

S-50

STANDARD SPECIAL PROVISIONS

It is the intent that these Standard Special Provisions are only a template or guide to be used for developing Special Provisions for a project. Each project will have unique items involved that will require possible deletion/modification of all or portions of these standard special provision items. These Standard Special Provision templates are not by themselves to be used as a basis of bid preparation.

The Standard Special Provision items included are those probably used more frequently in developing project documents. Unique items not included should be developed using the same format (description, measurement and payment paragraphs). Each Standard Special Provision item is to start at the top of a new page.

Also, attached is a bid proposal form with these items included to be used as a guide in developing a bid proposal form for a proposed project.

GENERAL

Clearing, Grubbing, Excavation, Grading and Removals  
Construction Coordination  
Storm Water Pollution Prevention Plan  
Traffic Control, Construction Area Signs, Postings and Notification  
Tree and Stump Removal  
Tree Root Trimming and Barrier

STREET SCAPE

Asphalt Concrete (Type B)  
Blue Retro-Reflective Markers  
Class 2 Aggregate Base  
Cold Plane A.C. Pavement  
P.C.C. Alley Way  
P.C.C. Driveway  
P.C.C. Curb and Gutter  
P.C.C. Curb Only  
P.C.C. Gutter Only  
P.C.C. Handicap Ramps  
P.C.C. Meandering Sidewalk  
P.C.C. Sidewalk  
P.C.C. Spandrel  
P.C.C. Parkway Removal  
P.C.C. Cross-Gutter

## STREET SCAPE (Cont'd)

Pavement Markings  
Raise Existing Utilities to Finish Grade  
Reclaim Existing A.C.  
Reflective Pavement Markers  
Replace Traffic Signal Loop Detectors  
Roadway Preparation  
Sawcutting  
Stamped P.C.C. Paving  
Street Light Conductor in Existing Conduit  
Street Light Conduit  
Street Light Pull Boxes  
Street Lights  
Traffic Stripes

## UTILITY

Fire Hydrant Assembly  
Pipeline Disinfection  
Pipeline Testing  
Placement and Backfill 10", 18", 20" PVC Pressure Pipe  
Placement and Backfill 6", 8", 12", 15" SDR 35 PVC S.S.  
Placement and Backfill of 18", 36" R.C.P. S.D.  
Pothole Existing Utilities  
S.D. Drop Inlet  
S.D. Manholes  
S.S. Clean Out  
S.S. Manholes  
S.S. Pipeline Cleaning, CCTV Inspection and Taping  
Sewer Lateral  
Trench Excavation and Shoring  
Water Service  
Waterline Lowering

## BID PROPOSAL FORM

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## **BID ITEM NO. XX – ASPHALT CONCRETE (TYPE B)**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

The asphalt concrete shall be Type B, mineral aggregate asphaltic concrete and is to be placed on the prepared and approved base in accordance with Section 39 of the Standard Specifications and The City's Standard Specifications. The aggregate size for base and finish courses shall comply with these plans and the City Standard Drawings and Specs. Mixed designs shall be submitted for approval of the City Engineer. Only approved designs shall be used in the work, and all asphaltic concrete shall be placed with a self-propelled paving machine.

Asphaltic paint binder is required to be applied on all vertical surfaces prior to asphalt paving commencement.

Contractor's attention is specifically directed to the provisions of Section 39, relating to spreading and rolling equipment, spreading temperatures and compaction. The finished A.C. shall have a relative compaction of 92% (minimum).

The thickness of asphalt concrete pavement shall be 2" or as otherwise shown in the plans. The thickness in the restored trench section shall match existing unless directed otherwise by the Engineer. If the existing exceeds 6" in depth, the Contractor shall notify the Engineer, and the Engineer can choose, at his option, to approve a 6" minimum section. In no situation shall the pavement in the restored trench section be less than 2".

If the finished surface of the asphalt concrete on the traffic lanes does not meet the specified surface tolerances, it shall be brought within tolerance by either (1) abrasive grinding (with fog seal coat on the areas which have been ground), (2) removal and replacement, or (3) placing an overlay of asphalt concrete. The method will be selected by the Engineer. The corrective work shall be at the Contractor's expense.

All utilities shall be successfully tested prior to A.C. paving.

### **2. MEASUREMENT**

The measurement for **BID ITEM NO. XX – ASPHALT CONCRETE (TYPE B)** pavement will be the number of tons of acceptably constructed Asphalt Concrete (Type B) as determined by certified weight tickets, California State Department of Agriculture, Division of Weights and Measures. Such certified weight tickets shall be delivered to the Engineer at time of delivery of asphalt concrete to the job site.

Payment will not be made for any materials for which weight tickets are not delivered as detailed above.

The amount of asphalt concrete (Type B) measured shall not exceed 12.5 pounds per square foot per inch of design thickness as shown on the plans and details, or as directed otherwise by the City Engineer.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – ASPHALT CONCRETE (TYPE B)** shall be at the contract price per ton for acceptably constructed Asphalt Concrete (Type B) in accordance with the Plans and Specifications and as adjusted in accordance with General Conditions 5.06 COMPENSATION ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS. Such payment shall include full compensation for all labor, materials, tools and equipment to construct this item of the work

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – BLUE RETRO-REFLECTIVE MARKERS**

### **1. DESCRIPTION**

This item includes the installation of new blue retro-reflective pavement markers as indicated on the plans and/or as specified herein to identify the location of City Fire Hydrants.

NOTE: This item includes the removal of all existing conflicting markings. The work includes but is not limited to the following:

- a. Installing blue retro-reflective markers.
- b. Surveying and layout.
- c. Removal of all existing conflicting markings (removal shall be by sand blasting or grinding).

### **2. MATERIALS**

Retro-reflective Pavement Markers shall comply with Section 85 of the Standard Specifications except that they shall be blue in color.

Installation: Installation of reflectorized pavement markers shall comply with Section 85-1.06 of the Standard Specifications.

Markers shall be installed after all paving operations are complete at locations that conform to City Standards. The pavement shall be clean and free of all dirt and dust. Binder shall be applied to completely cover the foot print of the marker. The orientation of the retro-reflective marker shall be such as to provide the maximum visibility. Loose, moving, sliding markers or markers that have been installed on binder that has not set within one hour shall be removed and replaced by the Contractor at the Contractor's expense.

### **3. MEASUREMENT**

The measurement of **BID ITEM NO. XX – BLUE RETRO-REFLECTIVE MARKERS** will be the number of acceptably furnished and installed new blue retro-reflector pavement markers in accordance with the Plans and Specifications. No payment will be made for replacement of markers damaged by the Contractor.

### **4. PAYMENT**

Payment for **BID ITEM NO. XX– BLUE RETRO-REFLECTIVE MARKERS** will be at the contract unit price for each acceptably furnished and installed retro blue retro-reflector pavement marker in accordance with the Plans and Specifications. Such payment shall be full compensation for furnishing all labor, materials, tools, equipment and incidentals required to complete this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – CLASS 2 AGGREGATE BASE**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

The Class 2 Aggregate Base material shall be placed on the finished subgrade of areas to be paved in accordance with Section 26, Class 2, 3/4" maximum, of the Standard Specifications and the City's Standard Specification. The Class 2 Aggregate Base shall have a relative compaction of not less than 95%, as determined by California Test Method No. 216 or calibrated nuclear density instrument.

No Class 2 Aggregate Base shall be placed on the subgrade until the subgrade has been approved by the City Engineer.

### **2. MEASUREMENT**

The measurement for **BID ITEM NO. XX – CLASS 2 AGGREGATE BASE** will be the number of tons of acceptably constructed Aggregate Base as determined by certified weight tickets, California State Department of Agriculture, Division of Weights and Measures. Such certified weight tickets shall be delivered to the Engineer at time of delivery of the aggregate to the job site. Payment will not be made for any materials for which weight tickets are not delivered as detailed above.

The measurement for **BID ITEM NO. XX – CLASS 2 AGGREGATE BASE** shall be reduced by the weight of moisture in excess of 8% of the dry weight of the base material.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – CLASS 2 AGGREGATE BASE** shall be at the contract price per ton for acceptably constructed Class 2 Aggregate Base in accordance with the Plans and Specifications. Such payment shall include full compensation for all labor, materials, tools and equipment to construct this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – CLEARING, GRUBBING, EXCAVATION, GRADING, AND REMOVALS**

### **1. DESCRIPTION**

This item includes the removal of all objectionable material and objects from within the existing right-of-way lines, and/or match lines outside the right-of-way as shown on the plans and disposal of said material off the job site and at a location acceptable to the City Engineer.

**NOTE: Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project.**

The Contractor shall completely video tape, on VHS format, the entire project reach including the top, bottom, access points, and slopes on both sides to document the conditions prior to construction. The Contractor shall supply two copies of this tape to the City. The City shall deliver a copy of the tape to the Santa Barbara County Flood Control District and Water Conservation District. The Santa Barbara County Flood Control District and Water Conservation District will **NOT** authorize the Contractor to proceed, in accordance with the Encroachment Permit, until the tape has been received *(If required)*.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Objectionable material shall include any excess excavation not required to make finish subgrade. (See note in this bid item.) Import of approved sub-grade materials is also included if required. The removal of Asphalt Concrete and Portland Cement Concrete is not included in the objectionable material to be removed, and shall be bid as a separate item *(If required)*.

Areas outside of the roadway prism to be graded shall be graded as shown on the plans. Excess material shall become the property of the Contractor (see note in this bid item). This work shall include the preservation, maintenance, and relocation or restoration of sprinklers, irrigation lines and landscaping, utility boxes, and all appurtenances, and every other related facility as now exists, which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their relocation, restoration, reconstruction, adjustment, etc., in like kind and to original conditions, is part of this bid item.

All removals from within right-of-way and required protection of facilities are included in this item regardless of method of relocations, disposal, etc.

Quantities used for the removal of A.C. or P.C.C., the construction of asphaltic concrete pavement, Portland Cement Concrete pavement, and miscellaneous minor concrete structures shall be reimbursed under the appropriate bid item when such an item exists (*if required*).

Miscellaneous work and materials shall be considered incidental to this bid item and no additional payment shall be made therefore.

## 2. MEASUREMENT

The quantity for payment of **BID ITEM NO. XX – CLEARING, GRUBBING, EXCAVATION, GRADING, AND REMOVALS** will be the complete and entire performance of all work necessary in accordance with the Plans and Specifications.

## 3. PAYMENT

Payment for **BID ITEM NO. XX – CLEARING, GRUBBING, EXCAVATION, GRADING, AND REMOVALS** will be at the contract lump sum price in accordance with the Plans and Specifications. Such payment shall include full compensation for all labor, materials, tools, and equipment to construct this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – COLD PLANE A.C. PAVEMENT**

### **1. DESCRIPTION**

This work includes the cold planing of asphalt concrete pavement to a depth of 0.15 feet at the location(s) as shown on the plans and at the thickness specified, in accordance with the applicable portions of Section 15 of the Caltrans Standard Specifications and as directed by the Engineer. Material generated from cold planing operations shall become the property of the Contractor and shall be disposed of outside of the highway right of way.

The cold planing machine shall have, in combination or separately, a means of grinding bituminous roadway surfaces without damaging the underlying surface and for blading the displaced materials into wind rows in one continuous forward motion.

The machine shall consist of a 36" minimum width-cutting drum with carbide tip teeth. The drum shall be totally enclosed in a shroud to prevent the discharge of loosened material into adjacent work areas.

A dust suppression system shall be required which contains two high-pressure spray bars with spiral nozzles and minimum storage capacity of 700 gallons.

The road surfacing to remain in place and adjacent highway facilities shall not be damaged in any way.

The depth, width and shape of the cut shall be as indicated on the Typical Sections, or as directed by the Engineer. The final cut shall result in a uniform surface conforming to the Typical Sections. The outside lines of the cold-planed area shall be neat and uniform.

The removal crew shall follow within 50' of the planer, unless otherwise directed by the Engineer.

Pavement sweeping shall be performed after the cold planing work. Pavement sweeping shall not lag more than thirty minutes behind the cold planing operation. All sweeping for cold planing work shall be done by the Contractor. All costs for sweeping shall be included under the cold planing bid item.

### **2. MEASUREMENT**

The measurement for **BID ITEM NO. XX – COLD PLANE A.C. PAVEMENT** will be per square yard when completed in compliance with the Plans and Specifications.

### 3. PAYMENT

Payment for **BID ITEM NO. XX – COLD PLANE A.C. PAVEMENT** will be at the contract unit price per square yard when completed in compliance with the Plans and Specifications. Such payment shall include full compensation for all tools, equipment, labor and incidentals required to complete this item of the work, including the appropriate disposal of grindings.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – CONSTRUCTION COORDINATION**

### **1. DESCRIPTION**

Contractor shall provide and perform the following at all job locations:

a. Mobilization

Contractor shall move in and set up all equipment, materials, etc. as necessary to complete all aspects of this project. This item also includes the cost of bonds & Insurance.

b. Public Safety

The Contractor shall concern himself with public safety at all times during the life of this contract. Work area shall be clearly identified. Public access through the project shall be by means of well-established and delineated corridors (see traffic control item). Materials shall be stockpiled in such a manner as to assure no hazard to the public. Tools and equipment shall be likewise kept locked and out of reach. Work area shall be kept free of garbage and other waste.

c. Construction Schedule

The Contractor is responsible for preparing, amending, implementing, and complying with a construction schedule for all work on this project. The initial schedule shall be submitted at the time of the award of the contract. The schedule shall be amended as necessary if progress varies significantly from the schedule and at a minimum, every four weeks.

d. Dust Control

The Contractor shall comply with all City and County requirements for dust control. Contractor shall provide adequate personnel and equipment as necessary to abate all dust, which results from either his operation or created by a portion of the work of this project. Dust control measures shall be in effect during the entire length of this contract including weekends and holidays. Contractor shall designate a contact person responsible for responding to any calls regarding dust issues and implementing dust control measures.

e. Soil Tracking

Contractor shall be responsible for controlling the tracking of soils and silts from the project. As with dust control, soil tracking measure shall be in effect during the entire length of this contract including weekends and holidays.

f. Construction Water

The Contractor is responsible for procuring his own source of construction water including any associated fees or expenses.

Several City of Santa Maria fire hydrants are located within the limits of the project. **The Contractor shall acquire a construction water meter from the City and will be charged for the water used.**

g. Construction Clean-Up

The Contractor is responsible for leaving the project areas in suitable condition for public use. It is imperative that all Contractor work, pavement, walkways, stockpile, storage, and equipment areas be completely clean and free of foreign material, gravel, aggregate base, broken asphalt, pipe, hardware, packing material, and concrete when the work is complete. All said material shall be picked up and removed from the site and not scattered. All removals from the site shall be done so in a legal manner. Contractor is responsible for all costs associated with loading, hauling, and dumping including any required permits, fees, etc. **Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project.**

h. Utility Coordination

The Contractor is responsible for all coordination effort with regards to utilities on the project including temporary service interruptions, tie-ins, etc. and scheduling the inspection of all Contractor work. The Contractor shall be responsible for any financial claims associated with missed inspections, repeat inspections, or any costs associated with re-working portions of the project due to failed inspections or lack of inspections based on the Contractors failure to schedule and follow through with same.

i. Miscellaneous

All items which are shown on the plans or identified in the specification or implied thereby, or incidental to any of the described items, even though not specifically called out in a particular item shall be included as part of this bid item.

**2. MEASUREMENT**

Measurement of this item shall be on a lump sum for acceptably performing all the work of **BID ITEM NO. XX – CONSTRUCTION COORDINATION** in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for this item shall be at the contract lump sum price for **BID ITEM NO. XX – CONSTRUCTION COORDINATION** acceptably performed in accordance with the Plans and Specifications. Such payment shall be full compensation for providing all labor, materials, tools, and equipment necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – FIRE HYDRANT ASSEMBLY**

### **1. DESCRIPTION**

- a) **FIRE HYDRANT ASSEMBLY:** The fire hydrant assembly shall be installed as shown on the plans and in accordance with the City Standard Drawing.

Fire hydrants shall be the “East Bay” California type as manufactured by Mueller Model No. A-450, Long Beach Iron Works Model 611 EB, Clow-Rich Model No. 5, AVK Wet Barrel Model No. 2470, Jones Model No. JJ4040 or approved equal with 6 bolt pattern only. The body shall be of cast iron, six inches (6”) in diameter and one 2-1/2” and one 4-1/2” NST outlets. The pipe between the fire hydrant and water main shall be at least six inches (6”) in diameter and shall have a valve conforming to section titled “Valves” as shown below. Fire hydrants shall be installed in accordance with the City Standards in relation to the height above and distance from the curb, and in accordance with the City Standard Drawing. Hydrants not installed behind vertical curbs shall be protected by the installation of a Standard Fire Hydrant Protection Assembly in compliance with the City Standard Drawing.

Fire hydrants shall be painted with two coats of “Fire Hydrant Green” (Frazee Paint ARO Plate), a special paint for fire hydrants.

The interior and exterior of cast iron buries are to be coated with petroleum asphaltic material in compliance with AWWA C110-87.

- b) **VALVES:** Resilient wedge gate valves shall be used for fire hydrants and fire systems.

A dechlorination device, such as H2O Neutralizer 3M CLA-SC or approved equal, shall be installed on the blowoffs.

- c) **PIPES:** Polyvinyl Chloride (PVC) pressure pipe shall conform to C900 American Water Works Association (AWWA) and be installed in accordance with the Plans and City Standard Drawings. PVC pressure pipe, AWWA C900 shall be of Class 150, DR 18, with a pressure rating of not less than 150 psi.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – FIRE HYDRANT ASSEMBLY** will be the number of fire hydrant assemblies acceptably furnished and installed in accordance with the Plans and Specifications.

### 3. PAYMENT

Payment for **BID ITEM NO. XX – FIRE HYDRANT ASSEMBLY** will be made at the contract unit bid price paid per each installation, and shall include all costs required to furnish and install the fire hydrant complete and in place. The contract unit price paid per each installation of fire hydrant assembly shall include the 6” polyvinyl chloride (PVC) pressure pipe installed between the water transmission main and the fire hydrant assembly, and all fittings and valves which consist of gate valves, butterfly valves, break off flanged spool, break off check valve, reducers, crosses, tees, caps, elbows, flanges, blowoffs, dechlorination device, flex adaptors, and transition coupling as shown on the plans and in accordance with the City Standard Drawing. Such payment shall include full compensation for all labor, materials, tools, and equipment for this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – P.C.C. ALLEY WAY**  
**BID ITEM NO. XX – P.C.C. DRIVEWAY**

**1. DESCRIPTION**

This item includes the furnishing of all tools, equipment, labor, and materials to accomplish the removal and replacement of the alley way and driveway.

Portland Cement Concrete Driveway and Alley Pavement shall be constructed on finished subgrade to the lines, grades, and dimensions as shown on the plans in compliance with City Standard Specification S-109 insofar it applies and Standard Drawing Nos. RD-12, RD-13, RD-29 and RD-30. Concrete used shall be Class "A" (6 sack) with lampblack (1½ lbs./c.y.).

Included is the finishing of subgrade which shall be compacted to 95% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

The compaction and finishing of alley paving subgrade is included in this item.

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.)**

A.C. removal up to one foot (1') from the edge of any concrete removals is included in this bid item. A.C. removed more than one foot (1') from the edge of concrete removals shall not be included in this bid item and shall be at the Contractor's expense, unless directed by the Engineer. This bid item includes replacement (patchback) of any removed A.C. to accommodate the installation of this concrete facility.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in kind and to original conditions, is part of this bid item. Miscellaneous work and materials shall be considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement join lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for this bid item.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. ALLEY WAY** and **BID ITEM NO. XX – P.C.C. DRIVEWAY** shall be the respective number of square feet of acceptably cleared, grubbed, excavated, graded, and removed and reconstructed driveways and alley pavement in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. ALLEY WAY** and **BID ITEM NO. XX – P.C.C. DRIVEWAY** will be at the contract price. Such payment shall constitute full compensation for all Labor, Materials, Tools and Equipment to completely construct this item of the work in accordance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NOS. XX AND XX \*\*\***

## BID ITEM NO. XX – P.C.C. CURB AND GUTTER

### 1. DESCRIPTION

This item includes the furnishing of all tools, equipment, labor, and materials to accomplish the removal and replacement of both regular curb and gutter and depressed curb and gutter.

#### CURB AND GUTTER

Portland Cement Concrete Curb and Gutter shall be constructed on finished subgrade to the lines, grades, and dimensions as shown on the plans and in compliance with City Standard Specification S-109 and Standard Drawing No. RD-11. Concrete used shall be Class "B" (5 1/2 sack) with integral color (1½ lbs./c.y.).

Included is the finishing of subgrade which shall be compacted to 95% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

#### DEPRESSED CURB AND GUTTER

Portland Cement Concrete, 6" Depressed Curb and Gutter and 8" Depressed Curb and Gutter shall be constructed on finished subgrade to the lines, grades, and dimensions as shown on the plans in compliance with City Standard Specification S-109 and as detailed on the plans. Concrete used shall be Class "B" (5 1/2 sack). Color shall match existing curb and gutter.

Included is the finishing of subgrade which shall be compacted to 95% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.)**

A.C. removal up to one foot (1') from the edge of any concrete removals is included in this bid item. A.C. removed more than one foot (1') from the edge of concrete removals shall not be included in this bid item and shall be at the Contractor's expense, unless directed by the Engineer. This bid item includes replacement (patchback) of any removed A.C. to accommodate the installation of this concrete facility.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in kind and to original conditions, is part of this bid item. Miscellaneous work and materials shall be considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement joint lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for this bid item.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

The work included in this bid item shall be completed in compliance with the details of Standard Specification S-87 and in accordance with the Contract Plans and Specifications of the City of Santa Maria, California.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. CURB AND GUTTER** shall be the number of linear feet of acceptably cleared, grubbed, excavated, graded, and removed and reconstructed curb and gutter with subgrade in accordance with the Plans and Specifications. Measurement shall be made at the face of curb. This item includes depressed curb and gutter.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. CURB AND GUTTER** will be at the contract unit price. Such shall constitute full compensation for all labor, materials tools and equipment to completely construct this item of the work in accordance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – P.C.C. CURB ONLY**  
**BID ITEM NO. XX – P.C.C. GUTTER ONLY**

**1. DESCRIPTION**

This item includes the furnishing of all tools, equipment, labor, and materials to accomplish the removal and replacement of the curb and/or regular or depressed gutter.

Portland Cement Concrete "Curb Only" and/or "Gutter Only" shall be constructed on finished subgrade to the lines, grades, and dimensions as shown on the plans in compliance with City Standard Specification S-109 and Standard Drawing No. RD-11. Concrete used shall be Class "B" (5 1/2 sack) with lamp black (1½ lbs./c.y.).

Included is the finishing of subgrade which shall be compacted to 95% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.)**

A.C. removal up to one foot (1') from the edge of any concrete removals is included in this bid item. A.C. removed more than one foot (1') from the edge of concrete removals shall not be included in this bid item and shall be at the Contractor's expense, unless directed by the Engineer. This bid item includes replacement (patchback) of any removed A.C. to accommodate the installation of this concrete facility.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in kind and to original conditions, is part of this bid item. Miscellaneous work and materials shall be

considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement joint lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for this bid item.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

The work included in this bid item shall be completed in compliance with the details of Standard Specification S-87 and in accordance with the Contract Plans and Specifications of the City of Santa Maria, California.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. CURB ONLY AND BID ITEM NO. XX – GUTTER ONLY** shall be the number of linear feet of acceptably cleared, grubbed, excavated, graded, and removed and reconstructed curb only with subgrade in accordance with the Plans and Specifications. Measurement shall be made at the face of curb.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. CURB ONLY AND BID ITEM NO. XX – GUTTER ONLY** will be at the contract price per lineal foot. Such payment shall constitute full compensation for all labor, materials, tools, and equipment to completely construct this item of the work in accordance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NOS. XX AND XX \*\*\***

## BID ITEM NO. XX – P.C.C. HANDICAP RAMPS

### 1. DESCRIPTION

This item includes the furnishing of all tools, equipment, labor, and materials to accomplish the removal and replacement or construction of handicap ramps.

Handicap Ramps shall be constructed as shown on the plans and Caltrans Standard Drawing A88 with truncated domes per City Standard RD-10. Concrete and subgrade for Handicap Ramps shall conform to City Specification S-109 for sidewalks. Handicap ramps include the installation of any curbing which is to be installed in conjunction with the Handicap Ramps. Handicap Ramps do not include the depressed portion of curb at the ramp entrance. Color shall match that of the existing site. This bid item includes ramps, truncated domes, sidewalk modifications and ramps, and curbs as required for existing grade.

The handicapped ramps are shown schematically on the drawings. Each location will require a custom ramp to conform to the available space. Contractor is required to lay out the ramp in accordance with ADA requirements and have the forms approved by the Engineer prior to pouring the ramps.

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.)**

A.C. removal up to one foot (1') from the edge of any concrete removals is included in this bid item. A.C. removed more than one foot (1') from the edge of concrete removals shall not be included in this bid item and shall be at the Contractor's expense, unless directed by the Engineer. This bid item includes replacement (patchback) of any removed A.C. to accommodate the installation of this concrete facility.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on

the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in kind and to original conditions, is part of this bid item. Miscellaneous work and materials shall be considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement joint lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for this bid item.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

The work included in this bid item shall be completed in compliance with the details of Standard Specification S-87 and in accordance with the Contract Plans and Specifications of the City of Santa Maria, California.

## **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. HANDICAP RAMPS** shall be the number of square feet of acceptably cleared, grubbed, excavated, graded, and removed and reconstructed handicap ramp within the scribed area of the Handicap Ramp in accordance with the Plans and Specifications, including ramped walks, landings, ramps, truncated domes and curbs.

3. **PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. HANDICAP RAMPS** will be at the contract price and shall constitute full compensation for furnishing all tools, labor, equipment, materials and incidentals for doing all work for constructing Handicap Ramps in compliance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – P.C.C. MEANDERING SIDEWALK**  
**BID ITEM NO. XX – P.C.C. SIDEWALK**

**1. DESCRIPTION**

This item includes the furnishing of all tools, equipment, labor, and materials to accomplish the removal and replacement of the meandering and standard sidewalk.

Portland Cement Concrete Sidewalk shall be constructed on finished subgrade to the lines, grades, and dimensions as shown on the plans in compliance with City Standard Specification S-109 and Standard Drawing NO. RD-11 and RD-14. Concrete used shall be Class "C" (5 sack) with lamp black (1½ lbs./c.y.).

Included is the finishing of subgrade which shall be compacted to 90% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

This is to emphasize that the marking and grooving shall be cut 2" deep with a pointed trowel before finishing ¼" deep with a double edge grooving tool to ensure a weakened plane in the concrete sidewalk. The marking and grooving pattern shall be varied in such a way to include marks off the corners of any tree wells or other items constructed within the sidewalk area. Uncontrolled cracking will not be acceptable. Sidewalk shall be sawcut to the nearest score mark, removed and reconstructed.

At locations called for on the plans and at locations where existing grade is equal to or greater than 1" above finish grade of new sidewalk, construct curb. Curbs shall be constructed monolithically with the sidewalk and curb shall be constructed outside of sidewalk width.

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.)**

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all

existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in kind and to original conditions, is part of this bid item. Miscellaneous work and materials shall be considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement join lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for this bid item.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

2. **MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. MEANDERING SIDEWALK** and **BID ITEM NO. XX – P.C.C. SIDEWALK** shall be the number of square feet of acceptably cleared, grubbed, excavated, graded, and removed and reconstructed sidewalk including curb in accordance with the Plans and Specifications.

3. **PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. MEANDERING SIDEWALK** and **BID ITEM NO. XX – P.C.C. SIDEWALK** will be at the contract price. Such payment shall constitute full compensation for all labor, materials, tools and equipment to completely construct this item of the work in accordance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NOS. XX AND XX \*\*\***

## BID ITEM NO. XX – P.C.C. PARKWAY REMOVAL

### 1. DESCRIPTION

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that dump fees will be charged at the City Landfill Site for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the contractor.)**

A.C. may be removed and included in payment quantities up to one foot (1') from the edge of any concrete removals. A.C. removed more than one foot (1') from the edge of concrete removals shall not be included in the measurement for payment and shall be at the contractor's expense, unless directed by the Engineer.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in like kind and to original conditions, is part of this bid item.

All removals from within the R/W and required protection of facilities are included in this item regardless of method of relocations, disposal, etc.

Quantities used for the construction of asphaltic concrete pavement, Portland cement concrete pavement, and miscellaneous minor concrete structures shall be reimbursed under the appropriate bid item when such an item exists. Miscellaneous work and materials shall be considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement joint lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for sawcutting under **BID ITEM NO. XX – SAWCUTTING** and no additional payment shall be made thereof.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

The work included in this bid item shall be completed in compliance with the details of Standard Specification S-87 and in accordance with the Contract Plans and Specifications of the City of Santa Maria, California.

P.C.C. Parkway Removal shall include the removal of concrete according to this specification as indicated above. The contractor shall install a 36"-48" wide strip of P.C.C. walkway from back of curb to edge of sidewalk installed in front of entrance to property (where occurs) per City sidewalk standards and as indicated by the City Engineer. Replace P.C.C. walkway only when existing walkway previously existed. Replace the remaining removed P.C.C. parkway area with fill dirt. Contact the Streets Maintenance Supervisor at (805) 925-0951 x229 for property owner notice.

## **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. PARKWAY REMOVAL** shall be the number of square feet (SF) of area acceptably cleared, grubbed, excavated, graded, and removed in accordance with the specifications and to the total and entire performance of all work required to complete this item at each site and to the satisfaction of the Engineer.

## **3. PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. PARKWAY REMOVAL** will be at the contract price per square foot (SF) for all sites and shall constitute full compensation for all labor, materials, tools, incidentals and equipment required to perform all work of this item in accordance with the specifications to the satisfaction of the Engineer.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – P.C.C. SPANDREL**  
**BID ITEM NO. XX – P.C.C. CROSS-GUTTER**

**1. DESCRIPTION**

This item includes the furnishing of all tools, equipment, labor, and materials to accomplish the removal and replacement of the spandrel and cross-gutter.

Portland Cement Concrete Cross Gutters and Spandrels shall be constructed on finished subgrade to the lines, grades, and dimensions as shown on the plans in compliance with City Standard Specification S-109 insofar it applies and Standard Drawing No. RD-18. Concrete used shall be Class "A" (6 sack) with lampblack (1½ lbs./c.y.).

Included is the finishing of subgrade which shall be compacted to 95% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

This item includes the removal of all objectionable material from within the existing right-of-way lines, and/or match lines outside the right-of-way and disposal of said material off the job site and at a location acceptable to the City Engineer. **(Bidders are advised that disposal fees will be charged at the City Landfill for any disposal of debris generated by this project. Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.)**

A.C removal up to one foot (1') from the edge of any concrete removals is included in this bid item. A.C. removed more than one foot (1') from the edge of concrete removals shall not be included in this bid item and shall be at the Contractor's expense, unless directed by the Engineer. This bid item includes replacement (patchback) of any removed A.C. to accommodate the installation of this concrete facility.

Existing structures to remain in service shall be protected and preserved and lowered or raised to finish grade and restored to service upon completion of the work. Import of approved subgrade materials is also included if required. Objectionable material shall include all existing P.C.C. sidewalks, curbs and/or gutters, roots, etc. so noted on the plans to be removed, as well as any excess excavation not required to make finish subgrade.

Items to be relocated and restored shall be removed, preserved and protected; and when specified, their location, restoration, reconstruction, adjustment, etc., in kind and to original conditions, is

part of this bid item. Miscellaneous work and materials shall be considered incidental to this bid item, and no additional payment for such work shall be made.

Existing pavement joint lines and all Portland cement concrete or asphaltic concrete to be partially removed shall be sawcut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than two (2") inches deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City. Full compensation for sawcutting shall be considered as included in the contract price paid for this bid item.

This item shall more specifically include the preservation, maintenance, and relocation or restoration of traffic signs, street signs, markers, sprinklers, irrigation lines, parkway sod and landscaping, utility boxes, and all appurtenances, mail boxes, driveways, fences, and every other related facility as now exists which is not abandoned or indicated for removal. Such devices shall be maintained, protected and kept in service at all times, and when necessary to relocate, shall be immediately transferred and re-established in their new location, as directed by the City, and without interruption in their function. These items shall be relocated or restored in a condition equal to or better than original.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – P.C.C. SPANDREL** and **BID ITEM NO. XX – P.C.C. CROSS-GUTTER** shall be the respective number of square feet of acceptably cleared, grubbed, excavated, graded, and removed and reconstructed spandrel and cross gutter in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – P.C.C. SPANDREL** and **BID ITEM NO. XX – P.C.C. CROSS-GUTTER** will be at the contract price. Such payment shall constitute full compensation for all Labor, Materials, Tools and Equipment to completely construct this item of the work in accordance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NOS. XX AND XX \*\*\***

## **BID ITEM NO. XX – PAVEMENT MARKINGS**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

This item includes pavement markings to match existing currently in place or as indicated on the plans. These items also include the removal of all existing conflicting markings. The work includes, but is not limited to the following:

- a. Painted or thermoplastic pavement markings.
- b. Surveying and layout.
- c. Removal of all existing conflicting markings (removal shall be by sand blasting or grinding).

**MATERIALS** - Painted pavement markings (2-coat) shall comply with Section 84-1 and 84-3 of the Standard Specifications.

Thermoplastic pavement markings shall comply with Section 84-2 of the Standard Specifications.

Installation: Installation of pavement markings shall comply with Section 84-3.05 of the Standard Specifications.

### **2. MEASUREMENT AND PAYMENT**

Payment for **BID ITEM NO. XX – PAVEMENT MARKINGS** will be the number of square feet and will be at the contract unit price for each square foot furnished and acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation for furnishing all labor, materials, tools, and equipment necessary to complete **BID ITEM NO. XX – PAVEMENT MARKINGS**.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – PIPELINE DISINFECTION**

### **1. DESCRIPTION**

Prior to the pressure testing, the water pipe line including all valves, fittings, hydrants, and other accessories shall be disinfected in accordance with AWWA Specification C651 which provides detailed specifications for limiting and flushing contaminated materials from entering the water mains during construction, disinfecting any residual contamination that may remain after flushing, and determining the bacteriologic quality of fresh water in the main after disinfection.

The pipeline shall be flushed with potable water after construction and prior to disinfection. The Contractor shall provide a sufficient number of suitable outlets to allow the pipeline to be adequately flushed with water at a velocity of at least 5.5 feet per second. Drainage facilities shall be constructed such that the water in the pipeline shall not be contaminated during flushing.

After flushing, chlorine gas or chlorine compound solution made with liquid chlorine, calcium hypochlorite in solution or sodium hypochlorite solution shall be water mixed and introduced into the pipeline to form a chlorine concentration of approximately 100 ppm or a minimum of 50 ppm in all parts of the line after 24 hours have elapsed.

After final flushing, bacteriologic samples of water for the specified bacteriologic test shall be taken from each end of the pipeline (located downstream of the point of introduction of chlorine disinfectant) and at other locations as determined by the Engineer. The results of the water samples shall be provided to the Contractor within 96 hours after samples are taken. If the bacteriologic tests show a coliform MPN/100ml water of 2.2 or less on all samples, the water facilities tested shall be considered clear. If the coliform number is above 2.2, the procedures shall be performed again within 24 hours of notification by the Engineer.

All sections of the pipeline shall be sealed at the end of each day's work with a positive water tight mechanical type end caps as Smith-Blair 602 or approved equal.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – PIPELINE DISINFECTION** shall be the complete and entire performance of all work necessary to perform the pipeline disinfection in accordance with the Specifications.

### **3. PAYMENT**

Payment of **BID ITEM NO. XX – PIPELINE DISINFECTION** shall be at the contract lump sum price when completed in compliance with the Specifications. Such payment shall include full compensation for all tools, equipment, labor, and incidentals required to perform the pipeline disinfection.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – PIPELINE TESTING**

### **1. DESCRIPTION**

After the water line pipe, including fittings has been placed and after the trench has been backfilled for any isolated section, the pipe line and all related valves and fittings shall be pressure tested by slowly filling with water. Rejected work shall be retested, and if still rejected, shall be repaired and replaced to the satisfaction of the Engineer.

Prior to filling the pipeline with water, all air shall be removed from the pipeline. After filling, the pipeline shall be subjected to a 225 psi and held within 10 psi of this pressure for at least 2 hours. After all visible leaks have been repaired to the satisfaction of the Engineer, a test for leakage shall be performed at 150 psi and held for 4 hours.

The test pressure of the filled pipeline shall be maintained through a 5/8" x 3/4" meter so that any leakage can be measured by the City's furnished meter provided for testing purposes.

Any cracked or defective pipeline, valves, blowoffs, hydrants, and all other fittings discovered during the testing shall be repaired and replaced to the satisfaction of the Engineer at the sole cost of the Contractor.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – PIPELINE TESTING** shall be the complete and entire performance of all work necessary to test the pipeline in accordance with the Specifications.

### **3. PAYMENT**

Payment of **BID ITEM NO. XX – PIPELINE TESTING** shall be at the contract lump sum price when completed in compliance with the Specifications. Such payment shall include full compensation for all tools, equipment, labor, and incidentals required to perform the testing.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – PLACEMENT AND BACKFILL 10" PVC PRESSURE PIPE**  
**BID ITEM NO. XX – PLACEMENT AND BACKFILL 18" PVC PRESSURE PIPE**  
**BID ITEM NO. XX – PLACEMENT AND BACKFILL 20" PVC PRESSURE PIPE**

**1. DESCRIPTION**

- a) **PIPE:** Polyvinyl Chloride (PVC) pressure pipe shall conform to C900 American Water Works Association (AWWA) and be installed in accordance with the Plans. PVC pressure pipe for sizes 18" and 20", AWWA C905, shall be DR 25 with a pressure rating (PR) of 165 psi. PVC pressure pipe for 10", AWWA C900 shall be of Class 150, DR 18, and withstand a working pressure of not less than 150 psi. PVC pressure pipe shall be as shown on the plans and as specified in these special provisions. The PVC pipe shall be connected by the use of couplings and rubber rings as provided by the manufacturer and shall comply with City Standard Specification S-75.

All changes of direction (at tees and bends), changes in size (as at reducers, some crosses and tees), and stops or dead ends shall be made with fittings as shown on the plans and secured by concrete thrust blocks. Thrust blocks shall rest against undisturbed earth in all locations and be of the size as shown on The City Standard Drawing. A polyvinyl chloride 6 mil membrane shall be used to separate concrete from the fitting.

- b) **FITTINGS AND VALVES:** All changes of PVC pipe shall be made with ductile iron fittings meeting AWWA Specification ANSI/AWWA C110 and/or C153 and shall comply with City Standard Specification S-75.

The number of valves required at a junction is the number as shown on the plans.

All valve sizes from 3" to 12" shall be resilient – seated gate valves, C509. All valves 14" and above shall be rubber-seated butterfly valves AWWA C504.

All valves shall have end flanges conforming to ANSI B16.1, Class 125 dimensions and drilling and shall meet all requirements of ANSI/AWWA Specification C509 and C504.

Each valve shall have a valve box, cover, and 8" diameter PVC-SDR 35 riser installed in accordance with The City Standard Drawing.

A dechlorination device, such as the H<sub>2</sub>O Neutralizer 3M CLA-SC or approved equal, shall be installed on the blowoffs.

- c) **TRENCH EXCAVATION:** The Contractor shall perform all saw cutting, asphalt and concrete removal and excavation necessary for the pipe installation as shown on the plans. Excavation shall include the removal of all water and materials of any nature which interfere with the construction work including sawcutting and removal of asphalt concrete.

Maximum trench width is as shown on the Standard Trench Repair, City Standard Drawing and as shown on the plans.

All excavated material unsuitable for trench backfill and excess excavated material shall become the property of the Contractor and shall be disposed of by him away from the site of work. All costs involved for trench excavation and disposal of excess excavated material and excavated material unsuitable for trench backfill shall be included in the contract unit bid price paid per linear foot of polyvinyl chloride pressure pipe.

- d) **BACKFILL AND COMPACTION:** Backfill of all trenching shall comply with Section 19 of the Standard Specifications and City Standard Drawing. If the backfill is within an existing or future roadway, backfill material must have a sand equivalent of 20, or qualifying material shall be imported. Backfill shall be placed in eight-inch (8") layers, compacted to ninety-five percent (95) minimum relative compaction in uniform horizontal layers. If the backfill is not within an existing or future roadway or paved area, the optional method of Section 19-3.06 may be utilized.
- e) All waterlines shall be successfully tested prior to A.C. paving.

## 2. MEASUREMENT

Measurement for **BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 10" PVC PRESSURE PIPE, BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 18" PVC PRESSURE PIPE, and BID ITEM NO. XX – PLACEMENT AND BACKFILL 20" PVC PRESSURE PIPE** will be the number of linear feet of pipe acceptably furnished, installed and backfilled in accordance with the Plans and Specifications.

## 3. PAYMENT

Payment for **BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 10" PVC PRESSURE PIPE, BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 18" PVC PRESSURE PIPE, and BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 20" PVC PRESSURE PIPE** will be made at the contract unit bid price paid per linear foot of polyvinyl chloride

pressure pipe, and shall include all costs required to furnish and install the pipe complete and in place. The contract unit price paid per linear foot of polyvinyl chloride pressure pipe shall include all fittings and valves which consist of gate valves, butterfly valves, reducers, crosses, tees, caps, elbows, flanges, flex adaptors, transition couplings, blowoffs, dechlorination devices, air relief valves, and all other fittings installed along the length of pipe, in accordance with the Plans and Specifications. Such payment shall include all trench excavation, sawcutting, asphalt and concrete removal, pipe installation, bedding and backfill and shall be considered full compensation, and no additional payment shall be made therefore.

**\*\*\* END OF BID ITEM NOS. XX, XX, & XX \*\*\***

- Notes:
1. The way this bid item is worded, trench excavation & shoring is included.
  2. The way this bid item is worded, bid items for “Testing Pipeline” and “Pipeline Disinfection” must be included in Bid Proposal/Special Provisions.

**BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 6” SDR35 PVC S.S.**  
**BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 8” SDR35 PVC S.S.**  
**BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 12” SDR35 PVC S.S.**  
**BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 15” SDR35 PVC S.S.**

**1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications. Plastic pipe shall conform to the provisions in S-82 STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF SEWER PIPE LINES IN THE CITY OF SANTA MARIA, CALIFORNIA, of these Contract Documents and Specifications and these special provisions. The Contractor shall use SDR35 PVC Sewer pipe for sewer main installation. Gaskets and lubricants used shall not be adversely affected by compounds typically found in domestic wastewater systems.

The Contractor shall test the sewer installation as specified in S-82 STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF SEWER PIPE LINES IN THE CITY OF SANTA MARIA, CALIFORNIA, and in compliance with the recommendations of the pipe manufacturer. Green sewer identification tape shall be placed along the pipe alignment at the top of the pipe zone fill material.

Trench excavation and backfill shall conform to the typical sections as shown on the plans and in accordance with the standard details of the City of Santa Maria and these special provisions.

The Contractor shall protect in place existing utilities and other public infrastructure facilities that cross or parallel the proposed sewer main installation. All reconnection of laterals as shown on the plans is also included within this bid item. Full compensation for protecting existing utilities and other public infrastructure facilities and reconnection of laterals shall be considered as included in the contract unit price paid various items in this bid and no additional compensation will be allowed therefore.

Prior to the acceptance of any new PVC sewer pipe installed by this contract, the Contractor shall provide VHS videotape inspection records to the Engineer of the new sewer pipe. The Contractor shall verify that the installation is in conformance with the drawings and specifications prior to acceptance.

Trench surface excavation and restoration within paved areas shall conform to the provisions in these special provisions, City Standard Details and the plans.

This bid item shall include the cost of compaction testing assuming one (1) test at intervals no less than 200' apart.

**QUALITY CONTROL** – The Contractor shall furnish the following Submittal in accordance with “Shop Drawings and Submittals” of these special provisions: The PVC manufacturer’s specifications data, technical data, and product data for the PVC Pipe.

## **2. MEASUREMENT AND PAYMENT**

Measurement and payment for **BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 6” SDR35 PVC S.S., BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 8” SDR35 PVC S.S., BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 12” SDR35 PVC S.S., AND BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 15” SDR35 PVC S.S.** shall conform to the provisions in Sections 64-1.08, "Measurement," and 64-1.09, "Payment," of the Standard Specifications and these special provisions. Full compensation for **BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 6” SDR35 PVC S.S., BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 8” SDR35 PVC S.S., BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 12” SDR35 PVC S.S., AND BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 15” SDR35 PVC S.S.,** where required, shall be considered as included in the contract price paid per foot for Sewer Main and no separate payment will be made therefore.

**\*\*\* END OF BID ITEM NOS. XX, XX, & XX \*\*\***

NOTE: The way this bid item is worded, bid item for “Trench Excavation and Shoring” must be included in Bid Proposal/Special Provisions.

**BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 18” RCP S.D.**  
**BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 36” RCP S.D.**

**1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications. RCP shall conform to the provisions in S-85 STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF STORM DRAINAGE PIPELINES IN THE CITY OF SANTA MARIA, CALIFORNIA, of these Contract Documents and Specifications and these special provisions. The Contractor shall use reinforced concrete pipe (RCP) minimum Class III, manufactured in accordance with the requirements of Section 65, Reinforced Concrete Pipe, of the Standard Specifications of the State of California. RCP shall be wet-cast, spun pipe, or machine-made pipe, per APWA Standard Specifications Section 207. Reinforced Concrete Pipe Joints shall be rubber-gasketed joints conforming to Section 208 of the APWA Standard Specifications for Public Works Construction.

Trench backfill shall conform to the typical sections as shown on the plans and in accordance with the standard details of the City of Santa Maria and these special provisions.

The Contractor shall protect in place existing utilities and other public infrastructure facilities that cross or parallel the proposed storm drain installation. Full compensation for protecting existing utilities and other public infrastructure facilities shall be considered as included in the contract unit price paid various items in this bid and no additional compensation will be allowed therefore.

Trench surface restoration within paved areas shall conform to the provisions in these special provisions, City Standard Details and the plans.

This bid item shall include the cost of compaction testing assuming one (1) test at intervals no less than 200' apart.

**QUALITY CONTROL** – The Contractor shall furnish the following Submittal in accordance with “Shop Drawings and Submittals” of these special provisions: The RCP manufacturer’s specifications data, technical data, and product data for the RCP Pipe.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 18” RCP S.D., 36” RCP S.D.**, will be the number of lineal feet as measured, in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – PLACEMENT AND BACKFILL OF 18” RCP S.D., 36” RCP S.D.**, will be made at the contract unit price per lineal foot, as measured above, in accordance with the Plans and Specifications. This payment shall be full compensation for furnishing all labor, materials, tools, equipment, incidentals, and the performance of all work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

Note: The way this bid item is worded, bid item for “Trench Excavation & Shoring” must be included in Bid Proposal/Special Provisions.

## **BID ITEM NO. XX – POTHOLE EXISTING UTILITIES**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

Potholing shall be accomplished using a vacuum excavator unit consisting of a vacuum tank unit used in conjunction with water jetting apparatus. Alternate methods may be desirable to locate sewer laterals in the street but must be approved by the Engineer. Pothole as required the existing utilities and structures in close proximity to or in potential conflict of the placement of the new pipe as shown on the project plans. Pothole at sewer crossings with other utilities; potholing existing sewer laterals to verify horizontal and vertical locations prior to beginning construction, backfilling excavations, backfill compaction, and resurfacing, complete. Verify installation of the new **sewer mains** (item applicable) can be installed in accordance with the Plans and Specifications.

This shall be included as a part of the Contractor's first order of work. If any of the existing utilities are found to be in conflict, the Contractor may be ordered to temporarily suspend work. The Contractor will be compensated for any such temporary suspension of work as described in Section 8-1.09, "Right of Way Delays," of the Standard Specifications. Potholing shall be coordinated with the City of Santa Maria.

Attention is directed to Section 7-1.11 "Preservation of Property, and Section 7-1.12 "Responsibility for Damage." The Contractor shall protect from damage existing utilities and other facilities that are to remain in place.

### **2. MEASUREMENT**

The measurement for **BID ITEM NO. XX – POTHOLE EXISTING UTILITIES** will be at the contract lump sum price when completed in accordance with the Plans and Specifications.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – POTHOLE EXISTING UTILITIES** shall be at the contract lump sum price for acceptably performed all work described above and in accordance with the Plans and Specifications. Such payment shall be full compensation for providing all labor, equipment, tools and materials required to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – RAISE EXISTING UTILITIES TO FINISH GRADE**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to **BID ITEM NO. XX – RAISE EXISTING UTILITIES TO FINISH GRADE** within the limits designated on the plans pursuant to the plans, City's Standard Drawings & Specifications or as required by the Engineer. This includes but is not limited to water valves, sanitary sewer and storm drain manholes, sanitary sewer clean outs, survey monuments, etc. as shown on the plans.

All water valve boxes to be adjusted to finish grade shall have a minimum 8" riser. Any water valve boxes with less than an 8" riser shall be replaced with 8" PVC pipe before raising to finish grade.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – RAISE EXISTING UTILITIES TO FINISH GRADE** shall be measured as units ("Each") performed in accordance with the Plans and Specifications.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – RAISE EXISTING UTILITIES TO FINISH GRADE** shall be at the contract unit price where specified on the plans or as directed by the Engineer and work acceptably performed in accordance with the Plans and Specifications. Such payment shall be full compensation for providing all labor, materials, tools, equipment, and incidentals necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – RECLAIM EXISTING A.C.**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications. Reclaim existing A.C. consists of pulverizing, reclaiming or grinding the existing A.C. pavement, within the area designated on the Street Improvement Plans to be reconstructed, with an approved “reclaimer”, “grinder” or other approved machine until the maximum dimension of the pulverized A.C. does not exceed 1-1/2”. Once this pulverizing operation is complete, and thoroughly mixed with the existing base/subgrade to a depth of 8”, the pulverized AC/existing base is to be shaped and compacted in accordance with provisions in Section 26, "Aggregate Bases," of the Standard Specifications and these special provisions. Remove all excess material. See **BID ITEM NO. XX – CLASS 2 AGGREGATE BASE** course for import of additional base course material to meet plan and profile requirements of the new street section in accordance with the plans.

Under this bid item, existing structures to remain in service shall be protected and preserved, and lowered or raised to finished grade, and restored to service upon completion of the work. See **BID ITEM NO. XX – RAISE EXISTING UTILITIES TO FINISH GRADE**.

Work shall be constructed to the lines, grades, and dimensions as shown on the plans in compliance with City Standard Specification S-87, as applicable.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX - RECLAIM EXISTING A.C.** shall be the number of square feet of as measured in the field performed in accordance with the Plans and Specifications.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – RECLAIM EXISTING A.C.** shall be at the contract unit price per square foot for work acceptably performed in accordance with the Plans and Specifications. Such payment shall be full compensation for providing all labor, materials, tools, and equipment necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – REFLECTIVE PAVEMENT MARKERS**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

Reflective Pavement Markers: Bi-directional pavement markers, 4" x 4" x 3/4" high, single-color, conforming to State of California and Federal specifications; Stimsonite 88 Reflective Pavement Markers, Model V16C-88AY Yellow, distributed by Hawkins Traffic Safety Supply Division of Hawkins-Hawkins Company, Inc. or equal.

Pavement Markers: Secure in accordance with manufacturer's recommendations.

### **2. MEASUREMENT AND PAYMENT**

Full compensation for furnishing and placing **BID ITEM NO. XX – REFLECTIVE PAVEMENT MARKERS** will be at the contract unit price for each item when acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation for furnishing all labor, materials, tools and equipment required to complete **BID ITEM NO. XX – REFLECTIVE PAVEMENT MARKERS**.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – REPLACE TRAFFIC SIGNAL LOOP DETECTORS**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

Roadway reconstruction requires the removal of existing traffic signal detector loops. Traffic signal detector loops shall be Type C. The loops shall be replaced entirely in compliance with Section 86-5.01A of the Standard Specification and Caltrans Drawing No. ES-5B.

### **2. MEASUREMENT AND PAYMENT**

Measurement for the **BID ITEM NO. XX – REPLACE TRAFFIC SIGNAL LOOP DETECTORS** will be the total and entire performance of all work required to provide and install each detector loop in compliance with the Plans and Specifications. Payment for the **BID ITEM NO. XX – REPLACE TRAFFIC SIGNAL LOOP DETECTORS** will be at the contract unit price for the item when acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation for furnishing all labor, materials, tools and equipment required to complete this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – ROADWAY PREPARATION**

### **1. DESCRIPTION**

The subgrade area or the area between gutters, headers, and join or match lines shall be brought to the lines and grades required by the plans and as directed by the Engineer. Work of this item shall comply with all requirements of the Standard Specifications for subgrade, as defined under Section 19-1.03, 19-5.02 and 19-6.02 and City of Santa Maria Standard Specification S-87.

**Note: Water for this project shall be metered at the nearest feasible fire hydrant to construction and charged to the Contractor.**

There is no designated contract item for applying water, and as no separate or additional payment shall be made, the Contractor must charge this item where appropriate, as incidental to other work.

Relative compaction to be 95% as measured by California Test Method No. 216 or by calibrated nuclear density instrument.

### **2. MEASUREMENT**

The quantity measurement for **BID ITEM NO. XX – ROADWAY PREPARATION** will be the number of square feet of roadway to be paved between edges of gutter, headers, and join or match lines in a horizontal plane which is acceptably constructed in accordance with the Plans and Specifications.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – ROADWAY PREPARATION** will be at the contract unit price per square foot and shall include full compensation for all materials, labor, tools and equipment to acceptably construct this item in accordance with the Plans and Specifications.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – S.D. DROP INLET**

**1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to install new STORM DRAIN DROP INLET per the plans, these specifications, and City of Santa Maria Standard Dwgs.

This work shall conform to the requirements and provisions as shown on the plans in S-85 STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF STORM DRAINAGE PIPELINES IN THE CITY OF SANTA MARIA, CALIFORNIA, of these Contract Documents and Specifications, and these special provisions. Portland cement concrete structures shall conform to Minor Concrete as specified in Section 51 and Section 90 of the Standard Specifications. Concrete structures for this project include the drop inlets and collars per the plans, these specifications, and City of Santa Maria Standard Drawings.

**QUALITY CONTROL** – The Contractor shall furnish the following Submittal in accordance with “Shop Drawings and Submittals” of these special provisions: Portland Concrete mix design, rebar.

**2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – S.D. DROP INLET** will be made per each inlet, installed in accordance with the Plans and Specifications.

**3. PAYMENT**

The contract unit price paid for **BID ITEM NO. XX – S.D. DROP INLET** shall include full compensation for furnishing all labor, materials, tools, and equipment necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – S.D. MANHOLES**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications and the City's Standard Drawings and Specifications.

This work shall conform to the requirements and provisions as shown on the plans, and in THE STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF STORM DRAINAGE PIPELINES IN THE CITY OF SANTA MARIA, CALIFORNIA, of these Contract Documents and Specifications, and these special provisions. Portland cement concrete structures shall conform to Minor Concrete as specified in Section 51 and Section 90 of the Standard Specifications. Concrete structures for this project include the storm drain manhole base and collars per the standard drawing.

**QUALITY CONTROL** – The Contractor shall furnish the following Submittal in accordance with “Shop Drawings and Submittals” of these special provisions: precast manhole manufacturer specifications data, technical data, and product data; and concrete mix.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – S.D. MANHOLES** will be made per each manhole, installed in accordance with the Plans and Specifications.

### **3. PAYMENT**

The contract unit price paid for **BID ITEM NO. XX – S.D. MANHOLES** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – S.S. CLEAN-OUT**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to install sanitary sewer clean-outs per the plans and City of Santa Maria Standard Drawing.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – S.S. CLEAN-OUT** will be made per each clean-out installed, including connection to sewer line, grade rings, pavement replacement, and any additional work or materials required in accordance with the Plans and Specifications.

### **3. PAYMENT**

Payment for the **BID ITEM NO. XX – S.S. CLEAN-OUT** will be made at the unit price per clean-out installed in accordance with the Plans and Specifications. This payment shall be full compensation for furnishing all labor, materials, tools, and equipment necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – S.S. MANHOLES**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications and the City's Standard Drawings and Specifications.

This work shall conform to the requirements and provisions as shown on the plans, and in THE STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF SEWER PIPE LINES IN THE CITY OF SANTA MARIA, CALIFORNIA, of these Contract Documents and Specifications, and these special provisions. Portland cement concrete structures shall conform to Minor Concrete as specified in Section 51 and Section 90 of the Standard Specifications. Concrete structures for this project include the sanitary sewer manhole base and collars per the Standard Drawing.

**QUALITY CONTROL** – The Contractor shall furnish the following Submittal in accordance with “Shop Drawings and Submittals” of these special provisions: precast manhole manufacturer specifications data, technical data, and product data; and concrete mix.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – S.S. MANHOLES** will be made per each manhole, installed in accordance with the Plans and Specifications.

### **3. PAYMENT**

The contract unit price paid for **BID ITEM NO. XX – S.S. MANHOLES** shall include full compensation for furnishing all labor, materials, tools, and necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – S.S. PIPELINE CLEANING, CCTV INSPECTION AND TAPING**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

**Video Inspection:** Introduce water into the upstream end of the pipe for the required length of time such that the water flow leaving the pipe at the downstream end equals the flow entering the upstream end of the pipe. Discontinue water flow and perform a videotaped inspection of the pipe in VHS format. Pipe will be considered acceptable when the video camera records no ponding of water (except in joint recesses) within the pipe, no breaks in the pipe and no openings or breaks at the joints, and the pipe is clean and free of dirt and debris. Remove and replace, or readjust to grade, any pipe failing to meet the acceptable video requirements. At the completion of video inspection, one copy of the tapes shall be turned over to the Engineer.

A video tape record shall be created and delivered to the Engineer along with video logs created by the video technician. Both the video and the video logs shall reference views/comments by length from entry manhole.

### **2. MEASUREMENT & PAYMENT**

Measurement and payment for **BID ITEM NO. XX – S.S. PIPELINE CLEANING, CCTV INSPECTION AND TAPING** shall be paid per lineal foot for that bid item. Work that is deemed incomplete or substandard shall be corrected and video inspected again at the Contractor's expense prior to acceptance of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – SAWCUTTING**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

All Portland Cement Concrete or Asphaltic Concrete to be partially removed shall be saw cut to a depth sufficient to assure even and uniform breaking of the surface, but in no case less than 2" deep. Sawcut edges damaged during the progress of construction shall be re-cut to provide a straight and even line, at no additional cost to the City.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – SAWCUTTING** will be the number of lineal feet of initial saw cutting, as measured in the field, when acceptably cut in accordance with the Plans and Specifications. All edges broken prior to paving or reconstruction shall be re-cut at no additional cost to the City.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – SAWCUTTING** will be made at the contract unit price per lineal foot of cut, as measured above, and to the satisfaction of the Engineer. This payment shall be full compensation for furnishing all labor, materials, tools, equipment, incidentals, and the performance of all work in accordance with the intent of this section and the Plans and Specifications.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – SEWER LATERAL**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

This work shall conform to requirements and provisions as shown on the plans and in the STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF SEWER PIPE LINES IN THE CITY OF SANTA MARIA, CALIFORNIA, these Contract Documents and Specifications, and these special provisions.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – SEWER LATERAL** will be made per each lateral, installed in accordance with the Plans and Specifications.

### **3. PAYMENT**

The contract unit price paid for **BID ITEM NO. XX – SEWER LATERAL** shall include full compensation for furnishing all labor, materials, tools, and necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – STAMPED P.C.C. PAVING**

**1. DESCRIPTION**

This item shall consist of furnishing and placing stamped concrete where shown on the plans.

Stamped concrete shall conform to the provisions in Section 51, “Concrete Structures,” Section 52, Reinforcement,” Section 73, “Concrete Curbs and Sidewalks,” and of the Standard Specifications and these special provisions.

Aggregate for stamped concrete shall conform to the grading specified for fine aggregate in ASTM Designation C 33-03 and as follows:

Sieve Sizes	Percentage Passing
3/8”	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	5-30
No. 100	0-10

Aggregate for grout shall conform to the following grading:

Sieve Sizes	Percentage Passing
No. 4	100
No. 8	90-100
No. 16	60-100
No. 30	35-70
No. 50	15-35
No. 100	2-15

The stamped concrete color shall be “red”, and the pattern shall be “cobblestone”.

A sample of sufficient size, of median paving to demonstrate the red cobblestone pattern, curing and finishing compounds, shall be submitted to the City Engineer for written approval.

Red cobblestone pattern shall not be placed on the project prior to the City Engineer approve the samples prepared and submitted by the Contractor. In the event that more than one sample of red cobblestone pattern to be placed, is required by the City Engineer, each additional sample will be paid for as extra work as provided in Section 4-1.03D of the Caltrans Standard Specifications.

The color shall be integrally mixed into the concrete using two pounds of coloring agent per bag of cement.

Included is the finishing of subgrade which shall be compacted to 90% relative compaction as determined by California Test Method No. 216 or by calibrated nuclear density instrument.

The colored concrete shall be placed at the locations shown on the plans, struck off and compacted until a layer of mortar is brought to the surface. The concrete shall be screeded to the required grade and cross section and floated to a uniform surface.

The forming tools for the cobblestone shall be applied to form the patterned surfaces while the concrete is still in the plastic stage of set.

Red cobblestone pattern areas shall be cured by the curing compound method. The curing compound shall be in compliance with Standard Specifications S-109.

Transverse weaken plane joints shall be constructed in the concrete every 10 feet and coincide with the weaken plane joint in adjacent curb. Joints shall be ¼ inch wide by 1¼ inches deep. No low points or places or ponding water will be allowed.

One half inch pre-molded expansion joints shall be placed at locations to coincide with expansion joints in the adjacent curb.

## 2. MEASUREMENT

Measurement of **BID ITEM NO. XX – STAMPED P.C.C. PAVING** shall be by the number of square foot as determined from the horizontal measurements of the finished stamped concrete, acceptably constructed in accordance with the Plans and Specifications.

## 3. PAYMENT

Payment for **BID ITEM NO. XX – STAMPED P.C.C. PAVING** shall be at the contract unit price and shall include full compensation for all labor, materials, tools, equipment and incidentals and for doing all work involved in constructing red cobblestone pattern, including coloring and stamping complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the City Engineer.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

***(More complicated project)***

**BID ITEM NO. XX – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**

**1. DESCRIPTION**

The Contractor shall be required to prepare a Storm Water Pollution Prevention Plan (SWPPP) that will be submitted to the City Engineer and subject to review and comment by City of Santa Maria. The Contractor shall comply with Caltrans Standard Specifications and these special provisions.

The Contractor shall be responsible for the costs and for liabilities imposed by law as a result of the Contractor's failure to comply with the provisions set forth in this section including but not limited to compliance with the applicable provisions of Caltrans Standard Specifications, the Permit, Federal, and local regulations. Costs and liabilities include but are not limited to fines, penalties, and damages whether assessed against the City or the Contractor.

At reasonable times and upon presentation of credentials and other documents as may be required by law, the Contractor shall allow authorized agent of the California Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency and the local storm water management agency to:

1. Enter upon the construction site and the Contractor's facilities pertinent to the work;
2. Have access to and copy records that must be kept as specified in the Permit;
3. Inspect the construction site and sediment control measures; and
4. Sample or monitor for the purpose of ensuring compliance with the Permit.

The Contractor shall notify the City Engineer immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, access the project site or Contractor's record.

Within 30 days after the approval of the contract, The Contractor shall submit three (3) copies of the SWPPP to the City Engineer. The City Engineer will have 15 days to review the SWPPP. If revisions are required, as determined by the City Engineer, the Contractor shall revise and resubmit the SWPPP within 15 days of receipt of comments. The City Engineer will have 15 days to review the revisions. Upon approval of the SWPPP, three (3) additional copies of the SWPPP, incorporating the required changes shall be submitted to the City Engineer. In order to allow

construction activities to proceed, the City Engineer may conditionally approve the SWPPP while minor revisions are being completed.

The wet season is hereby defined as the period between October 1<sup>st</sup> and April 30<sup>th</sup>. Any works impacting the channel is prohibited during the wet season.

The Contractor shall amend the SWPPP, graphically and in narrative form, whenever there is a change in construction activities or operations which may affect the discharge of significant quantities of pollutants to surface waters, ground waters, municipal storm drain systems or when deemed necessary by the City Engineer. The SWPPP shall be amended if the SWPPP is in violation of any condition of the Permit, or has not effectively achieved the objective of reducing pollutants in storm water discharges. Amendments shall show additional control measures or revised operations, including those in areas not shown in the initially approved SWPPP, which are required on the project to control water pollution effectively. Amendments to the SWPPP shall be submitted to the City Engineer for review and approval in the same manner specified for the initially approved SWPPP. Approved amendments shall be dated and logged in the SWPPP. Upon approval of the amendments, the Contractor shall implement the additional control measures or revised operations.

The Contractor shall prepare and submit with the SWPPP a schedule of values detailing the cost breakdown of the contract lump sum for SWPPP. The schedule of values shall reflect the items of work, quantities and costs for control devices shown in the SWPPP, except those items shown on the project plans and for which there is a contract item of work.

Upon approval of the SWPPP, the Contractor shall be responsible throughout the duration of the project for installing, constructing, inspecting, and maintaining the control measures included in the SWPPP and any amendments thereto and for removing and disposing of temporary control measures.

The Contractor shall demonstrate the ability and preparedness to fully deploy soil stabilization practices and sediment control measures to protect soil-disturbed areas on the project site before the onset of precipitation. A quantity of soil stabilization and sediment control materials shall be maintained on site equal to 100 percent of that sufficient to protect unprotected soil-disturbed areas on the project site. A detailed plan for the mobilization of sufficient labor and equipment shall be maintained to fully deploy control measures required for the protection of soil-disturbed areas on the project site prior to the onset of precipitation. A current inventory of control measure materials and detailed mobilization plan shall be included a part of the SWPPP.

Throughout the wet season, soil-disturbed areas of the project site shall be considered to be non-active whenever soil disturbance activities are to be discontinued for a period of 20 or more days and the areas are fully protected. Areas that will become non-active during the wet season shall be fully protected with soil stabilization practices and sediment control measures within 10 days of the discontinuance of soil disturbing activities or prior to the onset of precipitation, whichever is first to occur.

Throughout the wet season, active soil-disturbed areas of the project site shall be fully protected at the end of each day with soil stabilization practices and sediment control measures unless fair weather is predicted through the following workday. The Contractor shall monitor the weather forecast on a daily basis. The National Weather Service forecast shall be used. An alternative weather forecast proposed by the Contractor may be used if approved by the Engineer. If precipitation is predicted prior to the end of the following workday, construction scheduling shall be modified, as required, and functioning control measures shall be deployed prior to the onset of the precipitation.

The Contractor shall implement, year round and throughout the duration of the project, control measures included in the SWPPP for sediment tracking, wind erosion, non-storm water management and waste management and disposal.

During the wet season inspections of the construction site shall be conducted by the Contractor to identify deficient measures as follows:

- A. Prior to a forecast storm;
- B. After any precipitation, which causes runoff capable of carrying sediment from the construction site;
- C. At 24 hour intervals during extended precipitation events; and
- D. Routinely, a minimum of once every 2 weeks.

If the Contractor or the City Engineer identifies a deficiency in the deployment or functioning of an identified control measure, the deficiency shall be corrected immediately. The deficiency may be corrected at a later date and time if requested by the Contractor and approved by the City Engineer in writing, but no later than the onset of subsequent precipitation. The correction of deficiencies shall be at no additional cost to the City.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)** will be the complete and entire performance of all work necessary including SWPPP preparation, implementation, and maintenance in accordance with the Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)** will be made at the contract lump sum price when completed in compliance with the Specifications. Such payment shall include full compensation for all tools, equipment, labor, and incidentals required to prepare SWPPP plan, implementation and maintenance.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

*(Less complicated project)*

**BID ITEM NO. XX – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**

**1. DESCRIPTION**

The Contractor shall prepare a Storm Water Pollution Prevention Plan (SWPPP) that adequately addresses storm water discharges, sedimentation, hazardous material storage, truck washing and fueling, and all other waste discharges that may result as a consequence of the Contractor's operations.

The SWPPP shall be in accordance with the National Pollution Discharge Prevention System (NPDES) for Construction Activities and in accordance with the Regional Water Quality Control Board General Permit for Construction Activities.

The Contractor shall be responsible for obtaining the Storm Water Discharge General Permit from the Regional Water Quality Control Board. Contractor shall submit a copy of the SWPPP and a copy of the General Permit to the City for review and acceptance.

The Contractor shall perform all functions, install and maintain all Best Management Practices (BMPs), and instruct all Contractor's and Sub-Contractor's personnel and require compliance with all the provisions of the Project SWPPP.

Contractor shall provide un-restricted access to the project site by City inspectors to verify the Project SWPPP is adequately being implemented.

The Contractor shall have sole responsibility for the implementation of the SWPPP.

**2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)** shall be the complete and entire performance of all work necessary including SWPPP preparation, implementation and maintenance in accordance with these Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)** shall be at the Lump Sum price bid for Prepare Storm Water Pollution Plan (SWPPP) and shall constitute full compensation for all labor, materials, tools, equipment, and incidentals required to complete this item of work, including preparation of SWPPP,

implementation and maintenance, in accordance with the Plans and Specifications and State and Federal requirements.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – STREET LIGHT CONDUCTOR IN EXISTING CONDUIT**

**1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor, and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

In general, this item includes the installation of street light conductor in existing conduit. Additionally, the Contractor shall make all necessary electrical connections to existing facilities.

Street light conductor shall conform to City Specification S-106, City Standard Drawings insofar as they apply, as well as the details on the Plans and the following:

- a. Conductor – Unless otherwise specified, all services shall consist of two (2) each #6 AWG copper conductors, type THHN, or THWN. Splices may be made only in the lamp bases or in an approved pull box. Fixture wire from the base to the luminaries shall be #10 AWG copper, type THHN, or THWN. All conductors shall have a minimum of 24" of slack in each light base or pull box, and the type of connector used for splicing must be per City Standard Specification S-106.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – STREET LIGHT CONDUCTOR IN EXISTING CONDUIT** shall be the number of lineal feet as measured in the field installed in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – STREET LIGHT CONDUCTOR IN EXISTING CONDUIT** shall be at the contract unit price per lineal foot for work acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation for providing all labor, materials, tools, and equipment necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – STREET LIGHT CONDUIT**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

Street light conduit, with Nylon Pull Cord, shall conform to City Standard Specification S-106, City Standard Drawings insofar as they apply, and the following:

- a. Conduit – All conduit shall be polyvinylchloride Schedule 40 and conform to the provisions of Section 86-2.05 of the Standard Specifications. **Minimum size to be one inch (1”) and larger if required** by the N.E.C. for the size of conductors being used. All conduit to be U.L. approved. Conduit fittings to be high impact, same as conduit, molded, with tapered sockets for solvent welding.
- b. Pull Cord – A pull cord shall be included in the conduit and shall be Nylon with a minimum tensile strength of 225 N. At least 6’ of pull cord shall be doubled back in to the conduit at each termination.
- c. Conduit placement – If used, trenches shall be sawcut, or conduit may be placed using trenchless methods as approved by the Engineer. Conduit shall be placed thirty-six inches (36”) into the street from the face of curb for streetlights. Minimum cover to be twenty-four inches (24”) and if in an existing or future roadway, must be completely backfilled in a manner, which will assure a minimum relative density of ninety-five percent (95%). All other trenches must be backfilled and compacted to a minimum relative density of ninety percent (90%).

Any open cut trenches specifically for this item of work shall be clean edge, sawcut and shall be included for measurement and payment within this item of work.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – STREET LIGHT CONDUIT** shall be the number of linear feet as measured in the field installed in accordance with the Plans and Specifications.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – STREET LIGHT CONDUIT** will be at the contract unit price per linear foot for work acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation

for furnishing all labor, materials, tools, equipment and incidentals required to complete this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – STREET LIGHT PULL BOXES**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

Pull Boxes shall be State Standard No. 3½ in accordance with Section 86-2.06 of the Standard Specifications. They shall be installed in the locations shown on the plans. Restoration of sidewalk and curb & gutter shall be accomplished under separate bid items for these items.

Pull Boxes shall be installed in conformance with Section 86-2.06C of the Standard Specifications. Imbedment of the pull boxes in crushed rock, grouting, placing roof paper, providing the drain hole and providing all other items as specified in Section 86-2.06C of the Standard Specifications shall be included.

Any modification of concrete sidewalk specifically for this item of work shall be clean edge, sawcut and shall be included for measurement and payment within this item of work.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – STREET LIGHT PULL BOXES** shall be made for each pull box successfully installed in accordance with the Plans and Specifications, as counted in the field.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – STREET LIGHT PULL BOXES** will be at the contract unit price per each unit for work acceptable installed in accordance with the Plans and Specifications. Such payment shall be full compensation for furnishing all labor, materials, tools, equipment and incidentals required to complete this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## BID ITEM NO. XX – STREET LIGHTS

### 1. DESCRIPTION

This work includes the furnishing of all tools, equipment, labor, and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

This item includes the installation of new streetlights within the project limits and any conduit, wiring, service point, and pull boxes for these streetlights unless covered under separate bid item(s).

Street lights, standards and bases shall conform to City Specification S-106 and the City Standard Drawings insofar as they apply, as well as the plans and the following:

- a. Luminaries - Luminaries shall be induction type and as approved by the City of Santa Maria, equipped with and conforming to the following requirements:
  - GE Lighting System, Inc.  
M-400 Induction Luminair
  - OR
  - American Electric Lighting  
Roadway Series 125
  - OR
  - Philips Lumec  
HBS 85QL SA
- b. Lamps – Philips QL 85 Watt induction (4000K rated).
- c. Electrical - 240 Volt, 85 Watt.
- d. Photoelectric Receptacle - wired for 240 Volts.
- e. Photoelectric Control - 240 Volts
- f. Generator – High frequency generator for induction lamp, supplies current to the power coupler, nominal 240 Volt. Operating range 60 Hz or 85 Watt. Accept voltage between 200 and 277 Volt. Lamp starting capacity -40F (-40C) degrees; power factor corrected to 90% minimum.

- g. Steel poles and Brackets - Steel poles and brackets shall comply with the City's Standard Drawings.
- h. Light bases shall be formed and poured of portland cement concrete in conformance with the appropriate City standard details.
- i. Submittals - Submittal of all street lighting equipment proposed for use shall be made in advance in quadruplicate to the City Engineer for approval. Electrical or street lighting equipment shall not be used until such approval is granted.

Installation shall be complete and shall include new concrete foundation, pole, luminaries and new underground electrical service.

Any modification of concrete sidewalk or modifications to concrete curb and gutter specifically for this item of work shall have a clean edge, be sawcut, and shall be included for measurement and payment within this item of work.

## **2. MEASUREMENT**

Measurement of this item shall be the number of **BID ITEM NO. XX - STREET LIGHTS** successfully installed in accordance with the Plans and these Specifications, as measured (counted) in the field.

## **3. PAYMENT**

Payment for **BID ITEM NO. XX - STREET LIGHTS** shall be at the contract unit price per each unit for work acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation for providing all labor, materials, tools, and equipment necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – TRAFFIC CONTROL, CONSTRUCTION AREA SIGNS,  
POSTINGS AND NOTIFICATIONS**

**1. DESCRIPTION**

Traffic Control includes the furnishing, installation and maintenance of all traffic control devices, signs, barricades, etc. in compliance with the California Department of Transportation requirements. All lane closures, detours, or protective measures shall conform to Caltrans Standard Drawings T-10, T-11, T-12, and T-13. The Contractor is to prepare and submit for approval a signing plan covering all job sites prior to commencing work. Failure to maintain traffic control devices after approval of the signing plan, in any of the various work areas, shall be cause for the City to deny any payment due the Contractor for this item.

In addition to other measures taken by the Contractor pursuant to the provisions of Section 7-1.09 of the Standard Specifications, the Contractor shall install temporary railing (Type K) between any lane carrying public traffic and any excavation, obstacle or storage area when the following conditions exist:

- a. Excavations – any excavation the near edge of which is 12 feet or less from the edge of the lane except:
  1. Excavations covered with sheet metal or concrete covers of adequate thickness to prevent accidental entry by traffic or public.
  2. Excavations less than one foot deep.
  3. Trenches less than one foot wide for irrigation pipe or electrical conduit or excavations less than one foot in width.
  4. Excavations parallel to the lane for the purpose of pavement widening or reconstruction.
  5. Excavations protected by existing barrier or railing.

When traffic cones or delineators are to be used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered the edge of the traffic lane; however, the Contractor shall not reduce the width of an existing lane to less than 10' without the written approval of the Engineer.

Failure of the Contractor to maintain all facilities and/or appurtenances utilized for the traffic control will result in the City performing the work. Payment to the Contractor will be reduced by the cost to the City to perform all traffic control, which is the Contractor's responsibility in accordance with the Plans and Specifications.

Streets shall remain open during work when feasible. The following streets shall have at least one lane of traffic in each direction open at all times: **(List specific streets applicable)**. Any necessary short-term exceptions to these requirements to maintain lanes open must be approved by the City. Access to driveways shall be restored following each work day, and shall remain accessible until 8:00 a.m. the following morning, unless approved by the City.

The Contractor shall be responsible for postings to assure parked cars will not interfere with the work. "No Parking" signs posted by the Contractor shall be of heavy card stock with letters printed in sufficient contrast to the background, and size such that drivers can read the posting clearly. The signs shall be printed with the words "Tow Away" and "No Parking". The day, date, and time of the particular restriction shall be printed or attached below the above mentioned wording. The day of the week shall be written out or properly abbreviated with three to four letters; date or dates of restriction shall be listed completely; the beginning and ending times shall be clearly listed on the sign.

Signs shall be mounted such that the wording "No Parking" is at an elevation at least three feet and not more than seven feet above the ground. Signs may be tied with string to trees and power poles, taped to existing sign poles, or mounted to stakes or barricades provided by the Contractor. The signs shall be placed as needed to control the parking of cars within the construction zone; signs shall be placed at intervals of 75 feet or less along each side of the roadway.

Signs shall be posted and maintained by the Contractor for a period of 72 hours prior to the restrictions becoming effective. Upon completion of the work, all signs, stakes, and barricades shall be promptly and completely removed and disposed of by the Contractor. The Contractor shall promptly reset or replace all damaged or defective signs.

Existing roadside signs conflicting with the construction area signs shall be either removed and reset upon completion of work or securely covered as determined by the Engineer.

Sufficient visibility to approaching traffic shall be provided when a street is closed partially or traffic re-directed. The Contractor shall ensure that sufficient illumination be provided by means of portable flashing beacons, floodlights, or other similar devices satisfactory to the Engineer.

The Contractor shall be fully responsible for the adequate removal of all parked cars. All vehicle removal shall be coordinated by the Contractor with the Police Department. The Contractor shall notify the Police Department upon posting of the parking restrictions for a particular street. The City shall

not be responsible for any delay or additional costs associated with the removal of parked cars which obstruct the construction operation.

If a vehicle owner successfully contests a towing citation in court, and their citation is dismissed for causes related to the Contractor's failure to perform the requirements of this section, the Contractor shall reimburse the City for the cost of any claims associated with the towing citation.

Access to properties abutting Project work areas shall be maintained. For driveway construction requiring closures the Contractor shall provide written notification to businesses and residences of affected properties a minimum of 72 hours prior to the closure. The Contractor shall submit copies of all notifications to the City.

Costs for flaggers shall be included in this bid item.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – TRAFFIC CONTROL, CONSTRUCTION AREA SIGNS, POSTINGS, AND NOTIFICATIONS** will be at the contract lump sum price when completed in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – TRAFFIC CONTROL, CONSTRUCTION AREA SIGNS, POSTINGS, AND NOTIFICATIONS** will be at the contract lump sum price when completed in compliance with the Plans and Specifications. Such payment shall include full compensation for all tools, equipment, labor and incidentals required to complete this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – TRAFFIC STRIPES**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

This item includes traffic stripes to match existing currently in place or as indicated on the plans. These items also include the removal of all existing conflicting markings. The work includes but is not limited to the following:

- a. Painted, raised non-reflective and reflectorized pavement markers traffic stripes.
- b. Surveying and layout.
- c. Removal of all existing stripes (removal shall be by sand blasting or grinding).

**MATERIALS** - Painted traffic stripes (2-coat) shall comply with Section 84-1 and 84-3 of the Standard Specifications.

Raised non-reflective pavement markers and reflectorized pavement markers shall comply with Section 85 of the Standard Specifications.

Installation: Installation of traffic stripes shall comply with Section 84-3.05 of the Standard Specifications.

### **2. MEASUREMENT AND PAYMENT**

**BID ITEM NO. XX – TRAFFIC STRIPES** will be the number of lineal feet and will be at the contract unit price for each lineal foot furnished and acceptably installed in accordance with the Plans and Specifications. Such payment shall be full compensation for furnishing all labor, materials, tools, and equipment necessary to complete **BID ITEM NO. XX – TRAFFIC STRIPES**.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – TREE AND STUMP REMOVAL**

### **1. DESCRIPTION**

Remove trees and tree stumps as indicated on the plans.

The Contractor may also be directed to remove entire trees following a failed stress test subsequent to root sawing. Remove entire tree, including stump, limbs, roots and other parts of the tree. Stumps are to be ground and roots removed to a depth of 36" below subgrade within roadway and 24" below finish grade outside of roadway. All roots shall be removed. Stump shall be replaced with high quality top soil acceptable to the Engineer in median or landscaped areas.

### **2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – TREE AND STUMP REMOVAL** shall be the number of trees and stumps removed in accordance with the specifications and to the satisfaction of the Engineer.

### **3. PAYMENT**

Payment for **BID ITEM NO. XX – TREE AND STUMP REMOVAL** will be the contract unit price per each (EA) tree and stump acceptably removed. Such payment shall constitute full compensation for all labor, materials, tools and equipment to remove trees and stumps in accordance with the specifications.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – TREE ROOT TRIMMING AND BARRIER**

**1. DESCRIPTION**

Trim street tree roots around existing concrete improvements such as curb, gutter, driveway, parkway and sidewalk as directed by the Engineer. The trimming method will be approved by the Engineer and done under the direction of a certified arborist.

Trees to be root trimmed shall be pruned (root and canopy) under the supervision of a certified arborist. Tree shall be pull tested by the Contractor and witnessed by the Engineer to determine its suitability to remain prior to construction of any improvements. If the pull test fails as determined by the Engineer, the tree shall be removed and paid for as extra work.

Trees allowed to remain shall have root barrier frames installed per the detail provided in the plans and in conformance with the City of Santa Maria Recreation and Parks Department landscape and irrigation standards.

Contractor shall contact Engineer prior to cutting roots 3" in diameter or larger for inspection and direction. Roots shall be cut before back hoeing and clearing of debris and roots.

Roots shall be removed to a depth of 36" below subgrade within roadway and 24" below finish grade outside of roadway

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – TREE ROOT TRIMMING AND BARRIER** shall be for each tree that is acceptably root pruned, stress tested and equipped with tree root barrier in accordance with the specifications and to the satisfaction of the Engineer and City Arborist.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – TREE ROOT TRIMMING AND BARRIER** will be at the contract unit price per each tree acceptably root pruned and barrier installed. Such payment shall be full compensation for furnishing all labor, materials, tools, equipment, and incidentals required to perform this item of work according to the Plans and Specifications and to the satisfaction of the Engineer and City Arborist.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – TRENCH EXCAVATION & SHORING**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

Trench excavation, preparation of the trench bottom, and shoring shall be in accordance with the plans, the City Standard Drawings and this description.

De-watering and shoring may be required. The Contractor shall have the responsibility to determine if de-watering will be necessary and for providing such de-watering as is necessary to accomplish the work safely and in accordance with current applicable laws and regulations. Trenches excavated to depths exceeding 5 feet shall be shored in accordance with the CAL OSHA Trench Construction Safety Orders of the Division of Industrial Safety requirements. Caving sidewalls and ground water are a possibility in the utility trench excavations.

When sub grade is encountered that, in the opinion of the Engineer, is unsuitable for pipe support, the Engineer may order the excavation to be carried to an approved depth below the bottom of the pipe and backfilled with crushed aggregate, or an engineered stabilization method, to the lines and grades shown on the plans and/or specified by the Engineer. The cost of such trench bottom stabilization shall be included in the unit price of this bid item, and no additional payment shall be made therefore. Excess unsuitable fill materials shall be disposed of at an appropriate location secured by the Contractor at his expense.

A minimum clearance of 1.0 feet between water mains and the crossing of interfering utilities shall be provided. Minimum separation distances and requirements between water and sewer pipes shall be established by the State of California Department of Health Services "criteria for the separation of water mains and sanitary sewers".

The Contractor shall use steel plates to cover open trenches in the traveled way (both vehicular and pedestrian) during non-construction hours. All trench plates placed by the Contractor shall have a slip resistant surface. Full compensation for providing a slip resistant surface on traffic plates shall be considered as included in the unit prices paid for the various items of work, which require trench plating, and no additional compensation will be made therefore.

No open trenches during non-construction hours will be allowed unless specifically authorized by the Engineer. Any excavation permitted by the Engineer to be left open shall be secured by barricades, K-rails, fence, etc., and provided with flashers every 10 feet on center. "OPEN TRENCH" signs shall be posted every 50 feet or as determined by the Engineer in the field.

**2. MEASUREMENT**

Measurement of **BID ITEM NO. XX – TRENCH EXCAVATION & SHORING** will be the number of lineal feet of trench excavation & shoring, as measured, in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – TRENCH EXCAVATION & SHORING** will be made at the contract unit price per lineal foot of trench excavation as measured above, in accordance with the Plans and Specifications. This payment shall be full compensation for furnishing all labor, materials, tools, equipment, incidentals, and the performance of all work in accordance with the intent of this section and the Plans and Specifications.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

## **BID ITEM NO. XX – WATER SERVICE**

### **1. DESCRIPTION**

This work includes the furnishing of all tools, equipment, labor and materials required to accomplish all of the following work within the limits designated on the plans or as required by the Engineer in accordance with the Plans and Specifications.

This work shall conform to requirements and provisions as shown on the plans and in the STANDARD SPECIFICATIONS FOR MATERIALS AND INSTALLATION OF WATER MAINS IN THE CITY OF SANTA MARIA, CALIFORNIA, these Contract Documents and Specifications, and these special provisions.

### **2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – WATER SERVICE** will be made per each water service, installed in accordance with the Plans and Specifications.

### **3. PAYMENT**

The contract unit price paid for **BID ITEM NO. XX – WATER SERVICE** shall include full compensation for furnishing all labor, materials, tools, and necessary to complete this item of work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID ITEM NO. XX – WATERLINE LOWERING**

**1. DESCRIPTION**

Waterline lowering shall be done at the location as shown on the plans and in compliance with City Standard Specification S-75 and The City Standard Drawing.

**2. MEASUREMENT**

Measurement for **BID ITEM NO. XX – WATERLINE LOWERING** will be the number of locations acceptably furnished and installed in accordance with the Plans and Specifications.

**3. PAYMENT**

Payment for **BID ITEM NO. XX – WATERLINE LOWERING** shall be made at the contract unit price paid per each location and shall include all costs required to furnish and install this item complete in place. The contract paid per each location shall include the Polyvinyl Chloride (PVC) pipe, all fittings and valves which include elbows, flanges, flex adaptors, and couplings as shown on the plans and in accordance with The City Standard Drawing. Such payment shall include full compensation for all labor, materials, tools, incidentals and equipment for this item of the work.

**\*\*\* END OF BID ITEM NO. XX \*\*\***

**BID PROPOSAL FORM**

\*\*\* PROJECT NAME \*\*\*

**BID NO. 20XX/XX**

ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICING	TOTAL PRICING
	BASE BID ITEMS				
1	Construction Coordination		LS		
2	Storm Water Pollution Prevention Plan (SWPPP)		LS		
3	Clearing, Grubbing, Excavation, Grading and Removals		LS		
4	Traffic Control, Construction Area Signs, Postings and Notification		LS		
5	Roadway Preparation		SF		
6	Saw Cutting		LF		
7	Stamped P.C.C. Paving		SF		
8	Reclaim Existing A.C.		SF		
9	Raise Existing Utilities to Finish Grade		EA		
10	Cold Plane A.C. Pavement		SY		
11	Asphalt Concrete (Type B)		TN		
12	Class 2 Aggregate Base		TN		
13	P.C.C. Curb Only		LF		
14	P.C.C. Curb and Gutter		LF		
15	P.C.C. Alley Way		SF		
16	P.C.C. Driveway		SF		
17	P.C.C. Meandering Sidewalk		SF		
18	P.C.C. Sidewalk		SF		
19	P.C.C. Handicap Ramps		SF		
20	P.C.C. Spandrel		SF		
21	P.C.C. Cross-Gutter		SF		

ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICING	TOTAL PRICING
22	Replace Traffic Signal Loop Detectors		EA		
23	Pavement Markings		EA		
24	Traffic Stripes		LF		
25	Blue Retro-Reflective Markers		EA		
26	Street Light Pull Box		EA		
27	Street Light Conduit		LF		
28	Street Lights		EA		
29	Street Light Conductor in Existing Conduit		LF		
30	Pothole Existing Utilities		LS		
31	S.S. Manholes		EA		
32	S.D. Manholes		EA		
33	Trench Excavation and Shoring		LF		
34	Placement and Backfill 6", 8", 12", 15" SDR 35 PVC S.S.		LF		
35	S.S. Clean Out		EA		
36	S.D. Drop Inlet		EA		
37	S.S. Pipeline Cleaning, CCTV Inspection and Taping		LF		
38	Placement and Backfill of 18", 36" RCP S.D.		LF		
39	Waterline Lowering		EA		
40	Placement and Backfill 10", 18", 20" PVC Pressure Pipe		LF		
41	Pipeline Testing		LS		
42	Pipeline Disinfection		LS		
43	Fire Hydrant Assembly		EA		
44	Water Service		EA		
45	Sewer Lateral		EA		
	<b>BASIS FOR SELECTION.....</b>			\$	
	<b>TOTAL BASE BID.....</b>				

\*\*\* PROJECT NAME \*\*\*

BID NO. 200X/XX

ADDITIVE ALTERNATE 'A'					
ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICING	TOTAL PRICING
A-1	10" Waterline		LF		
<b>TOTAL ADDITIVE ALTERNATE BID 'A':</b>				\$	

ADDITIVE ALTERNATE 'B'					
ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICING	TOTAL PRICING
B-1	10" Waterline		LF		
<b>TOTAL ADDITIVE ALTERNATE BID 'B':</b>				\$	

<b>DEDUCTIVE ALTERNATE NO. 1</b>					
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY.</b>	<b>UNIT</b>	<b>UNIT PRICING</b>	<b>TOTAL PRICING</b>
XX.	DEDUCT LANDSCAPING INCLUDING GROUND COVER, SOIL AMENDMENT, BARK MULCH, AND IRRIGATION SOUTH OF AUTOPARK DRIVE	1	LS		
<b>TOTAL DEDUCTIVE ALTERNATE NO. 1</b>				<b>\$</b>	

It is understood that, except for lump sum items, the foregoing quantities set forth in the bid schedule are approximate only and are solely for the purpose of facilitating the comparison of bids, and that the Contractor's compensation will be computed on the basis of the final quantities in completed work, measured as specified, whether they be more or less than those shown.

It is understood that the additive/deductive alternate item(s) will not be a part of the basis for selection.

[Choose Appropriate Example(s)]

- The City reserves the right to select either the total base bid or the total base bid plus any one or more of the additive/deductive alternate bid item(s).
- The basis for selection is low bid for the combination of Base Bid No. 1 PLUS Base Bid No. 2.
- The City reserves the right to select either the Total Base Bid A or the Total Base Bid B and may or may not award the additive/deductive alternate bid item(s).