

ADDENDUM 1: East Valley Road Water Main Replacement

MONTECITO WATER DISTRICT

July 6, 2021

ADDENDUM NO. 1

TO REQUEST FOR PROPOSALS
East Valley Road Water Main Replacement
Project # P41

DATED June 2021

Notice is hereby given to bidders that this addendum is issued to make changes to the contract documents, construction drawings, and construction specifications. The following changes shall be made to the contract documents, construction drawings, and construction specifications by the Contractor.

ADDENDUM 1: Update to Bid Items

Replace pages 11, 48, and 56 – 62 with attached sheets. Changes are highlighted in yellow.

APPROVED:



David Wong, E.I.T.
Engineering Assistant

PROJECT: EAST VALLEY ROAD WATER MAIN REPLACEMENT

BID SHEET

The cost of all labor, material and equipment necessary for the completion of the work itemized, even though not shown or specified, shall be included in the unit price for the various items shown herein. (See Section A2.07.) The District reserves the right to increase or decrease the quantity of any item or omit items as may be deemed necessary, and the same shall in no way affect or make void the contract, except that appropriate additions or deductions from the contract total price will be made at the stipulated unit price. The District further reserves the right to reject any or all bids, to waive any informality or irregularity in any bid or the bidding procedure, and to delete any items of work in the award of contract. Bidders must bid on all items in the Bid Schedule in order for their bids to be complete. The award of contract will be based upon the total bid for all items.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	Mobilization	LS	1	\$	\$
2	Sawcut Pavement	LF	12,500	\$	\$
3	12" Ductile Iron Pipe Installation	LF	5902	\$	\$
4	6" Gate Valve	EA	12	\$	\$
5	8" Gate Valve	EA	1	\$	\$
6	10" Gate Valve	EA	1	\$	\$
7	12" Gate Valve	EA	12	\$	\$
8	6" x 6" x 6" DI Tee	EA	1	\$	\$
9	12" x 6" x 12" DI Tee (incl. hydrant tees)	EA	12	\$	\$
10	12" x 8" x 12" DI Tee	EA	1	\$	\$
11	12" x 10" x 12" DI Tee	EA	1	\$	\$
12	Connection to Existing Main (tie in)	EA	10	\$	\$
13	Fire Hydrant Assembly	EA	10	\$	\$
14	1" Service Laterals	EA	10	\$	\$
15	1-1/2" Service Laterals	EA	2	\$	\$
16	2" Service Laterals	EA	4	\$	\$
17	Sand Bedding and Pipe Encasement	CY	650	\$	\$
18	Concrete Slurry Backfill	CY	1400	\$	\$
19	Pavement Restoration	SF	24,650	\$	\$
20	Type II Microseal	SF	51,260	\$	\$
21	Traffic Control	LS	1	\$	\$
(Total in words)				Total	\$ (in figures)
22	CONTINGENCY ITEM: Rock/Boulder Removal (do not include in bid price)	HR	1	\$	\$

(Company Name of Bidder)

MONTECITO WATER DISTRICT

**Construction Contract
Progress Payment Request - Detail**

Date:

Payment Request No:

Contract No.:

Contractor:

Project Name: EAST VALLEY ROAD WATER MAIN REPLACEMENT

ITEM NO.	DESCRIPTION	UNIT	BID QUANTITY	UNIT/ FIRM PRICE	IN PLACE THIS PERIOD		IN PLACE TOTAL	
					QTY. OR %	EXTN.	QTY. OR %	EXTN.
1	Mobilization	LS	1	\$				
2	Sawcut Pavement	LF	12,500	\$				
3	12" Ductile Iron Pipe Installation	LF	5902	\$				
4	6" Gate Valve	EA	12	\$				
5	8" Gate Valve	EA	1	\$				
6	10" Gate Valve	EA	1	\$				
7	12" Gate Valve	EA	12	\$				
8	6" x 6" x 6" DI Tee	EA	1	\$				
9	12" x 6" x 12" DI Tee (incl. hydrant tees)	EA	12	\$				
10	12" x 8" x 12" DI Tee	EA	1	\$				
11	12" x 10" x 12" DI Tee	Ea	1	\$				
12	Connection to Existing Main (tie in)	EA	10	\$				
13	Fire Hydrant Assembly	EA	10	\$				
14	1" Service Laterals	EA	10	\$				
15	1-1/2" Service Laterals	EA	2	\$				
16	2" Service Laterals	EA	4	\$				
17	Sand Bedding and Pipe Encasement	CY	650	\$				
18	Concrete Slurry Backfill	CY	1400	\$				
19	Pavement Restoration	SF	24,650	\$				
20	Type II Microseal	SF	51,260	\$				
21	Traffic Control	LS	1	\$				
22	CONTINGENCY: Rock Rmvl	HR		\$				

Contractor Signature

Date

PART C – SPECIAL PROVISIONS – TECHNICAL

SECTION C1 – GENERAL CONSTRUCTION REQUIREMENTS

C1.01 Standard Specifications

The work provided herein shall be performed in accordance with the Standard Specifications for Public Works Construction, (2015 edition) of the Southern California Chapter American Public Works Association. Part 2 (Construction Materials), Part 3 (Construction Methods), Part 4 (Alternate Materials), Part 5 (Pipeline System Rehabilitation), and Part 6 (Temporary Traffic Control) of the Standard Specifications are incorporated herein by reference. In case of conflict between the Standard Specifications and the Special Provisions, the Special Provisions shall govern.

The work provided herein shall conform to the Montecito Water District (MWD) Construction Standards, including all amendments and supplements, attached as Appendix A.

The following reference specifications may apply to portions of the work as adopted by each entity including all addenda, modifications, amendments or other lawful changes thereto:

- Caltrans Standard Specifications and Standard Plans, 2015 Edition
- California MUTCD, 2014 Edition and additional revisions
- County of Santa Barbara Department of Public Works Transportation Division, Engineering Design Standards, 2011 Edition

C1.02 Bid Schedule Work Description

The following sets forth a general description of the type of work for each bid item listed in the schedule, but is not intended to be all inclusive. All work specifically shown, called for, or indicated in the Contract Documents shall be performed whether or not specifically listed under an item description.

Bid Items

1. Mobilization: The lump sum price paid shall include full compensation for bonds, insurance, required permits and fees, shop drawings, project phasing, supervision, coordination of concurrent work with other contractors, meetings, “as-built” plans or record drawings, clean up of the work area including movement of personnel, equipment, supplies, and incidentals to and from the project site, and potholing; for the establishment of all other facilities necessary for work on the project; for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items of work on the project site; for work and improvements called for or implied by the Contract Documents, which are not included in the other bid items but are required to complete the Work; for furnishing all labor, materials, tools, equipment and incidentals for implementation.
2. Sawcut Pavement: the unit price paid per linear foot shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for saw cutting the existing pavement to a depth satisfactory to remove the asphalt in the trench above the proposed water main and asphalt within the “tee-cut” additional width for final paving. The saw cut shall leave a clean edge on both sides of the trench for the entire depth of the existing asphalt, to a width of 1 foot wider than the trench width on both sides.
3. 12” Ductile Iron Pipe Installation: The unit price paid per linear foot shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for installation of the entire length of the 12” ductile iron pipe, all required joint materials, ductile iron bends, mechanical joints, restraints, megalug kits, flange fittings, and any other component required by the design drawings and the abandonment of the existing 12” pipeline to include concrete caps at the exposed pipe ends. The unit price shall also include full compensation for furnishing all labor, materials, tools, equipment and incidentals for excavation and disposal of subgrade material to a total depth to satisfy the trench detail requirements shown on the design drawings. The unit price shall also include any necessary utility marking or potholing of existing pipes/conduits including water, sewer, storm drains, electrical lines, telephone lines, cable television lines and other existing utilities to determine horizontal and vertical locations of all existing underground facilities which may affect, or be affected by, the Contractor’s operations.

The contract unit price per linear foot shall also include the following items:

- removal, capping and replacement where necessary of interfering portions of existing and/or abandoned: sewers, water mains, thrust blocks, storm drains, and improvements;
 - closing or removing of abandoned conduit and structures;
 - placing, joining, and retaining pipe, tees, crosses, bends, elbows, reducers, adapters, couplings, offsets, restrained or harnessed joints, end caps, casing chocks and other fittings;
 - concrete thrust blocks;
 - abandon existing water lines and valves;
 - backfill existing valve box assemblies and water services;
 - disinfection per requirements in Section C4 – Water Main Construction Methods; and
 - pressure testing;
4. 6" Gate Valve: The unit price paid per valve shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the 6" resilient wedge gate valve, complete in place and operable; in accordance with the design drawings.
 5. 8" Gate Valve: The unit price paid per valve shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the 8" resilient wedge gate valve, complete in place and operable; in accordance with the design drawings.
 6. 10" Gate Valve: The unit price paid per valve shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the 10" resilient wedge gate valve, complete in place and operable; in accordance with the design drawings.
 7. 12" Gate Valve: The unit price paid per valve shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the 12" resilient wedge gate valve, complete in place and operable; in accordance with the design drawings.
 8. 6"x6"x6" DI Tee: The unit price paid per tee shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the ductile iron tee and concrete thrust block in accordance with the design drawings.
 9. 12"x6"x12" DI Tee: The unit price paid per tee shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the ductile iron tee and concrete thrust block in accordance with the design drawings.
 10. 12"x8"x12" DI Tee: The unit price paid per tee shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the ductile iron tee and concrete thrust block in accordance with the design drawings.
 11. 12"x10"x12" DI Tee: The unit price paid per tee shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the ductile iron tee and concrete thrust block in accordance with the design drawings.
 12. Fire Hydrant Assembly: The unit price paid per assembly shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of the fire hydrant assembly; complete in place and operable; in accordance with the design drawings. The fire hydrant assembly includes the hydrant bury, concrete thrust block, breakaway spool, and new Jones fire hydrant. The old hydrant and spool shall be removed and disposed.
 13. Connection to Existing Water Main: The unit price paid per connection (or "tie in") shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory connection of the new ductile iron pipe to the existing water mains in accordance with the design drawings. The unit price shall include all fittings, bends, restraints, thrust blocks and other required items in accordance with the design drawings.
 14. 1" Copper Service Lateral Reconnection: The unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of a new 1" service lateral in accordance with the design drawings. The unit price shall include a new saddle, corporation stop, copper tubing, any

required bends, bushings, and angle meter stop. All compression fittings shall be super grip. Contractor shall reconnect the new copper service lateral to the existing meter inlet.

15. 1-1/2" Copper Service Lateral Reconnection: The unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of a new 1-1/2" service lateral in accordance with the design drawings. The unit price shall include a new saddle, corporation stop, copper tubing, any required bends, and angle meter stop. All compression fittings shall be super grip. Contractor shall reconnect the new copper service lateral to the existing meter inlet.
16. 2" Copper Service Lateral Reconnection: The unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of a new 2" service lateral in accordance with the design drawings. The unit price shall include a new saddle, corporation stop, copper tubing, any required bends, and angle meter stop. All compression fittings shall be super grip. Contractor shall reconnect the new copper service lateral to the existing meter inlet.
17. Sand Bedding and Pipe Encasement: The unit price paid per cubic yard shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for backfill and compaction of the sand bedding, detectable warning tape, and pipe encasement with polyethylene sheath in accordance with the design drawings and District construction standards.
18. Concrete Slurry Backfill: The unit price paid per cubic yard shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for satisfactory installation of concrete slurry backfill in accordance with the design drawings. The concrete slurry backfill shall be 1 sack slurry.
19. Pavement Restoration: The unit price paid per square foot shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in restoring the pavement surface in accordance with the design drawings and CalTrans Encroachment Permit. Pavement restoration shall include any required cold planing, sweeping, loading, hauling, transporting of removed asphalt material, construction of hot mix asphalt finish paving to a depth of 7" below the top of existing asphalt and a width 12" outside of the trench width, compaction, finishing, striping, sweeping and any other process to ensure a finish pave in accordance with the CalTrans Encroachment Permit.
20. Type II Micro seal: The unit price paid per square foot shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in laying Type II micro seal from edge of road to edge of road for the entire length of the project, restoration of traffic striping, and final sweeping. Type II Micro seal shall also include protection and final exposure of valve lids, manholes or other present utility covers within the area to be sealed.
21. Traffic Control Plan and Implementation: The lump sum price paid shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals for the implementation, installation, removal, storage, transport, and maintenance of the Traffic Control Plan; including furnishing, placing, maintaining, and removing signs and temporary supports or barricades for the signs; posting parking restrictions; radios, and any other equipment and labor required; barricades, flaggers, temporary pavement, trench plates, and temporary facilities required for the safe handling of pedestrian and vehicular traffic for 24 hours per calendar day in accordance with the "California Manual of Uniform Traffic Control Devices, by the State of California, Department of Transportation (Caltrans)". Approach and ending trench plates shall be attached to the roadway by a minimum of 2 dowels predrilled into the corners of the plates and drilled 2" into the pavement. Subsequent plates are to be butted and tack welded together. For areas with a speedlimit 45 MPH or greater, pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimension of the plate. Under 45 MPH, fine graded asphalt concrete shall be compacted to form ramps maximum slope 8.5% with a minimum 12" taper to cover all edges of the steel plates. If, due to a change in the Contractor's work schedule a change in sign posting is required, all labor, equipment, and materials required for second and subsequent postings shall be furnished at the Contractor's sole expense.
22. Contingency Item: Rock/Boulder Removal: The unit price bid for each hour (crew hour) shall include full compensation for furnishing all labor, materials, tools, equipment, supervision, transportation, sawcutting, excavation, backfill, hauling, incidentals thereto, and all work necessary for excavating rocks or boulders encountered that cannot be removed with conventional trench excavation equipment. This bid item will be performed as Extra Work when considerable rock/boulder removal is encountered during the excavation.

C1.03 Traffic Control and Construction Signs

Contractor shall prepare a Traffic Control Plan (TCP) in accordance with the requirements of these Special Provisions and submit to the MWD Engineer prior to construction. The Contractor is wholly responsible for the preparation and execution of the TCP. At a minimum, the TCP shall conform with requirements of the road encroachment permit.

C1.03.01 Truck Traffic Plan and Restrictions

The Contractor shall control the delivery and haul routes of all trucks having three or more axles used in conjunction with this work. This control shall extend to all such trucks owned by the Contractor, subcontractors, second and lower tier subcontractors, material suppliers, commercial hauls, and deliveries of equipment. The Contractor shall include haul routes to be used on this project in the Traffic Control Plan (TCP).

C1.03.02 Construction Area Signs

Construction area signs shall be furnished, installed, maintained, and removed when no longer required in accordance with the provisions in the Standard Specifications, the standard details for traffic control, Part 6 of the California MUTCD 2014, the traffic control plan, and these Special Provisions.

The base material of construction area signs shall not be cardboard or paper.

"Rough Road" [Caltrans W33] or "Bump" [FHWA W84] signs shall be placed immediately prior to any abrupt changes in grade crossing the traffic lanes. "Loose Gravel," "Slippery," and speed advisory signs shall be placed when appropriate.

During construction, if any elevation changes of 2 inches more exists between adjacent lanes, an "uneven lanes" (W8-11) warning signs must be provided.

Barricades shall conform to the requirements of Caltrans Standard Plan A73C and these Special Provisions. All barricades placed during the hours of darkness as defined by §280 of the California Vehicle Code, shall be equipped with functional type A low intensity warning lights conforming to the requirements of Section 6F.83, "Warning Lights," of the California MUTCD 2014.

Channelizing arrows shall be used in conjunction with cones or delineators to guide traffic to the correct side of the cone lines. On multilane roads, VMS boards shall be used to specify a lane closure.

The construction signage submitted with the traffic plans shall also include placement of two MWD furnished project signs. These signs will be furnished by the MWD Engineer.

C1.03.03 Maintaining Traffic, Pedestrian Access and Transit Access

Traffic control shall conform to Part 6 of the California MUTCD 2014 and Part 6 (Temporary Traffic Control) of the Standard Specifications.

Restrictions and closures are only permitted when necessary considering impact to the travelling public, safety and efficiency. Restrictions shall not be in place when work activities are not being performed. Restrictions shall not be left in place simply for convenience or to avoid the need to remove barricades at the end of the work shift and reset them the following day. Restrictions shall not be left in place solely to accommodate storage of equipment, supplies, debris, etc.

Business access shall be maintained to adjacent businesses at all times. Any business access restriction shall be coordinated with the affected business in writing at least 48-hours prior to, but no earlier than one week prior to imposing restrictions unless otherwise approved by the Engineer.

Access to fire stations, the police station, hospitals, churches and parks shall be maintained at all times. When access restrictions are necessary, the contractor shall coordinatesuch access restrictions and restore access as soon as possible and notify the MWD Engineer of such restrictions.

The contractor shall ensure that sanitation pick-up is not affected by relocating trash containers, or by providing alternate measures acceptable sanitation providers.

Personal vehicles of the Contractor's employees shall not be parked on the traveled way or shoulders of the construction zone, including any section closed to public traffic; they may be parked on adjacent streets within the legal parking areas.

Whenever vehicles or equipment are parked on the shoulder within six (6) feet of a traffic lane, the shoulder area shall be closed with fluorescent traffic cones or portable delineators placed on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at twenty-five (25) foot intervals to a point not less than twenty-five (25) feet past the last vehicle or piece of equipment. A minimum of nine (9) cones or portable delineators shall be used for the taper. A C23 (Road Work Ahead) or C24 (Shoulder Work Ahead) sign shall be mounted on a telescoping flag tree with flags. The flag tree shall be installed per California MUTCD 2014, Part 6.

When traffic cones or delineators are used to delineate a temporary edge of traveled way, the line of cones or delineators shall be considered to be the edge of the traveled way. However, the Contractor shall not reduce the width of an existing lane to less than ten (10) feet. The provisions of this paragraph shall not apply to a work area protected by a permanent or temporary railing or barrier.

The Contractor's trucks or other mobile equipment which leave a traffic lane that is open to public traffic to enter the construction area shall gradually slow down in advance of the location of the turnoff to give the following public traffic an opportunity to slow down.

When leaving a work area and entering a roadway carrying public traffic, the Contractor's equipment, whether empty or loaded, shall in all cases yield to public traffic.

The Contractor shall cooperate with local authorities in regards to handling traffic through the construction area and shall make all arrangements to keep the working area clear of parked vehicles.

The Contractor shall make all necessary arrangements to provide, at the Contractor's expense, vehicular access to driveways, parking areas, and private properties. The Contractor shall make all necessary arrangements for street or lane closures with the MWD Engineer and work with the MWD Engineer to notify each affected business, institution, and resident.

Driveway access restrictions may not exceed the time period strictly necessary for performing the work, which cannot be done otherwise.

The Contractor shall furnish and post signs where necessary to inform the public about closures or restrictions at parking area entrances.

Except as otherwise provided, the full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays, designated legal holidays and when construction operations are not actively in progress.

At the end of each working day, if a difference in excess of 0.15 foot exists between the elevation of the existing pavement and the elevation of any excavation within 8 feet of the traveled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. In the traveled way, asphaltic material shall be used for this purpose.

Concrete improvements shall be protected from traffic loads during the time necessary for the concrete to reach 2,500 psi compressive strength. Such protection shall be established for the maximum convenience of the public.

The contractor will be responsible for maintaining traffic control until the area has re-stripped and re-signed, when applicable.

C1.03.04 Traffic Control System

A traffic control system shall consist of signing, flagging, and/or closing traffic lanes or streets in accordance with the details shown on the Standard Plans, the provisions of Part 6 (Temporary Traffic Control) of the Standard Specifications, and Part 6, "Temporary Traffic Control," of the MUTCD 2014. Contractor shall provide all traffic control system details in the Traffic Control Plan.

The traffic control system shall provide for the maximum convenience and safety of both vehicles and pedestrians.

Each vehicle used to place, maintain, and remove components of a traffic control system on multi-lane roadways

shall be equipped with flashing indicators which shall be in operation when the vehicle is used for placing, maintaining, or removing said components. The indicator lights shall be controllable by the operator of the vehicle while the vehicle is in motion.

If any component in the traffic control system is damaged, displaced, or ceases to operate or function as specified from any cause during the progress of the work, the Contractor shall immediately repair said component to its original condition, or replace said component and restore it to its original location. Failure by the Contractor to continuously maintain the proper traffic control devices shall be sufficient cause for the Engineer to stop all work protected by or associated with the traffic control devices.

Open trenches located within the right-of-way shall, as a minimum, be delineated with type I or II barricades which conform to the Standard Specifications, Caltrans Standard Plan A73C, and these Special Provisions. Barricades placed during hours of darkness shall be equipped with operational Type A Low Intensity Flashing Warning Lights. "Open Trench" [C27] signs shall be placed in advance of and at 100 foot intervals in all work zones containing an open trench or abrupt drop within 10 feet of the traveled way. When work is not actively in progress, two inch wide yellow plastic tape labeled "Caution" shall be used to delineate all open trenches or abrupt drops within the construction area. Steel plates shall be used to cover open trenches within five feet of any public traffic or deeper than three feet.

When lane closures are made for work periods only, at the end of each work period all components of the traffic control system, except portable barricades and delineators placed along open trenches or excavation adjacent to the traveled way, shall be removed from the traveled way, shoulder, and auxiliary lanes. If the Contractor so elects, said components may be stored at selected central locations, approved by the Engineer, within the limits of the street right-of-way.

Upon completion of the work requiring traffic control, all components of the traffic control system shall be removed from the site of the work and shall become the property of the Contractor. If provided, MWD furnished signs shall be returned to the MWD clean and clear of all markings.

One-way traffic shall be controlled through the project in accordance with Caltrans Standard Plan T-13, "Traffic Control System or Lane Closure on Two-lane Conventional Highways", and these Special Provisions.

All traffic control equipment shall be of standard size unless reduced sizes are specifically approved by the Engineer and shall conform with the provision of the California MUTCD 2014, Part 6.

Flaggers may be required for the adequate control of public traffic. Each flagger shall be equipped with a "Stop/Slow" paddle [C28A/B], a means of communication with other flaggers (radio, hand signals, or pilot car), and a clean bright orange vest, shirt or jacket. A minimum of two flaggers shall be provided for reversible lane control.

The Contractor shall place warning signs to notify the public 48 hours in advance of construction operations which will cause a delay that may exceed five minutes. Said signs shall list both the date and time of delay.

C1.03.05 Traffic Control Plan

The Contractor is wholly responsible for the preparation and execution of the TCP. The Contractor shall, five (5) days prior to start of construction, submit to the Engineer a detailed plan for traffic control during the various construction operations. No construction operations shall commence without a completed Traffic Control Plan, approved by the governing agency, such as Caltrans or County of Santa Barbara, depending on the location of the work. The Contractor's attention is directed to the requirements and provisions of Part 6 of the California MUTCD 2014.

The detailed plan shall, at a minimum, include evidence of sufficient equipment, signs, flagging, pilot vehicles and other Traffic Control System components as may be required to maintain traffic circulation through, and in the vicinity of, construction operations. The plan shall show in detail how traffic will be routed through and around the construction site, including traffic from cross streets, alleys, and private driveways. The plan shall also show the location of placement for signs that will provide advance warning to through traffic of street closures.

As an integral part of the traffic control plan, the Contractor shall designate one person as lead for traffic control. The traffic lead shall be responsible for the proper placement and operation of all traffic control components and have available sufficient additional traffic control equipment and resources in order to quickly execute any field

changes the traffic lead deems necessary. The traffic lead shall know and understand Part 6 of the California MUTCD 2014; especially understanding the proper placement and maintenance of a traffic control system.

C1.03.06 Trench Plates

All trench plates placed by the Contractor in the traveled way (both vehicular and pedestrian) shall have a slip resistant surface. Approach and ending trench plates shall be attached to the roadway by a minimum of 2 dowels predrilled into the corners of the plates and drilled 2" into the pavement. Subsequent plates are to be butted and tack welded together. For areas with a speedlimit 45 MPH or greater, pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimension of the plate. Under 45 MPH, fine graded asphalt concrete shall be compacted to form ramps maximum slope 8.5% with a minimum 12" taper to cover all edges of the steel plates. Prior to leaving each night, plates shall be secured and tested to ensure that they do not move or rattle. 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 allowed therefor.