

March 13, 2020



**TO:** CADA Board of Directors

**SUBJECT:** **March 20, 2020 Board Meeting**  
**AGENDA ITEM 7**  
**R STREET REMOVABLE BOLLARD INSTALLATION**

**CONTACT:** Todd Leon, Development Director

**RECOMMENDATION:**

Staff recommends the Board adopt a resolution authorizing the Executive Director to enter into a construction contract with B&M Builders in the amount of \$97,380 for the R Street Removable Bollard Installation project.

**BACKGROUND**

In 2018 CADA and the City of Sacramento completed the last phase of the R Street Streetscape Improvement Project. The R Street improvements between 10<sup>th</sup> and 18<sup>th</sup> Streets provided essential public infrastructure and other amenities for the R Street Corridor that have since helped spur and support meaningful private investments for the area. The “new” R Street has also attracted interest from several groups wanting to host various types of street parties. However, closing a street in the City of Sacramento can be an expensive endeavor as it typically requires the assistance of Sacramento Police Department to provide security and a removable barrier (police vehicle) to close the street.

In order to address the City requirements for street closures and attract future events on R Street between 16<sup>th</sup> and 18<sup>th</sup> Streets, a removable bollard system was included in the R Street Phase 2 Streetscape Project design. The Developer of the Ice Blocks project also provided additional removable bollards to the area on 17<sup>th</sup> Street and in Rice Alley. A removable bollard system was also considered for the R Street Phase 3 Streetscape project between 13<sup>th</sup> and 16<sup>th</sup> Streets but, due to budget limitations, it was not included in the design. Bollards were not considered during the design and construction of the R Street Phase I Streetscape project between 10<sup>th</sup> and 13<sup>th</sup> Streets.

To support street events throughout the R Street Corridor, the bollard project was added to CADA R Street Streetscape Budget in FY 15/16. Staff planned to install the removable bollards system on R Street between 10<sup>th</sup> and 15<sup>th</sup> Streets immediately after the completion of the Phase 3 project in the summer of 2018 but the project has been delayed due to complications with getting City approval. CADA staff and its consultant Cunningham Engineering worked with the City Public works staff for over a year to address City concerns and finally received City approval on November 26, 2019.

Staff solicited bids for the R Street Bollard Installation project through CADA's formal bidding process. The bid package was released on January 28, 2020. The project scope of work calls for the contractor to install removable bollard receivers on R Street as shown in **Attachment 1, Approved Construction Bidding Plans**.

The mandatory Pre-Bid Job Walk was held on Wednesday, February 19, 2020 at 10:00 a.m., and was attended by six (6) contractors as shown in **Attachment 2, R St. Bollards Job Walk-Thru Sign-in Sheet**. The following four (4) bid submissions were received on the March 4, 2020 due date as shown in **Attachment 3, Bid Tabulation Form**:

- B&M Builders \$97,380.00
- NFB Engineering \$118,200.00
- David Engineering \$151,400.00
- Pro Builders \$158,000.00 (non-responsive)

B&M Builders' bid of \$97,380.00 was determined to be the lowest responsive, responsible bid following staff review of the bid submissions. B&M Builders has been in business for over 15 years and has over 40 combined years of experience among the company's principals. Accordingly, staff recommends the Board authorize the Executive Director to enter into a construction contract with B&M Builders in the amount of \$97,380.

If this recommendation is approved by the Board, staff will issue a notice of award to B&M Builders immediately. The work should commence as soon as B&M and CADA staff are able to pull the revocable permits, receive approval of a traffic plan and provide acceptable insurance to the City of Sacramento. Finalizing the City permits should take approximately 2 weeks to complete. The contract scope of work provides that the contractor will create and obtain approval of the construction traffic plan and work with the City Public Works Inspector to proceed with the actual work. The R Street Removable Bollard installation project should take approximately two months to complete.

### **POLICY**

This item comes before the Board because the contract award amount exceeds the \$50,000 contract approval authority of the Executive Director. Construction contracts in excess of \$50,000 must be formally bid in accordance with CADA Contract Policy, and authorization for a contract award must be granted by the Board of Directors.

### **FINANCIAL IMPACTS**

Work under this contract will be funded using funds from the R Street Streetscape Infrastructure budget which currently contains \$143,628.

### **ENVIRONMENTAL REVIEW**

Not applicable. This is an administrative action and is not a project subject to the guidelines of the California Environmental Quality Act (CEQA).

## **STRATEGIC PLAN**

The proposed action addresses the following 2016-2021 CADA Strategic Plan goal to: "Build neighborhood amenities."

## **CONTRACT AWARD CONSIDERATIONS**

This construction contract was bid and awarded in accordance with CADA's Contract Policy and Outreach Procedures. If change orders are needed, CADA's contract policy allows the Executive Director to approve change orders in the cumulative amount of \$25,000 or 20% of the base contract amount, whichever is greater.

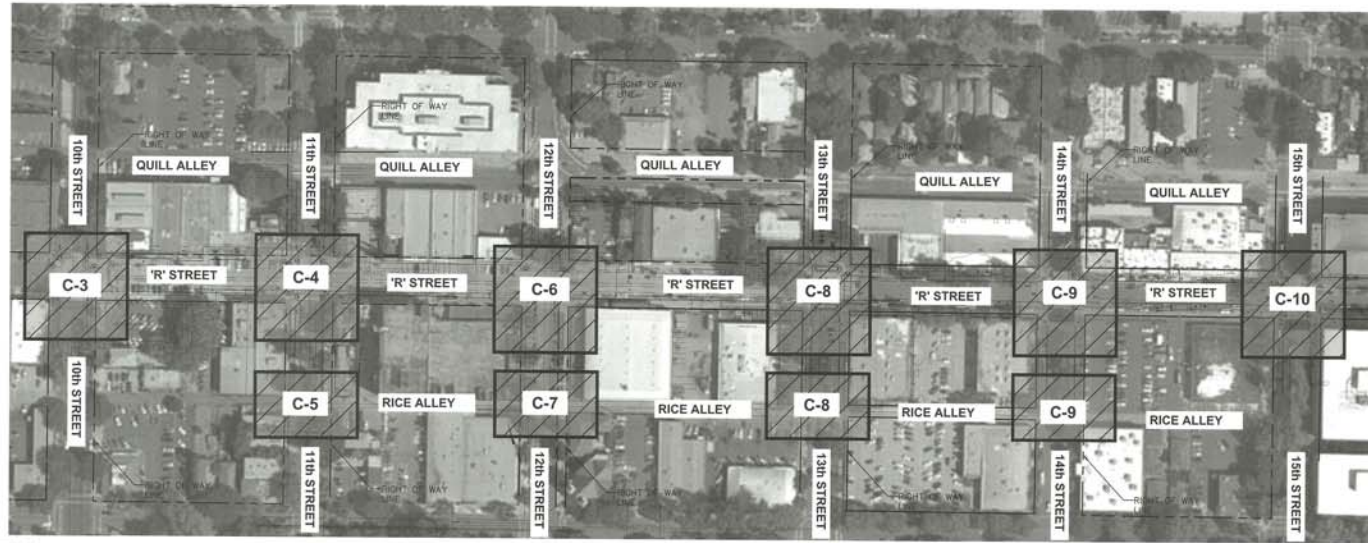
Attachments:

1. Approved Construction Bidding Plans
2. R Street Bollards Walk-Thru Sign-in Sheet
3. Bid Tabulation Form

# OFF-SITE IMPROVEMENT PLANS FOR R Street Bollards

R STREET

SACRAMENTO, CALIFORNIA  
NOVEMBER 2019



**SHEET INDEX:**

- C-1 TITLE SHEET
- C-2 CIVIL NOTE SHEET, LEGEND AND ABBREVIATIONS
- C-3 10th & R STREET IMPROVEMENTS
- C-4 11th & R STREET IMPROVEMENTS
- C-5 11th STREET IMPROVEMENTS
- C-6 12th & R STREET IMPROVEMENTS
- C-7 12th STREET IMPROVEMENTS
- C-8 13th & R STREET IMPROVEMENTS
- C-9 14th & R STREET IMPROVEMENTS
- C-10 15th & R STREET IMPROVEMENTS

**NOTES:**

1. EXISTING IMPROVEMENTS SHOWN ON DRAWINGS ARE BASED ON "R STREET IMPROVEMENT" AS-BUILT INFORMATION PREPARED BY OTHERS. CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION SHOWN ON PLANS PRIOR TO CONSTRUCTION.
2. THESE PLANS HAVE BEEN PREPARED TO PROVIDE DIRECTION ON THE INSTALLATION OF REMOVABLE BOLLARDS AT VARIOUS LOCATIONS ALONG R STREET (BETWEEN 10TH & 15TH) THAT WOULD HELP TO FACILITATE SHORT-DURATION ROAD SHUT-DOWNS OF PORTIONS OF R STREET FOR VARIOUS OUTDOOR EVENTS. PRIOR TO SUCH EVENTS, IT IS UNDERSTOOD THAT OWNER WILL PREPARE AND PROCESS APPROPRIATE PERMITS WITH THE CITY AND ANY OTHER AGENCY THAT MAY BE AFFECTED. IN ADDITION TO THE PLACEMENT OF REMOVABLE BOLLARDS, OWNER SHALL ALSO PREPARE A COMPREHENSIVE TRAFFIC CONTROL PLAN AND PROVIDE OR INSTALL ALL APPROPRIATE SIGNAGE, DELINEATORS, BARRICADES, LIGHTING, FLAGGERS AND/OR OTHER TRAFFIC CONTROLS AS NECESSARY TO ENSURE A SAFE CONDITION FOR THE TEMPORARY ROAD CLOSURES.
3. CADA OWNS THESE REMOVABLE BOLLARDS IMPROVEMENT AND CADA IS RESPONSIBLE FOR MAINTENANCE AND LIABILITIES ASSOCIATED WITH THESE REMOVABLE BOLLARD IMPROVEMENTS UNDER THE PROVISION OF THE REVOCABLE PERMIT RESOLUTION 01-045.
4. IF THE EVENT WOULD NOT ALLOW BIKERS/CYCLISTS WITHIN THE ROAD CLOSURES, PERMIT HOLDER AND/OR EVENT ORGANIZER SHALL INCLUDE IN THE EVENT'S TRAFFIC CONTROL PLAN THE PLACEMENT OF CLEAR SIGNAGE AND NOTICING THAT BICYCLE ACCESS IS NOT ALLOWED WITHIN THE ROAD CLOSURES. THE TRAFFIC CONTROL PLAN SHALL ALSO INCLUDE A LOW-STRESS BICYCLE DETOUR PLAN. ADDITIONALLY, IF THE EVENT WOULD ALLOW BIKERS/CYCLISTS WITHIN THE ROAD CLOSURES, PERMIT HOLDER AND/OR EVENT ORGANIZER SHALL RESTRICT BICYCLE ACCESS WHERE THE SPACING BETWEEN ADJACENT BOLLARDS IS LESS THAN 5'. THIS RESTRICTION SHALL BE INCLUDED IN THE EVENT'S TRAFFIC CONTROL PLAN.

**PROJECT SITE MAP**

SCALE 1"=100'

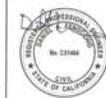
APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO

SUBMITTED BY: *D. Fenocchio* 11/20/19  
DAN FENOCCIO RICE C51484, CUNNINGHAM ENGINEERING CORP., DATE

ACCEPTED BY: *Jennifer Johnson* 11/25/19  
JENNIFER JOHNSON, PE C77032 SENIOR ENGINEER, DEVELOPMENT ENGINEERING SECTION DATE

ACCEPTED BY: *Timothy Jones* 11/27/19  
TIMOTHY JONES, PE C51484, CITY OF SACRAMENTO DATE

DATE REQUIRED: 11-20-19  
THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE CHECKERS SIGN BELOW HAS BEEN SIGNED AND DATED.



Cesar Narvaez II

NO.	REVISIONS DESCRIPTION	DATE	BY	BENCH MARK DESCRIPTION	ELEV. 15.950 FT.	FIELD BOOK	CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS			OFF-SITE IMPROVEMENT PLANS FOR R STREET BOLLARDS TITLE SHEET	
				BENCHMARK # 297-CSC HILTI NAIL TRAFFIC LIGHT BASE SW CORNER 10TH AND S STREETS (CONTROL LOOP 1989) CITY OF SACRAMENTO - SURVEY CONTROL DATABASE (PRINTED DECEMBER 2, 2002)			SCALE: HORIZ. 1"=50' VERT. 1/4"=1'	DRAWN BY: KATIE HANTEN DATE: NOVEMBER 19, 2019	DESIGN BY: CHARLES KRAPKA R.C.E. 573116 DATE 11/19/19	CHECKED BY: DANIEL A. FENOCCIO R.C.E. C51484 DATE 11/19/19	CFC19-0019 P15599300 REV16-0039 SHEET C-1 OF 10

**CITY OF SACRAMENTO GENERAL NOTES:**

- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED JUNE, 2007 AND ALL APPLICABLE ADDENDA.
- THE CONTRACTOR SHALL BE IN RECEIPT OF CITY ACCEPTED PLANS PRIOR TO BEGINNING CONSTRUCTION WITHIN THE STREET RIGHT-OF-WAY. ACCEPTANCE OF PLANS BY THE CITY OF SACRAMENTO IS BASED ON INFORMATION CONTAINED ON THE PLANS AND SUPPORTING DOCUMENTS IS CORRECT, AND DOES NOT SUBSTITUTE THE DESIGN ENGINEER'S RESPONSIBILITY FOR THIS PROJECT. ANY AND/OR ALL ERRORS AND OMISSIONS ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER.
- CONTACT THE CITY OF SACRAMENTO CONSTRUCTION SECTION AT 808-8300 TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-443-2444, 48 HOURS BEFORE WORK IS TO BEGIN.
- RESPONSIBILITY FOR FINAL ACCEPTANCE OF LINE AND GRADE BY THE CITY OF SACRAMENTO WILL BE ASSUMED ONLY IF CONSTRUCTION STAKES ARE SET BY THE CITY SURVEY CREW OR THEIR DESIGNATED REPRESENTATIVE. CITY WILL SET CONSTRUCTION STAKES ONLY IF SO INDICATED ON THE NOTICE TO PROCEED WITH CONSTRUCTION ISSUED FOR THIS PROJECT. CONTACT CITY OF SACRAMENTO CONSTRUCTION SECTION TWO (2) WORKING DAYS IN ADVANCE FOR CONSTRUCTION STAKES WITHIN PUBLIC RIGHT-OF-WAY.
- FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY (2424 ARDEN WAY, SUITE 105, SACRAMENTO - PHONE 916-263-2800) PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNS, BARRICADES, FLAGMEN, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND WORK, AND TO PROVIDE FOR THE PROPER ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC. CONSTRUCTION OPERATIONS SHALL COMPLY WITH THE WORK AREA AND TRAFFIC CONTROL HANDBOOK (WATCH). THE CONTRACTOR SHALL PROVIDE TO THE CITY TRAFFIC ENGINEER FOR REVIEW, A PLAN SHOWING TRAFFIC CONTROL MEASURES AND/OR DETOURS FOR VEHICLES AFFECTED BY THE CONSTRUCTION WORK. THE APPROVED PLAN SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO THE IMPLEMENTATION OF TRAFFIC CONTROL MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE (CITY DATUM) OF ALL UNDERGROUND IMPROVEMENTS CONSTRUCTED AND SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO, AND IN CONSIDERATION OF, THE CITY'S ACCEPTANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE AND SEWER FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE AND SEWER IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- IF UNUSUAL AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE ANY ARCHAEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
- COST TO REMOVE AND REPLACE EXISTING PAVEMENT OVER UTILITY LINE TRENCHES SHALL BE INCLUDED IN THE BID PRICE. TRENCHES SHALL BE BACKFILLED AND PAVEMENT SHALL BE REPLACED PER CITY DETAIL T-89. PAVEMENT SHALL BE REPLACED IN KIND (MINIMUM OF 4"X 12"X8) AS DETERMINED IN THE FIELD BY THE CITY INSPECTOR. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE RESTORED (IN THERMOPLASTIC).
- PAVEMENT REPAIR NECESSARY DUE TO SUBSIDENCE RESULTING FROM TRENCH FAILURE OR OTHER DEFECTS IN WORKMANSHIP SHALL CONSIST OF KEY CUTTING AND OVERLAYING BETWEEN THE TWO NEAREST INTERSECTIONS, AS DETERMINED BY THE CITY INSPECTOR.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED AT THE CENTER OF ALL ROUND CORNERS UNLESS OTHERWISE SHOWN. RAMPS SHALL COMPLY WITH THE MOST RECENT CITY STANDARD RAMP DETAILS, WHICH ARE AVAILABLE FROM THE CITY INSPECTOR.
- PIPE AND MANHOLE DIMENSIONS ARE TO THE CENTERLINE, UNLESS OTHERWISE NOTED.
- ALL TAPS 24 INCHES AND SMALLER INTO SEWER & DRAIN MANHOLES SHALL BE CORE BORED WITH KOR-N-SEAL TAPS OR APPROVED EQUAL.
- ANY WATER ENTERING THE SANITARY SEWER SYSTEM TO BE CONSTRUCTED UNDER THESE PLANS SHALL NOT BE DISCHARGED TO THE EXISTING SYSTEM. PLUGS MUST BE INSTALLED IN EXISTING MANHOLES AS NECESSARY TO PERMIT PUMPING THE NEW SYSTEM CLEAR OF WATER AND DEBRIS PRIOR TO ACCEPTANCE. CARE SHALL BE EXERCISED IN LOCATING PLUGS TO AVOID INTERRUPTING SERVICES TO EXISTING CONNECTIONS. MORTAR OR BRICK PLUGS MUST BE USED, INFLATABLE DEVICES ARE NOT SATISFACTORY.
- UNLESS OTHERWISE APPROVED, DRAIN PIPE MATERIAL SHALL BE EXISTING CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C75 CLASS B, IV, V, OR PVC SDR-35 OR AS SPECIFIED ON PLANS. USE RCP CLASS II OR PVC SDR-35 WITH 18" OR MORE MINIMUM COVER, RCP CLASS IV WITH 12" - 18" MINIMUM COVER, RCP CLASS II ENCASED IN CDF WITH 6" - 12" MINIMUM COVER, AND CLASS 150 CEMENT MORTAR LINED DUCTILE IRON PIPE CONFORMING TO ANRW C151 ENCASED IN CDF WITH 17"-6" MINIMUM COVER. IN ALL CASES, PROVIDE RUBBER GASKETED JOINTS. (NOTE: MINIMUM COVER IS FROM TOP OF AB TO TOP OUTSIDE DIAMETER OF DRAIN PIPE)
- DI INLET LEADS SHALL BE RCP CLASS II OR PVC SDR-35 WITH 18" OR MORE MINIMUM COVER, PVC C-900 CLASS 150 OR RCP CLASS IV WITH 12" - 18" MINIMUM COVER, RCP CLASS IV OR PVC C-900 BOTH ENCASED IN CDF WITH 6" - 12" MINIMUM COVER, OR DUCTILE IRON PIPE ENCASED IN CDF WITH 0" - 6" MINIMUM COVER. IN ALL CASES, PROVIDE RUBBER GASKETED JOINTS. (NOTE: MINIMUM COVER IS FROM TOP OF AB TO TOP OUTSIDE DIAMETER OF DRAIN PIPE)
- SANITARY SEWER PIPE MAINS SHALL BE CONSTRUCTED OF V.C.P., A.B.S. OR PVC UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- ALL SEWER SERVICES SHALL BE CONSTRUCTED OF A.B.S. PIPE PER CITY STANDARD DRAWINGS S-260 AND S-265, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL SEWER SERVICES SHALL BE 4" DIAMETER UNLESS OTHERWISE NOTED.
- AGGREGATE SUBBASE SHALL CONFORM TO CALTRANS SPECIFICATIONS DATED: 2010, SECTION 25.
- THE CONTRACTOR SHALL VIDEO RECORD ALL DRAIN AND SEWER PIPES PER CITY STANDARD SPECIFICATIONS.
- UNLESS OTHERWISE APPROVED, THE CONTRACTOR SHALL BALL AND FLUSH ALL SEWER AND DRAIN SYSTEMS PRIOR TO VIDEO RECORDING. TESTS/TESTS SHALL BE FREE OF DEBRIS PRIOR TO ACCEPTANCE OF WORK.
- A STORM WATER PERMIT MUST BE OBTAINED WHEN CONSTRUCTION ACTIVITY RESULTS IN SOIL DISTURBANCE OF ONE (1) OR MORE ACRES. THE STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CA 95812-1977, SHALL BE CONTACTED TO OBTAIN THE PERMIT PRIOR TO BEGINNING CONSTRUCTION.
- IF WORK SHOWN ON THESE PLANS HAS NOT COMMENCED WITHIN TWO YEARS FROM THE DATE OF THE CITY'S ACCEPTANCE OF THE PLANS, A SUBSEQUENT PLAN REVIEW AT THE CITY'S DISCRETION AND THE DEVELOPER'S EXPENSE MAY BE NECESSARY.
- CONTRACTOR SHALL COMPLY WITH THE CITY OF SACRAMENTO ADMINISTRATIVE AND TECHNICAL PROCEDURES MANUAL FOR GRADING/EROSION AND SEDIMENT CONTROL.
- CONSTRUCT SURVEY MONUMENT WELL PER STD. DWG. T-350 AT LOCATIONS INDICATED ON THE FINAL MAP.
- CONCRETE RESTORATION: COLOR OF NEW CONCRETE SHALL MATCH ADJACENT EXISTING CONCRETE BY ADDING LAMP BLACK.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS.

**CITY OF SACRAMENTO DEPARTMENT OF UTILITIES  
STANDARD EROSION CONTROL AND SEDIMENT CONTROL NOTES**

- THE CONTRACTOR SHALL FOLLOW THE GUIDELINES FOR THE CITY OF SACRAMENTO'S ADMINISTRATIVE AND TECHNICAL PROCEDURES MANUAL FOR GRADING AND EROSION AND SEDIMENT CONTROL. FOR THE MEASURES SHOWN OR STATED ON THESE PLANS.
- CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 1.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPs, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMPs OR EROSION AND SEDIMENT CONTROL PLAN.
- IN AREAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE COMPATIBLE, DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO AREAS WILL BE LEFT EXPOSED OVER THE WINTER SEASON.
- THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED.
- ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY OR AS NECESSARY.
- CONTRACTOR SHALL PLACE SANDBAGS FILLED WITH 1/2" DRAIN ROCK AROUND ALL NEW DRAINAGE STRUCTURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS CONSTRUCTED. THESE SANDBAGS FILLED WITH 1/2" DRAIN ROCK SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.
- CONTRACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:
  - SOLID WASTE MANAGEMENT:**  
PROVIDE DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS. ARRANGE FOR REGULAR REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING ORGANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY.
  - MATERIAL DELIVERY AND STORAGE:**  
PROVIDE A DESIGNATED MATERIAL STORAGE AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALLETS AND PROVIDE COVERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY.
  - CONCRETE WASTE:**  
PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFF-SITE, AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.
  - PAINT AND PAINTING SUPPLIES:**  
PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. INSPECT SITE WEEKLY FOR EVIDENCE OF IMPROPER DISPOSAL.
  - VEHICLE FUELING, MAINTENANCE AND CLEANING:**  
PROVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ONSITE MAINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA WEEKLY.
  - HAZARDOUS WASTE MANAGEMENT:**  
PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM THROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS WASTE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & SOLVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION STABILIZATION PRODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.

**LEGEND**

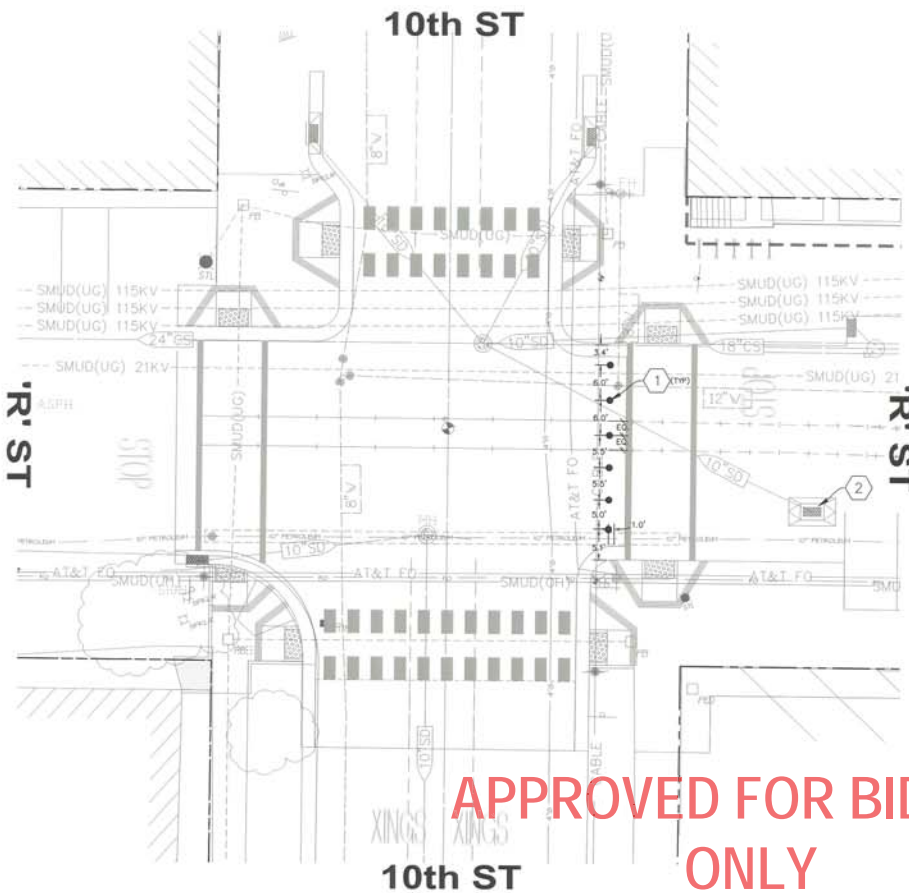
- PROPERTY LINE
- EXISTING DRAIN INLET
- EXISTING WATER MAIN
- EXISTING COMBINED STORM/SEWER MAIN
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING GAS MAIN
- EXISTING PETROLEUM LINE
- EXISTING OVERHEAD UTILITY LINE
- EXISTING STORM/SEWER MANHOLE
- EXISTING TREE
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING SIGN
- EXISTING STREET LIGHT
- EXISTING ELECTRICAL BOX
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- PROPOSED BOLLARD

APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO

DATE ISSUED: 11-26-19  
THESE DRAWINGS ARE NOT CONSIDERED FINAL UNLESS THE SIGNATURE BELOW HAS BEEN FORMALLY NOTED.



NO.	REVISIONS DESCRIPTION	DATE	BY	BENCH MARK DESCRIPTION ELEV. 15.950 FT.	FIELD BOOK	<b>CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS</b>						
Δ				BENCHMARK # 297-CSC MULTI NAIL TRAFFIC LIGHT BASE SW CORNER 10TH AND J STS (CONTROL LOOP 11892) CITY OF SACRAMENTO - SURVEY CONTROL DATABASE (PRINTED DECEMBER 2, 2002)	SCALE HORIZ. 1/2" = 10' VERT. 1/2" = 10'	DRAWN BY: KATIE HANTEN DATE: NOVEMBER 19, 2019	DESIGN BY: CHARLES KRAFKA R.C.E. 573116 DATE 11/19/19	CHECKED BY: DANIEL A. FENOCCIO R.C.E. C51484 DATE 11/19/19		<b>OFF-SITE IMPROVEMENT PLANS FOR R STREET BOLLARDS</b>	CPC19-0019 P15593300 REV16-0039	SHEET C-2 OF 10



APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO

**KEYNOTES**

1. RELIANCE FOUNDRY Co. LHM MODEL R-7901 REMOVABLE BOLLARD WITH STEEL REMOVABLE MOUNTING RECEIVER WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON THIS SHEET.
2. INSTALL STORM DRAIN INLET FILTER BAG PER CITY OF SACRAMENTO STANDARD DETAIL G-30.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
2. THE TYPE, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPE, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL SURVEY/POTHOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SMUD INSPECTOR OR A SMUD QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SMUD UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMUD INSPECTION SERVICE AT 916-732-5918 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-842-2444 FORTY-FOUR (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PIGEE GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.

**Bollard Post, Model R-7901**

**General Description:**  
Clearly communicates intended routes and assist regulations on your premises with the safety of your site. Manufactured from Reliance Foundry. Composed of standard steel and finished with a durable powder coating. It is an aesthetically versatile design that will complement the architecture of almost any site. Its 12" size can be mounted above manholes that allow emergency access to maintenance, safety or emergency vehicles. From power leading color options are available and the model is 12" x 12" x 12", available for inventory purposes. See our website for more information and pricing.

**Specifications:**  
Height: 30"  
Base Diameter: 4.75"  
Height: 96" (w/ Reflector Post)  
Material: Steel (ASTM A36)

**Mount Options:**  
• Removable Receiver with Lid (See sheet 1 of 3)  
• Removable Receiver with Chain (See sheet 2 of 3)  
• Removable Receiver (See sheet 3 of 3)  
• Permanent Receiver (See sheet 4 of 3)  
• Permanent Receiver with Chain (See sheet 5 of 3)  
• Custom Receiver (See sheet 6 of 3)  
• Custom Receiver with Chain (See sheet 7 of 3)

**Removable Receiver with Lid**  
(For important detail regarding installation with OPTIONAL bollard chain accessories, refer to sheet 7 of 7)

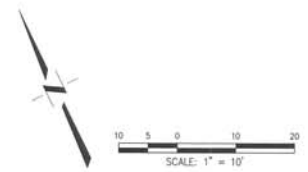
**Notes:**  
• Embedment details are for reference illustration only. Minimum foundation depth depends on local soil conditions, weather conditions, and engineering requirements.  
• Bollard post is provided as shown, with material obtained as regular carbon. Corrosion treatment and identification optional. Availability is provided to allow.  
• This drawing is not drawn to scale. Dimensions provided for reference only. Please consult Reliance Foundry sales professional if any dimension is critical to your particular installation.  
• Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

ITEM	QTY	UNIT NUMBER	DESCRIPTION	DATE LIST	REVISION	REVISION
1	1	1	Bollard Post	11/19/19	1	
2	1	2	Removable Receiver with Lid	11/19/19	1	
3	1	3	Removable Receiver with Chain	11/19/19	1	
4	1	4	Permanent Receiver	11/19/19	1	
5	1	5	Permanent Receiver with Chain	11/19/19	1	
6	1	6	Custom Receiver	11/19/19	1	
7	1	7	Custom Receiver with Chain	11/19/19	1	

**RELIANCE FOUNDRY**  
3048 225 Ave. 448 Street, Spring, NC 27057, USA  
1-800-733-0388 info@reliancefoundry.com  
www.reliancefoundry.com

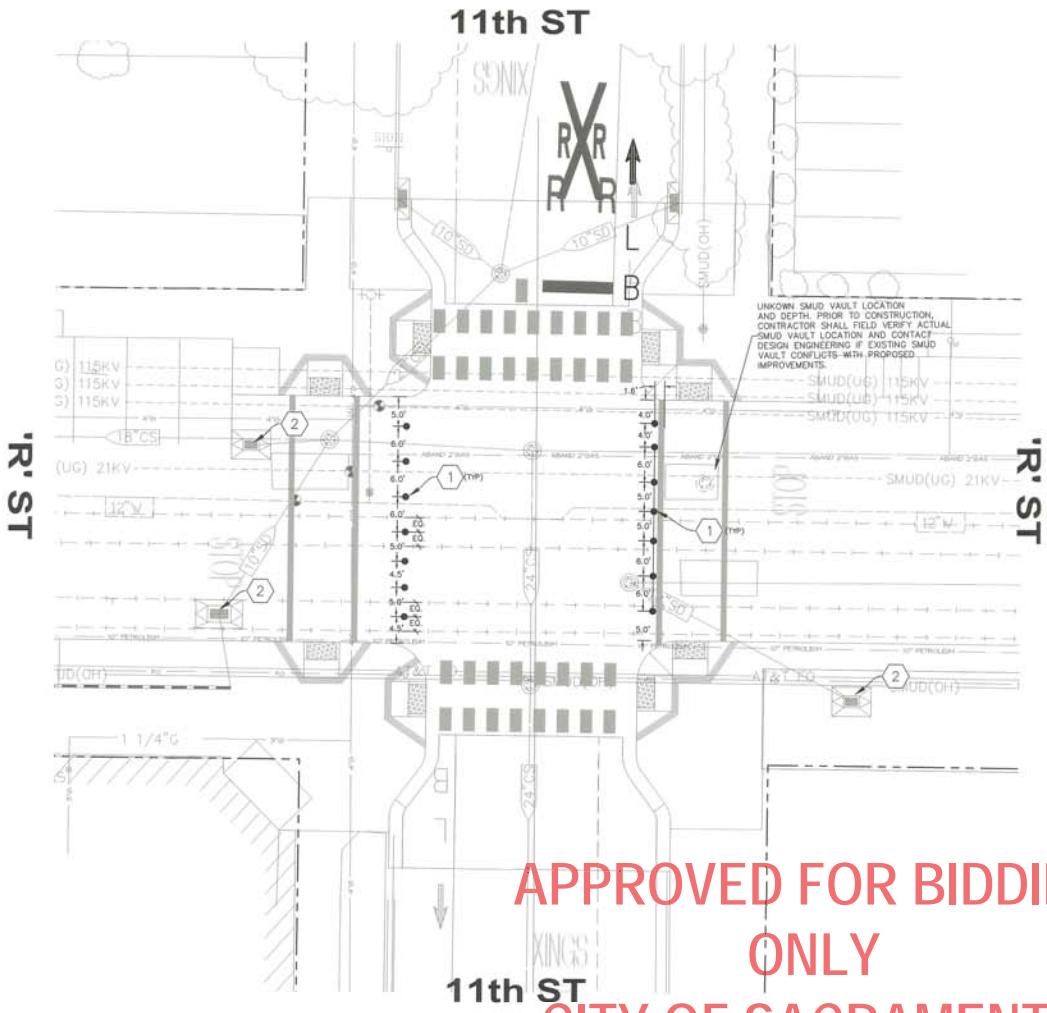
**Bollard Post, Model R-7901**

Sheet 1 of 7



<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	DATE	BY					<p><b>BENCH MARK</b> ELEV. 15,950 FT.</p> <p>DESCRIPTION: BENCHMARK # 297-CSC MULTI NAIL TRAFFIC LIGHT BASE SW CORNER 10TH AND S STREETS CONTROL LOOP 1989 CITY OF SACRAMENTO - SURVEY CONTROL DATABASE (PRINTED DECEMBER 2, 2002)</p>	<p><b>FIELD BOOK</b></p> <p>SCALE: HORIZ. 1"=10' VERT. N/A</p>	<p><b>CITY OF SACRAMENTO</b> DEPARTMENT OF PUBLIC WORKS</p>	<p>DRAWN BY: KATIE HANTEN DATE: NOVEMBER 19, 2019</p>	<p>DESIGN BY: CHARLES KRAPKA R.C.E. C23116 DATE 11/19/19</p>	<p>CHECKED BY: DANIEL A. FENOCCHIO R.C.E. C51484 DATE 11/19/19</p>		<p><b>OFF-SITE IMPROVEMENT PLANS FOR R STREET BOLLARDS 10th &amp; 'R' STREET IMPROVEMENTS</b></p>	<p>CPC19-0019 P15593300 REV16-0039</p>	<p>SHEET <b>C-3</b> OF 10</p>
NO.	DESCRIPTION	DATE	BY															

DATE DRAWN: 11-20-19  
THESE DRAWINGS ARE NOT COMPLETED  
UNTIL THE ENGINEER'S SEAL SHALL  
HAVE BEEN SIGNED AND DATED.



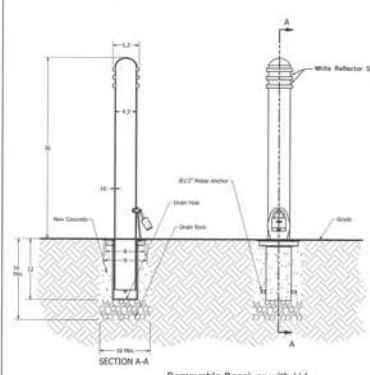
**KEYNOTES**

- 1) RELIANCE FOUNDRY Co. LHM, MODEL R-7901  
REMOVABLE BOLLARD WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH HINGED LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE SCALE ON THIS SHEET.
- 2) INSTALL STORM DRAIN INLET FILTER BAG PER CITY OF SACRAMENTO STANDARD DETAIL Q-35.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS GUARANTEED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USE PROTECTIVE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SMUD INSPECTOR OR A SMUD QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SMUD UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMUD INSPECTION SERVICE AT 916-732-5916 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-642-2444 FORTY- EIGHT (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PG&E GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.

**Bollard Post, Model R-7901**



**General Description:**  
 Our's comprehensive standard makes and access...  
**Specifications:**  
 Height: 36"  
 Base Diameter: 4.75"  
 Weight: 30 lbs (includes lid)  
 Material: Steel (ASTM A36)  
**Mount Options:**  
 - Removable Receiver with Lid  
 - Removable Receiver with Chain  
 - Removable Receiver with Bolt  
 - Removable Receiver with Nut  
 - Removable Receiver with Washer  
 - Removable Receiver with Nut and Washer  
 - Removable Receiver with Nut and Washer and Lock Washer  
 - Removable Receiver with Nut and Washer and Lock Washer and Lock Washer and Lock Washer

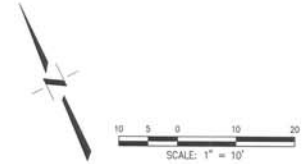
Removable Receiver with Lid  
 (For important detail regarding installation with OPTIONAL bollard chain accessories, refer to sheet 7 of 7)

**Notes:**

- Embossment details are for reference. Installation only. Minimum foundation depth depends on local soil conditions, weather conditions, and engineering requirements.
- Standard post is provided as shown, with optional details as noted below. Contractor, however, retains responsibility for any dimensions critical to your particular installation.
- Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

ITEM	QTY	UNIT	DESCRIPTION	PRICE	TOTAL
1	1	EA	Removable Receiver with Lid	10.00	10.00
2	1	EA	Removable Receiver with Chain	10.00	10.00
3	1	EA	Removable Receiver with Bolt	10.00	10.00
4	1	EA	Removable Receiver with Nut	10.00	10.00
5	1	EA	Removable Receiver with Washer	10.00	10.00
6	1	EA	Removable Receiver with Nut and Washer	10.00	10.00
7	1	EA	Removable Receiver with Nut and Washer and Lock Washer	10.00	10.00
8	1	EA	Removable Receiver with Nut and Washer and Lock Washer and Lock Washer and Lock Washer	10.00	10.00

APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO



NO.	REVISIONS DESCRIPTION	DATE	BY

<b>BENCH MARK</b>	ELEV. 15.950 FT.	FIELD BOOK
DESCRIPTION		
HELI NAIL TRAFFIC LIGHT BASE SW CORNER		
10TH AND S. STREETS CONTROL LOOP 1989		
CITY OF SACRAMENTO SURVEY CONTROL		
DATABASE (PRINTED DECEMBER 7, 2009)		

**CITY OF SACRAMENTO**  
DEPARTMENT OF PUBLIC WORKS

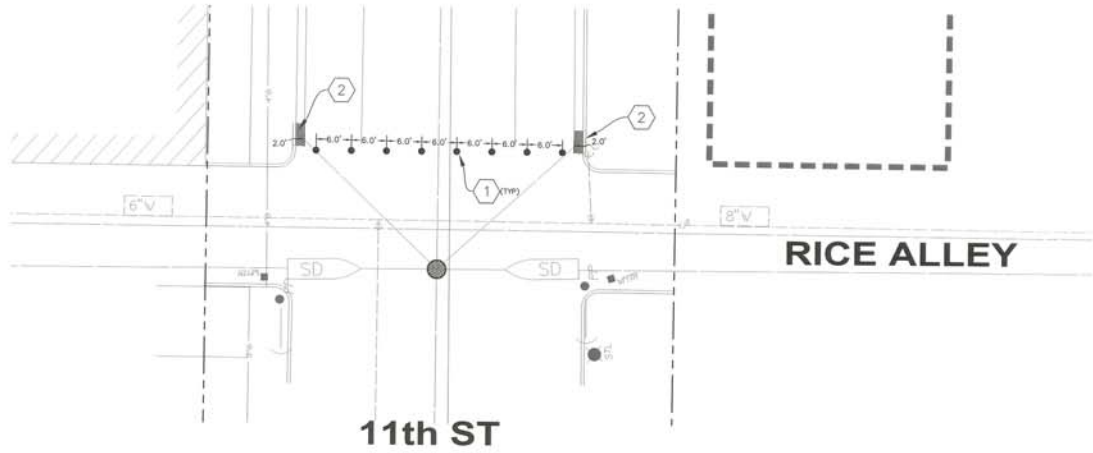
DRAWN BY: KATIE HANTEN      DESIGN BY: CHARLES KRAFKA      CHECKED BY: DANIEL A. TENOCCHIO  
 DATE: NOVEMBER 19, 2019      R.C.E. 573116      DATE 11/19/19      R.C.E. CS1484      DATE 11/19/19



**OFF-SITE IMPROVEMENT PLANS FOR  
R STREET BOLLARDS  
11th & 'R' STREET IMPROVEMENTS**

CPC19-0019      P15593300      REV16-0039      SHEET C-4 OF 10

DATE DIGNED: 11-20-19  
 THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL BEHIND HAS BEEN SIGNED AND DATED.



**KEYNOTES**

1. RELIANCE FOUNDRY Co. Ltd. MODEL R-7901 REMOVABLE BOLLARD WITH STEEL REMOVABLE MOUNTING RECEIVER WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON THIS SHEET.
2. INSTALL STORM DRAIN INLET FLEXIBLE BAG PER CITY OF SACRAMENTO STANDARD DETAIL D-30.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
2. THE THREE LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DETERMINATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USUALLY HOLD SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SAUG INSPECTOR OR A SAUG QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SAUG UNDERGROUND TRANSMISSION LINES. A 72-HOUR NOTICE IS REQUIRED. PLEASE CONTACT SAUG INSPECTOR SERVICE AT 816-732-2916 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-842-2444 FORTY-FOUR (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PG&E GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.

**Bollard Post, Model R-7901**

**General Description:**  
 Chain's construction includes receiver and anode mounted on an aluminum post. The receiver is made of steel and is designed to be removed and replaced as needed. The receiver is made of steel and is designed to be removed and replaced as needed.

**Specifications:**  
 Height: 36"  
 Base Diameter: 4.5"  
 Weight: 28 lbs (16 lbs Receiver Post)  
 Material: Steel (ASTM A36)  
 Finish Options:  
 - Polymer Powdercoat  
 - Hot Dip Galvanneal (see Reliance Foundry website for details)

**Mount Options:**  
 - Removable Receiver with Lid (see sheet 7 of 7)  
 - Removable Receiver with Chain (see sheet 7 of 7)  
 - Fixed Embedment Mount (see sheet 7 of 7)  
 - Hinged Receiver Mount (see sheet 7 of 7)  
 - Fixed Chain Mount (see sheet 7 of 7)  
 - Chain Chain Assembly (see sheet 7 of 7)

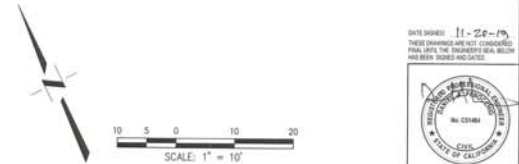
**RELIANCE FOUNDRY**  
 1881 207 4425 - 188 Street, Lums, BC V3V 1K2, Canada  
 1-800-273-2826 - info@reliancefoundry.com  
 www.reliancefoundry.com

**Bollard Post, Model R-7901**

ITEM	QTY	UNIT	DESCRIPTION	REMARKS	REVISION
1	1	EA	Bollard Post	See (SHEET) 1001	1
2	1	EA	Removable Receiver with Lid	See (SHEET) 1001	1
3	1	EA	Removable Receiver with Chain	See (SHEET) 1001	1
4	1	EA	Fixed Embedment Mount	See (SHEET) 1001	1
5	1	EA	Hinged Receiver Mount	See (SHEET) 1001	1
6	1	EA	Fixed Chain Mount	See (SHEET) 1001	1
7	1	EA	Chain Chain Assembly	See (SHEET) 1001	1

**Notes:**  
 • Embedment details are for reference. Installation only. Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.  
 • Bollard post is provided as shown, with material detailed as noted below. Concrete, foundation and/or installation not shown or provided by others.  
 • This drawing is not drawn to scale. Dimensions prevail except as for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.  
 • Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO



NO.	REVISIONS DESCRIPTION	DATE	BY	BENCH MARK DESCRIPTION	ELEV. 15,950 FT.	FIELD BOOK	SCALE	CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS			
1				BENCHMARK # 297-CSC N/12 NAIL TRAFFIC LIGHT BASE SW CORNER 11TH AND S STREETS (CONTROL LOOP 1988) CITY OF SACRAMENTO - SURVEY CONTROL DATABASE (PRINTED DECEMBER 2, 2002)			HORIZ. 1"=10' VERT. 1/4"=1'	DRAWN BY: KATIE HANTEN DATE: NOVEMBER 19, 2019	DESIGN BY: CHARLES KRAPKA R.C.E. C73116 DATE 11/19/19	CHECKED BY: DANIEL A. FENOCCHIO R.C.E. C51484 DATE 11/19/19	

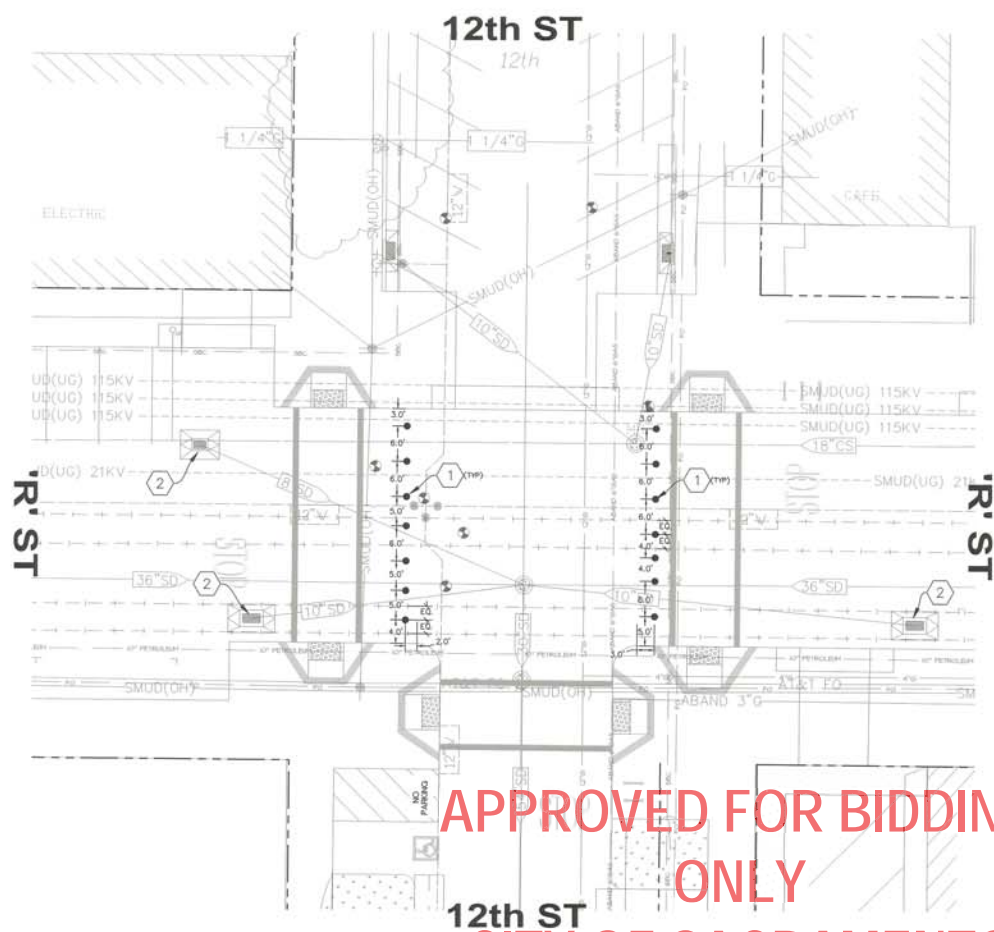
**OFF-SITE IMPROVEMENT PLANS FOR  
R STREET BOLLARDS  
11th STREET IMPROVEMENTS**

SHEET  
**C-5**  
OF  
10

DATE ISSUED: 11-26-19  
 THESE DRAWINGS ARE NOT CONSIDERED  
 FINAL UNTIL THE BIDDERS SEAL HAS  
 BEEN SIGNED AND CANCELED.

CPC19-0019  
 P15593300  
 REV16-0039





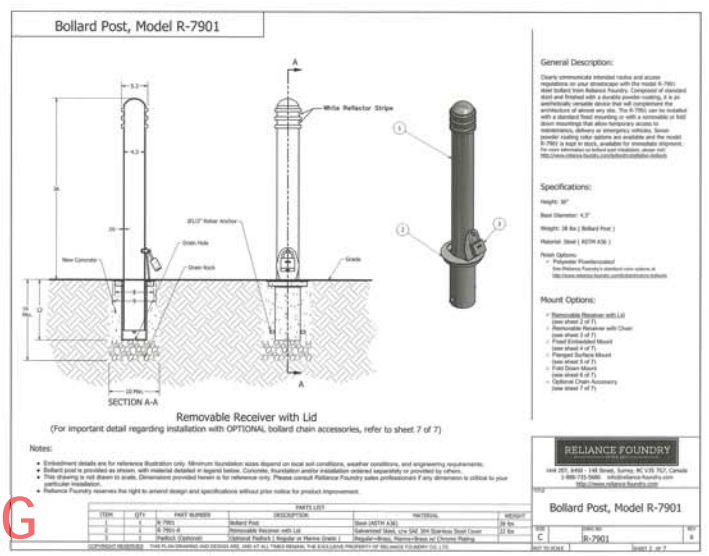
APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO

**KEYNOTES**

- 1) RELIANCE FOUNDRY Co. 1 1/2\"/>
- 2) THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE OBTAINING OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
- 3) CONTRACTOR SHALL USA/POTHOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
- 4) A SMOG INSPECTOR OR A SMOG QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SMOG UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMOG INSPECTION SERVICE AT 916-732-5918 TO SCHEDULE FOR INSPECTIONS.
- 5) ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-842-2444 FORTY-EIGHT (48) HOURS BEFORE DIGGING.
- 6) A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PEAK GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE OBTAINING OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USA/POTHOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SMOG INSPECTOR OR A SMOG QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SMOG UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMOG INSPECTION SERVICE AT 916-732-5918 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-842-2444 FORTY-EIGHT (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PEAK GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.



NO.	REVISIONS DESCRIPTION	DATE	BY	BENCH MARK DESCRIPTION	ELEV. 19.950 FT.	FIELD BOOK
1				BENCHMARK 297-CSC		
2				HILTI NAIL TRAFFIC LIGHT BASE SW CORNER		
3				10TH AND S STREETS CONTROL LOOP 1989		
4				CITY OF SACRAMENTO - SURVEY CONTROL		
5				DATABASE (PRINTED DECEMBER 2, 2002)		

<b>CITY OF SACRAMENTO</b> DEPARTMENT OF PUBLIC WORKS		
DRAWN BY: KATIE HANTEN	DESIGN BY: CHARLES KRAPKA	CHECKED BY: DANIEL A. FENOCHIO
DATE: NOVEMBER 19, 2019	R.C.E. C51316 DATE 11/19/19	R.C.E. C51484 DATE 11/19/19



**OFF-SITE IMPROVEMENT PLANS FOR R STREET BOLLARDS**  
12th & 'R' STREET IMPROVEMENTS

DATE DRAWN: 11-20-19  
THESE DIMENSIONS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL, SIGNATURE AND DATE HAVE BEEN APPLIED AND CHECKED

SHEET **C-6** OF **10**

CFC19-0019  
P15593300  
REV16-0039

SCALE: 1" = 10'

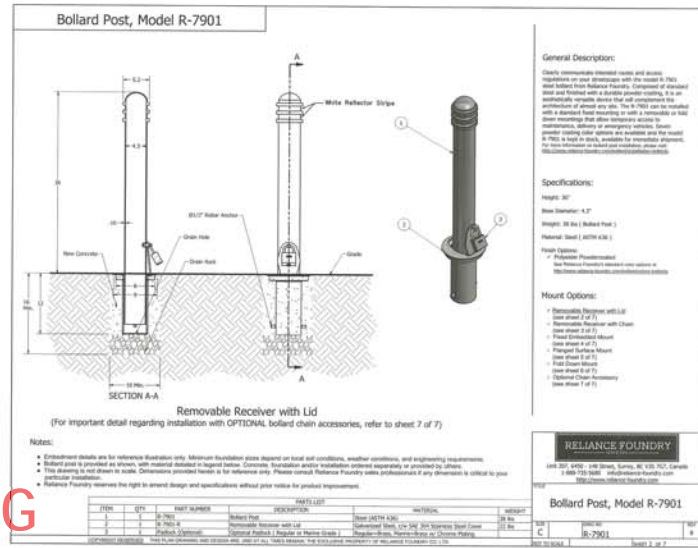


**KEYNOTES**

- 1 RELIANCE FOUNDRY Co. LHM MODEL R-7901 REMOVABLE BOLLARD WITH STEEL REMOVABLE MOUNTING RECEIVER WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON THIS SHEET.
- 2 INSTALL STORM DRAIN INLET FILTER BAG PER CITY OF SACRAMENTO STANDARD DETAIL Q-30.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN 300'S.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USA/POTHOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SMOG INSPECTOR OR A SMOG QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SMOG UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMOG INSPECTOR SERVICE AT 916-732-5516 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-542-2444 FORTY-FOUR (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PG&E GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.



APPROVED FOR BIDDING  
ONLY  
CITY OF SACRAMENTO

REVISIONS		DATE	BY	BENCH MARK	ELEV.	FIELD BOOK
NO.	DESCRIPTION			BENCHMARK # 297-CSC	15,950 FT.	
				MULTI-NAIL TRAFFIC LIGHT BASE SW CORNER		
				10TH AND S STREETS (CONTROL LOOP 1989)		
				CITY OF SACRAMENTO - SURVEY CONTROL DATABASE (PRINTED DECEMBER 3, 2009)		

**CITY OF SACRAMENTO**  
DEPARTMENT OF PUBLIC WORKS

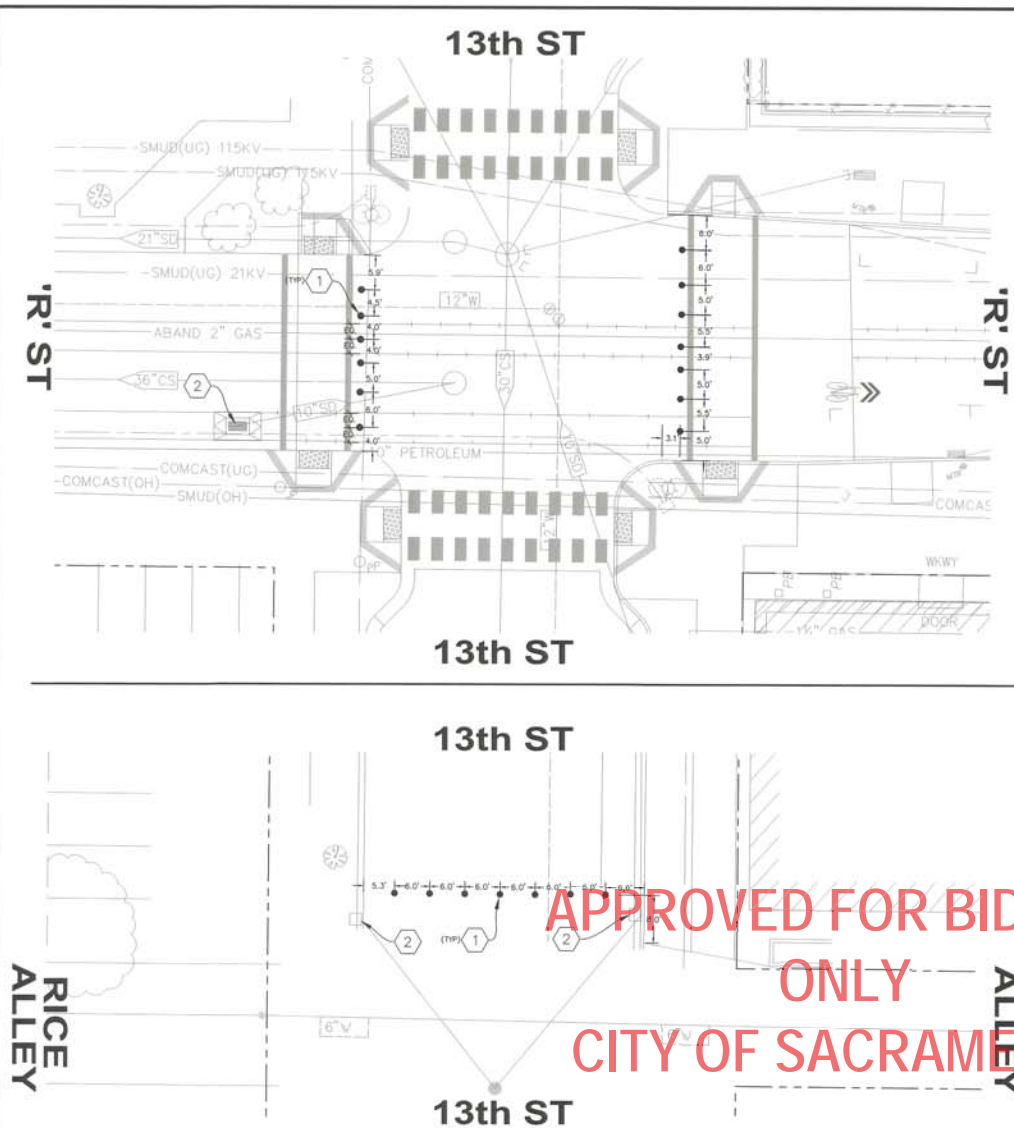
DRAWN BY: KATIE HANTEN      DESIGN BY: CHARLES KRAPKA      CHECKED BY: DANIEL A. FENOCCHIO  
 DATE: NOVEMBER 19, 2019      R.C.E. C73116      DATE 11/19/19      R.C.E. C51484      DATE 11/19/19



**OFF-SITE IMPROVEMENT PLANS FOR  
R STREET BOLLARDS  
12th STREET IMPROVEMENTS**

CPC19-0019      P155893300      REV16-0039      SHEET C-7 OF 10

DATE MARKED: 11-20-19  
 THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL BELOW HAS BEEN SIGNED AND DATED.

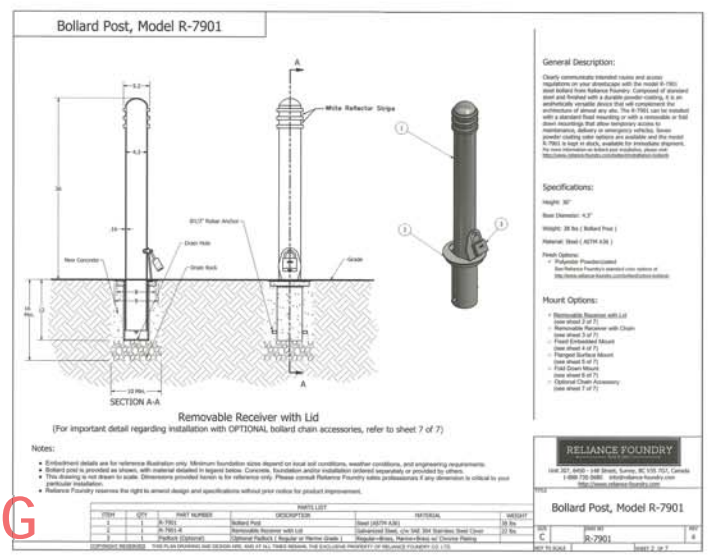


**KEYNOTES**

- 1 RELIANCE FOUNDRY Co. LHM Model R-7901 REMOVABLE BOLLARD WITH STEEL REMOVABLE MOUNTING RECEIVER WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON THIS SHEET.
- 2 INSTALL STORM DRAIN INLET FILTER BAG PER CITY OF SACRAMENTO STANDARD DETAIL G-30.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN RWD.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USA/POTHOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SMUD INSPECTOR OR A SMUD QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 1 FEET OF THE SMUD UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMUD INSPECTION SERVICE AT 916-732-2819 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-442-2444, FOURTY-EIGHT (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PORE GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.



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CITY OF SACRAMENTO

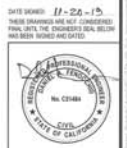
NO.	REVISIONS DESCRIPTION	DATE	BY

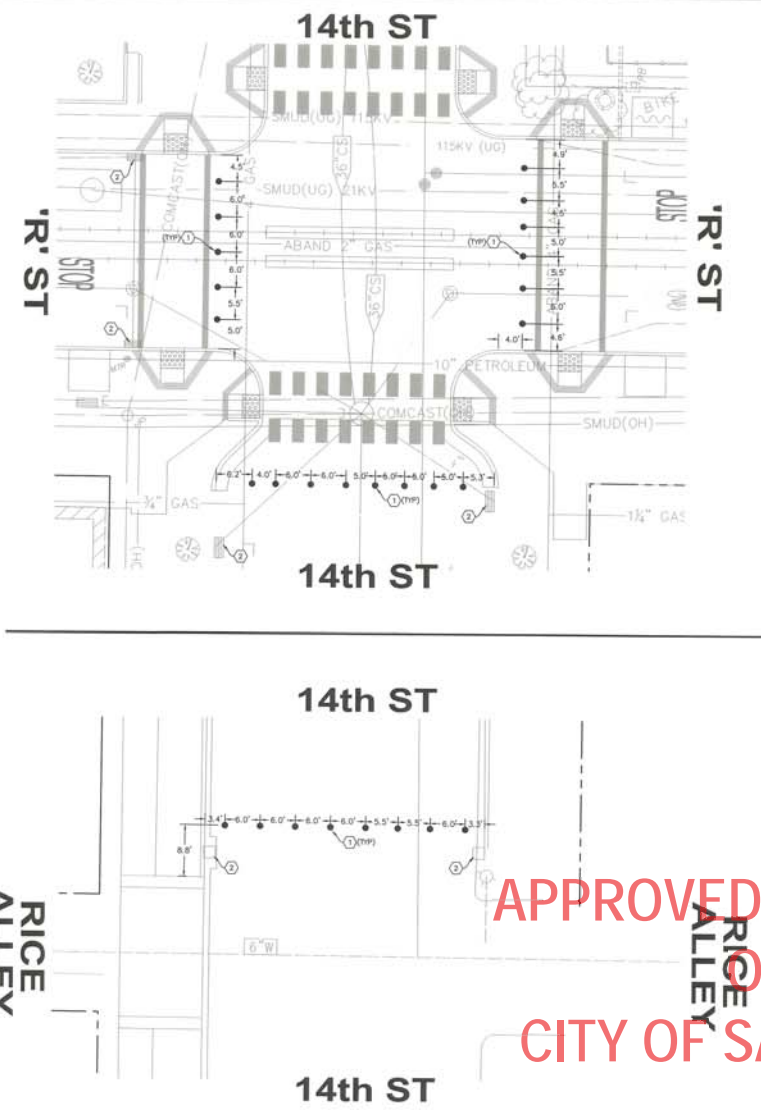
<b>BENCH MARK</b> DESCRIPTION ELEV. 15.950 FT. FIELD BOOK H/LI NAIL TRAFFIC LIGHT BASE SW CORNER 10TH AND S STREETS (CONTROL LOOP 1989) CITY OF SACRAMENTO - SURVEY CONTROL DATABASE (PRINTED DECEMBER 2, 2002)	SCALE HORIZ. 1" = 10' VERT. 3/4"	DRAWN BY: KATIE HANTEN DATE: NOVEMBER 19, 2019	DESIGN BY: CHARLES KRAFFA R.C.E. 672116 DATE 11/19/19	CHECKED BY: DANIEL A. FENOCCHIO R.C.E. C51484 DATE 11/19/19
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**OFF-SITE IMPROVEMENT PLANS FOR  
R STREET BOLLARDS  
13th & 'R' STREET IMPROVEMENTS**

CPC19-0019	P15593300	REV16-0039	SHEET <b>C-8</b> OF 10
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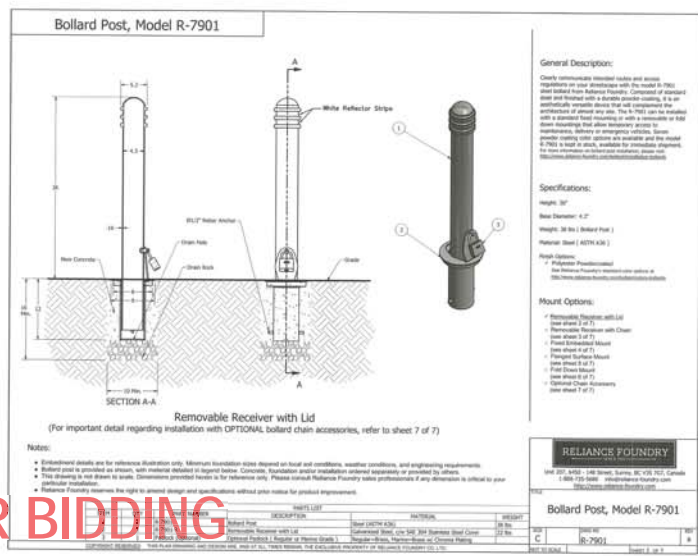


**KEYNOTES**

1. RELIANCE FOUNDRY Co. L16 MODEL R-7901 REMOVABLE BOLLARD WITH STEEL REMOVABLE MOUNTING RECEIVER WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON THIS SHEET.
2. INSTALL STORM DRAIN INLET FILTER BAG PER CITY OF SACRAMENTO STANDARD DETAIL Q-30.

**NOTES:**

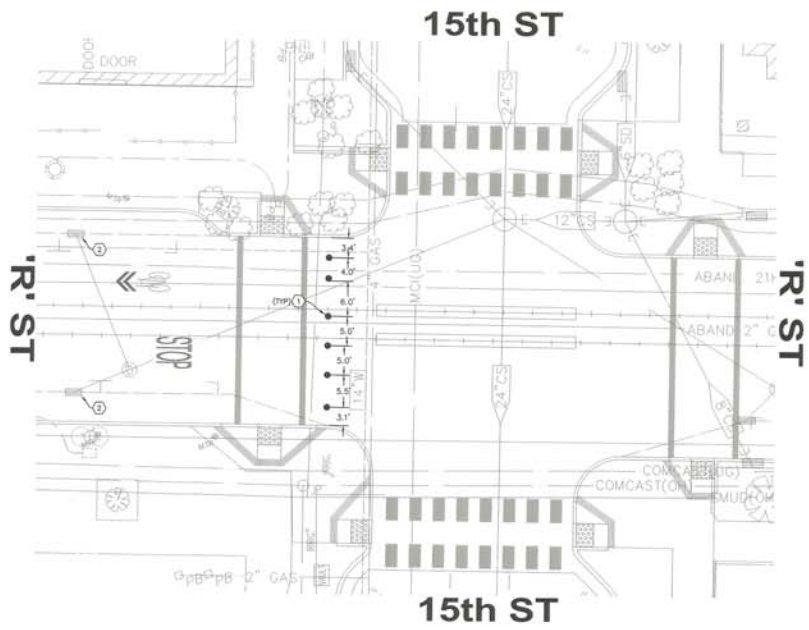
1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS ADVISED THAT ONLY ACTUAL LOCATIONS WILL BE REVEALED. THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES, HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USA/POT/HOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SAID INSPECTOR OR A SAID QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SAID UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SAID INSPECTION SERVICE AT 916-732-5916 TO SCHEDULE FOR INSPECTION.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-642-2444 FORTY-EIGHT (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL POSE GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.



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CITY OF SACRAMENTO

<b>REVISIONS</b>	<b>BENCH MARK</b>	<b>FIELD BOOK</b>	<b>CITY OF SACRAMENTO</b>				<b>OFF-SITE IMPROVEMENT PLANS FOR R STREET BOLLARDS</b>	<b>14th &amp; 'R' STREET IMPROVEMENTS</b>	CPC19-0019	P15593300	REV16-0039	SHEET C-9
NO. DESCRIPTION DATE BY	DESCRIPTION ELEV. 15,850 FT. BENCHMARK# 297-CSC	SCALE	DEPARTMENT OF PUBLIC WORKS									

DATE MOVED: 11-26-19  
THESE DRAWINGS ARE NOT CONSIDERED VALID UNLESS THE SIGNATURES AND SEALS HAVE BEEN SIGNED AND DATED.

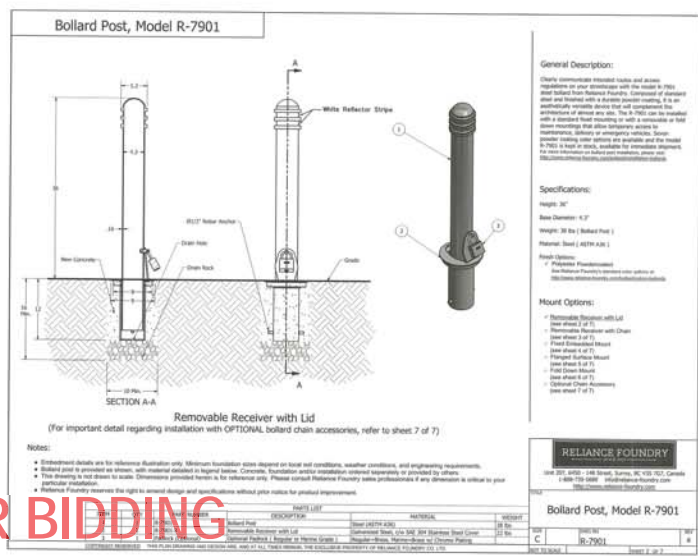


**KEYNOTES**

1. RELIANCE FOUNDRY Co. Ltd. MODEL R-7901 REMOVABLE BOLLARD WITH STEEL REMOVABLE MOUNTING RECEIVER WITH HINGED LID. OWNER SHALL PROVIDE REMOVABLE BOLLARD AND REMOVABLE MOUNTING RECEIVER WITH LID. CONTRACTOR SHALL INSTALL REMOVABLE BOLLARD AND REMOVABLE RECEIVER WITH HINGED LID PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL ON THIS SHEET.
2. INSTALL STEEL BOLLARD RILEY BOLLARD PER CITY OF SACRAMENTO STANDARD DETAIL Q-35.

**NOTES:**

1. CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION IN KIND.
2. THE TYPES, LOCATIONS, DEEPS AND/OR DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZE, LOCATION AND DEPTH OF SUCH UNDERGROUND FACILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OF ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND FACILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS, WHICH ARE NOT SHOWN ON THESE PLANS. IF ITS ELEVATION IS SHOWN ON THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION IS UNKNOWN.
3. CONTRACTOR SHALL USA/POTHOLE SITE PRIOR TO CONSTRUCTION AND IDENTIFY ALL POTENTIAL CONFLICTS WITH PROPOSED IMPROVEMENTS. CONTACT DESIGN ENGINEER TO RESOLVE ANY FOUND CONFLICTS.
4. A SMUD INSPECTOR OR A SAID QUALIFIED ELECTRICAL WORKER SHALL BE ON SITE FOR MONITORING IF ANY EXCAVATION WORK IS WITHIN 10 FEET OF THE SAID UNDERGROUND TRANSMISSION LINES. A 72-HOUR ADVANCE NOTICE IS REQUIRED. PLEASE CONTACT SMUD INSPECTOR SERVICE AT 916-732-8818 TO SCHEDULE FOR INSPECTIONS.
5. ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CALL "UNDERGROUND SERVICE ALERT" 1-800-643-2444 FORTY-FOUR (48) HOURS BEFORE DIGGING.
6. A 12" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL PG&E GAS FACILITIES AND OTHER SITE UTILITIES AND/OR SITE FEATURES.



**APPROVED FOR BIDDING ONLY**  
**CITY OF SACRAMENTO**

NO.	REVISIONS DESCRIPTION	DATE	BY	BENCH MARK DESCRIPTION	ELEV. 15,950 FT.	FIELD BOOK
1				BENCHMARK # 297-COC		
2				THE 91 NAIL TRAFFIC LIGHT BASE SW CORNER		
3				15TH AND 'R' STREETS (CONTROL LOOP 1988)		
4				CITY OF SACRAMENTO - SURVEY CONTROL		
5				DATABASE (PRINTED DECEMBER 2, 2009)		

**CITY OF SACRAMENTO**  
**DEPARTMENT OF PUBLIC WORKS**

SCALE: HORIZ. 1"=10' VERT. 3/4"

DRAWN BY: KATE HANTEN DATE: NOVEMBER 19, 2019  
 DESIGN BY: CHARLES KRAVKA R.C.E. C23116 DATE 11/19/19  
 CHECKED BY: DANIEL A. FENOCCHIO R.C.E. C51484 DATE 11/19/19



**OFF-SITE IMPROVEMENT PLANS FOR R STREET BOLLARDS**  
**15th & 'R' STREET IMPROVEMENTS**

CPC19-0019  
 P15593300  
 REV16-0039

SHEET C-10  
 OF 10

DATE ISSUED: 11-29-19  
 THESE DRAWINGS ARE NOT CONSIDERED FINAL UNLESS THE ISSUING ENGINEER HAS BEEN NOTICED AND HAS MADE ANY CHANGES.

SCALE: 1" = 10'



**PLEASE COMPLETE THE INFORMATION REQUESTED BELOW.**


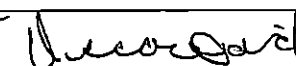
The preferred method of contact is email, so be sure to include the email contact information.

**CAPITOL AREA DEVELOPMENT AUTHORITY - JOB WALK SIGN IN SHEET**

**R Street Bollards — 10<sup>th</sup> — 15<sup>th</sup> Streets, Sacramento**

**Job Walk Date: Wednesday, February 19, 2020 @ 10:00 a.m. @ 10<sup>th</sup> and R Street, Sacramento**


**Bid Due Date: Wednesday, March 4, 2020 @ 2:00 p.m. @ 1522 14<sup>th</sup> Street, Sacramento**

	Name and Address of Company	License Type and Number	Phone	Email	Signature/Date
1.	NFB engineering 1978 Pacific Ave Apt 050 95674	AB 48 1029445	916-416-0887	NFB0224@Hotmail.com	 2-19-20
2.	DAVID ENGINEERING 6344 Nugget Pl Forest Hill CA 95631	"A" 476725	(530) 367 3508	odavid@FTCNET.NET	 2/19/2020
3.					
4.					
5.					
6.					

**PLEASE COMPLETE THE INFORMATION REQUESTED BELOW.**

The preferred method of contact is email, so be sure to include the email contact information.

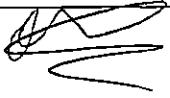


	Name and Address of Company	License Type and Number	Phone	Email	Signature/Date
7.	B&M Builders Inc 11330 Sunrise Park Dr Ste C Rancho Cordova, CA 95742	861848	9166388626	estimating@Bm-Builders.com	 2/19/20
8.	Biondi Paving, Inc. 8150 37th Ave Sacramento, CA 95824	505422 A, B, C-12 Haz	916/287-9409	blando@biondi-paving.com	Biondi 2/19/20
9.	Pro Builders 7030 Drywood way, Orangevale 95662	A/B 484847	916-225-0373	Sebastian E Sac Probuilders.com	Mac 2-19-20
10.					
11.					
12.					

**PLEASE COMPLETE THE INFORMATION REQUESTED BELOW.**

The preferred method of contact is email, so be sure to include the email contact information.



	Name and Address of Company	License Type and Number	Phone	Email	Signature/Date
13.	Saboo Inc. 415 Beatrice ct. Brentwood, CA, 94513	896 479 A,B,C-10	(916) 633-8911	Tasghar@sbcglobal.net	 02/19/20
14.					
15.					
16.					
17.					
18.					
19.					



**RESOLUTION NO. 20- 04**

Adopted by the Capitol Area Development Authority

March 20, 2020

**RESOLUTION AUTHORIZING THE EXECUTIVE DIRECTOR TO ENTER INTO A  
CONSTRUCTION CONTRACT WITH B&M BUILDERS IN THE AMOUNT OF \$97,380 FOR  
THE R STREET REMOVABLE BOLLARD INSTALLATION PROJECT**

**WHEREAS**, CADA conducted a formal bid process for the R Street Removable Bollard Installation Project and

**WHEREAS**, B&M Builders was the lowest responsive, responsible bid in the amount of \$97,380.

**NOW, THEREFORE, BE IT RESOLVED**, by the Capitol Area Development Authority Board of Directors that the Executive Director is hereby authorized, on behalf of the Authority, to enter into a construction contract with B&M Builders in the amount of \$97,380 for the R Street Removable Bollard Installation Project.

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Ann Bailey, Chair

ATTEST:

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Secretary to the Board of Directors