

pressure for at least 48 hours. Required test pressure shall then be applied and maintained for a 4-hour period. Water required to maintain test pressure shall be measured by meter or other means acceptable to District. Contractor shall provide all necessary thrust restraint required for the hydrostatic testing.

THE MEASURED LEAKAGE SHALL NOT EXCEED 10 GALLONS PER INCH DIAMETER PER MILE PER 24 HOURS. Should leakage exceed this amount, the section being tested will be considered defective and Contractor shall determine points of leakage, make necessary repairs, and conduct a second test. This procedure shall be continued until leakage equals or is less than the allowable minimum. Note: No leakage is allowed for welded steel pipe with fully welded joints.

Contractor shall provide calibrated meters for measurement of leakage, necessary bulkheads, piping, gauges, pumps, power, and labor, and do and furnish everything necessary for making all tests required, at his own expense, and shall furnish to District copies of all tests performed. The District will provide the pressure gauge to be utilized for pressure testing purposes.

All pipe shall be pressure tested to at least 150% of the pipe class rating; i.e. Class 150 = 225 psi test pressure, as measured near the low point of the section of pipe being tested.

The hydrostatic test shall be conducted on sections of pipeline as directed by District. CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION OTHER THAN THAT STATED IN BIDDING SHEET FOR TESTING LINES. CONTRACTOR SHALL PAY THE DISTRICT FOR INSPECTION TIME FOR ALL RETESTS.

Care shall be taken to see that all air vents are open during filling. After section has been completely filled, it shall be allowed to stand under slight pressure for a sufficient length of time to allow escape of air from any air pockets. During this period all fittings, specials, manholes, and connections shall be examined for leaks. If any are found, they shall be stopped, using a method approved by District. REQUIRED TEST PRESSURE SHALL THEN BE APPLIED AND MAINTAINED FOR THE 4-HOUR PERIOD. Contractor, at his own expense, shall do all excavation necessary to locate and repair leaks or other defects which may develop under test, including removal of backfill already placed and shall replace such excavated material and shall make all repairs necessary to meet the required water tightness, after which test shall be repeated until pipe meets test requirements. ALL TESTS SHALL BE MADE IN THE PRESENCE OF DISTRICT OR HIS REPRESENTATIVE. After pipe has

successfully met test requirements, as specified, entire pipe shall be filled with water and so maintained until completion of the contract, unless otherwise ordered by District.

Pipe manufacturer and Contractor shall be responsible for any defects in materials and workmanship in manufacture and installation of pipe which may be revealed by such test and shall pay all costs of materials, labor, or other costs incidental to making necessary repairs or replacements resulting from such defects, in accordance with these Specifications.

### **13. DISINFECTING PIPELINES**

Contractor shall furnish all equipment, labor, material, and water for proper disinfection of pipelines. Disinfection shall be accomplished by chlorination after lines have been tested for leakage but before they have been connected to existing system. Prior to chlorination, mains shall be thoroughly flushed out. The new mains shall be cleaned and flushed prior to disinfection. The flushing velocity to be obtained for pipes 12-inches and smaller in diameter shall not be less than 2.5 feet per second. The Contractor shall make the necessary arrangements to attain the minimum velocity. The Contractor shall take due precaution in providing for adequate drainage from the site.

Contractor shall submit filling, disinfection and flushing procedures to District for review. It is the responsibility of the Contractor to dispose of the flushed water from the project area. The Contractor is responsible for any damage as a result of flushing operations. This includes but not limited to: dechlorination of chlorinated water, obtaining written approval from adjacent property owners affected by flushing operations, safety, protection of storm drain inlets, etc. Contractor shall obtain discharge permit for De Minimus water flows from the California Regional Water Quality Control Board as detailed in these specifications.

The flushed water shall have a residual chlorine content not to exceed 0.10 mg/l prior to discharging into the storm drain system. The flushing operation shall be in accordance with the California Regional Water Quality Control Board requirements. Dechlorination prior to flushing is required. The cost of said dechlorination shall be the responsibility of the Contractor.

The Contractor shall provide adequate drainage from the site.

The entire pipeline, including all valves, fittings, hydrants, service laterals, and other accessories, shall be disinfected in accordance with the specifications provided herein.

A chlorine gas-water mixture shall be applied with a solution-feed chlorinating device. Chlorinating agent shall be applied at locations selected by District and as prescribed by him. DOSAGE APPLIED TO WATER WITHIN PIPELINE SHALL BE AT LEAST 50 PPM.

Chlorinated water shall be retained in pipeline long enough to destroy all non-spore-forming bacteria. This period shall be at least 24 hours. After chlorine-treated water has been retained for required time, CHLORINE RESIDUAL AT PIPE EXTREMITIES AND AT OTHER REPRESENTATIVE POINTS SHALL BE AT LEAST 25 PPM.

Following chlorination, all disinfection water shall be thoroughly flushed from the pipeline.

Should initial treatment fail to produce satisfactory disinfection of the pipeline as evidenced by the chlorine residual and/or the bacteriological test results, the chlorination procedure shall be repeated until acceptable results are obtained. Contractor shall use caution in discharging any highly chlorinated water, and shall be responsible for obtaining any necessary permission and permits from regulatory agencies. If required, the Contractor shall apply a reducing agent to the solution to neutralize residual chlorine or chloramines remaining in the water at his expense.

Bacteriological tests required by the Health Department shall be taken by the District, and conducted by a laboratory selected by and paid by the District (paid for by the Developer for private projects). All costs for any retesting that may be required shall be paid by the Contractor. All retesting shall conform to District requirements.

Unless otherwise specified herein, minimum requirements for disinfection and bacteriological testing of new pipelines shall be in accordance with ANSI/AWWA C651 except as modified herein; and the location and number of all tests shall be determined by the District, with approval by the State Health Department. A minimum of two (2) consecutive passing bacteria samples (absent for Coliform, absent for e. coli, and HPC $\leq$  300) are required by the District. The first set of samples shall be taken 24 hours after pipeline is completely flushed and water in said pipeline has been at rest without any water flows. The second set of samples shall be taken 24 hours after first set of

samples were taken and water in said pipeline has been at rest without any water flows. No connections to District's existing water system shall be made until certified test results, in writing for both sets of samples are provided to District for review and approval.

Once District provides approval for connections to District water system, Contractor can make connections. One sample will be taken immediately following completion of connection and energizing of existing line and connection within the vicinity of the connection and second sample taken 24 hours later in same location. This procedure shall be repeated at all proposed connection locations.

**14. NOT USED**

**15. STEEL CASING**

Steel casing shall be butt welded of sheets conforming to ASTM Specification A283/A283M or A53/A53M and shall be constructed at the location shown on the plans or as directed by the District. Construction may be by open trench.

The casing pipe shall have a steel thickness not less than 3/4 inch. It shall be the Contractor's responsibility for selecting a size of casing, at or above the minimum specified, in order that the installation may be done with a sufficient degree of accuracy. Any and all increased costs resulting from the Contractor's use of steel casing pipe with greater diameter or thickness than the minimum specified shall be borne by the Contractor.

Carrier pipe conforming to these specifications for the designated pipe shall be installed within the casing pipe to the lines and grades shown on the plans. The carrier pipe shall be supported on Advanced Products & Systems Casing Spacers and Insulators or District approved equal. The ends of the steel casing shall be sealed with brick and mortar with a weep hole installed at lower end for drainage. The annular space between the steel casing and carrier pipe shall be left empty unless grouting is specified by the Engineer or on the plans.

Measurement for payment for casing pipe, excluding carrier pipe within said casing, shall be made along the centerline of the casing pipe between the limits shown on the plans and/or staked in the field.

Payment for steel casing pipe will be at the contract unit price per linear foot for steel casing pipe placed in accordance with these plans and specifications. Payment shall be full compensation for furnishing all labor, excavation, backfill, steel casing pipe, shoring, equipment, services, transportation, sand cement, concrete, all grouting operations described herein, and other appurtenant items of labor and material required to complete the work. The water carrier pipe will be paid for under the bid item for pipe.

## **16. JACKED STEEL CASING**

### **PERMIT PROVISIONS AND REQUIREMENTS**

- A. Contractor shall be responsible for obtaining any required permits other than those indicated in the Special Conditions to be obtained by the Authority. Contractor shall comply and adhere to all permit requirements at no additional cost to the Owner.
- B. Where Agency permit provisions differ from the specification requirements stated herein, the highest and most stringent standard or requirement shall govern; and Contractor shall construct the installation to said higher standard at no additional cost to the Authority.

### **CASING SPACERS**

Casing isolators/spacers shall have a minimum 14 gauge steel band and where required, 10 gauge risers. The band, risers and connecting studs shall be welded and cleaned at the factory before the application of a fluidized bed fusion bonded PVC coating of between 10-16 mils thickness. The PVC coating shall provide good resistance to acids and alkalis and excellent resistance under ASTM B117 salt spray tests. The isolators/spacers shall have a flexible PVC inner liner of 0.09 inch thickness with a durometer "A" 85-90 hardness and a minimum 58,000 volt dielectric strength. The runners shall be high pressure molded glass reinforced polymer with a minimum compressive strength of 18,000 psi per ASTM D638. The runners shall be 2.0 inch in width and a minimum of 7.0 inches long for C8G-2 models and 11" for C12G-2 models (polyethylene runners are not an acceptable alternative). The runners shall be attached to the band or riser by 3/8" welded steel studs and lock nuts which shall be recessed far below the wearing surface on the runner. The recess shall be filled with a corrosion inhibiting filler. The band section shall be bolted together with cadmium plated

studs, nuts and washers. End seals shall be made of synthetic rubber. Banding straps shall be made of stainless steel.

Products of the type indicated shall be made by one of the following:

1. Casing Spacers – Pipeline Seal and Insulator Inc. Model C12G-2, Advance Products & Systems Inc. Model SSI12, or approved equal.
2. End Seals – Pipeline Seal and Insulator Inc. Model S, C or W, Advance Products & Systems Inc. Model AC or AW, or approved equal.

The Contractor shall give the Authority a minimum of three (3) days advance notice of the start of an excavation or boring operation. All work shall be performed in the presence of the Authority, unless the Authority has granted prior approval to perform such work in its absence. All welding procedures used to fabricate steel casings shall be pre-qualified under the provisions of ANSI/AWS D1.1. Welding procedures shall be required for, but not necessarily limited to, longitudinal and girth or special welds for pipe cylinders, casing joint welds, reinforcing plates and grout coupling connections. No exterior or interior joints of the carrier pipe shall have mortar grout applied over a seam until the seam has cooled. Exterior and interior joints of the carrier pipe shall be mortar coated and lined in the field.

#### INSTALLATION OF STEEL CASING

The steel casing shall be installed by conventional trenching methods, see project plans for additional details. No jacking and boring is anticipated.

**CONTROL OF ALIGNMENT AND GRADE:** The Contractor shall ensure the proposed pipe does not deviate from the required line and grade, which shall be the same line and grade of the existing casing.

**GROUTING:** Not used.

#### INSTALLATION OF STEEL CARRIER PIPE

**JOINTS:** All joints of the carrier pipe within the casing shall be in accordance with Authority Standards.

**INSTALLATION OF PIPE:** The end seals shall be pulled on (in case of pull on type of seals) and the casing spacers shall be installed over the carrier pipe at the proper location, in accordance with the casing spacers manufacturer's instructions. Care shall be taken not to damage the carrier pipe coating or the inner coating of casing pipe while installing the carrier pipe. The position of the runners in the carrier pipe and casing shall be as indicated and shall be uniform throughout the casing length.

**TESTING OF THE CARRIER PIPE:** Testing of the carrier pipe shall be completed prior to strapping the end seals.

**CASING SPACERS:** Casing spacers shall be installed at 6' O.C. with a minimum of two spacers as close as possible to both the entry and exits of the casing at 1' O.C.

**END SEALS:** After the carrier pipe has been tested, the end seals shall be strapped by stainless steel bands in accordance with the manufacturer's instructions.

Measurement for payment for casing pipe excluding carrier pipe within said casing shall be made along the centerline of the casing pipe between the limits shown on the plans and/or staked in the field.

Payment for steel casing pipe will be at the contract unit price per linear foot for steel casing pipe placed in accordance with these plans and specifications. Payment shall be full compensation for furnishing all labor, excavation, backfill, steel casing pipe, shoring\*, equipment, services, transportation, sand cement, concrete, all grouting operations described herein, and other appurtenant items of labor and material required to complete the work. The water carrier pipe will be paid for under the bid item for pipe. The ends of the casing pipe shall be closed using an end seal as manufactured by Advanced Products and Systems, Inc. or Authority approved equal. Brick and mortar is not acceptable.

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\* Shoring shall be by steel shield from top of bore pit excavation to bottom, unless otherwise directed by Engineer.

**17. CORROSION PROTECTION**

Where indicated on the Drawings, cathodic protection test stations and/or flange insulation kits with test stations shall be constructed in accordance with the applicable District Standards. Payment for installation of cathodic protection test stations and/or flange insulation kits with test station shall be per the unit bid price indicated on the Bidding Sheet for each installation, and no additional compensation shall be made therefore.

**18. NOT USED**

**19. VIDEO INSPECTION (CML/CMC WATERLINES)**

Upon completion of the installation and backfill of the water pipeline, appurtenances, services, etc. and prior to filling the pipeline with water for the pressure test, the Contractor shall notify the District that the pipeline system is ready for video inspection. Said notification shall be made at least five (5) working days in advance of the actual video inspection date. The video inspection will be made by a video inspection company approved by the District and hired by the Contractor. Video inspection shall be made in the presence of the District or his representative. Prior to the video inspection, the contractor shall be responsible to provide the following items:

- A. Clean water pipelines free of all dirt, rock, debris, etc.
- B. Labor and equipment necessary to excavate the pipeline and provide camera access ports. Access ports shall not exceed 1000 feet in spacing and shall be located at all bends in excess of 22°. Also, labor and equipment necessary to repair the access ports to the satisfaction of the District.
- C. Driveable truck access to each access port within the system to be videoed.
- D. Provide all traffic control methods required.

Should any of the aforementioned items not be in compliance by the time the video inspection is to occur, the Contractor shall be subject to compensating the District for all costs incurred.



Full compensation to the Contractor for complying with the above requirements shall be considered as included in the contract lump sum provided for such work and no additional allowance will be made therefore.

Upon completion of the video for the subject waterlines, the Contractor shall reconnect the piping and backfill all access ports. The video inspection company will provide the District with the DVD (video file format to be viewable on a standard DVD player/computer and/or as approved by the District) and a written report detailing the condition of the interior of the mainline and joints. Subsequent to review of the DVD and report by the District, the District will notify the Contractor that he may then proceed with the filling, testing, and disinfection of the pipeline; or the District will provide a list of corrective measures that must occur prior to acceptance.

Should remedial activities be necessary, the reconstruction methodology shall be approved by the District prior to commencement of the work. Upon completion of the remedial construction, the Contractor shall once again notify the District that the waterlines are ready for a video inspection. The District reserves the right to re-video any portions of the water system they determine may have been affected by the reconstruction work activities. Further, all related costs including but not limited to reconstruction materials, labor, equipment, video inspection, District and other agency inspection, and administrative costs shall be borne by the contractor.

## VIDEO INSPECTION COMPANY REQUIREMENTS

(Closed Circuit Television Inspection - CCTV)

1. Rotating lens camera with articulating head.
2. Scanning capabilities of 360°.
3. Operative in 100% humidity conditions.
4. Lighting for the camera shall minimize reflective glare.
5. Lighting and camera quality shall be suitable to provide clear, in focus picture of the entire periphery of the pipe for all conditions.
6. Camera focal distance shall be adjustable through a range from 6" to infinity.
7. Remote reading distance (footage) counter shall be accurate to one percent (1%) over the length of the particular section being inspected.
8. The camera, television monitor, and other components of the color video system shall be capable of producing a minimum of 350 line resolution.
9. Documentation consisting of a DVD (video file format to be viewable on a standard DVD player/computer and/or as approved by the District) and a written report detailing the condition of the mainline and joints shall be submitted to the District inspector immediately following the video inspection. Each disc shall be labeled with the project or subdivision name, number and pipe run numbers it contains. Each disc shall be delivered in a plastic case.
10. All video equipment used for domestic water systems shall be certified for domestic waterline inspection only and shall never have been utilized in a non-potable system.
11. The CCTV camera operator shall stop at each defect and pipe joint and televise the entire joint with the pan and tilt feature on the head of the camera, initially, in a complete counterclockwise direction followed by a complete clockwise direction. If a defect is found, the CCTV operator will "home up" the camera prior to defining the defect and determining it's size and location. The CCTV operator will also stop and record any

questionable item such as a stain, crack, paint mark, shadow found or character change in a pipe being inspected. In other words, the CCTV operator must stop, record and note anything questionable no matter how minor. The Engineer, as defined by JCSD Standard Specifications, not the CCTV operator, will decide if a questionable items is a "problem event" when that Engineer reviews the video inspection.

**Limonite Avenue at Interstate 15 (I-15)  
Interchange Improvements Project  
In the Cities of Eastvale and Jurupa Valley  
Project No. A3-0393**

**ATTACHMENT "D"**

**CONTRACTOR QUESTIONS AND RESPONSES**

The Questions and Responses information document is available on the County website at the following link during the advertisement period for this project:

<http://rctlma.org/trans/Contractors-Corner/Notices-Inviting-Bids>

This (downloadable) file is provided for reference only. For any discrepancy written on this Questions and Responses document, the Contractor shall conform to the contract documents.

**Limonite Avenue at Interstate 15 (I-15)  
Interchange Improvements Project  
In the Cities of Eastvale and Jurupa Valley  
Project No. A3-0393**

<b>CONTRACTOR QUESTIONS AND RESPONSES</b>		
<b>1</b>	Question	Are CAD files available for plans?
	Response	CAD files will not be available.
<b>2</b>	Question	Is There a DBE goal on this project?
	Response	There is no DBE goal for Limonite Ave. at I-15 Interchange project. This project is not federally funded.
<b>3</b>	Question	Is existing bridge sitting on driven piles?
	Response	Please refer to the Bridge As-Builts provided as part of the project Supplemental Information.
<b>4</b>	Question	The project drainage plans D5, D6, & D7 indicate Drainage System #21 as a 4x2 Caltrans box culvert. Is the equivalent Caltrans D83A precast standard allowed as a substitute to the cast in place plan?
	Response	A precast box is acceptable if the Contractor can make the required inlet connections and angle points in accordance with the provided details.
<b>5</b>	Question	Question Alternate Bid Schedules C and D are labeled as being for "Waterline on Overcrossing" for JCSD and CDA respectively, but the bid items within the schedules do not reflect waterline construction. Please clarify whether or not the bidders should provide a price for these waterlines, and please clarify where said work should be paid.
	Response	Updated bid items for Alternate Bid Schedules C and D are included in Addendum No 3.
<b>6</b>	Question	Will interior milestones, such as shown on the liquidated damages table, be moved if NTP does not occur at the specified date or if there are non-working days granted?
	Response	Yes. If the NTP is moved, the internal milestone completion dates will be moved accordingly. The contractor is required to provide a baseline schedule showing the mile-stone completion dates incorporated into the baseline schedule.
<b>7</b>	Question	Will the Contractor be granted a non-working day for the inability to work due to the requirement to not delay the RCTC I-15 Design Build project work?
	Response	The contractor is required to conduct their work expeditiously, avoid impacting the ongoing I-15 Express Lanes Project, and continuously coordinate with I-15 Express Lanes contractor. Should there be any real delays affecting the critical path/milestone completion dates, the contractor will be granted non-working days. The contractor must diligently & continuously coordinate with the I-15 Express Lanes contractor.
<b>8</b>	Question	Will the Contractor be required to perform the work indicated in the Environmental Commitments Record? If so, in which bid items do these efforts get paid?
	Response	The Contractor shall perform work within the ECR noted to be handled during construction. Items included in the ECR are included in the various items of work as they are requirements of the environmental permits, included in the plans, standard BMPs required by the SWPPP, included in the Special Provisions, or general regulations. .
<b>9</b>	Question	Are there specifications that govern the 30" waterlines on plan sheets W-1, W-2 and WD-1.
	Response	"Pipeline Work – I-15/Limonite Avenue Interchange" specifications, as referenced by section 77-1 of the Special Provisions for work on the waterline, are included as part of Addendum 3.
<b>10</b>	Question	We are requesting a bid postponement of this project so that we can adequately bid both of the County's current interchange projects being advertised.
	Response	See Addendum No. 3.

**Limonite Avenue at Interstate 15 (I-15)  
Interchange Improvements Project  
In the Cities of Eastvale and Jurupa Valley  
Project No. A3-0393**

<b>CONTRACTOR QUESTIONS AND RESPONSES</b>		
<b>11</b>	Question	Plan Sheet X-1, Bidding Documents Class 2 Aggregate Subbase (AS) is called out on plan sheet X-1, but there is no bid items for it. Where will the Class 2 Aggregate Subbase be paid?
	Response	See Addendum No. 3. Revised plan sheets
<b>12</b>	Question	Per the Traffic Handling Quantity table illustrated on plan sheets THQ-1 & THQ-2, the last sheet identified on THQ-1 is Sheet No. TH-34 and the table continues on THQ-2 with Sheet No. 44. It appears that the Traffic Handling Quantity table is missing Sheet No.'s TH-35 through TH-43. Please provide a revised Traffic Handling Quantity table.
	Response	See Addendum No. 3.
<b>13</b>	Question	The quantity for bid item 17, 1990 LF of Temporary Railing (Type K), appears to be substantially less than what is shown on the traffic handling sheets (TH-1 through TH-52). Can you please clarify the quantity of Type K Railing?
	Response	See Addendum No. 3.
<b>14</b>	Question	When do the working day allowances shown in Special Provisions Section 5-1.36C(3) begin?
	Response	The 160 days begins the day SCE starts the relocations of their lines.
<b>15</b>	Question	Payment for the waterline extension is listed as being specified in Appendix A, but the Appendix A provided is AQMD Recommendations. Will the provisions for the payment of the waterline be provided through a separate addendum?
	Response	"Pipeline Work – I-15/Limonite Avenue Interchange" specifications, as referenced by section 77-1 of the Special Provisions for work on the waterline, are included as part of Addendum 3.
<b>16</b>	Question	Please clarify the definition of the "(P)" in the Bid Item Codes.
	Response	The "P" indicates bid items that are eligible for partial payment.
<b>17</b>	Question	For the existing Edison electrical system which runs through the North side of the existing bridge, when will that system be available to be abandoned? Is it part of the 160 working day allowance shown in Special Provision Section 5-1.36C(3)?
	Response	That system will be de-energized/abandoned as soon as SCE has energized their relocated lines. This is included in the 160 working days shown in the Special Provisions.
<b>18</b>	Question	For the Edison overhead electrical system which runs on the North side of Limonite between Pats Ranch Road and I-15, existing poles are in conflict with stage 1A construction. Will these poles be removed prior to the project start? Are they part of the 160 working day allowance shown in the Special Provision Section 5-1.36C(3)?
	Response	Staging is being revised to address the conflict within Stage 1A. Revised staging will be issued via a supplemental addendum.

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION  
**ENCROACHMENT PERMIT**  
TR-0120 (REV. 6/2012)

Permit No.	08-18-A-OP-0298	
Dist/Co/Rte/PM	08 / RIV / 15 / 46.7-49.7	
Permit Approval Date	03/29/2018	
Fee Paid	Deposit	
\$ EA 0800020201/EA0E150	\$ EA 0800020201/EA0E150	
Performance Bond Amount (1)	Payment Bond Amount (2)	
\$ 0.00	\$ 0.00	
Bond Company		
Bond Number (1)	Bond Number (2)	

In compliance with:

Your application of March 23, 2018

Utility Notice No. \_\_\_\_\_ of \_\_\_\_\_

Agreement No. 08-1662 of \_\_\_\_\_

R/W Contract No. \_\_\_\_\_ of \_\_\_\_\_

TO: County of Riverside  
4080 Lemon Street, 8th Floor  
Riverside, CA 92502-1090  
Attn: John Marcinek 951-955-3727

, PERMITTEE

and subject to the following, PERMISSION IS HEREBY GRANTED to:

Enter onto Interstate 15 right of way at Limonite Avenue within the Cities of Eastvale and Jurupa Valley in Riverside County to construct interchange improvement project as per permit plans and Special Provisions date stamped March 22, 2018 by Caltrans District 8 Encroachment Permit Office and/or to the satisfaction of the Caltrans Representative.

Notwithstanding General Provision #4, your contractor is required to apply for and obtain an encroachment permit prior to starting work. A copy of this project Payment & Performance bonds with the County of Riverside is required at the the time of his permit application.

A pre-job meeting with the assigned Caltrans Representative, Kee Ooi, (909) 605-2743, is required at least 7 days prior to start of any work under this permit. Failure to do so may result in permit revocation with no prejudice.

**THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.**

The following attachments are also included as part of this permit (Check applicable):

- Yes  No General Provisions
- Yes  No Utility Maintenance Provisions
- Yes  No Storm Water Special Provisions
- Yes  No Special Provisions
- Yes  No A Cal-OSHA permit, if required: Permit No. \_\_\_\_\_
- Yes  No As-Built Plans Submittal Route Slip for Locally Advertised Projects
- Yes  No Storm Water Pollution Prevention Plan / Water Pollution Control Plan

In addition to fee, the permittee will be billed actual costs for:

- Yes  No Review
- Yes  No Inspection
- Yes  No Field Work

(if any Caltrans effort expended)

Yes  No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before March 27, 2019

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work shall be commenced until all the other necessary permits and the environmental clearances have been obtained.

PERMIT ENGINEER: Art Haidary  
COPIES TO:  
Maintenance: Corona  
Oversight R.E.: Kee Ooi  
Permits Inspector Ray Behbahani  
P.M.: Emad Maker  
File

APPROVED:

John Bulinski, District Director

BY:

RICHARD GSH, P.E., District Permit Engineer

PAGE 1: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

In addition to the attached General Provisions, the following checked special provisions are applicable:

A PRE-JOB MEETING WITH THE ASSIGNED CALTRANS REPRESENTATIVE, Kee Ooi, (909) 605-2743 AT LEAST 7 DAYS IS REQUIRED PRIOR TO START OF ANY WORK UNDER THIS PERMIT. FAILURE TO DO SO WILL RESULT IN PERMIT CANCELLATION AND RESUBMITTAL MAY BE REQUIRED.

Notwithstanding General Provision #4, your contractor is required to apply for and obtain an encroachment permit prior to starting work. A fee/deposit of \$ N/A for inspection, and \$ N/A for electrical equipment is required at the time of application.

You are required to submit an approved Storm Water Pollution Prevention Plan (SWPPP) for projects with a cumulative disturbed soil area equal or greater than 1 acre, and an approved Water Pollution Control Program (WPCP) for projects with a disturbed soil area less than 1 acre, unless otherwise required by other agencies (RWQCBs, U.S. Army Corps of Engineers, Department of Fish and Game, etc.).

Upon the expiration of this permit, the Permittee is required to apply for the countywide annual maintenance permit for this new facilities installed under the Permit No.:                                 .

The Permittee is required to apply for a separate permit to maintain and/or replace in kind of these facilities on each occurrence upon the expiration of this permit.

The Permittee shall provide the stage construction traffic handling plans, work schedule and a list of all sub-contractors to the Department's Representative at the time of the pre-construction meeting or prior to start construction.

All traffic control, signing and striping shall comply with California MUTCD 2014. It is available at: [http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca\\_mutcd.htm](http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca_mutcd.htm)

Permittee and his/her contractors shall comply with Department 2015 Standard Specifications, Department 2015 Standard Plans, and all the latest revisions implemented as of this permit issued date, and the project specific special provisions for Oversight Projects and Streamlined Oversight Projects. It is the responsibility of the permittee and his/her contractors to verify with the Department Standard Plans, Standard Specifications, and all the latest revisions as of this permit issued date before ordering any materials for the project within the Department Right-Of-Way. The Department Standard Plans, Standard Specifications, and the Revisions are available at: <http://www.dot.ca.gov/hq/esc/oe/standards.php>

Permittee and/or permittee's authorized contractor/agent are required and responsible to identify the Department's underground electrical systems before performing any excavation work within the right of way.

All personnel shall wear hard hats and orange or lime vests, shirts or jackets as appropriate while on State property.

The Permittee's work shall be subordinated to any operations which the Department may conduct and shall not delay, nor interfere with the Department's Forces or Department's Contractors.



PAGE 2: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

Attention is directed to Standard Specifications Section 7-1.11, Preservation of Property, and Business and Professions Code, Section 8771. The Permittee shall physically inspect the work site and locate survey monuments prior to work commencement. Monuments shall be referenced or reset in accordance with the Business and Professions Code.

Except for installing, maintaining and removing traffic control devices, any work encroaching within 3 feet of the edge of a traffic lane for areas with a posted speed limit below 45mph, or 6 feet of the edge of a traffic lane, for areas with a speed limit posted at 45mph or higher, shall require closing of the adjacent traffic lane. Permittee shall notify the Department's Representative, and obtain approval of, all traffic control, lane closures or detours, at least seven (7) WORKING DAYS prior to setting up of any traffic control.

No lane may be closed or obstructed at any time unless specifically allowed per the encroachment permit, shown in approved traffic control plans, and/or as directed by the Department's Representative.

Traffic control is generally authorized between 9:00 AM and 3:00 PM only on Monday through Thursday and until 1:00 PM on Fridays, excluding holidays except specified in the Permit. Lane closure is not allowed on Saturdays, Sundays and designated holidays. The designated holidays are: January 1st, the third Monday in January, the second and third Mondays in February, March 31, the last Monday in May, July 4th, the first Monday in September, the second Monday in October, November 11th, Thanksgiving Day, the day after Thanksgiving Day, and December 25th. When a fixed holiday falls on Saturday, the preceding Friday shall be designated as holiday.

Should any deviation from these procedures or conditions be observed, all work shall be suspended until satisfactory steps have been taken to ensure compliance.

If time extension is necessary, a request for time extension and the accompanying attachments must be made a minimum of two (2) weeks prior to completion date stated on face of permit. If work has not been started before completion date, the permit will be voided. Failure to comply with rules and regulations stated on permit will jeopardize future permit privileges.

"AS-BUILT" PLANS ARE REQUIRED UPON COMPLETION OF ALL WORK. PLEASE REFER TO THE GENERAL PROVISION TR-0045, ITEM 22 FOR THE "AS-BUILT" REQUIREMENTS. NO FINAL INSPECTION WILL BE PERFORMED UNTIL THE DEPARTMENT IS IN RECEIPT OF "AS-BUILT" PLANS.

No vehicle or equipment shall be stored overnight within the right of way; it shall be removed immediately at the completion of the day's work. Refueling of vehicle or equipment within the right of way is strictly prohibited.

Required traffic control devices shall be installed around fixed objects to warn the motoring public for safety. Personal vehicles of the contractor shall not be parked within freeway right of way.

No materials or waste shall be stockpiled within State right of way.

Except as specifically provided herein, all requirements of the Vehicle Code and other applicable laws must be complied with in all particulars.

When traffic cones or delineators are used to delineate a temporary edge of traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane. The permittee shall not reduce the width of the existing lane to less than 10 feet without written approval from the Department's Representative.

PAGE 3: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

Excavations made within the limits of the right of way shall be backfilled and resurfaced to original condition before leaving the work area unless otherwise authorized by the Department's Representative.

All trenches repair shall comply with ENCROACHMENT PERMIT TRENCH DETAIL, TR-0153 or to the satisfaction of the Department's Representative.

Permittee shall be responsible for arranging the services of a qualified traffic control contractor to provide any needed traffic control.

The permittee shall arrange a meeting between his field representative, traffic control contractor, Department's Representative and/or CHP at least two (2) weeks prior to start of any work covered under this permit to arrange date and time of starting work and determine appropriate methods of handling traffic. At least 3 working days notice shall be given to the Caltrans representative and/or the CHP, prior to the meeting to allow time to arrange for attendance.

A copy of this permit, complete with all attachments, shall be kept by permittee/contractor working under this permit and must be shown to the Department Permit Inspector, Department's Representatives, or Law Enforcement Officer, on demand.

The permittee shall be responsible for notifying the appropriate utility companies or underground service alert prior to any excavation work.

The permittee shall notify the California Highway Patrol Area Commander at least 72 hours prior to implementing traffic control.

When the work area encroaches upon a sidewalk, walkway, or crosswalk area, special consideration must be given to pedestrian safety. Protective barricades, fencing, handrails and bridges, together with warning and guidance devices and signs must be utilized so that the passageway for pedestrians, especially blind and other physically handicapped, is safe and well defined and shown on the approved permit plan.

Pedestrian walkways and canopies within State Right of Way shall comply with the requirements of the applicable local agency or of the latest edition of the Uniform Building Code whichever contains the higher standards.

[For City or County projects with utility relocations:]

If existing public or private utilities conflict with the construction PROJECT, PERMITTEE will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. PERMITTEE shall inspect the protection, relocation, or removal of such facilities. Total costs of such protection, relocation, or removal which STATE or PERMITTEE must legally pay, will be borne by PERMITTEE. If any protection, relocation, or removal of utilities is required, including determination of liability for cost, such work shall be performed in accordance with STATE policy and procedure. PERMITTEE shall require any utility company performing relocation work in the STATE's right-of-way to obtain a State Encroachment Permit before the performance of said relocation work. Any relocated utilities shall be correctly located and identified on the as-built plans.

[For other projects with utility relocations:]

If existing public or private utilities conflict with the construction PROJECT, PERMITTEE will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. PERMITTEE

PAGE 4: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

shall inspect the protection, relocation, or removal of such facilities. Total costs of such protection, relocation, or removal shall be borne by PERMITTEE in compliance with the terms of the Highway Encroachment Permits, Case Law, Public Utility Regulations, and Property Rights. PERMITTEE shall require any utility company performing relocation work in the STATE's right-of-way to obtain a State Encroachment Permit before the performance of said relocation work. Any relocated utilities shall be correctly located and identified on the as-built plans.

PAGE 5: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

PERMIT NO.: 08-18-A-OP-0298

CO/RTE/PM: 08/RIV/15/46.7-49.7

PRECONSTRUCTION MEETING AGREEMENT

I, \_\_\_\_\_, acting as an authorized agent for the permittee, \_\_\_\_\_, do hereby agree to personally accomplish or have another designated person arrange for all involved company representatives to attend a pre-construction meeting with the authorized Department's Representative at \_\_\_\_\_, as specified on this permit. Such meeting must be held two (2) days or more prior to the planned start of the work on this project. The Authorized Department's Representative shall have complete authority to determine whether the permit conditions, either implied or written, have been complied with. The Department's Representative may then allow the permit work to proceed as appropriate. The Pre-construction Meeting Record below must be signed by both the Department's Representative and the permittee before the permit work may start.

I have read and understand the attached General Provisions TR-0045 and other attached provisions of this permit.

This agreement or a copy thereof, must be mailed back to the **Department's District 8 Encroachment Permit Office at 464 W. 4th. Street, MS 619, San Bernardino, CA 92401-1400**, within three (3) working days prior to the pre-construction meeting. Failure to return this form could delay the release of your bonds. A copy of this document shall be at the job site at all times when work is in progress and failure to do so may result in the suspension of work, as directed by the Department's Representative.

It is the permittee's responsibility to insure that the Department's Representative is notified of work completion and that the attached Completion Notice is mailed to the Department's Permit office.

Signature Date

Print or Type Name

Position or Title

PAGE 6: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

**PRECONSTRUCTION MEETING RECORD**

Department's Representative

Date

Permittee's Representative

Date

Date Work May Begin: \_\_\_\_\_

PAGE 7: ATTACHED TO AND MADE PART OF PERMIT NO. 08-18-A-OP-0298

PERMIT NO.: 08-18-A-OP-0298  
CO/RTE/PM: 08/RIV/15/46.7-49.7

DEPARTMENT OF TRANSPORTATION-DISTRICT 8  
ENCROACHMENT PERMITS OFFICE  
464 W. 4th. Street, MS 619  
San Bernardino, CA 92401-1400

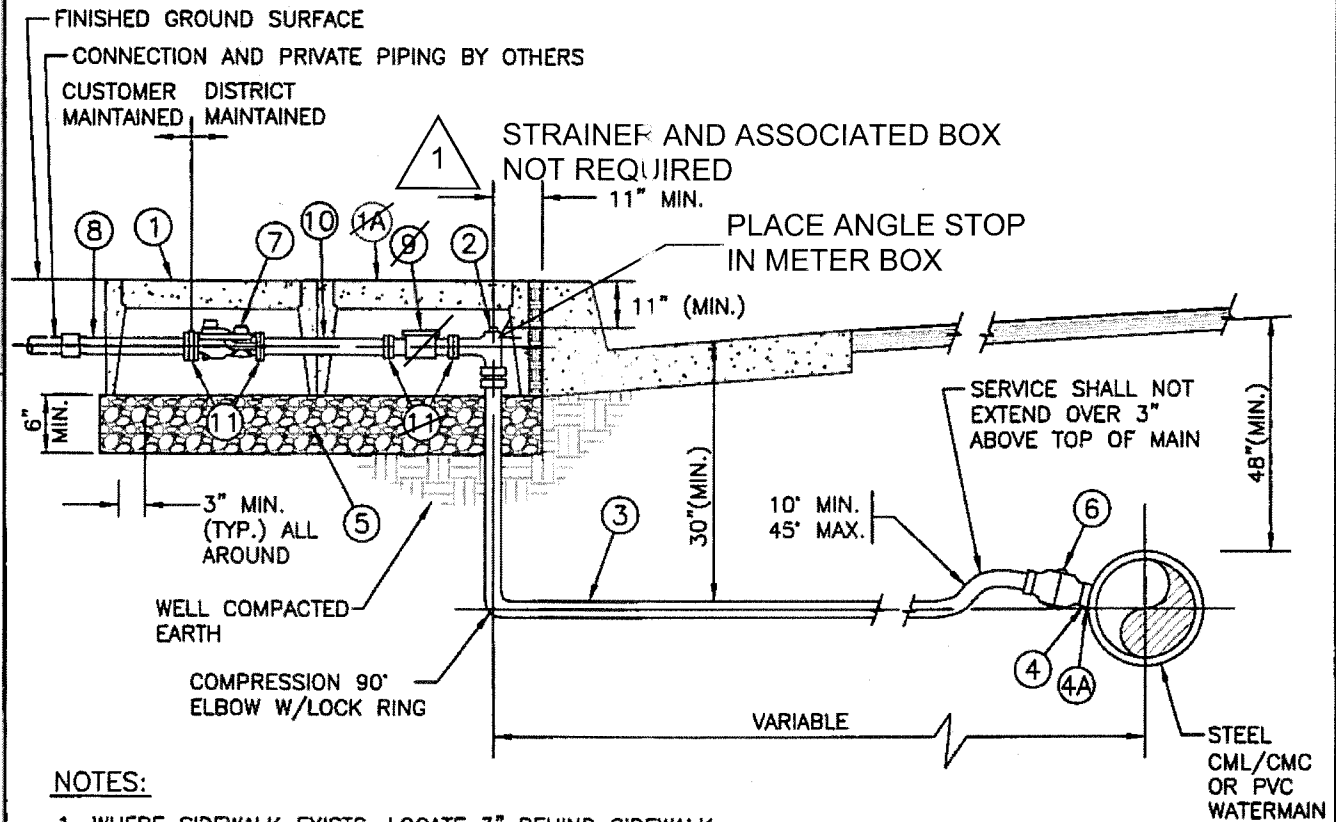
**100% COMPLETION NOTICE**

Work on Permit No.: 08-18-A-OP-0298 has been completed. A final inspection meeting was held on

Permittee's Representative                      Date

Department's Representative                      Date

**FAILURE TO COMPLETE AND RETURN THIS TO THE DISTRICT PERMITS OFFICE MAY CAUSE A DELAY  
IN THE RELEASE OF YOUR BONDS.**



**NOTES:**

1. WHERE SIDEWALK EXISTS, LOCATE 3" BEHIND SIDEWALK.
2. PIPE THREADS SHALL BE CLEAN AND SHARP AND SEALED WITH AN APPROVED JOINT COMPOUND.
3. METER SHALL NOT BE PLACED IN DRAINAGE AREA, DEPRESSIONS OR WITHIN TWO FEET OF A DRIVEWAY APPROACH.
4. PROVIDE 2" BRASS BALL VALVE W/ HANDLE BEHIND METER IN METER BOX IF BACKFLOW DEVICE IS NOT INSTALLED.

ITEM	DESCRIPTION
①	J&R CONCRETE PRODUCTS W5-1/2 & W3-1/2 SERIES METER BOX AND COVER OR APPROVED EQUAL
②	2" BRONZE BALL ANGLE METER STOP W/LOCK WING
③	2" COPPER WATER SERVICE, TYPE 'L', W/PROTECTIVE WRAP PER SPECIFICATIONS
④	BLK. STL. STD. COUPLING TO PIPE W/COLLAR PER STD. D-6 (FOR STEEL WATERMAIN)
④A	WATERMAIN DIA. x 2", SERVICE SADDLE PER DISTRICT SPECIFICATIONS (FOR PVC WATERMAIN)
⑤	3/4" DIA. CRUSHED ROCK
⑥	2" DIA. BALL CORP. STOP, I.P.T. INLET X PACK JOINT
⑦	2" TURBINE METER W/RADIOREAD, FURNISHED BY THE DISTRICT <span style="float: right;">△ 1</span>
⑧	2" X 12" BRASS PIPE
⑨	<del>2" STRAINER, FURNISHED BY DISTRICT</del> <span style="float: right;">△ 1</span>
⑩	2" BRASS PIPE, FIELD ADJUST (MAINTAIN 12" MIN. BETWEEN STRAINER & METER FLANGES)
⑪	FLANGE TO MATCH STRAINER & METER

## JURUPA COMMUNITY SERVICES DISTRICT

SCALE: NONE	<b>2" METER, 2" WATER SERVICE DETAIL</b>	DRAWING NO.
DATE: AUGUST, 2016	ALBERT A. WEBB ASSOCIATES CONSULTING ENGINEERS	<b>D-3</b>
REV. APPROVED BY: R.C.E. 26979	RIVERSIDE CALIFORNIA	W.O. 16-0168

**Contract No. 18-06-006**  
**Riverside County Transportation Dept.**  
**ESCROW AGREEMENT FOR SECURITY DEPOSIT IN LIEU OF RETENTION**

California Public Contract Code Section 22300

THIS ESCROW AGREEMENT ("Escrow Agreement") is made and entered into this 26<sup>th</sup> day of June, 2018, by and between County of Riverside Transportation Department ("Owner"), whose address is 3525 14<sup>th</sup> St. 2<sup>nd</sup> Floor, Riverside, CA 92501 and Guy F Atkinson Construction, LLC ("**Contractor**"), whose place of business is located at 18201 Von Karman Ave, 8<sup>th</sup> Floor, Irvine, CA 92612, and U.S. Bank National Association, whose place of business is located at 633 W. 5<sup>th</sup> Street, 24<sup>th</sup> Floor, Los Angeles, CA 90071 ("Escrow Agent").

For the consideration hereinafter set forth, Owner, Contractor and Escrow Agent agree as follows:


1. Pursuant to California Public Contract Code Section 22300, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to Contract entered into between Owner and Contractor for **Limonite Avenue at Interstate 15 (I-15) Interchange Improvements Project in the City of Eastvale and the City of Jurupa Valley, Project No. A3-0393** in the amount of **\$39,063,043.00** hereinafter referred to as the "Contract". Alternatively, on written request of Contractor, Owner shall make payments of the retention earnings directly to Escrow Agent. When Contractor deposits the securities as a substitute for Contract earnings, Escrow Agent shall notify Owner within ten Days of the deposit. The market value of the securities at the time of substitution shall be at least equal to the cash amount then required to be withheld as retention under terms of Contract between Owner and Contractor. Securities shall be held in name of U.S. Bank National Association, and shall designate Contractor as the beneficial owner.
2. Owner shall make progress payments to Contractor for those funds which otherwise would be withheld from progress payments pursuant to Contract provisions, provided that Escrow Agent holds securities in form and amount specified in Paragraph 1 of this Document.
3. When Owner makes payment(s) of retention earned directly to Escrow Agent, Escrow Agent shall hold them for the benefit of Contractor until the time that the escrow created under this Escrow Agreement is terminated. Contractor may direct the investment of the payments into securities. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when Owner pays Escrow Agent directly.
4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account, and all expenses of Owner. These expenses and payment terms shall be determined by Owner, Contractor, and Escrow Agent.
5. Interest earned on securities or money market accounts held in escrow and all interest earned on that interest shall be for sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to Owner.
6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Owner to Escrow Agent that Owner consents to withdrawal of amount sought to be withdrawn by Contractor.
7. Owner shall have the right to draw upon the securities in event of default by Contractor. Upon seven Days written notice to Escrow Agent from Owner of the default, Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by Owner.

**06.26.18, Item 3.68**

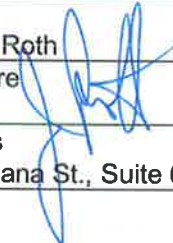


- 8. Upon receipt of written notification from Owner certifying that the Contract is final and complete, and that Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.
- 9. Escrow Agent shall rely on written notifications from Owner and Contractor pursuant to Paragraphs 5 through 8, inclusive, of this Agreement and Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of securities and interest as set forth above.
- 10. Names of persons who are authorized to give written notice or to receive written notice on behalf of Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

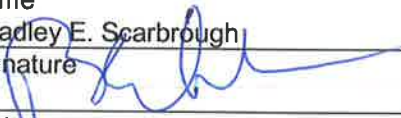
**ON BEHALF OF OWNER:**

County of Riverside  
 Title  
Director of Transportation  
 Name  
Patricia Romo  
 Signature   
 Address  
3525 14th Street, 2nd Floor Riverside, CA 92501

**ON BEHALF OF CONTRACTOR:**

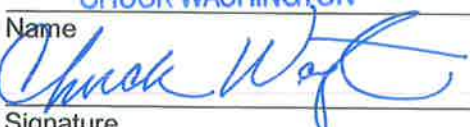
Guy F. Atkinson Construction, LLC  
 Title  
Chief Financial Officer  
 Name  
Jeffrey Roth  
 Signature   
 Address  
350 Indiana St., Suite 600 Golden, CO 80401

**ON BEHALF OF ESCROW AGENT:**


U.S. Bank, National Association  
 Title  
Vice President  
 Name  
Bradley E. Scarbrough  
 Signature   
 Address  
633 W. 5th Street, 24th Floor Los Angeles, CA 90071  
 City/State/Zip Code

IN WITNESS WHEREOF, the parties have executed this Escrow Agreement by their proper officers on the date first set forth above.

**OWNER**

County of Riverside  
 Chairman, Board of Supervisors  
 Title  
CHUCK WASHINGTON  
 Name  
 Signature 

**CONTRACTOR**

Guy F. Atkinson Construction, LLC  
 Chief Financial Officer  
 Title  
Jeffrey Roth  
 Name  
 Signature 

I-15 LIMONITE AVE INTERCHANGE  
IMPROVEMENTS

**06.26.18, Item 3.68**  
Escrow Agreement for Security  
Deposit in Lieu of Retention

FORM APPROVED COUNTY COUNSEL  
 BY Kristine Bell-Valdez 11/13/18  
 KRISTINE BELL-VALDEZ DATE

ATTEST:  
 KECIA HARRIS-HEM, CLERK  
 DEPUTY

**ATTEST**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name


Secretary

**ESCROW AGENT**

\_\_\_\_\_  
U.S. Bank, National Association

\_\_\_\_\_  
Vice President  
Title

\_\_\_\_\_  
Bradley E. Scarbrough  
Print Name

\_\_\_\_\_  
  
Signature

**REVIEWED AS TO FORM:**

\_\_\_\_\_  
Counsel for Owner

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

At the time the Escrow Account is opened, Owner and Contractor shall deliver to Escrow Agent a fully executed counterpart of this Agreement.

**END OF DOCUMENT**