacement work items shall be completed prior to grinding and paving any of the adjacent roadways.

When "slot paving" is required for concrete construction, as shown on the Plans, said paving shall be considered as included in the unit prices bid for the associated concrete improvements, and no additional payment will be made therefore. Slot paving shall consist of asphalt concrete (match existing section) on full depth 2-sack slurry mix where a sawcut is required in asphalt pavement, and as directed by the Engineer.

The Contractor shall remove and replace any new concrete work with graffiti markings and blemishes at no additional cost to the City.

For all concrete removals and replacements, the Contractor will not be allowed to excavate more locations than can be poured and completed by the end of the work week. All concrete removals shall be replaced by end the of the work week and completed in place unless authorized by the Engineer.

**B. SOIL STERILANT**

All concrete construction work items shall require the application of soil sterilant. The Work to be done hereunder consists of furnishing and applying soil sterilant in the locations where subgrade is exposed, and as directed by the Engineer. The sterilant shall be applied prior to constructing the concrete improvements and applied to a width of 1 foot adjacent to curbs, around pull boxes, light standards and where directed by the Engineer.

The sterilant material shall be a bromacil compound containing not less than 80 percent 5-bromo-3-sec-butyl-6 methyluracil mixed with water and a surfactant (wetting agent). The mixture composition shall be in the proportions of 6 pounds of bromacil compound and one gallon of surfactant to 100 gallons of water.

The sterilant shall be mixed on the Work site in the presence of the Engineer and shall be continuously agitated and applied with spray equipment having power agitators, spreader booms or bars and hand spray hoses such as to provide controlled, uniform applications.

Sterilant mixture, including water, shall be furnished and applied, under the direction of the Engineer, at a rate of 0.04 gallon per square yard.

Payment for soil sterilant will be included in the various items of work and no additional payment will be made therefore.

**REMOVE & REPLACE CONCRETE CURB & GUTTER – BID ITEMS # A-6 , C-6:**

Saw-cutting, removal and disposal of existing improvements is included in this bid item.

Sawcut, removal and replacement of 2' slot paving with 2-sack PCC slurry adjacent to all curb or curb and gutter shall be required.

This bid item also includes removal and disposal of existing material and the installation and compaction of 6" CMB underneath all segments of new curb or curb and gutter and adjacent pavement.

Prior to removal, contractor shall field verify the join limits to ensure there will be positive fall between the removal limits and bring to the City's attention any locations that will not drain properly. Limits shall be adjusted per field conditions to ensure positive drainage is achieved on all new curb & gutter.

Curb or Curb and Gutter Removal and Replacements shall match the existing curb height and gutter width for the adjoining segments. This item also includes forming and pouring any portion of depressed curbs at driveways that fall within the removal and replacement limits.

Prior to placement of these improvements, contractor shall grind or prune all obstructing roots if present and per the root pruning specifications.

Prior to acceptance of any curb and gutter, the Contractor shall water flow test each segment of curb and gutter to ensure that ponding of water does not occur within the limits of new construction.

A sidewalk ½-inch radius edging tool is to be used to finish the edges of all curbs.

Curb and gutter constructed in conjunction with or as a result of new curb ramp, alley approach or cross gutter construction limits shall not be included as part of this bid item. All such curb and gutter shall be included in the unit price for the respective bid items and no further compensation will be allowed.

**Measurement & Payment for Remove and Replace Curb & Gutter** shall be on a **Linear Foot (LF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the removal of existing and construction of new curb/curb & gutter including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, installation of base, construction of work item, finishing and protection of the work item and no further compensation will be allowed therefore.

**REMOVE & REPLACE SIDEWALK, CONSTRUCT SIDEWALK – BID ITEMS # A-7 & 13, B-6:**

Concrete sidewalk shall be constructed to the line, grades and designs shown on the plans or as ordered by the Engineer. Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. Any and all gas or water meter boxes falling within the limits of sidewalk construction shall be adjusted to the finished grade of the new sidewalk as part of this work item unless specifically called out as a separate work item on the plans.

Sidewalk score lines shall have a minimum finished depth of ½-inch. Walkway replacement needed to join new sidewalk shall be in-kind (surface texture, aggregate, finish, etc.) to the walkway removed or as directed by the Engineer's representative.

A sidewalk ½-inch radius edging tool is to be used to finish the edges of all curbs.

Limited infill and compaction of suitable base material will be required under certain portions of sidewalk. Contractor shall include the cost of material, labor and compaction of such material in the unit price per bid.

The contractor shall verify existing grades in order to ensure full ADA compliance

Any appurtenant PCC Improvement constructed as part of this project and not included with a unit price bid quote or otherwise covered for payment herein shall be paid at the unit price for Sidewalk per square foot prorated to reflect the true amount of PCC material being constructed, as approved by the Engineer's Representative. The prorated unit price bid for the appurtenant PCC improvement shall include all costs of subgrade preparation, and the excavation, furnishing and compacting of backfill material and no additional compensation will be allowed therefore.

**Measurement & Payment for Remove & Replace Sidewalk, Construct Sidewalk** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal and disposal of existing improvements and materials, construction of new sidewalk including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, construction of work item, adjustment of miscellaneous parkway items found within the limits of construction, finishing and protection of the work item and no

further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any planter areas, and shall only include the actual PCC surface area as measured in the plan view.

**REMOVE & REPLACE CROSS GUTTER– BID ITEM # A-8, C-6:**

It shall be the contractor’s responsibility to verify the limits of construction with the City inspector for each of the cross gutters. Construction of the cross gutter shall be per the project plans and the referenced City of Pomona Standard Plans and any applicable details.

Construction of the cross gutter shall include the monolithic curb and gutter. Where a new curb ramp is proposed adjacent to the cross gutter, the curb and gutter shall be paid for as part of the curb ramp bid item, and the appropriate square footage shall be deducted from the total area of the cross gutter.

All removal and replacement cross gutters locations shall be constructed to existing joint elevations. The contractor shall document the existing relative elevations and grades at the joint locations as well as key elevation points. The Contractor shall ensure that positive drainage is achieved between the joint locations of construction.

All concrete for cross gutters shall be high-early strength concrete as defined in the General portion of the concrete improvements specification.

All intersections with cross gutters shall be opened to traffic at the close of each day. Adequate ramping or plating of the cross gutter location during the removal and grading phase shall be required based on the Engineers direction. Plating of the cross gutter during curing phase shall be required in order to maintain traffic through the intersection at all times.

2’ minimum width sawcut, removal and full depth slot paving with 2-sack PCC slurry shall be required adjacent to all sides of the cross gutter.

The contractor shall verify existing grades in order to ensure full ADA compliance.

**Measurement & Payment for Remove & Replace Cross Gutter** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal of existing improvements and materials, construction of new cross gutter including coordinating with the City Inspector to verify locations, configuration and limits, surveying and staking, removals, preparation of subgrade, temporary ramping, slot paving, construction of work item, high early strength concrete, adjustment of miscellaneous utility items found within the limits of construction, finishing, plating, and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any adjacent slot paving and only includes the area bound by new PCC surface as measured in the plan view.

**REMOVE & REPLACE RESIDENTIAL & COMMERCIAL DRIVEWAY– BID ITEMS # A-9 & A-10:**

It shall be the contractor’s responsibility to verify the limits of construction with the City inspector for each of the driveways. Construction of the driveways, or portions of driveway, shall be per the project plans, the referenced City of Pomona Standard Plans, and any applicable details.

This item includes the construction of full driveways, as well as the removal and replacement of portions of driveways, as identified on the plans and noted in the field by the City inspector.

The Contractor shall verify existing grades at the driveways in order to ensure full ADA compliance across the driveway is achieved. Should ADA compliance not be feasible at this location, the Contractor shall coordinate with the City inspector to determine a course of action.

The limits of the driveway include the driveway surface as well as curb and gutter adjacent to the driveway. All concrete flatwork outside the winds of the driveway shall be paid for as part of the sidewalk removal and replacement item and no additional compensation will be allowed.

Depending on the driveway configuration, additional segments of retaining curb may be required. All such retaining curbs and other field adjustments are included as part of this work item.

All concrete for driveways shall be high-early strength concrete as defined in the General portion of the concrete improvements specification.

The contractor shall be responsible for contacting and coordinating access to and from the property with the homeowner prior to and during the course of the driveway construction. The contractor shall be responsible for maintaining a minimum of one access point to each property at all times. Adequate ramping or plating of the driveways during the removal and grading phase shall be required based on the Engineers direction. Plating of the driveway during the curing phase shall be required in order to maintain access to properties at all times.

2' minimum width sawcut, removal and full depth slot paving with 2-sack slurry adjacent to the lip of gutter shall be required at all locations.

The contractor shall verify existing grades in order to ensure full ADA compliance.

#### Sidewalk Replacements within Existing Driveways:

All sidewalk replacements that fall within the limits of a driveway shall be paid for as part of the partial driveway replacement work items (Residential or Commercial Per Plan). PCC and CMB thicknesses of the partial driveway replacement work items shall be per the standard plan based on residential or commercial thicknesses. Contractor shall be required to coordinate with, phase and plate all partial driveway replacements as though they were full replacements in order to ensure the resident has access to their property at the end of each working day.

**Measurement & Payment for Remove & Replace Residential Driveway and Remove & Replace Commercial Driveway** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal of existing improvements and materials, construction of new driveway, or portions thereof, including coordinating with the City.

Inspector to verify locations, configuration and limits, removals, preparation of subgrade, temporary ramping, slot paving, construction of work item, high early strength concrete, adjustment of miscellaneous utility items found within the limits of construction, finishing, plating, and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any adjacent slot paving and only includes the area bound by new PCC surface as measured in the plan view.



## **REMOVE & REPLACE CURB RAMP– BID ITEMS # A-11, C-7:**

Concrete Curb Ramps shall be per SPPWC Standard Plan 111-5 and City of Pomona Standard Plan A-28-10, case and type per plans. Concrete shall be Class 520-C-2500.

The geometry shown on the plans is representational. The final limits and geometry of the required curb ramp shall be verified and placed in the field by the contractor in order to ensure the required grades and clearances are obtained.

Curb and Gutter Shall be included in the limits of the Curb Ramp which includes the sawcutting and full AC reconstruction of a 3' wide (slot pavement with 2-sack PCC slurry) portion of AC pavement adjacent to the curb and gutter in order to achieve the required 5% maximum grade for 4' adjacent to the curb face. A minimum of a 3' saw cut and pavement replacement will be required in all areas of curb return replacements adjacent to existing pavement not slated for grind and overlay. In locations for a 3' slot pave with 2-sack PCC slurry is inadequate at achieving the required 5% maximum grade and would create adverse driving conditions for the 1' transition, each location shall be individually documented in the construction project files justifying the reason for non-compliance. The proposed pavement section shall be full depth asphalt paving to match the existing pavement section thickness.

Construction of any necessary retaining curbs at the back of ramp or wings of the ramp are included as part of this bid item. The contractor shall install retaining curbs within the ramps to ensure that the constructed ramp is fully ADA compliant while joining existing grades at the back of walk/ramp.

When curb ramp removal and installation is adjacent to PCC cross gutters that are not abandoned/buried then the concrete shall be sawcut 4" off the existing curb face, and the new concrete shall be doveled and epoxied into the existing cross gutter spandrel at 12" on center using 18" #4 bars.

All work within the 1' rumble strip at grade breaks of the sidewalk shall be considered as part of the curb ramp. All work past the 1' rumble strip, which has been approved by the engineer, shall be considered as extra sidewalk or curb and gutter items and will be paid for per the respective unit price.

Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. All sawcut locations along existing cross gutters shall be cut in a curve conforming to the existing curb return and shall be cut at a set offset from the flow line as approved by the City Engineer. The flow line shall be maintained, ensuring that ponding does not occur in the existing cross gutter.

Any and all Traffic Signals, or pedestrian push button poles, traffic signal poles and other surface mounted appurtenances shall be protected in place and/or re-attached as part of this bid item.

All pull boxes within curb ramp limits shall also be adjusted to the finished grade of the new curb ramp and shall be paid for per the unit price for each respective bid item.

All water or gas valve can and lids within curb ramp limits shall also be adjusted to the finished grade of the new curb ramp and shall be paid for per the unit price for each respective bid item.

The City Engineer shall have final say regarding the case and type of curb ramp to be installed and shall retain the right to revise the ramp designation at any point prior to construction.

The contractor shall verify existing grades in order to ensure full ADA compliance

Curb ramps shall be constructed with detectable warning surfacing complying with California Building Code Title 24. Detectable warning surfacing shall consist of vitrified polymer composite, with at least 25% by weight aluminum oxide, nominally 0.20" thick, colorfast and UV stable. Panels must be embedded. Embedded panels shall have perforated embedment ribs at 3" on center, at least 1" deep.

Other physical characteristics shall be as follows:

Compressive Strength	Greater than 18,000 psi	ASTM D 695
Flexural Strength	Greater than 24,000 psi	ASTM D 790
Tensile Strength	Greater than 10,000 psi	ASTM D 638
Water Absorption	Less than 0.35%	ASTM D 570
Slip Resistance	Greater than 0.80	ASTM C 1028
Flame Spread Index	Less than 25	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
Abrasion Resistance	Less than 0.030 (1,000 cycles)	ASTM D 2386
Accelerated Weathering	No Damage (2,000 hours)	ASTM G 29
Load Bearing at 16,000 lbs.	No Damage	AASHTO-H20
Freeze / Thaw / Heat	No Disintegration	ASTM C 1026

The color of the panels shall be black except for ramps adjacent to or within one block of a school. Ramps within one block of a school shall have yellow truncated domes.. The Contractor shall install panels in accordance with manufacturer's recommendations. The cost of installing detectable warning service panels on new ramps shall be included in the cost of the curb ramp. Retrofitting detectable warning surfaces on existing ramp or walkway surfaces shall be paid for as part of their respective bid items.

**Alternate Bid Curb Ramp Replacements:**

The bid price for the alternate bid curb ramp replacement work item shall include a credit for the conversion of the base bid retrofit of truncated domes to a cast in place truncated dome system, as well as a credit for the removal of the grinding of existing lip to a 0" curb face. All new curb ramps shall have cast in place truncated domes.

**Measurement & Payment for Remove & Replace Curb Ramp** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal of existing improvements and materials, construction of new curb ramp, including coordinating with the City Inspector to verify case & type, configuration and limits, removals, preparation of subgrade, temporary ramping, construction of work item, slot paving, construction of monolithic retaining curbs, adjustment of miscellaneous utility items found within the limits of construction, installation of detectable warning surfaces, finishing, and protection of the work item and no further compensation will be allowed therefore.

**RETROFIT TRUNCATED DOMES ON EXISTING SURFACE & GRIND EXISTING LIP TO 0" CURB FACE – BID ITEMS # A-12, B-7, C-8:**

Detectable Warning Surfaces:

Detectable warning surfaces shall be installed on existing access ramp surfaces. Detectable warning surfaces shall comply with City Standard No. A-28-19, Sheet 11 and the California Building

Code Title 24, and shall consist of vitrified polymer composite, with at least 25% by weight aluminum oxide, nominally 0.20" thick, colorfast and UV stable. Panels must be anchored to the sidewalk access ramp surface as indicated on City Standard No. A-28-19, Sheet 11 and in accordance with manufacturer's recommendations. The color of the panels shall be black except for ramps adjacent to or within one block of a school. Ramps within one block of a school shall have yellow truncated domes.

Grind Ramp Lip to 0" Curb Face:

On all ramps to be retrofitted with a truncated dome, if an existing lip exists as the bottom of the ramp adjacent to the flowline, the Contractor shall grind the existing curb ramp lip to achieve a 0" curb face. The grind shall be tapered at the edge of the ramp surface, as appropriate, to avoid creating a sharp elevation drop-off and shall be 0" to 1/2" deep and shall be at least 6" wide in a straight-line-grade. Grades within the grind area shall also be limited to 8.33%. The price of grinding the lip shall be included in the unit price for retrofitting the existing curb ramp.

**Measurement & Payment for Retrofit Truncated Domes on Existing Surface and Grind Existing Lip to 0" Curb Face** shall be paid for on an **Each (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including surface preparations, coordinating with the City Inspector to verify limits of grinding, grinding the existing lip, removal and disposal of debris, dust control, cutting and configuration of the truncated domes (as required), installation of the truncated domes per manufacturers recommendations, protection of the work item and no further compensation will be allowed therefore.

**CONSTRUCT CONCRETE SIDEWALK – BID ITEM #A-13:**

Concrete sidewalk shall be constructed to the line, grades and designs shown on the plans or as ordered by the Engineer. Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. Any and all gas or water meter boxes falling within the limits of sidewalk construction shall be adjusted to the finished grade of the new sidewalk as part of this work item unless specifically called out as a separate work item on the plans.

Sidewalk score lines shall have a minimum finished depth of 1/2-inch. Walkway replacement needed to join new sidewalk shall be in-kind (surface texture, aggregate, finish, etc.) to the walkway removed or as directed by the Engineer's representative.

A sidewalk 1/2-inch radius edging tool is to be used to finish the edges of all curbs.

Limited infill and compaction of suitable base material will be required under certain portions of sidewalk. Contractor shall include the cost of material, labor and compaction of such material in the unit price per bid.

The contractor shall verify existing grades in order to ensure full ADA compliance

Any appurtenant PCC Improvement constructed as part of this project and not included with a unit price bid quote or otherwise covered for payment herein shall be paid at the unit price for Sidewalk per square foot prorated to reflect the true amount of PCC material being constructed, as approved by the Engineer's Representative. The prorated unit price bid for the appurtenant PCC improvement shall include all costs of subgrade preparation, and the excavation, furnishing and compacting of backfill material and no additional compensation will be allowed therefore.

**Measurement & Payment for Construct Sidewalk** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal and disposal of existing improvements and materials, construction of new sidewalk including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, construction of work item, adjustment of miscellaneous parkway items found within the limits of construction, finishing and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any planter areas, and shall only include the actual PCC surface area as measured in the plan view.

**3" UNIFORM DEPTH COLD MILL (INCLUDES FABRIC REMOVAL & DESPOSAL**  
**- BID ITEMS # A-14, B-8, C-9:**

**A. GENERAL**

Subsection 302-1.1, "Cold Milling Asphalt Concrete Pavement," of the Standard Specifications is supplemented by the following:

Cold milling shall be a variable or constant depth cut for the various widths of cold millings called for on the plans. Variable depth and uniform depth cold milling shall be included under the same bid item based on the depth noted in the bid item.

All cold milling shall conform to the details shown on the plans and these Special Provisions. All temporary striping required after cold milling operations shall be installed per City Standards. All required temporary striping shall be considered paid for under the bid item for Traffic Control. No additional compensation will be allowed.

The Contractor shall be responsible for furnishing, placing and maintaining barricades and lights as necessary to protect the public from danger due to the work being done. The machine used for cold planning shall have performed satisfactorily on similar work and meet the following requirements:

The Planing Machine shall be specially designed and built to perform cold planning of bituminous pavement with the ability to plane concrete patches. The cutting drum shall be a minimum of sixty (60") inches wide with carbide tip cutting placed in variable lacing patterns to provide various finishes. The machine shall be capable of operation at speeds ranging from 0 to 40 FPM. It shall be self-propelled and have a water spray at the cutting drum to minimize dust. The machine shall be capable of removing the material next to the gutter of the pavement being reconditioned and so designed and the operator thereof can at all times observe the planning operation without leaving the controls. The cutting drum shall be adjustable as to slope and shall deep cut in one pass a maximum of three (3") inches without producing fumes or smoke.

Ski arms to improve smoothness of grinding operations are required with a minimum 15 foot long arm.

The Contractor shall provide a smaller machine to trim areas inaccessible to the larger machine at manholes, curb returns and intersections. The smaller machine shall be equipped with a twelve (12") inch wide cutting drum mounted upon a three (3) wheel chassis allowing it to be positioned without interrupting traffic and pedestrian flow.

During the operation the Contractor shall sweep the street with mechanical equipment and remove all loose material from planed areas. In addition, all existing asphalt/slurry buildup on the

concrete gutter shall be removed and the cost thereof shall be included in the unit price of cold planing cost, no additional compensations shall be paid. The Contractor shall abate dust nuisance by cleaning, sweeping and sprinkling with water or other means as necessary.

Residue from grinding shall not be permitted to flow or travel into gutters, onto adjacent street surfaces or parkways. All residues shall be completely removed by a vacuum sweeper and properly disposed. Sweeping is to take place immediately after the grinding has been completed and as directed by the Engineer. No washing of any residue into gutters and/or drainage structures shall be allowed. The Contractor shall cover and protect all storm drain inlets prior to the start of cold milling operations.

All pavement transitions and temporary striping/markings shall be in place prior to the opening of a lane for traffic. Any pavement grade differential between adjacent lanes that will, with the permission of the Engineer, remain during non-working hours shall be indicated with the appropriate warning signage.

Cold mix A.C. shall be placed and maintained at the interface between milled and non-milled areas to eliminate the hazard caused by sudden elevation differences, especially in pedestrian path of travel areas adjacent to wheelchair ramps, and shall be removed prior to placement of surface course pavement.

The Contractor shall provide access and detours at all times for pedestrian facilities when cold milling.

The Contractor is to notify the Engineer at least two (2) working days prior to and immediately after the cold mill operations so that observations and measurements may be made of areas before the placement of permanent asphalt.

Existing pavement thicknesses, as measured by the City's geotechnical investigation, have been provided on the plans and in these specifications for reference purposes only. It shall be the contractor's responsibility to verify the existing pavement thickness and to adjust field operations accordingly in order to properly construct the proposed improvements.

## **B. PHASING REQUIREMENTS**

Cold milling shall not be performed more than the allowed days ahead of surface course paving, as outlined below:

Grand Avenue:

- Final paving shall occur within 3 working days of the cold milling operations

9<sup>th</sup> Street:

- Final paving shall occur within 3 working days of the cold milling operations

Franklin Avenue:

- Final paving shall occur within 3 working days of the cold milling operations

Lexington Avenue:

- Final paving shall occur within 3 working days of the cold milling operations

## **C. CRACK SEAL & WEED ABATE**

Also included under this bid item will be the weed abatement and crack sealing of the milled asphalt pavement surface. After the milling operations and prior to placing the asphalt surface course, all cracks greater than or equal to ¼ inch in width shall be routed and cleaned of existing vegetation via use of high pressure air, sprayed with soil sterilant and filled with crack filler. The pavement surface should be warm, dry and free of any dust, dirt and deleterious material before applying the crack sealant.

In areas where an asphalt concrete leveling course is specified, existing cracks or holes 1/4 inch or larger shall be cleaned of all debris and vegetation. Filling of these cracks and holes shall be accomplished by constructing the leveling course as specified elsewhere herein.

In areas where an asphalt concrete leveling course is not specified, existing cracks or holes, 1/4 inch or larger, shall be cleaned and filled or repaired with liquid asphalt, cold mix, hot mix or as directed by the Engineer. Existing cracks smaller than 1/4 inch shall be cleaned of vegetation only.

Cleaning of cracks or holes shall be by power brooming, compressed air or other approved methods.

Crack preparation, sealing, and weed abatement will be included in the various items of work, and no additional compensation will be allowed therefore.

#### **D. MEASUREMENT & PAYMENT**

**Measurement & Payment for 3" Uniform Depth Cold Mill (Includes Fabric Removal & Disposal)** shall be 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 to depths shown on the plans. The price of this item shall include milling the pavement to be removed, the disposal and hauling of material removed, including pavement fabric (as applies), cleaning and filing 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 re-compaction 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.

#### **SAWCUT & REMOVE EXISTING PAVEMENT/ BASE & CONSTRUCT FULL DEPTH AC- BID ITEMS # A-15, B-9, C-10:**

All asphalt dig out and replacement areas Full Depth, shall occur after the full width pavement grind and before the full width roadway paving operations. The inspector and Engineer are to field verify each asphalt dig out location. All asphalt dig out areas are to be field marked by the inspector and approved by the engineer.

**The patching locations shown on the plan are representational and budgetary. The limits, locations and quantities of the patching will vary based on the actual field conditions encountered upon exposing the underlying pavement surface. Contractor shall notify the Engineer a minimum of one full working day prior to Contractor initiating the pavement removal operations in order to assess the underlying pavement surface condition during the removal operations and issue final roadway patching limits and locations for the exposed roadway segment.**

Upon identification of the dig out locations, the contractor shall be responsible for grinding or excavating the existing pavement/base to the depths noted. Upon exposing the subgrade/underlying pavement, the subgrade shall be probed to verify adequacy of the existing base/subgrade. If unstable soils are encountered, additional removals will be directed by the engineer. Additional quantities of export and asphalt concrete observed from the removals shall be paid for at the contract unit price and no additional compensation will be allowed.

The contractor shall not be allowed to excavate more patches than can be paved back in a single day's operation. All patches shall be paved back by the end of each day, and all lanes shall be open to traffic.

All asphalt concrete for patching locations shall be B2-PG 64-10.

Unclassified excavation shall include subgrade preparation and the removal and disposal of the existing roadways to the required subgrade, including asphalt concrete, aggregate base, Portland cement concrete (reinforced or not); cement/lime treated material; macadam; slurry backfill; petromat/pavement reinforcing fabric; or other materials which may be encountered within the proposed roadway structural sections. **No additional compensation will be allowed for removal or disposal of any petromat/pavement reinforcing fabric or other materials, which may require special handling or disposal.**

**Measurement & Payment for Sawcut & Remove Existing Pavement/Base & Construct Full Depth AC** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the excavation or cold milling of the existing asphalt concrete pavement, aggregate base and sub-base to depths shown on the plans. The price of this item shall include excavating the asphalt concrete pavement, aggregate base and subgrade to be removed, the disposal and hauling of material removed as described herein, removal of fabric/rubberized asphalt/petro-mat if it exists in the field at no additional cost, all debris, traffic controls as described herein, scarification and re-compaction of exposed base/sub-grade in areas where entire pavement section is removed, removal of unsuitable sub-grade 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.

**INSTALL 1.5" ARHM-GG-C OVERLAY AND INSTALL 1.5" AC LEVELING COURSE –  
BID ITEMS # A-16, A-17, B-10, B-11, C-11, C-12:**

**A. REMOVALIZATION AND DEMOBILIZATION**

All street to street removalizations and demobilization work shall be included in the bid items in this section and no additional payment will be allowed.

**B. TACK COAT**

Section 302-5.4 "Tack Coat" of the Standard Specifications are supplemented by the following:

A tack coat shall be applied uniformly upon the existing pavement planes and joints, gutters, inlets, manholes, etc. prior to placing the asphalt concrete. The tack coat shall be SS-1h emulsified asphalt per Section 203-3. The surface to be covered shall be free of water, foreign material, vegetation or dust before application of the tack coat.

The area to which tack coat has been applied shall be closed to public traffic. Care shall be taken to avoid tracking tack material onto existing pavement surfaces beyond the limits of construction. Existing striping and pavement markings which have been tacked with tack coat shall be repainted at the Contractor's expense. Certain driveways which are heavily used during hours of construction as determined by the Engineer, shall remain open as long as possible, and tack shall be applied to areas along said driveways as soon as possible before the asphalt is placed, or the Contractor may provide some means of protecting the tack coat while traffic passes over it. The means of protection shall be utilized only after approval by the Engineer.

The Contractor shall clean existing concrete and asphalt surfaces of any tack coat tracked onto them, to the satisfaction of the Engineer.

A tack coat **shall** be applied between each course of paving regardless of when the previous course of asphalt was laid. The contractor shall not be allowed to omit the tack coat for any circumstance unless approved by the Engineer.

### **C. PAVING ASPHALT**

Paving asphalt to be used in Asphalt Concrete shall be PG64-10,

Paving asphalt to be used in ARHM shall be PG64-16 per table 203-1.2(A) in the SSPWC.

### **D. ASPHALT CONCRETE PAVEMENT**

Section 302-5, "Asphalt Concrete Pavement," of the Standard Specifications is supplemented by the following:

Existing pavement markers shall be removed flush with the existing pavement prior to constructing asphalt concrete pavement.

The asphalt concrete base course shall be Class C2-PG64-10, as directed on the Plans.

The asphalt concrete surface course, where not specified as ARHM, shall be Class C2-PG64-10, as directed on the Plans.

Where asphalt concrete pavement is designated to be constructed on existing aggregate base, the existing base shall be compacted and graded in accordance with Subsection 301-2.3, "Compacting," of the Standard Specifications.

The asphalt concrete pavement shall be spread with a self-propelled mechanical spreading and finishing machine.

The Contractor shall have sufficient workers and equipment necessary to accomplish proper placement and compaction of the asphalt concrete pavement to the satisfaction of the Engineer.

Ski arms to improve smoothness of paving operations are required on all paved streets with a 30 foot minimum length arm for paving.

### **E. ASPHALT RUBBER HOT MIX (ARHM)**

Asphalt rubber pavement shall conform to the requirements of the Standard Specifications Section 203-11, "Asphalt Rubber Hot Mix (ARHM) Wet Process."



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.

Asphalt Rubber Hot Mix shall be ARHM-GG-C, gap-graded as shown on the plans.

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.

All surfaces to be overlaid shall be cleaned by the use of a broom and a vacuum sweeper. The overlaid surface shall be free of water, dust, or foreign material before tack coat is applied. All raised pavement markers shall be removed prior to the placement of any asphalt concrete overlay. Removal of all AC slurry seal residue from gutter edge should be completed prior to paving.

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.

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 ARBM-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.

Ski arms to improve smoothness of paving operations are required on all paved streets with a 30 foot minimum length arm for paving.

#### **F. ROCK DUST BLOTTER**

Rock dust blotter material shall be required immediately after the completion of the "finish rolling" and prior to opening to traffic to prevent bleeding and tracking of the asphalt rubber material.

All excess rock dust blotter shall be removed from the street at the end of each workday. The removal of the rock dust blotter shall include removal from adjacent streets as needed. No excess rock dust blotter shall be left on any street after normal work hours. The cost of this application will be included into the contract unit price bid for ARHM.

#### **G. MEASUREMENT & PAYMENT**

**Measurement & Payment for Install 1.5" ARHM-GG-C Overlay and Install 1.5" AC Leveling Course** shall be on a **Per Ton (TON)** basis and shall be measured by tallying the total material delivered to the site per certified material tickets and subtracting any spoil/un-qualified asphalt from the total figures as agreed to in the field based on the day's operations. This work item shall include furnishing all labor, equipment, tools and materials necessary for the surface preparation, certified weigh tickets, and incidentals and for doing all the work involved, including furnishing, applying and cleaning up excess rock dust blotter, application of tack coat to all exposed surfaces, paving of the asphalt concrete/ARHM, protection of the paved surface, traffic control and all incidentals for doing the work involved in asphalt concrete paving as defined in Section 302-5, and no further compensation will be allowed therefore. Asphalt concrete used for slot paving, temporary asphalt ramping, and any other source other than the pavement overlay/base paving locations shall not be included in this bid item.

**ADJUST MONUMENT FRAME & COVER – BID ITEMS # A-18, B-12:**

All monument frame and covers encountered during construction shall be protected in place and adjusted to grade per the plan requirements.

The protection, documentation and filing of the required corner records for the centerline tie or monument held within the monument well shall be paid for as part of the monument preservation bid item.

**Measurement & Payment for Adjust Monument Well Frame & Cover to Grade** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the adjustment of monument frame and cover as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

**ADJUST MANHOLE FRAME AND COVER – BID ITEMS # A-19, B-13, C-13:**

Contractor shall be responsible for adjusting manhole covers during the paving operation to finished grade as shown on the plans, and as directed by the Engineer. Manhole adjustments shall be in accordance with 301-1.6 and 302-5.8 of the SSPWC and the finished grade of the manhole and all associated paving around the manhole shall be flush with the finished surface within a 3/8” tolerance.

The Contractor shall be required to adjust any manhole found not in conformance with these requirements, as determined by the Engineer, at their sole expense.

Manhole adjustments shall be in compliance per City of Pomona Standard Plan B-14-68, unless otherwise noted.

Adjustment of storm drain and sewer manholes as well as sewer cleanouts shall be included under this bid item.

All storm drain manholes shall be initially lowered to be below the anticipated pavement grinding and pavement removal elevations prior to pavement grinding & paving. Immediately upon completion of the paving operations, the Contractor shall then adjust all manhole covers to grade per these specifications and the project plans. This shall constitute double adjustment.

**Measurement & Payment for Adjust Manhole Frame & Cover to Grade (Double Adjust)** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the lowering and re-adjustment of manholes (double adjustment included) to grade as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

**ADJUST WATER VALVE FRAME AND COVER TO GRADE – BID ITEMS # A-20, B-14, C-14:**

Existing water valve and blow off can and lids shall be adjusted to grade by the Contractor, including all necessary preparation work, during each phase of construction and paving. The valve boxes and blow-off lids shall not be buried or otherwise rendered inaccessible at any time and the valves shall be maintained readily accessible for shut-off at all times.

Details of adjusting water valve boxes and blow-off lids for typical conditions anticipated to be encountered in the Work are shown on the City of Pomona Standard Plan, Water Std. #6. All valve adjustments shall also be done in accordance with the City of Pomona Water Division Standard Specifications included in appendix A. No guarantee is made and none shall be implied that these details cover all conditions that may exist within the Work site. The unit price bid per each shall be considered as full compensation for preparing and adjusting the valve boxes and blow-off lids, including their covers.

Included as part of the water valve can and lid adjustments will be the re-painting of all valve covers with paint. Surfaces of valve covers shall be primed or spot primed as required. Prime coat shall be for a 100 g/l VOC region (South Coast) Rust-Oleum No. 255617 (2mils) or approved equal. First coat and second coat (finish topcoat) shall be Rust-Oleum No. 261959 in CV7400 line (2mils). Total thickness of the completed coating system shall be 6 mils. Color shall be "Safety Blue" or approved equal for valve covers located on potable water lines. Color shall be "Safety Purple" for valves located on non-potable water lines. Paint color and type shall be submitted and approved by the City prior to its use.

**Measurement & Payment for Adjust Water Valve Frame & Cover to Grade** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the adjustment and re-painting of valve can and lids as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

#### **REMOVE, REPLACE, AND ADJUST WATER METER BOX – BID ITEM # A-21:**

Existing Pomona water meter boxes shall be adjusted to final grade by the Contractor, including all necessary preparation work during each phase of construction. The meter boxes shall not be rendered inaccessible at any time and shall be maintained readily accessible for shut-off at all times. All new meter boxes shall be provided by the Contractor.

Variable sizes and types of existing meter boxes were observed throughout the project limits. It shall be the contractors responsibility to adjust the meter boxes in kind and size at no additional cost to the City based on existing conditions. All new meter boxes shall be per City of Pomona Water Std. #11 & #12.

**Measurement & Payment for Remove, Replace, and Adjust Existing Water Meter Box to Grade** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including water meter relocations, cutting and installing new pipe, coordination with the Pomona water department, purchasing, delivery and installation of existing or new meter boxes, disposal and hauling of existing boxes and adjustment to final grade, as indicated on the plans and as directed by the Engineer. The price of this item shall also include any incidentals for doing the work involved in constructing the meter valve box. No further compensation will be allowed therefore.

#### **TRAFFIC LOOP DETECTORS – BID ITEMS # A-22, A-23, B-15, B-16, C-15, C-16:**

Subsection 302-1.9, "Traffic Signal Loop Detectors," of the Standard Specifications is deleted. Loop detectors shall be replaced, as shown on the Plans, and as directed by the Engineer.

Loop detectors shall conform to the provisions in Section 86, "Signals and Lighting," of the State Standard Specifications, State Standard Plans No. ES-5A and ES-5B, and these Special Provisions.

The Work to be done hereunder consists of furnishing and installing loop detectors at the locations shown on the Plans and where destroyed during cold milling or other removal operations. The Contractor shall replace the same number of detectors as are destroyed.

Loop wires shall be State Type 1. The Contractor shall install loops and lead-in wire prior to surface course construction, and shall install loops 4 inches below finished pavement grade. The Contractor shall install 4 turns of wire in each advance loop. For forward loops, route the lead-in cables directly forward to the crosswalk or stop bar, then route in the cross walk or parallel to the stop bar to the curb.

The Contractor shall wire the loops in series, alternating clockwise to counter-clockwise.

**Measurement & Payment for Install Type E Traffic loop and Install Type D Traffic Loop** shall be on an **Each Item (EA)** basis and shall include all materials, labor, and equipment necessary to perform all operations to remove and install traffic loops through the project site during construction, in the areas shown on the Plans, and as directed by the Engineer. Replacement loops shall be as specified in Caltrans Standard Specifications Section 86-5.01A, and as stated herein. Contractor shall coordinate with the Engineer for final placement of loops. Any traffic loops that are damaged during construction, outside the areas shown on the exhibits or shown as protect in-place shall be fully replaced at the Contractors expense and to the satisfaction of the Engineer. No further compensation will be allowed therefore.

**SIGNING, STRIPING, & PAVEMENT MARKING – BID ITEMS # A-24, B-17, C-17:**

All existing thermoplastic shall be removed prior to cold milling of the asphalt concrete and shall be disposed of at a hazardous waste facility by the Contractor. Proof of proper disposal will be required to be submitted to the City prior to payment authorization.

**A. PERMANENT ROADWAY SIGNING:**

Signs shall conform to the provisions in Section 56, "Signs," of the State Standard Specifications, the State Specifications for Reflective Sheeting on Aluminum Signs, the State Specifications for Aluminum Single-Sheet and Laminated-Panel Signs and these Special Provisions. All signs shall have 3M 1160 (or approved equal) anti-graffiti film.

The Work to be done hereunder consists of furnishing and installing signs, sign posts, re-posting existing signs, and replacing existing sidewalks where removed for sign post installation.

The signs to be re-posted shall be relocated as shown on the Plans or at locations approved by the Engineer. Any post damaged shall be replaced by the Contractor at its sole expense.

**B. PAVEMENT MARKERS, MARKINGS, AND TRAFFIC STRIPING:**

Section 214, "Pavement Marker," Subsection 310-5.6, "Painting Traffic Striping, Pavement Markings, and Curb Marking," and Section 312, "Pavement Marker Placement and Removal," of the Standard Specifications are supplemented by the following:

The Contractor shall restripe existing striping and curb markings obliterated by new construction, whether or not shown on the Plans for replacement.

The Contractor shall remove markers, markings, and striping where necessary to adjust the configuration of existing striping to new striping. The Contractor shall remove markers flush with

existing pavement. The Contractor shall remove markings and striping by wet sandblasting or light grinding, as approved by the Engineer.

All striping and markings shall be alkylid thermoplastic, 1.5 mm to 2.5 mm thick in conformance with State Specification 84-2, except for Bike Lane striping, as shown on the Plans and as directed by the City Traffic Engineer. Bike lane striping will be completed with paint in conformance with State Specification 84-3, as shown on the Plans and as directed by the City Traffic Engineer. Permanent striping to be installed at least 10 days after the final asphalt lift has been placed.

At locations where existing painted curb is to be reconstructed, the Contractor shall paint the new curb as directed by the Engineer within 10 working days after completing curb reconstruction. The paint shall be water-based with a 2-year guarantee against color fading. Prior to the start of construction, the Contractor shall submit to the City written proof of the manufacturer's 2-year guarantee.

The Contractor shall re-paint all existing painted curb in kind, regardless of whether shown on the plans or not. The locations for curb repainting shown on the plans are representational and may not reflect the full extent of the curb paint markings.

The Contractor shall furnish to the Engineer samples of materials not less than 3 weeks in advance of the date the materials are to be applied.

The Contractor shall notify the Engineer after completing layout/cat-tracking and at least 3 working days before commencing installation of striping, markings and markers for review and approval of the striping layout.

The Contractor shall include pavement markers for all striping and shall install markers, striping and markings in accordance with the Plans and the details shown in the Caltrans Standard Plans.

The Contractor shall install a Type I pavement marker at all fire hydrant locations.

### **C. MEASUREMENT & PAYMENT:**

**Measurement & Payment for Signing, Striping, & Pavement Marking** shall be on a **Lump Sum (LS)** basis and shall include furnishing all labor, equipment and materials necessary for signing and striping, including but not limited to the removal of existing thermoplastic and/or striping and pavement markers by approved methods, installation of raised pavement markers, thermoplastic/paint legends and striping, painting new curb to match existing, re-painting all existing curb paint markings, delineators, signs and signposts in the public right of way and private property. This work shall conform to the SSPWC, Sections 210 and 310 and no further compensation will be allowed therefore.

### **PERFORATE THROUGH BOTTOM OF CATCH BASIN – BID ITEM # C-18:**

Perforate through bottom of Catch Basins in 5/8" diameter at 5" grid pattern at the locations listed below:

- North East Corner of 9<sup>th</sup> Street at Towne Avenue (1 EA)
- North East Corner of Franklin Avenue at Towne Ave (1 EA)
- South East Corner of Franklin Avenue at Towne Ave (2 EA)

- North East Corner of Lexington Avenue at Towne Ave (1 EA)
- South East Corner of Lexington Avenue at Towne Ave (2 EA)
- North East Corner of Lexington Avenue at San Antonio Ave (1 EA)
- South East Corner of Lexington Avenue at San Antonio Ave (1 EA)
- North East Corner of Grand Avenue at Hamilton Boulevard (1 EA)
- South East Corner of Grand Avenue at Hamilton Boulevard (1 EA)

**Measurement & Payment for Perforate Through Bottom of Catch Basins** shall be on an **Each Item (EA)** basis and shall include all materials, labor, and equipment necessary to perform all operations to Perforate through bottom of Catch Basins through the project site during construction, in the areas listed above, and as directed by the Engineer. Contractor shall coordinate with the Engineer for final perforation of Catch Basins. Any Catch Basins that are damaged during construction, outside the areas listed above shall be protected in-place and shall be fully replaced at the Contractors expense and to the satisfaction of the Engineer. No further compensation will be allowed therefore.

# City of Pomona

## STREET IMPROVEMENTS - CITYWIDE (CDBG) (FY 2015-16/2017-18), PROJECT NO. 428-64807 Technical Provisions

### MOBILIZATION (BID PRICE SHALL BE 2% OF THE TOTAL BID) - BID ITEMS #A-1, B-1, C-1:

#### A. GENERAL

Mobilization shall consist of all conditional notice to proceed work, securing all permits/approvals and licenses, paying all fees, preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all other work and operations which must be performed or cost incurred without other pay items on the various contract items on the project site. The following items of work shall be included in the lump sum bid for Mobilization, Clearing and Grubbing, and no additional compensation will be allowed:

1. Mobilization.
2. Clearing and Grubbing, general excavation, earthwork, and grading not included specifically in any other bid items.
3. Sawcut and removal of existing pavement and base material, not included specifically in any other bid items.
4. Sawcut and removal of existing PCC improvements (concrete curb, gutter, sidewalk, ramps, etc.).
5. Protection of existing improvements in place.
6. Punchlist
7. Notifications and Public Outreach

Re-mobilizations from street to street and as needed in all other circumstances by the Contractor's operations, work sequencing, revised work sequencing, scheduling, revised schedules and for all work shall be included in various other pay items. No separate payment or change orders will be allowed for any re-mobilizations related to additive alternate work shall be included in the additive alternate work pay items.

Mobilization shall also include all costs required by the contract and not specifically included in a pay item.

#### B. PROJECT COORDINATION

The Contractor shall be required to initiate and maintain project coordination with affected stakeholders, residents, schools, police & fire departments, solid waste collection department, utility agencies, transportation agencies and businesses throughout the course of this project.

The Contractor shall coordinate with all transit agencies regarding affected transit routes a minimum of 4 weeks in advance of any impact to the route. Known transportation agencies within the project limits are:

- Foothill Transit,
- Metro,
- Omni Trans and
- Pomona Transportation Authority

The contractor shall coordinate with each agency to determine necessary accommodations for the bus stops during the course of the project. Coordination may involve field meetings to discuss the safe passage of pedestrians, the limits where work zone will be, recommend phasing of work in a sequence to cause as little impact and/or the closure of the bus stops.

Attention to business coordination shall also be included under the contractor's responsibilities.

As part of the contractors project coordination efforts, a minimum of two project specific notices shall be prepared and distributed to all residences and businesses within the project limits, or whose properties lie on dead end/cul-de-sac streets that intersect with one of the project segments. Separate notices shall be prepared for each roadway segment. The minimum required notices are:

- **Project Information Notice (to be distributed one week (7 calendar days) prior to the start of construction)** which includes:
  - General project limits (street specific) & scope of work
  - Construction timeframe & duration
  - Contractor contact name and number for access needs and project questions
  - **All notices shall be in English and Spanish**
- **Slurry/Fog Seal or Grinding and Paving Notice** (to be distributed 5 working days prior to start of grinding/paving operations) which includes:
  - Description of type of work
  - Specific Dates of grinding & paving impacts
  - Parking limitations
  - Special Instructions (Trash, Access, Etc.)
  - Contractor contact name and number for access needs and questions.

The cost for project coordination and notification shall be included in various work items and no additional compensation will be allowed therefore.

#### **C. CITY OF POMONA COORDINATION**

The Contractor shall be responsible for coordinating with the City of Pomona to obtain the necessary encroachment permits and approvals for the work which will affect traffic signal and vehicular operations. All permitting, coordination, and other hours required to obtain approval and maintain correspondence with the City of Pomona shall be included in this bit item.

#### **D. CONDITIONAL NOTICE TO PROCEED**

Prior to the issuance of the Notice to Proceed, the City will issue a Conditional Notice to Proceed for the items listed in the general provisions of these specification. Upon issuance of the Conditional



Notice to Proceed, the Contractor shall also be allowed to pothole existing facilities to verify pavement depths and take the necessary pavement cores for the cold central plant recycling testing and design. Working days will not be charged to the contract during this period until the issuance of the full Notice to Proceed and agreement of the construction start date.

#### **E. NOTIFICATION AND PUBLIC OUTREACH**

The contractor shall keep the access open to all Pomona Unified Schools and including all other Business offices along project limits, the LA County Fire Department and Pomona Police Department at all times and coordinate his construction efforts with these entities and the City of Pomona.

A notice shall be prepared summarizing extraordinary impacts to specific residences and those stakeholders mentioned as required by the City Engineer. Full compensation for complying with the work contained in this section shall be included in this bid item and no additional compensation will be allowed therefore. Due to the schools on 9<sup>th</sup> Street, Franklin Avenue, and Grand Avenue, all work, within those impacted streets, paving operations within the school block shall be started and completed during the school's winter break during the December 18 through the 29<sup>th</sup> 2017 or outside these dates during the hours of 9 AM to 1 PM and 4 PM to 7 PM should inclement weather occur.

#### **F. MEASUREMENT & PAYMENT**

**Measurement & Payment for Mobilization (Bid Price Shall be 2% of the Total Base Bid)** shall be on a **lump sum (LS)** basis as defined in Section 9-3.4 of the standard specifications, including but not limited to all activities, equipment, supplies, materials, transportation, facilities, and cleanup, and the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all other work and operations of the Contractor's forces which must be performed or cost incurred, without other pay items on the various contract items on the project site under the Contract. Payment shall be made as the work proceeds and shall constitute full compensation for the completion of the work. The total price for Mobilization shall be 2% of the total contract amount. No further compensation will be allowed separately from bid items.

#### **MONUMENT PRESERVATION – BID ITEMS #A-2, B-2, C-2:**

Prior to any construction activities, all monuments, centerline ties, and any other survey markers within the project limits shall be located and recorded by a State of California Licensed Land Surveyor. No work will be authorized until the Contractor submits the required documentation to the City. Upon completion of construction, conflicting monuments, centerline ties, and other survey markers obliterated during construction shall be replaced in-kind per section 309 of the SSPWC and per the California Professional Land Surveyor's Act, latest edition. Corner records for all applicable intersections shall be filed with the County of Los Angeles prior to and after construction activities with copies of recordings provided to the City. All work involved shall conform to the California Professional Land Surveyor's Act, latest edition.

**Measurement & Payment for Monument Preservation** shall be on a **lump sum (LS)** basis for all work involved with impacted monuments, centerline ties and survey markers due to all construction activity and shall include furnishing all materials, labor, and equipment necessary to perform all operations involved with resetting obliterated monuments, centerline ties, and other survey markers. Work shall also include all work involved with filing corner records prior to and after construction in conformance with the California Professional Land Surveyor's Act, latest edition and County of Los Angeles requirements, and

providing documentation of same to the City.

**NPDES/WATER POLLUTION CONTROL – BID ITEMS #A-3, B-3, C-3:**

**A. GENERAL**

The Contractor shall conform to the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities, NPDES General Permit No.CAS000002 (Order No. 2009-0009-DWQ), the Waste Discharge Requirements for the County of Los Angeles and the Regional Water Quality Control Board for the Los Angeles Region. The Contractor shall confirm that all of the Best Management Practices (BMP's) have been adequately detailed and addresses his or her anticipated construction operations and meets the intent of the NPDES requirements.

The Contractor shall utilize Best Management Practices (BMP's) during construction to ensure that sediment from storm runoff and construction activities does not enter storm drains. Some of the primary Water Pollution Control measures anticipated for this project include, but are not limited to, covering all storm drains inlets in the project vicinity with water permeable fabric and gravel bags prior to performing any AC grinding, removal or paving operations; properly fueling and cleaning all equipment/vehicles; maintaining an ample supply of gravel/sand bags on-hand when excavating new PCC sidewalk/ramp/curb/gutter improvements in the event of rain; properly containing all PCC treatment materials such as the coloring agents, exposed aggregate etching chemicals and surface treatment chemicals required to install the detectable warning mats; properly covering all incoming material trucks and all out going debris hauling vehicles; providing restroom facilities for workers; and regular street sweeping of the work area and haul routes to the satisfaction of the City of Pomona. The requirements of all of the following agencies shall be met and maintained and where there is a conflict between requirements, the most stringent requirement shall govern.

1. Regional Water Quality Control Board Los Angeles Region
2. County of Los Angeles
3. City of Pomona & NPDES General Permit Requirements (No. CAS000002 and Order No. 2009-0009-DWQ) including BMP's

**B. BEST MANAGEMENT PRACTICES**

The Contractor shall submit a Best Management Practice (BMP) plan for containing any wastewater or storm water runoff from the project site including, but not limited to the following:

1. No placement of construction materials where they could enter storm drain system, which includes gutters that lead to catch basins.
2. Checking construction vehicles for leaking fluids.
3. Providing a controlled area for cleaning or rinse-down activities.
4. Monitoring construction activities.
5. Minimizing usage of water when saw-cutting and vacuum the residue.
6. Providing measures to capture or vacuum-up water contaminated with construction debris.
7. Removing any construction related debris on a daily basis.
8. Protecting work areas from erosion.

The BMP will be approved by the Engineer prior to any work. The City of Pomona will monitor the adjacent storm drains and streets for compliance. Failure of the Contractor to follow BMP plan will result in immediate cleanup by City and back-charging the Contractor for all costs plus 15 percent.

It is assumed that the Contractor will apply for the “Small Construction Rainfall Erosivity Waiver” as defined in the General Permit. Filing of the waiver does not relieve the Contractor of submitting BMP’s to be used on site during construction, nor does it relieve the Contractor from conforming to the storm water requirements of the State Water Resources Control Board. The Contractor shall complete the electronic Notice of Intent (NOI) and Sediment Risk form through the State Water Board’s SMARTS system, certifying that the construction activity will take place during a period when the value of the rainfall erosivity factor is less than five. In the event that a the Rainfall Erosivity Waiver is not granted by the State Water Resource Control Board, the Engineer shall be notified immediately.

**C. MEASUREMENT & PAYMENT**

**Measurement & Payment** for NPDES/Water Pollution Control shall be on a **lump sum (LS)** basis including but not limited to all activities, equipment, supplies, materials, cleanup, and incidentals for doing all the work including the preparation, implementation and maintenance of BMP’s on the construction site, preparation and filing for the NOI and “Small Construction Rainfall Erosivity Waiver” as specified herein and as described in the SSPWC, all NPDES related work and activities, and no further compensation will be allowed therefore.

**PROJECT SIGNS – BID ITEMS #A-4, B-4, C-4:**

The Contractor shall provide and install project signs. The sign shall be mounted onto a 4’X8’ plywood board, and supported by wood posts with bracing and skids as directed. The finish and lettering of the sign shall be as directed by the City.

The Contractor shall erect the sign using the attached City specifications install at locations designated by the Engineer. The erection of the signs shall be designed to be stable when subjected to high wind gusts. The Contractor shall maintain the sign for graffiti and shall provide a new sign if the graffiti or other event which damages the sign cannot be repaired. The Contractor may apply an anti-graffiti coating or cover the sign with clear Plexiglas as an alternative. The conditions for sign maintenance would remain the same; resulting in sign-replacement or Plexiglas replacement. At the end of construction the Contractor shall be responsible for removal and return to the City.

The signs shall incorporate the required information as shown in the attached plan provided by the City (Appendix B). The Contractor shall submit a draft copy of the Project Sign and Grant Sign to the Engineer for approval before fabrication.

**Measurement & Payment** for **Project Signs** shall on a **per each (EA)** basis for the approval, production, fabrication, installation, maintenance, and, upon completion of the project, the removal of project signs, restoration of impacts, and shall include all materials, labor, equipment, and performing all operations necessary for project signage, as directed by the Engineer. No additional payment will be made therefore.

**TRAFFIC CONTROL– BID ITEMS #A-5, B-5, C-5:**

**A. GENERAL REQUIREMENTS:**

It shall be the Contractor's responsibility to furnish detailed Traffic Detour and Control Plans for CITY approval. Traffic Detour and Control plans shall be prepared by a California registered Civil or Traffic Engineer and submitted for plan checking prior to the start of construction.

Said plan shall identify construction phasing, which shall not disrupt existing traffic circulation patterns. Delineation shall be in accordance with the latest version of the California Manual on Uniform Traffic Control Devices as approved by the City Traffic Engineer. No street closures shall be proposed or made without the prior approval of the ENGINEER and other agencies involved.

All work shall conform to the SSPWC and the "California Manual on Uniform Traffic Control Devices" (CA-MUTCD). Unless otherwise specified, this item shall include full compensation for street closures, detours, grading, restoration, signs, flagmen, barricades, flashers, temporary striping, removal and replacement of miscellaneous signs, fences and all appurtenances related to providing traffic control for the project.

No street or access closure to through traffic will be allowed to be proposed or implemented without the approval of the ENGINEER.

Electronic message signs (EMS) shall be provided on each roadway segment per section 7-10.1. A minimum of three EMS shall be in place one week prior to any roadway operation that will have impact on the street. EMS shall remain in place until the work is completed on the roadway segment. It shall be the contractor's responsibility to maintain, update and move the EMS as required and directed by the City.

The Contractor shall provide advance electronic message signs (EMS) for road closures requiring detours and for lane closures at appropriate locations prior to entering the detour or lane closure area in each affected direction. These signs are in addition to the advance notification EMSs discussed in the supplemental provision (Section 7-10.1).

Traffic control also includes all additional materials, equipment and labor to construct driveways one-half (1/2) at a time.

Steel plate covers shall be installed over all open trenches at the close of construction each day so that a minimum of one (1) travel lane in each direction can be maintained during non-construction hours. Recess (flush) installation of steel plates is required on all asphalt streets and ramping (1v:24h) with asphalt is required on all concrete streets.

Specialized traffic control will be required for this project, requirements are described in Section 7-10.

"No Parking" signs must be posted a minimum of 48 hours in advance, but not more than 72 hours prior to the period needing enforcement. Tow-away, No Parking signs must include:

BY ORDER OF THE POLICE DEPT, C.V.C. 22651 (L) / 22658 (A)

All necessary temporary striping is included as part of the traffic control bid item.

## **B. PHASING REQUIREMENTS:**

### **General Traffic Control/Phasing Requirements:**

A minimum of one (1) travel lane of twelve (12) feet (minimum) in each direction shall be maintained on all paved streets within the construction zone at all times wherever possible. If one travel lane in each direction is not possible during construction, the Contractor shall follow the requirements stated in Section 7-10.1 which require flaggers and pilot cars for lane closures. Clearances from traffic lanes shall be five feet to the edge of any excavation and two feet to the face of any curb, pole, barricade, delineator, or other vertical obstruction. Access shall be provided to all intersecting local streets and driveways at all times. Utility adjustment and striping will be permitted during daylight hours. The

Contractor shall submit a plan detailing the delineation and protective measures to be undertaken for CITY and other agencies' approval.

**Holiday Phasing Requirements:**

The Contractor will not be allowed to excavate and leave open any parkway or roadway improvements over any weekend or holiday. The Contractor shall schedule and phase the work accordingly to ensure that all initiated work is completed before the start of any weekend or holiday.

**Street Specific Traffic Control/Phasing Requirements:**

Geneva Street: (From Owens Lane to Park Ave)

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

Owens Lane: (From Gabriel Street to Geneva Street)

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

Olive Street: (From Garey Avenue to Palomares Street)

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

Denison Street: (From Brea Canyon to Westmont Avenue)

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

**C. Measurement & Payment:**

**Measurement & Payment for Traffic Control** shall be on a **lump sum (LS)** basis and shall include compensation for all traffic control activities including but not limited to labor, materials, tools, equipment for temporary Asphalt Concrete, Cold and Hot Mix installation as well as the removal for all work involved in Traffic Control as specified, including preparation of Traffic Control Plans and obtaining CITY and other agencies plan review, approval and permits, install and maintain project signs, temporary construction signs, delineators, cones, flashing arrow signs, portable changeable message signs, street closures, detours, temporary striping, barricades, steel plates, one-half width at a time driveway construction, and other safety devices, as required for public safety in Section 7-10 "Public Convenience and Safety" of the Standard Specifications for Public Works Construction (SSPWC) and the Special Provisions or as directed by the Engineer. No separate payment will be made for traffic control, and no further compensation will be allowed therefore.

## **PUNCH LIST**

This item includes all labor, equipment and materials required to prepare, complete and restore all punch list items to the City's satisfaction. No partial payment will be allowed until all punch list items, restoration, clean up, demobilization, as-builts, operation and maintenance manuals/documents, and prevailing wage submittals are completed and provided to the City and accepted by the City Engineer.

Payment for punch list will be included in the various items of work and no additional payment will be made therefore.

## **CLEARING AND GRUBBING:**

Section 300-1, "Clearing and Grubbing," of the Standard Specifications is supplemented by the following:

Contractor shall field verify existing grades and shall accept site as is, for no other grading shall be performed by the CITY.

- 300-1.3 Removal and Disposal of Materials
- 300-1.3.1 General

All materials removed shall be disposed of in a legal manner at an appropriate Disposal Site.

- 300-1.3.2 Requirements

A. Bituminous Pavement

Saw cutting of edges to be joined is required.

D. Miscellaneous

In addition to the work outlined in Section 300-1.1 of the Standard Specifications, the following items of work are included under Clearing & Grubbing unless otherwise covered by specific bid item.

1. Maintaining dust control at all times by watering during the entire time of the project, whether extended or not, including developing a water supply and furnishing and placing all water for all work done in the contract, including water used for extra work.
2. Application of soil sterilant.
3. Protection of utilities, structures, improvements and other facilities within the construction zone, except those specifically shown on the plans to be removed or relocated.
4. Removal and disposal of existing natural and artificial objectionable material within the limits of construction.
5. Verification of existing locations and elevations as shown on the plans or directed by the ENGINEER.

6. Replacement of disturbed traffic signs, street names, mailboxes, property owner signs, fences, landscaping, protection of temporary construction fences and all appurtenances, striping and markings as required to the satisfaction of the ENGINEER. Also, includes the installation of safe pedestrian pathway by installing orange netting or other approved method of safely directing pedestrians through a protected path.
7. Provide for the replacement of trees and plants, of the same kind, to the satisfaction of the property owners whether indicated on the plans or not.
8. This item shall also be interpreted to include the removal or relocation of any additional items in conflict with the proposed work not specifically mentioned herein or covered by specific bid item as directed in the field by the Engineer, which maybe found within the work limits whether shown or not shown on the plans to be removed or relocated.
9. All surplus material three (3) inches or smaller shall be uniformly spread and compacted in the street sub grade. No material greater than three (3) inches in any dimension shall be used in the top twelve (12) inches of the sub grade. No nesting of rocks shall be allowed.
10. Unclassified fill shall consist of all fill unless separately designated. Construction of unclassified fill included preparing the area on which fill is to be placed, and the depositing, conditioning, and compaction of fill material.
11. Complete all demolition and removal work associated with the removal of AC, underlying PCC, PCC curb/gutter, as designated on the drawings for removal, unless otherwise defined.
12. Any structural or non-structural demolition work involved for the construction of the project and Contractor shall be responsible for disposing in a legal manner.
13. Determining and maintaining a straight edge in areas where AC joins existing edge of pavement.

Payment for items 1 through 13 as described above shall include full compensation in furnishing all labor, materials, tools and equipment as specified, including saw-cutting, loading, hauling, stockpiling and disposal, shall be included in the various items of work for which Clearing and Grubbing is required, as directed by the Engineer, and no additional payment will be allowed therefore.

**UNCLASSIFIED EXCAVATION:**

Section 300-2, "Unclassified Excavation," of the Standard Specifications is supplemented by the following:

Unclassified excavation shall also include salvaging clean excavated material, filling areas to the required grade and cross-section, compacting fill material, and subgrade preparation, as directed by the Engineer.

300-2.2 Unsuitable Material

Bituminous Pavement and Concrete removals shall be saw-cut at the designated lines of removal shown on the Plans or as designated by the Engineer.

300-2.6 Surplus Material

All surplus materials shall be disposed of in a legal manner at the Contractor's expense.

This item shall be included in the various items of work, for which unclassified excavation is required, as directed by the Engineer. No further compensation will be allowed therefore.

## **CONCRETE IMPROVEMENTS**

### **A. GENERAL**

Section 302-6, "Portland Cement Concrete Pavement," and Section 303-5, "Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways," of the Standard Specifications are supplemented by the following:

Portland cement concrete improvements shall be constructed in accordance with the details shown on the Plans and the City of Pomona Standard Plans, included herein. Concrete shall be specified by class and shall be in conformance with Table 201-1.1.2(A), or as shown on the plans.

High-early strength concrete shall be used for bus pads, cross gutter, all driveways, and alley approaches to comply with the requirements in the latest SSPWC, Section 7-10 "Public Convenience and Safety." High-early strength concrete shall achieve a compressive strength of 2,000 p.s.i. within 48 hours of pouring and at least 2,500 p.s.i. after 28 days.

It shall be the responsibility of the Contractor to protect wet concrete from graffiti. All newly poured concrete items observed to have graffiti markings left in the wet concrete or etched in the new surface prior to the acceptance of the project shall be removed and replaced by the contractor at no additional cost to the City.

All concrete removal and replacement work items shall be completed prior to grinding and paving any of the adjacent roadways.

When "slot paving" is required for concrete construction, as shown on the Plans, said paving shall be considered as included in the unit prices bid for the associated concrete improvements, and no additional payment will be made therefore. Slot paving shall consist of asphalt concrete (match existing section) on full depth 2-sack slurry mix where a sawcut is required in asphalt pavement, and as directed by the Engineer.

The Contractor shall remove and replace any new concrete work with graffiti markings and blemishes at no additional cost to the City.

For all concrete removals and replacements, the Contractor will not be allowed to excavate more locations than can be poured and completed by the end of the work week. All concrete removals shall be replaced by end the of the work week and completed in place unless authorized by the Engineer.

### **B. SOIL STERILANT**

All concrete construction work items shall require the application of soil sterilant. The Work to be done hereunder consists of furnishing and applying soil sterilant in the locations where subgrade is exposed, and as directed by the Engineer. The sterilant shall be applied prior to constructing the concrete



improvements and applied to a width of 1 foot adjacent to curbs, around pull boxes, light standards and where directed by the Engineer.

The sterilant material shall be a bromacil compound containing not less than 80 percent 5-bromo-3-sec-butyl-6 methyluracil mixed with water and a surfactant (wetting agent). The mixture composition shall be in the proportions of 6 pounds of bromacil compound and one gallon of surfactant to 100 gallons of water.

The sterilant shall be mixed on the Work site in the presence of the Engineer and shall be continuously agitated and applied with spray equipment having power agitators, spreader booms or bars and hand spray hoses such as to provide controlled, uniform applications.

Sterilant mixture, including water, shall be furnished and applied, under the direction of the Engineer, at a rate of 0.04 gallon per square yard.

Payment for soil sterilant will be included in the various items of work and no additional payment will be made therefore.

**REMOVE & REPLACE CURB & GUTTER – BID ITEMS #A-6, B-6, C-6:**

Saw-cutting, removal and disposal of existing improvements is included in this bid item.

Sawcut, removal and replacement of 2' slot paving with 2-sack PCC slurry adjacent to all curb or curb and gutter shall be required.

This bid item also includes removal and disposal of existing material and the installation and compaction of 6" CMB underneath all segments of new curb or curb and gutter and adjacent pavement.

Prior to removal, contractor shall field verify the join limits to ensure there will be positive fall between the removal limits and bring to the City's attention any locations that will not drain properly. Limits shall be adjusted per field conditions to ensure positive drainage is achieved on all new curb & gutter.

Curb or Curb and Gutter Removal and Replacements shall match the existing curb height and gutter width for the adjoining segments. This item also includes forming and pouring any portion of depressed curbs at driveways that fall within the removal and replacement limits.

Prior to placement of these improvements, contractor shall grind or prune all obstructing roots if present and per the root pruning specifications.

Prior to acceptance of any curb and gutter, the Contractor shall water flow test each segment of curb and gutter to ensure that ponding of water does not occur within the limits of new construction.

A sidewalk ½-inch radius edging tool is to be used to finish the edges of all curbs.

Curb and gutter constructed in conjunction with or as a result of new curb ramp, alley approach or cross gutter construction limits shall not be included as part of this bid item. All such curb and gutter shall be included in the unit price for the respective bid items and no further compensation will be allowed.

**Measurement & Payment for Remove & Replace Curb and Remove and Replace Curb & Gutter** shall be on a **Linear Foot (LF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the removal of existing and construction of new curb/curb & gutter including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, installation of base, construction of work item, finishing and protection of the work item and no further compensation will be allowed therefore.

**REMOVE & REPLACE SIDEWALK – BID ITEMS #A-7, B-7, C-7:**

Concrete sidewalk shall be constructed to the line, grades and designs shown on the plans or as ordered by the Engineer. Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. Any and all gas or water meter boxes falling within the limits of sidewalk construction shall be adjusted to the finished grade of the new sidewalk as part of this work item unless specifically called out as a separate work item on the plans.

Sidewalk score lines shall have a minimum finished depth of ½-inch. Walkway replacement needed to join new sidewalk shall be in-kind (surface texture, aggregate, finish, etc.) to the walkway removed or as directed by the Engineer's representative.

A sidewalk ½-inch radius edging tool is to be used to finish the edges of all curbs.

Limited infill and compaction of suitable base material will be required under certain portions of sidewalk. Contractor shall include the cost of material, labor and compaction of such material in the unit price per bid.

The contractor shall verify existing grades in order to ensure full ADA compliance

Any appurtenant PCC Improvement constructed as part of this project and not included with a unit price bid quote or otherwise covered for payment herein shall be paid at the unit price for Sidewalk per square foot prorated to reflect the true amount of PCC material being constructed, as approved by the Engineer's Representative. The prorated unit price bid for the appurtenant PCC improvement shall include all costs of subgrade preparation, and the excavation, furnishing and compacting of backfill material and no additional compensation will be allowed therefore.

**Measurement & Payment for Remove & Replace Sidewalk** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal and disposal of existing improvements and materials, construction of new sidewalk including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, construction of work item, adjustment of miscellaneous parkway items found within the limits of construction, finishing and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any planter areas, and shall only include the actual PCC surface area as measured in the plan view.

**REMOVE & REPLACE CROSS GUTTER– BID ITEM #C-8:**

It shall be the contractor's responsibility to verify the limits of construction with the City inspector for each of the cross gutters. Construction of the cross gutter shall be per the project plans and the referenced City of Pomona Standard Plans and any applicable details.

Construction of the cross gutter shall include the monolithic curb and gutter. Where a new curb ramp is proposed adjacent to the cross gutter, the curb and gutter shall be paid for as part of the curb ramp bid item, and the appropriate square footage shall be deducted from the total area of the cross gutter.

All removal and replacement cross gutters locations shall be constructed to existing joint elevations. The contractor shall document the existing relative elevations and grades at the joint locations as well as key elevation points. The Contractor shall ensure that positive drainage is achieved between the joint locations of construction.

All concrete for cross gutters shall be high-early strength concrete as defined in the General portion of the concrete improvements specification.

All intersections with cross gutters shall be opened to traffic at the close of each day. Adequate ramping or plating of the cross gutter location during the removal and grading phase shall be required based on the Engineer's direction. Plating of the cross gutter during curing phase shall be required in order to maintain traffic through the intersection at all times.

2' minimum width sawcut, removal and full depth slot paving with 2-sack PCC slurry shall be required adjacent to all sides of the cross gutter.

The contractor shall verify existing grades in order to ensure full ADA compliance

**Measurement & Payment for Remove & Replace Cross Gutter** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal of existing improvements and materials, construction of new cross gutter including coordinating with the City Inspector to verify locations, configuration and limits, surveying and staking, removals, preparation of subgrade, temporary ramping, slot paving, construction of work item, high early strength concrete, adjustment of miscellaneous utility items found within the limits of construction, finishing, plating, and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any adjacent slot paving and only includes the area bound by new PCC surface as measured in the plan view.

**RETROFIT TRUNCATED DOMES ON EXISTING SURFACE & GRIND EXISTING LIP TO 0"**  
**CURB FACE – BID ITEMS # A-8, C-9:**

Detectable Warning Surfaces:

Detectable warning surfaces shall be installed on existing access ramp surfaces. Detectable warning surfaces shall comply with City Standard No. A-28-19, Sheet 11 and the California Building Code Title 24, and shall consist of vitrified polymer composite, with at least 25% by weight aluminum oxide, nominally 0.20" thick, colorfast and UV stable. Panels must be anchored to the sidewalk access ramp surface as indicated on City Standard No. A-28-19, Sheet 11 and in accordance with manufacturer's recommendations. The color of the panels shall be black except for ramps adjacent to or within one block of a school. Ramps within one block of a school shall have yellow truncated domes.

Grind Ramp Lip to 0" Curb Face:

On all ramps to be retrofitted with a truncated dome, if an existing lip exists as the bottom of the ramp adjacent to the flowline, the Contractor shall grind the existing curb ramp lip to achieve a 0" curb face. The grind shall be tapered at the edge of the ramp surface, as appropriate, to avoid creating a sharp elevation drop-off and shall be 0" to 1/2" deep and shall be at least 6" wide in a straight-line-grade. Grades

within the grind area shall also be limited to 8.33%. The price of grinding the lip shall be included in the unit price for retrofitting the existing curb ramp.

**Measurement & Payment for Retrofit Truncated Domes on Existing Surface and Grind Existing Lip to 0" Curb Face** shall be paid for on an **Each (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including surface preparations, coordinating with the City Inspector to verify limits of grinding, grinding the existing lip, removal and disposal of debris, dust control, cutting and configuration of the truncated domes (as required), installation of the truncated domes per manufacturers recommendations, protection of the work item and no further compensation will be allowed therefore.

**PRUNE, REMOVE AND DISPOSE OF CONFLICTING ROOTS – BID ITEM # A-9, B-8:**

All roots less than 2" diameter shall not be included under this work item and the costs for removal of the minor root systems shall be included under the respective bid item and no additional compensation will be allowed.

Where called for on the plans or deemed necessary in the field, root pruning shall include the grinding, removal and disposal of all conflicting roots with the proposed work item and shall be measured on a location by location basis.

Prior to grinding or removing any root systems, the City's arborist shall review the existing tree and root system to provide direction and approval for the root pruning. An arborist recommendation shall be provided for each location that root pruning is recommended to ensure the root pruning will not adversely affect the health of the existing tree.

**Measurement & Payment for Prune, Remove, & Dispose of Conflicting Roots** shall be on an **Each Location (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including coordinating and obtaining approval from the City arborist, grinding, removing and disposing of all root and additional material spoils and all other items associated with this task and no further compensation will be allowed therefore.

**PAVEMENT REPAIR - COLD MILLING – BID ITEMS # A-10, C-10:**

**A. GENERAL**

Subsection 302-1.1, "Cold Milling Asphalt Concrete Pavement," of the Standard Specifications is supplemented by the following:

Cold milling shall be a variable or constant depth cut for the various widths of cold millings called for on the plans. Variable depth and uniform depth cold milling shall be included under the same bid item based on the depth noted in the bid item.

All cold milling shall conform to the details shown on the plans and these Special Provisions. All temporary striping required after cold milling operations shall be installed per City Standards. All required temporary striping shall be considered paid for under the bid item for Traffic Control. No additional compensation will be allowed.

The Contractor shall be responsible for furnishing, placing and maintaining barricades and lights as necessary to protect the public from danger due to the work being done. The machine used for cold planing shall have performed satisfactorily on similar work and meet the following requirements:

The Planing Machine shall be specially designed and built to perform cold planing of bituminous pavement with the ability to plane concrete patches. The cutting drum shall be a minimum of sixty (60") inches wide with carbide tip cutting placed in variable lacing patterns to provide various finishes. The machine shall be capable of operation at speeds ranging from 0 to 40 FPM. It shall be self-propelled and have a water spray at the cutting drum to minimize dust. The machine shall be capable of removing the material next to the gutter of the pavement being reconditioned and so designed and the operator thereof can at all times observe the planing operation without leaving the controls. The cutting drum shall be adjustable as to slope and shall deep cut in one pass a maximum of three (3") inches without producing fumes or smoke.

Ski arms to improve smoothness of grinding operations are required with a minimum 15 foot long arm.

The Contractor shall provide a smaller machine to trim areas inaccessible to the larger machine at manholes, curb returns and intersections. The smaller machine shall be equipped with a twelve (12") inch wide cutting drum mounted upon a three (3) wheel chassis allowing it to be positioned without interrupting traffic and pedestrian flow.

During the operation the Contractor shall sweep the street with mechanical equipment and remove all loose material from planed areas. In addition, all existing asphalt/slurry buildup on the concrete gutter shall be removed and the cost thereof shall be included in the unit price of cold planing cost, no additional compensations shall be paid. The Contractor shall abate dust nuisance by cleaning, sweeping and sprinkling with water or other means as necessary.

Residue from grinding shall not be permitted to flow or travel into gutters, onto adjacent street surfaces or parkways. All residues shall be completely removed by a vacuum sweeper and properly disposed. Sweeping is to take place immediately after the grinding has been completed and as directed by the

Engineer. No washing of any residue into gutters and/or drainage structures shall be allowed. The Contractor shall cover and protect all storm drain inlets prior to the start of cold milling operations.

All pavement transitions and temporary striping/markings shall be in place prior to the opening of a lane for traffic. Any pavement grade differential between adjacent lanes that will, with the permission of the Engineer, remain during non-working hours shall be indicated with the appropriate warning signage.

Cold mix A.C. shall be placed and maintained at the interface between milled and non-milled areas to eliminate the hazard caused by sudden elevation differences, especially in pedestrian path of travel areas adjacent to wheelchair ramps, and shall be removed prior to placement of surface course pavement.

The Contractor shall provide access and detours at all times for pedestrian facilities when cold milling.

The Contractor is to notify the Engineer at least two (2) working days prior to and immediately after the cold mill operations so that observations and measurements may be made of areas before the placement of permanent asphalt.

Existing pavement thicknesses, as measured by the City's geotechnical investigation, have been provided on the plans and in these specifications for reference purposes only. It shall be the contractor's responsibility to verify the existing pavement thickness and to adjust field operations accordingly in order to properly construct the proposed improvements.

## **B. PHASING REQUIREMENTS**

Cold milling shall not be performed more than the allowed days ahead of surface course paving, as outlined below:

Denison Avenue:

- Final paving shall occur within 5 working days of the cold milling operations

Owens Lane:

- Final paving shall occur within 5 working days of the cold milling operations

Geneva Street:

- Final paving shall occur within 3 working days of the cold milling operations

Olive Street:

- Final paving shall occur within 3 working days of the cold milling operations

Penmar Lane

- Final paving shall occur within 3 working days of the cold milling operations

## **C. CRACK SEAL & WEED ABATE**

Also included under this bid item will be the weed abatement and crack sealing of the milled asphalt pavement surface. After the milling operations and prior to placing the asphalt surface course, all cracks greater than or equal to 1/4 inch in width shall be routed and cleaned of existing vegetation via use of high pressure air, sprayed with soil sterilant and filled with crack filler. The pavement surface should be warm, dry and free of any dust, dirt and deleterious material before applying the crack sealant.

In areas where an asphalt concrete leveling course is specified, existing cracks or holes 1/4 inch or larger shall be cleaned of all debris and vegetation. Filling of these cracks and holes shall be accomplished by constructing the leveling course as specified elsewhere herein.

In areas where an asphalt concrete leveling course is not specified, existing cracks or holes, 1/4 inch or larger, shall be cleaned and filled or repaired with liquid asphalt, cold mix, hot mix or as directed by the Engineer. Existing cracks smaller than 1/4 inch shall be cleaned of vegetation only.

Cleaning of cracks or holes shall be by power brooming, compressed air or other approved methods.

Crack preparation, sealing, and weed abatement will be included in the various items of work, and no additional compensation will be allowed therefore.

## **D. MEASUREMENT & PAYMENT**

**Measurement & Payment for 2"-3" Uniform Depth Cold Mill(Includes Fabric Removal &**

**Disposal**), shall be 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 to depths shown on the plans. The price of this item shall include milling the pavement to be removed, the disposal and hauling of material removed, including pavement fabric (as applies), cleaning and filing 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 re-compaction 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.

**PAVEMENT REPAIR - SAWCUT & REMOVE EXISTING PAVEMENT/BASE  
& CONSTRUCT FULL DEPTH AC- BID ITEMS # A-11, B-9, C-11:**

All asphalt dig out and replacement areas Full Depth, shall occur after the full width pavement grind and before the full width roadway paving operations. The inspector and Engineer are to field verify each asphalt dig out location. All asphalt dig out areas are to be field marked by the inspector and approved by the engineer.

**The patching locations shown on the plan are representational and budgetary. The limits, locations and quantities of the patching will vary based on the actual field conditions encountered upon exposing the underlying pavement surface. Contractor shall notify the Engineer a minimum of one full working day prior to Contractor initiating the pavement removal operations in order to assess the underlying pavement surface condition during the removal operations and issue final roadway patching limits and locations for the exposed roadway segment.**

Upon identification of the dig out locations, the contractor shall be responsible for grinding or excavating the existing pavement/base to the depths noted. Upon exposing the subgrade/underlying pavement, the subgrade shall be probed to verify adequacy of the existing base/subgrade. If unstable soils are encountered, additional removals will be directed by the engineer. Additional quantities of export and asphalt concrete observed from the removals shall be paid for at the contract unit price and no additional compensation will be allowed.

The contractor shall not be allowed to excavate more patches than can be paved back in a single day's operation. All patches shall be paved back by the end of each day, and all lanes shall be open to traffic.

All asphalt concrete for patching locations shall be C2-PG 64-10.

**Measurement & Payment for Remove Full Depth of Existing Pavement/Base (Full Depth Patching)** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the excavation or cold milling of the existing asphalt concrete pavement, aggregate base and sub-base to depths shown on the plans. The price of this item shall include excavating the asphalt concrete pavement, aggregate base and subgrade to be removed, the disposal and hauling of material removed as described herein, removal of fabric/rubberized asphalt/petro-mat if it exists in the field at no additional cost, all debris, traffic controls as described herein, scarification and re-compaction of exposed base/sub-grade in areas where entire pavement section is removed, removal of unsuitable sub-grade 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.

## **PAVEMENT REPAIR - ROADWAY PAVING – BID ITEMS # A-12, 13, 14, B-10, 11, C-12:**

### **A. REMOBILIZATION AND DEMOBILIZATION**

All street to street remobilizations and demobilization work shall be included in the bid items in this section and no additional payment will be allowed.

### **B. TACK COAT**

Section 302-5.4 “Tack Coat” of the Standard Specifications are supplemented by the following:

A tack coat shall be applied uniformly upon the existing pavement planes and joints, gutters, inlets, manholes, etc. prior to placing the asphalt concrete. The tack coat shall be SS-1h emulsified asphalt per Section 203-3. The surface to be covered shall be free of water, foreign material, vegetation or dust before application of the tack coat.

The area to which tack coat has been applied shall be closed to public traffic. Care shall be taken to avoid tracking tack material onto existing pavement surfaces beyond the limits of construction. Existing striping and pavement markings which have been tacked with tack coat shall be repainted at the Contractor’s expense. Certain driveways which are heavily used during hours of construction as determined by the Engineer, shall remain open as long as possible, and tack shall be applied to areas along said driveways as soon as possible before the asphalt is placed, or the Contractor may provide some means of protecting the tack coat while traffic passes over it. The means of protection shall be utilized only after approval by the Engineer.

The Contractor shall clean existing concrete and asphalt surfaces of any tack coat tracked onto them, to the satisfaction of the Engineer.

A tack coat **shall** be applied between each course of paving regardless of when the previous course of asphalt was laid. The contractor shall not be allowed to omit the tack coat for any circumstance unless approved by the Engineer.

### **C. PAVING ASPHALT**

Paving asphalt to be used in Asphalt Concrete shall be PG64-10,

Paving asphalt to be used in ARHM shall be PG64-16 per table 203-1.2(A) in the SSPWC.

### **D. ASPHALT CONCRETE PAVEMENT**

Section 302-5, "Asphalt Concrete Pavement," of the Standard Specifications is supplemented by the following:

Existing pavement markers shall be removed flush with the existing pavement prior to constructing asphalt concrete pavement.

The asphalt concrete base course shall be Class C2-PG64-10 as directed on the Plans.

The asphalt concrete surface course, where not specified as ARHM, shall be Class C2-PG64-10, as



directed on the Plans.

Where asphalt concrete pavement is designated to be constructed on existing aggregate base, the existing base shall be compacted and graded in accordance with Subsection 301-2.3, "Compacting," of the Standard Specifications.

The asphalt concrete pavement shall be spread with a self-propelled mechanical spreading and finishing machine.

The Contractor shall have sufficient workers and equipment necessary to accomplish proper placement and compaction of the asphalt concrete pavement to the satisfaction of the Engineer.

Ski arms to improve smoothness of paving operations are required on all paved streets with a 30 foot minimum length arm for paving.

#### **E. ASPHALT RUBBER HOT MIX (ARHM)**

Asphalt rubber pavement shall conform to the requirements of the Standard Specifications Section 203-11, "Asphalt Rubber Hot Mix (ARHM) Wet Process."

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.

Asphalt Rubber Hot Mix shall be ARHM-GG-C, gap-graded as shown on the plans.

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.

All surfaces to be overlaid shall be cleaned by the use of a broom and a vacuum sweeper. The overlaid surface shall be free of water, dust, or foreign material before tack coat is applied. All raised pavement markers shall be removed prior to the placement of any asphalt concrete overlay. Removal of all AC slurry seal residue from gutter edge should be completed prior to paving.

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.

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 ARBM-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.

Ski arms to improve smoothness of paving operations are required on all paved streets with a 30 foot minimum length arm for paving.

#### **F. ROCK DUST BLOTTER**

Rock dust blotter material shall be required immediately after the completion of the "finish rolling" and prior to opening to traffic to prevent bleeding and tracking of the asphalt rubber material.

All excess rock dust blotter shall be removed from the street at the end of each workday. The removal of the rock dust blotter shall include removal from adjacent streets as needed. No excess rock dust blotter shall be left on any street after normal work hours. The cost of this application will be included into the contract unit price bid for ARHM.

## **G. MEASUREMENT & PAYMENT**

**Measurement & Payment for Install 1.5”-2” ARHM-GG-C Overlay and Install 1.5”-2” AC Leveling Course** shall be on a **Per Ton (TON)** basis and shall be measured by tallying the total material delivered to the site per certified material tickets and subtracting any spoil/un-qualified asphalt from the total figures as agreed to in the field based on the day’s operations. This work item shall include furnishing all labor, equipment, tools and materials necessary for the surface preparation, certified weigh tickets, and incidentals and for doing all the work involved, including furnishing, applying and cleaning up excess rock dust blotter, application of tack coat to all exposed surfaces, paving of the asphalt concrete/ARHM, protection of the paved surface, traffic control and all incidentals for doing the work involved in asphalt concrete paving as defined in Section 302-5, and no further compensation will be allowed therefore. Asphalt concrete used for slot paving, temporary asphalt ramping, and any other source other than the pavement overlay/base paving locations shall not be included in this bid item.

## **PAVEMENT REPAIR - SLURRY SEAL – BID ITEM # A-15:**

### **A. REMOBILIZATION AND DEMOBILIZATION**

All street to street remobilizations and demobilization work for fog of slurry sealing activities shall be included in the bid items in this section and no additional payment will be allowed.

### **B. PHASING & SCHEDULING**

At least ten (10) calendar days prior to commencing work, the Contractor shall submit a detailed slurry/fog seal phasing schedule to the City for approval. This schedule shall allow residents on the streets to be sealed or paved, ample “on street” parking within a reasonable distance from their homes.

Based on the spreading schedule, the Contractor will notify residents, businesses, school districts, bus companies, trash and street sweeping companies, and emergency services of the proposed work and post temporary “NO PARKING” signs at no cost to the City. Signs shall be posted at all intersections, at the end of cul-de-sac streets, and on each side of the street a maximum of two hundred (200) feet between signs. Signs may be attached to existing poles, street light standards or parkway trees. When necessary the Contractor shall furnish posts.

The Contractor shall furnish and provide a ten (10) day and forty-eight (48) hour signs notice. The “NO PARKING” signs shall be in place not less than ten (10) days prior to performing the work; therefore a request for changes in the schedule requiring additional posting shall be submitted by the Contractor for approval by the City Engineer at least forty-eight (48) hours prior to posting of any said signs.

Upon forty-eight (48) hours of work to be performed on the street, the ten (10) day sign shall be removed and replaced with a forty-eight (48) hour notice and implemented for chip seal and slurry seal operations. The Contractor shall also create Notifications for manhole adjustments forty-eight (48) hours prior to the work to be performed. Upon start of pavement construction, the Contractor shall notify the residents in person for closure and obstruction of their street.

### **C. CRACK SEALING & FILLING**

Crack cleaning, weed abatement & sealing and filling of the pavement surface shall be included in the unit price for fog or slurry sealing.

Cracks shall be cleaned of all dirt, sand, and debris using no less than a 175 cfm compressor at 100 psi to insure cleanliness of asphalt walls to a proper depth (1:1 ratio)

Crack sealing shall comply with 303-1.8.7 of Standard specifications. Cracks larger than 1/4-inch and up to and including 3/8" shall be routed to a width of 1/2" and a depth of 3/4" and shall be filled. Cracks greater than 3/8" shall be filled but need not be routed. **Cracks in excess of 1-inch in width shall be filled with asphalt.** The Contractor is cautioned to make his/her own estimate of the linear footage of cracks to be filled. All filled cracks shall be made flush with surround pavement surface. All freshly applied sealant shall be immediately be covered with sand or rock dust to prevent tracking by vehicle tires when opened to traffic. All debris generated by the pavement crack cleaning shall be removed from the area before the end of the day on which the cleaning occurs.

All vegetation shall be removed by mechanical means using a 1/4" wide rotating blade to insure proper vegetation removal in narrow cracks. Prior to, or after removal, herbicide approved by the Engineer shall be applied to cracks. The approved herbicide should be applied at least ten (10) days prior to the placing of the slurry.

Moisture shall be removed using a hot air lance accompanied by no less than a 175 cfm compressor producing an air stream velocity of 3,000 ft/sec and heated air temperature of 295°F with no direct flame.

Sealant shall be applied in prepared cracks by inserting a nozzle into the crack and filling it from the bottom up with the approved sealant material.

Sealant shall be applied according to manufacturer's specifications, using manufacturer's recommended equipment. Manufacturer's specifications and equipment recommendations shall be furnished to the Engineer prior to construction.

After filling the cracks with sealant, a "U" shaped squeegee shall be used to strike off excess material and to provide a band-aid effect with the sealant. Any excess sealant material shall be removed from asphalt surfaces. After the sealant has cooled, there should be a depression between 1/8 and 1/4" in depth.

### **D. SLURRY SEAL**

#### **Materials:**

Slurry seal shall be quick set Type I Slurry Seal (CQS-1h).

#### **Surface Preparation:**

Prior to application of slurry seal, the existing pavement surface shall be cleaned, accumulation of water removed, and unsatisfactory areas repaired. Failed pavement, base, or subgrade material shall be removed and replaced with new materials. Cracks in the surface not due to structural deficiencies shall be cleaned and sealed as described herein under Crack Sealing.

Removal of contamination, traffic paint, thermoplastic and vegetation: All dust, dirt, oil, grease, fuel, loose or flaky paint, thermoplastic, raised pavement markers, vegetation, and other objectionable material shall be removed. Grease and oil contaminated areas which cannot be cleaned shall be removed and replaced with new bituminous pavement. All vegetation shall be removed completely, and those areas treated with herbicide.

Any vegetation in the area of the slurry seal shall be removed with an approved herbicide applied at least ten (10) days prior to the placing of the slurry.

All utility covers/appurtenances shall be covered and protected during the slurry sealing operation. Upon completion and curing of the slurry seal, all covers placed on the utility appurtenances shall be removed and disposed of by the contractor.

### **Mixing:**

Conforming to Standard Specifications, Section 302-4.2, mixing shall be performed by continuous-flow mixer. All aggregate particles shall be uniformly saturated and coated with asphalt.

The slurry mixer shall be a multi-blade or spiral continuous-flow unit in good working condition capable of accurately delivering a pre-determined proportion of aggregate, water, emulsion, and accelerator or retardant to the mixer and of discharging the thoroughly mixed slurry on a continuous basis. Each mixer shall have a metering device to measure the quantity of water in gallons used in each load of slurry and a separate metering device or equivalent which meets the approval of the City Engineer to measure the quantity of emulsified asphalt used in each load of slurry.

Transit mix trucks shall not be used.

The Contractor shall have two (2) fully operational mixers for use at the project site at all times. These mixers shall be available for inspection by the Agency at least forty-eight (48) hours prior to commencing work.

### **Application:**

Application shall Conform to Standard Specifications, Section 302-4.3.1, the work shall consist of mixing asphalt emulsion, aggregate, additive and water, and spreading the mixture on the pavement where shown on the drawings. The Contractor shall apply Slurry seal two (2) weeks after crack sealant application. Contractor shall schedule his work to allow enough time between crack sealing and slurry seal application.

The Contractor shall inform himself of the city trash pick up days schedule for the project area. There shall be at least four (4) calendar day period prior to trash pick up day for each street receiving slurry.

All concrete surfaces to be joined by the slurry seal, with the exception of parallel curb and gutter, shall be covered with tar paper or any approved material.

The sites for stockpiling and batching materials shall be clean and free from objectionable material. Arrangement for these sites shall be the responsibility of the Contractor.

Hand squeegees and other hand equipment shall be provided to remove spillage and spread slurry in areas inaccessible to the spread box.

The spreader box shall be equipped with flexible material in contact with the pavement and shall be maintained so as to prevent loss of slurry. It shall be adjustable to ensure a uniform controlled spread and be equipped with a mechanical or hydraulic type of horizontal shifting device. The spreader box shall be equipped with a burlap drag or approved equivalent.

The slurry mixture shall be fed into the spreader box such that a uniform and complete coverage of the pavement is obtained. The slurry seal machine shall be operated at such a speed that the amount of slurry in the spreader box shall remain essentially constant. Thickness of the slurry when measured over the average pavement surface shall be approximately the maximum size of the aggregate being used. Where multiple applications are required, each application shall be thoroughly cured before another application is placed.

### **Spreading:**

Spreading shall Conform to Standard Specifications, Section 302-4.3.2.

Slurry should be placed only when the temperature is at least 10° C (50° F) and rising, and when no rain is expected.

The application of slurry shall not commence until after 8:30 a.m. and the slurry shall be sufficiently cured to be opened to traffic by 4:30 p.m. The streets to be sealed shall be closed from the time the application begins until the City Engineer determines the mixture has achieved sufficient set to be opened to traffic.

The Contractor shall thoroughly sweep or clean the surface, to the satisfaction of the City Engineer. The streets shall be swept of all loose aggregates for period of two (2) weeks after the application of slurry seal. Additional sweeping may be needed on streets that exhibit raveling of aggregate. The frequency and location of additional sweeping will be on an as needed basis as determined by the Engineer at no additional cost to the City.

Prior to applying slurry, the surface to be sealed shall be cleaned by the Contractor unless otherwise specified. Immediately ahead of the mixer the pavement shall be pre-wetted by a pressure water distributed system equipped with a fog type spray bar which will completely fog the surface of the pavement. The need for application and the rate of application shall be determined by the City Engineer.

Evidence of solidification of the slurry, balling or lumping of the aggregates or the presence of uncoated aggregates shall be cause for rejection of the slurry.

Slurry shall be applied in such a manner that no ridges shall remain.

Slurry shall be applied with a maximum overlap of the concrete gutter of two (2) inches. Any slurry material exceeding two (2) inches shall be removed by the Contractor prior to the completion of the project.

The Contractor will be required to work around all existing utility facilities and seal up to said facilities. During sealing operations, the Contractor shall cooperate with the owners of any utility covers and shall cover and completely protect said covers with heavy plastic or other suitable material.

At the direction of the City Engineer, the Contractor shall repair and reseal all areas of the streets which have not been sealed properly or completely at no cost to the Agency.

Where the completed slurry is not uniform in color, the street shall be treated to eliminate the color variation at the Contractor's expense. The method of treatment shall be approved by the City Engineer.

Each slurry crew shall be composed of a coordinator at the project site at all times, a competent quick set mixing operator, a competent driver and sufficient laborers for any handwork, cleanup and barricading.

Curing:

Completed slurry seal shall be protected from traffic per Standard Specifications Section 3024.4.

The Contractor shall be responsible for adequate barricading of the work area and controlling of traffic in the vicinity of the project as specified in Subsection 7-10 of the General Provisions.

When it is necessary to provide vehicular or pedestrian crossings over the fresh slurry, the City Engineer may direct the Contractor to spread sufficient sand or rock dust, or request that access be provided to the affected area to eliminate tracking or damage to the slurry. Sand, rock dust, or other measures used for this purpose shall be at the Contractor's expense.

**E. MEASUREMENT & PAYMENT**

**Measurement & Payment for Weed Abate, Crack Seal & Apply Full Width Type I Slurry Seal** shall be on a **Square Foot (SF)** basis as measured in the field and shall include full compensation for all labor, materials, tools, equipment, and incidentals; for doing all the work involved in scheduling, obtaining approvals, providing notifications, no parking signs, site preparation, weed abatement, crack sealing, crack filling, surface preparations, covering and protecting all utility appurtenances, application of slurry seal, protection and barricading of the work, and for completing the work in place, as noted on the plans and approved by the City Engineer, and no additional compensation will be allowed therefore.

**ADJUST MONUMENT FRAME & COVER – BID ITEM # A-18:**

All monument frame and covers encountered during construction shall be protected in place and adjusted to grade per the plan requirements.

The protection, documentation and filing of the required corner records for the centerline tie or monument held within the monument well shall be paid for as part of the monument preservation bid item.

**Measurement & Payment for Adjust Monument Well Frame & Cover to Grade** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the adjustment of monument frame and cover as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

**ADJUST MANHOLE FRAME AND COVER – BID ITEMS # A-17, B-13, C-14:**

Contractor shall be responsible for adjusting manhole covers during the paving operation to finished grade as shown on the plans, and as directed by the Engineer. Manhole adjustments shall be in accordance with 301-1.6 and 302-5.8 of the SSPWC and the finished grade of the manhole and all associated paving around the manhole shall be flush with the finished surface within a 3/8" tolerance.

The Contractor shall be required to adjust any manhole found not in conformance with these requirements, as determined by the Engineer, at their sole expense.

Manhole adjustments shall be in compliance per City of Pomona Standard Plan B-14-68, unless otherwise noted.

Adjustment of storm drain and sewer manholes as well as sewer cleanouts shall be included under this bid item.

All storm drain manholes shall be initially lowered to be below the anticipated pavement grinding and pavement removal elevations prior to pavement grinding & paving. Immediately upon completion of the paving operations, the Contractor shall then adjust all manhole covers to grade per these specifications and the project plans. This shall constitute double adjustment.

**Measurement & Payment for Adjust Manhole Frame & Cover to Grade (Double Adjust)** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the lowering and re-adjustment of manholes (double adjustment included) to grade as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

#### **ADJUST WATER VALVE FRAME AND COVER TO GRADE – BID ITEMS # A-18, B-14, C-15:**

Existing water valve and blow off can and lids shall be adjusted to grade by the Contractor, including all necessary preparation work, during each phase of construction and paving. The valve boxes and blow-off lids shall not be buried or otherwise rendered inaccessible at any time and the valves shall be maintained readily accessible for shut-off at all times.

Details of adjusting water valve boxes and blow-off lids for typical conditions anticipated to be encountered in the Work are shown on the City of Pomona Standard Plan, Water Std. #6. All valve adjustments shall also be done in accordance with the City of Pomona Water Division Standard Specifications included in appendix A. No guarantee is made and none shall be implied that these details cover all conditions that may exist within the Work site. The unit price bid per each shall be considered as full compensation for preparing and adjusting the valve boxes and blow-off lids, including their covers.

Included as part of the water valve can and lid adjustments will be the re-painting of all valve covers with paint. Surfaces of valve covers shall be primed or spot primed as required. Prime coat shall be for a 100 g/l VOC region (South Coast) Rust-Oleum No. 255617 (2mils) or approved equal. First coat and second coat (finish topcoat) shall be Rust-Oleum No. 261959 in CV7400 line (2mils). Total thickness of the completed coating system shall be 6 mils. Color shall be "Safety Blue" or approved equal for valve covers located on potable water lines. Color shall be "Safety Purple" for valves located on non-potable water lines. Paint color and type shall be submitted and approved by the City prior to its use.

**Measurement & Payment for Adjust Water Valve Frame & Cover to Grade** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the adjustment and re-painting of valve can and lids as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

#### **REMOVE, REPLACE, AND ADJUST WATER METER BOX – BID ITEMS# A-16, B-12 C-13:**

Existing Pomona water meter boxes shall be adjusted to final grade by the Contractor, including all necessary preparation work during each phase of construction. The meter boxes shall not be rendered

inaccessible at any time and shall be maintained readily accessible for shut-off at all times. All new meter boxes shall be provided by the Contractor.

Variable sizes and types of existing meter boxes were observed throughout the project limits. It shall be the contractors responsibility to adjust the meter boxes in kind and size at no additional cost to the City based on existing conditions. All new meter boxes shall be per City of Pomona Water Std. #11 & #12.

**Measurement & Payment for Remove, Replace, and Adjust Existing Water Meter Box to Grade** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including water meter relocations, cutting and installing new pipe, coordination with the Pomona water department, purchasing, delivery and installation of existing or new meter boxes, disposal and hauling of existing boxes and adjustment to final grade, as indicated on the plans and as directed by the Engineer. The price of this item shall also include any incidentals for doing the work involved in constructing the meter valve box. No further compensation will be allowed therefore.

### **SIGNING, STRIPING AND PAVEMENT MARKING – BID ITEMS # A-20, B-15, C-16:**

All existing thermoplastic shall be removed prior to cold milling of the asphalt concrete and shall be disposed of at a hazardous waste facility by the Contractor. Proof of proper disposal will be required to be submitted to the City prior to payment authorization.

#### **A. PERMANENT ROADWAY SIGNING:**

Signs shall conform to the provisions in Section 56, "Signs," of the State Standard Specifications, the State Specifications for Reflective Sheeting on Aluminum Signs, the State Specifications for Aluminum Single-Sheet and Laminated-Panel Signs and these Special Provisions. All signs shall have 3M 1160 (or approved equal) anti-graffiti film.

The Work to be done hereunder consists of furnishing and installing signs, sign posts, re-posting existing signs, and replacing existing sidewalks where removed for sign post installation.

The signs to be re-posted shall be relocated as shown on the Plans or at locations approved by the Engineer. Any post damaged shall be replaced by the Contractor at its sole expense.

#### **B. PAVEMENT MARKERS, MARKINGS, AND TRAFFIC STRIPING:**

Section 214, "Pavement Marker," Subsection 310-5.6, "Painting Traffic Striping, Pavement Markings, and Curb Marking," and Section 312, "Pavement Marker Placement and Removal," of the Standard Specifications are supplemented by the following:

The Contractor shall restripe existing striping and curb markings obliterated by new construction, whether or not shown on the Plans for replacement.

The Contractor shall remove markers, markings, and striping where necessary to adjust the configuration of existing striping to new striping. The Contractor shall remove markers flush with existing pavement. The Contractor shall remove markings and striping by wet sandblasting or light grinding, as approved by the Engineer.

All striping and markings shall be alkyd thermoplastic, 1.5 mm to 2.5 mm thick in conformance with State Specification 84-2, except for Bike Lane striping, as shown on the Plans and as directed by the City Traffic Engineer. Bike lane striping will be completed with paint in conformance with State



Specification 84-3, as shown on the Plans and as directed by the City Traffic Engineer. Permanent striping to be installed at least 10 days after the final asphalt lift has been placed.

At locations where existing painted curb is to be reconstructed, the Contractor shall paint the new curb as directed by the Engineer within 10 working days after completing curb reconstruction. The paint shall be water-based with a 2-year guarantee against color fading. Prior to the start of construction, the Contractor shall submit to the City written proof of the manufacturer's 2-year guarantee.

The Contractor shall re-paint all existing painted curb in kind, regardless of whether shown on the plans or not. The locations for curb repainting shown on the plans are representational and may not reflect the full extent of the curb paint markings.

The Contractor shall furnish to the Engineer samples of materials not less than 3 weeks in advance of the date the materials are to be applied.

The Contractor shall notify the Engineer after completing layout/cat-tracking and at least 3 working days before commencing installation of striping, markings and markers for review and approval of the striping layout.

The Contractor shall include pavement markers for all striping and shall install markers, striping and markings in accordance with the Plans and the details shown in the Caltrans Standard Plans.

The Contractor shall install a Type I pavement marker at all fire hydrant locations.

### **C. MEASUREMENT & PAYMENT:**

**Measurement & Payment for Street Signing, Striping and Pavement Marking** shall be on a **Lump Sum (LS)** basis and shall include furnishing all labor, equipment and materials necessary for signing and striping, including but not limited to the removal of existing thermoplastic and/or striping and pavement markers by approved methods, installation of raised pavement markers, thermoplastic/paint legends and striping, painting new curb to match existing, re-painting all existing curb paint markings, delineators, signs and signposts in the public right of way and private property. This work shall conform to the SSPWC, Sections 210 and 310 and no further compensation will be allowed therefore.

### **PERFORATE THROUGH BOTTOM OF CATCH BASIN – BID ITEM # C-17:**

Perforate through bottom of Catch Basins in 5/8" diameter at 5" grid pattern at the locations listed below:

- North East Corner of Olive Street at Garey Avenue (1 EA)
- South East Corner of Olive Street at Garey Avenue (1 EA)

**Measurement & Payment for Perforate Through Bottom of Catch Basins** shall be on an **Each Item (EA)** basis and shall include all materials, labor, and equipment necessary to perform all operations to Perforate through bottom of Catch Basins through the project site during construction, in the areas listed above, and as directed by the Engineer. Contractor shall coordinate with the Engineer for final perforation of Catch Basins. Any Catch Basins that are damaged during construction, outside the areas listed above shall be protected in-place and shall be fully replaced at the Contractor's expense and to the satisfaction of the Engineer. No further compensation will be allowed therefore.

# City of Pomona

## **SIDEWALKS-PENMAR LANE (CDBG) (FY 16-17 / 17-18), PROJECT NO. 428-67919 Technical Provisions**

### **MOBILIZATION (BID PRICE SHALL BE 2% OF THE TOTAL BID) - BID ITEMS #A-1:**

#### **A. GENERAL**

Mobilization shall consist of all conditional notice to proceed work, securing all permits/approvals and licenses, paying all fees, preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all other work and operations which must be performed or cost incurred without other pay items on the various contract items on the project site. The following items of work shall be included in the lump sum bid for Mobilization, Clearing and Grubbing, and no additional compensation will be allowed:

1. Mobilization.
2. Clearing and Grubbing, general excavation, earthwork, and grading not included specifically in any other bid items.
3. Sawcut and removal of existing pavement and base material, not included specifically in any other bid items.
4. Sawcut and removal of existing PCC improvements (concrete curb, gutter, sidewalk, ramps, etc.).
5. Protection of existing improvements in place.
6. Punchlist
7. Notifications and Public Outreach

Re-mobilizations from street to street and as needed in all other circumstances by the Contractor's operations, work sequencing, revised work sequencing, scheduling, revised schedules and for all work shall be included in various other pay items. No separate payment or change orders will be allowed for any re-mobilizations related to additive alternate work shall be included in the additive alternate work pay items.

Mobilization shall also include all costs required by the contract and not specifically included in a pay item.

#### **B. PROJECT COORDINATION**

The Contractor shall be required to initiate and maintain project coordination with affected stakeholders, residents, schools, police & fire departments, solid waste collection department, utility agencies, transportation agencies and businesses throughout the course of this project.

The Contractor shall coordinate with all transit agencies regarding affected transit routes a minimum of 4 weeks in advance of any impact to the route. Known transportation agencies within the project limits are:

- Foothill Transit,
- Metro,
- Omni Trans and
- Pomona Transportation Authority

The contractor shall coordinate with each agency to determine necessary accommodations for the bus stops during the course of the project. Coordination may involve field meetings to discuss the safe passage of pedestrians, the limits where work zone will be, recommend phasing of work in a sequence to cause as little impact and/or the closure of the bus stops.

Attention to business coordination shall also be included under the contractor's responsibilities.

As part of the contractors project coordination efforts, a minimum of two project specific notices shall be prepared and distributed to all residences and businesses within the project limits, or whose properties lie on dead end/cul-de-sac streets that intersect with one of the project segments. Separate notices shall be prepared for each roadway segment. The minimum required notices are:

- **Project Information Notice (to be distributed one week (7 calendar days) prior to the start of construction)** which includes:
  - General project limits (street specific) & scope of work
  - Construction timeframe & duration
  - Contractor contact name and number for access needs and project questions
  - **All notices shall be in English and Spanish**
- **Slurry/Fog Seal or Grinding and Paving Notice** (to be distributed 5 working days prior to start of grinding/paving operations) which includes:
  - Description of type of work
  - Specific Dates of grinding & paving impacts
  - Parking limitations
  - Special Instructions (Trash, Access, Etc.)
  - Contractor contact name and number for access needs and questions.

The cost for project coordination and notification shall be included in various work items and no additional compensation will be allowed therefore.

**C. CITY OF POMONA COORDINATION**

The Contractor shall be responsible for coordinating with the City of Pomona to obtain the necessary encroachment permits and approvals for the work which will affect traffic signal and vehicular operations. All permitting, coordination, and other hours required to obtain approval and maintain correspondence with the City of Pomona shall be included in this bit item.

**D. CONDITIONAL NOTICE TO PROCEED**

Prior to the issuance of the Notice to Proceed, the City will issue a Conditional Notice to Proceed for the items listed in the general provisions of these specification. Upon issuance of the Conditional

Notice to Proceed, the Contractor shall also be allowed to pothole existing facilities to verify pavement depths and take the necessary pavement cores for the cold central plant recycling testing and design. Working days will not be charged to the contract during this period until the issuance of the full Notice to Proceed and agreement of the construction start date.

**E. NOTIFICATION AND PUBLIC OUTREACH**

The contractor shall keep the access open to all Pomona Unified Schools and including all other Business offices along project limits, the LA County Fire Department and Pomona Police Department at all times and coordinate his construction efforts with these entities and the City of Pomona.

A notice shall be prepared summarizing extraordinary impacts to specific residences and those stakeholders mentioned as required by the City Engineer. Full compensation for complying with the work contained in this section shall be included in this bid item and no additional compensation will be allowed therefore. Due to the schools on 9<sup>th</sup> Street, Franklin Avenue, and Grand Avenue, all work, within those impacted streets, paving operations within the school block shall be started and completed during the school's winter break during the December 18 through the 29<sup>th</sup> 2017 or outside these dates during the hours of 9 AM to 1 PM and 4 PM to 7 PM should inclement weather occur.

**F. MEASUREMENT & PAYMENT**

**Measurement & Payment for Mobilization (Bid Price Shall be 2% of the Total Base Bid)** shall be on a **lump sum (LS)** basis as defined in Section 9-3.4 of the standard specifications, including but not limited to all activities, equipment, supplies, materials, transportation, facilities, and cleanup, and the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for the work on this project; and for all other work and operations of the Contractor's forces which must be performed or cost incurred, without other pay items on the various contract items on the project site under the Contract. Payment shall be made as the work proceeds and shall constitute full compensation for the completion of the work. The total price for Mobilization shall be 2% of the total contract amount. No further compensation will be allowed separately from bid items.

**TRAFFIC CONTROL – BID ITEMS #A-2:**

**A. GENERAL REQUIREMENTS:**

It shall be the Contractor's responsibility to furnish detailed Traffic Detour and Control Plans for CITY approval. Traffic Detour and Control plans shall be prepared by a California registered Civil or Traffic Engineer and submitted for plan checking prior to the start of construction.

Said plan shall identify construction phasing, which shall not disrupt existing traffic circulation patterns. Delineation shall be in accordance with the latest version of the California Manual on Uniform Traffic Control Devices as approved by the City Traffic Engineer. No street closures shall be proposed or made without the prior approval of the ENGINEER and other agencies involved.

All work shall conform to the SSPWC and the "California Manual on Uniform Traffic Control Devices" (CA-MUTCD). Unless otherwise specified, this item shall include full compensation for street closures, detours, grading, restoration, signs, flagmen, barricades, flashers, temporary striping, removal and replacement of miscellaneous signs, fences and all appurtenances related to providing traffic control for the project.

No street or access closure to through traffic will be allowed to be proposed or implemented without the approval of the ENGINEER.

Electronic message signs (EMS) shall be provided on each roadway segment per section 7-10.1. A minimum of three EMS shall be in place one week prior to any roadway operation that will have impact on the street. EMS shall remain in place until the work is completed on the roadway segment. It shall be the contractor's responsibility to maintain, update and move the EMS as required and directed by the City.

The Contractor shall provide advance electronic message signs (EMS) for road closures requiring detours and for lane closures at appropriate locations prior to entering the detour or lane closure area in each affected direction. These signs are in addition to the advance notification EMSs discussed in the supplemental provision (Section 7-10.1).

Traffic control also includes all additional materials, equipment and labor to construct driveways one-half (1/2) at a time.

Steel plate covers shall be installed over all open trenches at the close of construction each day so that a minimum of one (1) travel lane in each direction can be maintained during non-construction hours. Recess (flush) installation of steel plates is required on all asphalt streets and ramping (1v:24h) with asphalt is required on all concrete streets.

Specialized traffic control will be required for this project, requirements are described in Section 7-10.

“No Parking” signs must be posted a minimum of 48 hours in advance, but not more than 72 hours prior to the period needing enforcement. Tow-away, No Parking signs must include:  
BY ORDER OF THE POLICE DEPT, C.V.C. 22651 (L) / 22658 (A)

All necessary temporary striping is included as part of the traffic control bid item.

**B. PHASING REQUIREMENTS:**

**General Traffic Control/Phasing Requirements:**

A minimum of one (1) travel lane of twelve (12) feet (minimum) in each direction shall be maintained on all paved streets within the construction zone at all times wherever possible. If one travel lane in each direction is not possible during construction, the Contractor shall follow the requirements stated in Section 7-10.1 which require flaggers and pilot cars for lane closures. Clearances from traffic lanes shall be five feet to the edge of any excavation and two feet to the face of any curb, pole, barricade, delineator, or other vertical obstruction. Access shall be provided to all intersecting local streets and driveways at all times. Utility adjustment and striping will be permitted during daylight hours. The Contractor shall submit a plan detailing the delineation and protective measures to be undertaken for CITY and other agencies' approval.

**Holiday Phasing Requirements:**

The Contractor will not be allowed to excavate and leave open any parkway or roadway improvements over any weekend or holiday. The Contractor shall schedule and phase the work accordingly to ensure that all initiated work is completed before the start of any weekend or holiday.

## **Street Specific Traffic Control/Phasing Requirements:**

### Penmar Lane: (At the West End)

- Road closures will not be allowed.
- Detailed traffic control plans shall not be required, but traffic control phasing, intent, and typical application details for each operation shall be submitted to the City for approval prior to implementation.

### **C. Measurement & Payment:**

**Measurement & Payment for Traffic Control** shall be on a **lump sum (LS)** basis and shall include compensation for all traffic control activities including but not limited to labor, materials, tools, equipment for temporary Asphalt Concrete, Cold and Hot Mix installation as well as the removal for all work involved in Traffic Control as specified, including preparation of Traffic Control Plans and obtaining CITY and other agencies plan review, approval and permits, install and maintain project signs, temporary construction signs, delineators, cones, flashing arrow signs, portable changeable message signs, street closures, detours, temporary striping, barricades, steel plates, one-half width at a time driveway construction, and other safety devices, as required for public safety in Section 7-10 "Public Convenience and Safety" of the Standard Specifications for Public Works Construction (SSPWC) and the Special Provisions or as directed by the Engineer. No separate payment will be made for traffic control, and no further compensation will be allowed therefore.

### **PUNCH LIST**

This item includes all labor, equipment and materials required to prepare, complete and restore all punch list items to the City's satisfaction. No partial payment will be allowed until all punch list items, restoration, clean up, demobilization, as-builts, operation and maintenance manuals/documents, and prevailing wage submittals are completed and provided to the City and accepted by the City Engineer.

Payment for punch list will be included in the various items of work and no additional payment will be made therefore.

### **CLEARING AND GRUBBING:**

Section 300-1, "Clearing and Grubbing," of the Standard Specifications is supplemented by the following:

Contractor shall field verify existing grades and shall accept site as is, for no other grading shall be performed by the CITY.

- 300-1.3 Removal and Disposal of Materials
- 300-1.3.1 General

All materials removed shall be disposed of in a legal manner at an appropriate Disposal Site.

- 300-1.3.2 Requirements

### A. Bituminous Pavement

Saw cutting of edges to be joined is required.

D. Miscellaneous

In addition to the work outlined in Section 300-1.1 of the Standard Specifications, the following items of work are included under Clearing & Grubbing unless otherwise covered by specific bid item.

1. Maintaining dust control at all times by watering during the entire time of the project, whether extended or not, including developing a water supply and furnishing and placing all water for all work done in the contract, including water used for extra work.
2. Application of soil sterilant.
3. Protection of utilities, structures, improvements and other facilities within the construction zone, except those specifically shown on the plans to be removed or relocated.
4. Removal and disposal of existing natural and artificial objectionable material within the limits of construction.
5. Verification of existing locations and elevations as shown on the plans or directed by the ENGINEER.
6. Replacement of disturbed traffic signs, street names, mailboxes, property owner signs, fences, landscaping, protection of temporary construction fences and all appurtenances, striping and markings as required to the satisfaction of the ENGINEER. Also, includes the installation of safe pedestrian pathway by installing orange netting or other approved method of safely directing pedestrians through a protected path.
7. Provide for the replacement of trees and plants, of the same kind, to the satisfaction of the property owners whether indicated on the plans or not.
8. This item shall also be interpreted to include the removal or relocation of any additional items in conflict with the proposed work not specifically mentioned herein or covered by specific bid item as directed in the field by the Engineer, which maybe found within the work limits whether shown or not shown on the plans to be removed or relocated.
9. All surplus material three (3) inches or smaller shall be uniformly spread and compacted in the street sub grade. No material greater than three (3) inches in any dimension shall be used in the top twelve (12) inches of the sub grade. No nesting of rocks shall be allowed.
10. Unclassified fill shall consist of all fill unless separately designated. Construction of unclassified fill included preparing the area on which fill is to be placed, and the depositing, conditioning, and compaction of fill material.
11. Complete all demolition and removal work associated with the removal of AC, underlying PCC, PCC curb/gutter, as designated on the drawings for removal, unless otherwise defined.
12. Any structural or non-structural demolition work involved for the construction of the project and Contractor shall be responsible for disposing in a legal manner.
13. Determining and maintaining a straight edge in areas where AC joins existing edge of pavement.

Payment for items 1 through 13 as described above shall include full compensation in furnishing all labor, materials, tools and equipment as specified, including saw-cutting, loading, hauling, stockpiling and disposal, shall be included in the various items of work for which Clearing and Grubbing is required, as directed by the Engineer, and no additional payment will be allowed therefore.

**UNCLASSIFIED EXCAVATION:**

Section 300-2, "Unclassified Excavation," of the Standard Specifications is supplemented by the following:

Unclassified excavation shall also include salvaging clean excavated material, filling areas to the required grade and cross-section, compacting fill material, and subgrade preparation, as directed by the Engineer.

300-2.2 Unsuitable Material

Bituminous Pavement and Concrete removals shall be saw-cut at the designated lines of removal shown on the Plans or as designated by the Engineer.

300-2.6 Surplus Material

All surplus materials shall be disposed of in a legal manner at the Contractor's expense.

This item shall be included in the various items of work, for which unclassified excavation is required, as directed by the Engineer. No further compensation will be allowed therefore.

**CONCRETE IMPROVEMENTS**

**C. GENERAL**

Section 302-6, "Portland Cement Concrete Pavement," and Section 303-5, "Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways," of the Standard Specifications are supplemented by the following:

Portland cement concrete improvements shall be constructed in accordance with the details shown on the Plans and the City of Pomona Standard Plans, included herein. Concrete shall be specified by class and shall be in conformance with Table 201-1.1.2(A), or as shown on the plans.

High-early strength concrete shall be used for bus pads, cross gutter, all driveways, and alley approaches to comply with the requirements in the latest SSPWC, Section 7-10 "Public Convenience and Safety." High-early strength concrete shall achieve a compressive strength of 2,000 p.s.i within 48 hours of pouring and at least 2,500 p.s.i. after 28 days.

It shall be the responsibility of the Contractor to protect wet concrete from graffiti. All newly poured concrete items observed to have graffiti markings left in the wet concrete or etched in the new surface prior to the acceptance of the project shall be removed and replaced by the contractor at no additional cost to the City.

All concrete removal and replacement work items shall be completed prior to grinding and paving any of the adjacent roadways.



When “slot paving” is required for concrete construction, as shown on the Plans, said paving shall be considered as included in the unit prices bid for the associated concrete improvements, and no additional payment will be made therefore. Slot paving shall consist of asphalt concrete (match existing section) on full depth 2-sack slurry mix where a sawcut is required in asphalt pavement, and as directed by the Engineer.

The Contractor shall remove and replace any new concrete work with graffiti markings and blemishes at no additional cost to the City.

For all concrete removals and replacements, the Contractor will not be allowed to excavate more locations than can be poured and completed by the end of the work week. All concrete removals shall be replaced by end the of the work week and completed in place unless authorized by the Engineer.

**D. SOIL STERILANT**

All concrete construction work items shall require the application of soil sterilant. The Work to be done hereunder consists of furnishing and applying soil sterilant in the locations where subgrade is exposed, and as directed by the Engineer. The sterilant shall be applied prior to constructing the concrete improvements and applied to a width of 1 foot adjacent to curbs, around pull boxes, light standards and where directed by the Engineer.

The sterilant material shall be a bromacil compound containing not less than 80 percent 5-bromo-3-sec-butyl-6 methyluracil mixed with water and a surfactant (wetting agent). The mixture composition shall be in the proportions of 6 pounds of bromacil compound and one gallon of surfactant to 100 gallons of water.

The sterilant shall be mixed on the Work site in the presence of the Engineer and shall be continuously agitated and applied with spray equipment having power agitators, spreader booms or bars and hand spray hoses such as to provide controlled, uniform applications.

Sterilant mixture, including water, shall be furnished and applied, under the direction of the Engineer, at a rate of 0.04 gallon per square yard.

Payment for soil sterilant will be included in the various items of work and no additional payment will be made therefore.

**CONSTRUCT 8” A.C. BERM – BID ITEM #A-3:**

This work shall consist of the construction of Asphalt Concrete Berm, using well graded crushed aggregate and asphalt cement, combined as hereinafter specified, placed and compacted on a prepared base, in conformity with lines, grade and cross-section as shown on the plans herein, at specified location or as directed by the Consultant.

A.C. Berm shall have a minimum finished depth of 8 inch as shown in the plan. The A.C. Berm needs to join new sidewalk shall be in-kind (surface texture, aggregate, finish, etc.) to the walkway removed or as directed by the Engineer’s representative.

All materials necessary for the construction of the works described herein shall be supplied by the Contractor.

The Asphalt Concrete mixture shall be B-PG 64-10 with a minimum asphalt binder of 5.8 percent. Prior to placement a tack coat shall be applied to the existing surface. Tack coat shall be at an approximate rate of 0.05 gallon per square yard or GRADE SS-1h EMULSIFIED Asphalt at an approximate rate of 0.05 to 0.10 gallon per square yard. The temperature of the mix at the time of the placement shall not be less than 250°F or more than 285° F. All extrudes and shoes shall be approved by the engineer.

**Measurement & Payment for Construct A.C. Berm** shall be on a **Linear Foot (LF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal and disposal of existing improvements and materials, construction of new sidewalk including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, construction of work item, adjustment of miscellaneous parkway items found within the limits of construction, finishing and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any planter areas, and shall only include the actual PCC surface area as measured in the plan view.

#### **CONSTRUCT PCC CULVERT DRAIN – BID ITEM # A-4:**

It shall be the contractor's responsibility to verify the configuration and limits of improvements required for the new Culvert drain. All sidewalk, curb and gutter, and associated existing improvements damaged as part of the parkway drain removal and replacement shall be replaced, in kind, as part of this work item.

**Measurement & Payment for Remove Existing & Install New Parkway Drain** shall be on an **Each Item (EA)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the removal of existing and construction of a new parkway drain, complete and operational, including connection to existing drainage facilities, aprons and curb and gutter as needed, steel face plate and anchors, slot paving as necessary for construction of a new under sidewalk drain, and removal/excavation, disposal, and hauling of existing under sidewalk drain and/or sidewalk/curb and gutter pan as directed by the Engineer. The price of this item shall also include any incidentals for doing the work involved in constructing the under sidewalk drain. No further compensation will be allowed therefore.

#### **GRADING – BID ITEM # A-5:**

Contractor shall remove all vegetative matter from the surface within the limits of grading. Removals shall include turf, shrubs, but not limited to it.

The contractor shall create a path that allows the water to flow to a proper drain toward Palomares Street.

**Measurement & Payment for The Grading of the Area** shall be on a **Cubic Yard (CY)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the grading area as shown on the plans, and as directed by the Engineer. No further compensation will be allowed therefore.

#### **CONSTRUCT A.C. SIDEWALK – BID ITEM #A-6:**

A.C. sidewalk shall be constructed to the line, grades and designs shown on the plans or as ordered by the Engineer. Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. Any and all gas or water meter boxes falling within the limits of sidewalk construction shall be

adjusted to the finished grade of the new sidewalk as part of this work item unless specifically called out as a separate work item on the plans.

Sidewalk score lines shall have a minimum finished depth of ½-inch. Walkway replacement needed to join new sidewalk shall be in-kind (surface texture, aggregate, finish, etc.) to the walkway removed or as directed by the Engineer's representative.

A sidewalk ½-inch radius edging tool is to be used to finish the edges of all curbs.

Limited infill and compaction of suitable base material will be required under certain portions of sidewalk. Contractor shall include the cost of material, labor and compaction of such material in the unit price per bid.

The contractor shall verify existing grades in order to ensure full ADA compliance

Any appurtenant PCC Improvement constructed as part of this project and not included with a unit price bid quote or otherwise covered for payment herein shall be paid at the unit price for Sidewalk per square foot prorated to reflect the true amount of PCC material being constructed, as approved by the Engineer's Representative. The prorated unit price bid for the appurtenant PCC improvement shall include all costs of subgrade preparation, and the excavation, furnishing and compacting of backfill material and no additional compensation will be allowed therefore.

**Measurement & Payment for Construct Sidewalk** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal and disposal of existing improvements and materials, construction of new sidewalk including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, construction of work item, adjustment of miscellaneous parkway items found within the limits of construction, finishing and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any planter areas, and shall only include the actual A.C. surface area as measured in the plan view.

### **CONSTRUCT CONCRETE SIDEWALK – BID ITEM #A-7:**

Concrete sidewalk shall be constructed to the line, grades and designs shown on the plans or as ordered by the Engineer. Existing surfaces to be joined shall be sawcut on a neat, straight line at the join location. Any and all gas or water meter boxes falling within the limits of sidewalk construction shall be adjusted to the finished grade of the new sidewalk as part of this work item unless specifically called out as a separate work item on the plans.

Sidewalk score lines shall have a minimum finished depth of ½-inch. Walkway replacement needed to join new sidewalk shall be in-kind (surface texture, aggregate, finish, etc.) to the walkway removed or as directed by the Engineer's representative.

A sidewalk ½-inch radius edging tool is to be used to finish the edges of all curbs.

Limited infill and compaction of suitable base material will be required under certain portions of sidewalk. Contractor shall include the cost of material, labor and compaction of such material in the unit price per bid.

The contractor shall verify existing grades in order to ensure full ADA compliance

Any appurtenant PCC Improvement constructed as part of this project and not included with a unit price bid quote or otherwise covered for payment herein shall be paid at the unit price for Sidewalk per square foot prorated to reflect the true amount of PCC material being constructed, as approved by the Engineer's Representative. The prorated unit price bid for the appurtenant PCC improvement shall include all costs of subgrade preparation, and the excavation, furnishing and compacting of backfill material and no additional compensation will be allowed therefore.

**Measurement & Payment for Construct Sidewalk** shall be on a **Square Foot (SF)** basis and shall include furnishing all labor, equipment, tools and materials necessary for the item of work including removal and disposal of existing improvements and materials, construction of new sidewalk including coordinating with the City Inspector to verify locations and limits, removals, preparation of subgrade, construction of work item, adjustment of miscellaneous parkway items found within the limits of construction, finishing and protection of the work item and no further compensation will be allowed therefore. Measurement of this bid item shall not include the area of any planter areas, and shall only include the actual PCC surface area as measured in the plan view.