



**ADDENDUM #1
Public Works
2021 Boulder County Bridge Rails and Signal Poles Painting (Project No. BM-21-00)
BID # 7249-21**

August 3, 2021

The attached addendum supersedes the original Information and Specifications regarding BID # 7249-21 where it adds to, deletes from, clarifies or otherwise modifies. All other conditions and any previous addendums shall remain unchanged.

Please note: Due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.

1. Question: Is there a pre-bid for this project?

ANSWER: No, there is no pre-bid meeting scheduled or required for this project.

2. Question: Are there any SBE/MWBE/DBE Goals?

ANSWER: No, there aren't any SBE/MWBE/DBE goals for this project.

3. Question: Is this a prevailing wage job?

ANSWER: No. The Davis-Bacon wage determinations issued by the U.S. Department of Labor will not be used on this project.

4. Question: Can we schedule a site visit?

ANSWER: There are 16 individual sites in the project. Prospective bidders may visit the project sites on their own time during the bidding period to become familiar with the individual site conditions.

5. Question: Do you have the locations of the bridges or poles that need to be painted for this project? This would be helpful so we can see in person the amount of work that is required.

ANSWER: Location maps of all the sites are included in the Appendix A – Maps of the bid documents. Intersections (cross streets) for the signal poles are listed in Appendix C – Tabulations of the bid documents. The bridge locations are more accurately described below:

- **Airport Rd Bridge over Lefthand Creek – Intersection of SH-119 and Airport Road, Longmont, CO (40.12378°N, 105.15°W).**
- **Valmont Rd Bridge over Boulder Creek – Valmont Road, 500 feet east of 55th Street, Boulder, CO (40.02856°N, 105.2234°W).**
- **Valmont Rd Bridge over South Boulder Creek – Valmont Road, 700 feet east of 57th Street, Boulder, CO (40.02925°N, 105.2183°W).**

6. Question: Will CDOT spec SSPC-QP1 painting application certification be required of the coating contractor?

ANSWER: No.

7. Question: Do any of the existing coatings contain hazardous materials?

ANSWER: Boulder County Public Works is not certain of the composition of existing paint on the bridge rails and traffic signal poles. A new specification was added (see attachment) for Environmental, Health and Safety Management, as well as a new force account item on the bid tab for dealing with Hazardous Waste Removal.

8. Question: Will only the steel on the bridges be painted or will parapet walls/abutments be coated as well?

ANSWER: Only the steel railings on the three bridges need painting. For the Airport Road bridge, the decorative ironworks on the bridge's pilasters/columns also require painting. Only steel/metal surfaces require painting. No concrete or non-metal surfaces are included in the work.

9. Question: Is it anticipated for this project to be completed in 2022?

ANSWER: It is anticipated that the project can commence and be completed in 2021. Depending on contract execution and submission of insurance requirements for the successful bidder, including 65 working days and weather considerations, it is conceivable that the project may extend into 2022 before it is complete.

10. Question: Will the City provide clearing and grubbing around the bridges or is that on the contractor? (pg.8 states the county will, but there is bid items in the bid form).

ANSWER: Boulder County completed tree trimming at the two bridges on Valmont Road in July 2021. No other clearing and grubbing will be provided by the county.

11. Question: Are there any limitations to the amount of locations that can be worked at once?

ANSWER: No.

Will any sequencing of locations be necessary?

ANSWER: No.

12. Question: Pages 40 – 42 have line items (202-05300) 'REMOVAL AND DISPOSAL OF PAINT'. Is there a presence of lead-based paint?

ANSWER: The composition of existing paints is unknown. See response to Question 7, above.

13. Question: Pages 40 – 42 have line items (201-00000) 'CLEARING AND GRUBBING'. Since the city will be trimming trees sometime this month around the bridges, it does not appear there will be any clearing and grubbing to be done at these locations, since all of the bridge work will be done from the road and/or sidewalk/curb. I don't want to miss anything and wonder if the line items listed for clearing and grubbing were boiler plate, and do not actually pertain to the bridge locations? Also, will the county be trimming trees around the traffic signal poles if they impede up the necessary working area for each pole?

ANSWER: Clearing and grubbing is being removed from the bid tabs. (See revised bid tabs, attached). The county has not trimmed trees at the signal pole locations, nor does it intend to. Any trimming around tree poles prior to painting may be done by the contractor and will not be measured or paid for separately, but shall be included in the work.

14. Question: Also, having viewed the locations of the traffic signal poles and pedestrian poles, it appears that there is a small amount of grass growing at the bases, but nothing of significance which needs to be removed, only some high grass. Therefore, for the line items for (201-00000) 'CLEARING AND GRUBBING' on page 42 as it pertains to the poles, is there anything other than a bit of grass

trimming which needs to be done? We want to include all necessary items but don't want to charge for something which may be unnecessary.

ANSWER: Boulder County agrees; the "Clearing and Grubbing" bid item does not apply and is being removed from all bid tabs. (See revised bid tabs, attached).

15. Question: Section 240, beginning on page 22 of the specifications deals with migratory birds, nests, vegetation removal which may affect certain birds and/or wildlife. Referring to my previous questions, since there appears to be no vegetation removal except for overgrown grass at the base of some poles, can we consider this portion of the specification's boiler plate? And if so, will the county be sending a revised bid tab (pages 41-44)? Or should we just put \$0.00 for the clearing and grubbing line item?

ANSWER: As noted above, Clearing and Grubbing is being removed from the bid tabs. However, if nesting birds exist, there will be no compensation for clearing and grubbing, aside from the Removal of Nests pay item.

16. Question: When does the county plan on awarding the contract? Does the intend to begin and complete the work this calendar year? Or next year as soon as weather permits?

ANSWER: Historically, the county has found that construction starts approximately 8-12 weeks after the first day of advertisement, which puts the approximate start at September 6 to October 13, 2021. However, this timing depends on the contractor's ability to transmit appropriate documents for contracting and required submittals prior to starting construction. See Question 9 above.

17. Question: Page 32, under TRAFFIC CONTROL PLAN says in section (c) that we cannot perform any work requiring traffic control between the hours of 9 a.m. and 3:30 p.m. Page 20 states we must only work between 8 a.m and 4:30 pm. The majority of the work on this project will require traffic control. Would you please confirm the hours we are allowed to work and also the hours we are allowed to use traffic control/lane closures, etc.?

ANSWER: In accordance with the specifications, the contractor may work between the hours of 8 a.m. and 4:30 p.m. However, due to high traffic volumes on the roads and intersections included in the project, lane closures are not permitted before 9 a.m. and after 3:30 p.m. At sites requiring lane closures, the contractor is permitted to work in the shoulder or conduct set up, preparation, or clean up between the hours of 8-9 a.m. and 3:30-4:30 p.m.

18. Question: Page 43, under FORCE ACCOUNT ITEMS has a line item for 'F/A EROSION CONTROL'. It doesn't appear that this line item is necessary (assuming we are only going to need to trim the grass at the bottom of each pole). Would you please confirm this is the case? And if so, will you be removing this line item from the bid?

ANSWER: The force account item, Erosion Control, has been removed from the bid tab. (See revised bid tabs, attached).

19. Question: Can you please confirm that the areas of the poles and arms being painted are for the vertical shaft and horizontal arms only, and that it does NOT include any signal heads, ped heads or mounting hardware? (See picture below for some examples).



Tree to be trimmed by others?

Signal heads to be protected and not painted?

ANSWER: Confirmed. The areas of the poles and arms being painted are for the vertical shaft and horizontal arms only and do NOT include signal heads, ped heads or mounting hardware.

Trees affecting the contractor's access to paint the signal poles will not be trimmed by others. Instead, the contractor should plan to trim the trees at his/her expense. Payment for tree trimming will not be separate, but will be included in the cost of the work.

20. Question: Can you please confirm the closest distance to high voltage power lines to any of the pole on the project which are being painted?

ANSWER: Sources of high voltage power are unknown and it is the contractor's responsibility to confirm locations.

21. Question: Can you please tell us the county engineer's estimate for this project?

ANSWER: This is a formal bidding process. The engineer's estimate is not open to the public until after all eligible bids are received and opened.

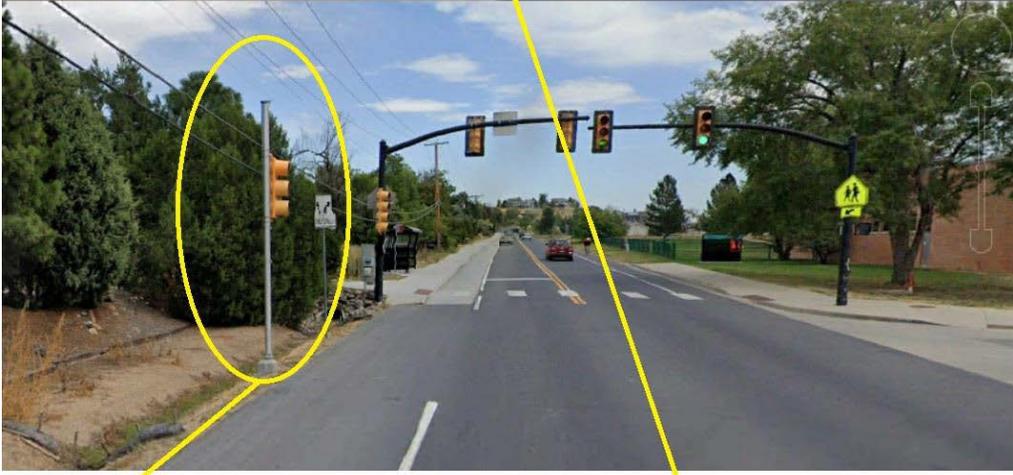
22. Question: In doing our inspection of each site, we noticed that there are some locations that have an additional ped pole which is not currently included or listed in the specifications. We recognize that section 614 specifically excludes aluminum and/or galvanized poles. But since everything else is being painted at these locations, we thought we would bring this to your attention just in case, in order to see if you wanted to add them to the specifications. Once the rest of the intersection is repainted, these unpainted poles will really stand out. Photos of each are found immediately below:



BASELINE & 75TH - POLE NOT INCLUDED IN SPEC



BASELINE & 76TH - POLE NOT INCLUDED IN SPEC



2 POLES NOT INCLUDED IN SPECIFICATION



JAY ROAD AND SPINE ROAD POLE NOT ON SPECIFICATIONS

*NOTE: THERE ARE 2 OTHER PED POLES LOCATED AT EACH SIDE OF THE CROSSWALK AT THIS INTERSECTION



NIWOT ROAD AND NORTH 95TH PED POLE NOT ON SPECS

ANSWER: It is the county's decision to only paint the signal poles, mast arms, and pedestal poles that have not yet been converted. Existing pedestal poles that are unpainted will remain unpainted, and therefore are not included in the work.

23. Question: The longest lasting high-performance coatings we use are high gloss. Would the county consider utilizing high gloss in lieu of the semi-gloss currently specified?

ANSWER: Yes. Boulder County desires high performance products and coatings for the project and has recently learned that a matte finish may not achieve

that outcome. The colors noted in Appendix C should remain the same, but finishes in semi-gloss and high gloss will be accepted and should be bid INSTEAD of matte finishes.

24. Question: On the bid items pages (41-42) you are requesting prices for 630-00000 (Flagging), 630-00012 (Traffic Control Management), and 630-00016 (Construction Zone Traffic Control). Normally we include our TCM in our CZTC and I would like to ask for clarification about what specifically each of these items is so we don't have overlap in our pricing. Would you please provide definitions of these 3 line items?

ANSWER: "Traffic Control Management" is defined in the standard specifications. It includes duties related to traffic control supervisors and is paid on any day where "active" traffic control occurs. Active traffic control includes setup/takedown and flagging.

"Flagging" covers the flaggers' hours.

"Construction Zone Traffic Control" is described in subsection 630.17 in the project specials and includes all traffic control devices including signs and traffic channelizing devices.

25. Question: Is this job subject to prevailing wage or any other special wage requirements?

ANSWER: See the response to Question 3, above.

26. Question: Some of the bridges have peeling paint. Can you please confirm we are removing loose and flaky paint only, but are NOT required to remove all or a majority of the coatings?

ANSWER: Loose and flaking paint should be removed. Not all of the original coating needs to be removed prior to repainting.

27. Question: Page 21, under subsection 208.02(k) discusses power washing to prevent importation of non-native weeds. This appears to be boilerplate. Our vehicles are working from the street for the entirety of this project and have never been off a paved road. Would you please confirm this is boilerplate and not applicable to this project, or at least not applicable to vehicles which have never been off-road?

ANSWER: The language is boilerplate; however, it still applies. Conditions may allow or require vehicles to pull off the road. It is expected all vehicles and

equipment operated by the contractor will be clean as noted in the specification.

28. Question: Page 21, under Subsection 208.02(o), discusses debris netting. Typically, tarps are used at the bottoms of shaft of the vertical portion of the streetlight/traffic signal poles. Are tarps an accepted method for containing dust, debris, etc. at the signal pole locations?

ANSWER: Yes, if the tarps placed at the signal poles can meet the requirements described under the Debris Netting specification. Although it applies to all sites, the language is specifically addressing how erosion control and pollution prevention measures should be handled at bridges.

29. Question: Beginning on page 22, Section 240, it primarily discusses bird removal between April 1 & August 31, and is heavily linked to grubbing and ground vegetation removal. Outside of basic grass trimming at the base of some of the poles, we don't see where any grubbing or vegetation removal will be necessary. There is a line item on the South Boulder Creek bid (page 41) for removal of nests. Please confirm there is no nest removal at any of the other locations.

ANSWER: The activities involving clearing and grubbing around traffic signal poles will likely be minimal and not interfere with nesting birds. If nesting birds are present at any of the project sites, the county's biologist will submit recorded locations to the contractor. Otherwise, basic grass trimming and debris removal is likely all that is required at the signal poles. All three bridges were inspected on June 29, 2021 and active swallows nests were only observed under the Valmont Road at South Boulder Creek bridge.

30. Question: Page 41, line item 607-11525 is to give a price for 1100 Linear Feet of plastic fencing. Would you please state the minimum allowable height for this plastic fencing?

ANSWER: In accordance with Section 607 of CDOT's standard specifications for Road and Bridge Construction, the plastic fence shall be orange colored material, at least four feet in height.

31. Question: Page 27 Section 614 references that painting will need to conform with sections 708 & 509 of the CDOT regulations. Section 509 is dealing with processes used in shop on newly fabricated metal. Would you please clarify that when the county refers to Section 506, you are referring to the type of coatings to be used only, but not to the rest of the specifications pertaining to newly fabricated metal? And in dealing with Section 708, would you please confirm you are referring us to this section for the purpose of determining which types of high-performance coatings we are to utilize on the bridge painting portions of

this project? And for the purposes of determining which coatings are required, would you please inform us as to whether the county considers handrails as structural steel, or as decorative?

ANSWER: The project does not require newly fabricated metal. Repainting of existing steel structures is the primary scope of work. The specification in the bid document referring to Section 509 is a "revision" to CDOT's standard specifications. The revision was written to address how painting of the county's existing steel structures is to be handled and paid for.

The reference to Section 708 is for the purpose of determining the types of coatings to be utilized for the structures in the project.

There are no handrails in the project. The bridge rails are traffic rated and should be considered structural steel. Even so, alternate, durable paints and/or coatings may be used on the bridge rails in the same way handrails would be painted.

32. Question: Power washing is mentioned throughout the specification. Would you please clarify whether power washing is required, or is simply one of many cleaning options?

ANSWER: Power washing is considered one cleaning method. Other cleaning and preparation methods besides power washing may be used.

33. Question: Written Fire Plan - Does this still apply to painting contractors? I always carry fires extinguishers in case of emergency or electrical fire.

ANSWER: The fire protection plan specification has been amended and reduced for painting contractors and is attached.

34. Question: Diesel emission - I only run one diesel truck on site (GMC 2500 Duramax). The bucket lift is electrical and regular gas generators are used for a power source. Do you need a current emission test with the bid for the diesel truck?

ANSWER: Per the emissions standard's specification, in which contractors must provide certification of compliance with diesel emissions standards, submitting a current passing emissions test prior to beginning work will suffice.

35. Question: Matte finish for poles and bridge rail - Bid packet specs. call for a matte finish on most of the pole and rail surfaces. A matte finish is possible; however I recommended a satin or semi-gloss finish. I just finished a very similar project in Louisville using Sherwin Williams DTM (DIRECT TO METAL)

PROTECTIVE MARINE COATING in a satin finish. (I could provide locations to see a sample of not only my work but the product as well.) This product, combined with a higher sheen, is optimal for protection against the mag chloride used for ice removal. I plan to supply spec sheets of all paints and zinc-based primers to be used. (If a matte finish is still desired, I just need to know before the bid deadline so I can accurately bid the correct product).

ANSWER: Boulder County desires high performance products and coatings for the project and has recently learned that a matte finish may not achieve that outcome. The colors noted in Appendix C should remain the same, but finishes in semi-gloss and high gloss will be accepted INSTEAD of matte finishes. (See revised tabulations with paint codes, attached).

36. Question: Traffic Control - I normally use Colorado Barricades. After looking at all the intersections I do not believe local police traffic control will be needed for any of the 13 intersections. Do you require a traffic plan for each individual intersection, or would a general traffic plan for a main intersection suffice, considering they are very similar intersections? This same plan would be applied to all intersections with minor adjustments.

ANSWER: A general traffic plan covering each phase of work will suffice.

37. Question: Is a TCS (traffic control supervisor) required on site at all time?

ANSWER: During "active" traffic control (setup/takedown & flagging), yes, a TCS should be on site at all time. Otherwise, no, but the TCS will need to be on call and able to respond within 45 minutes per the standard specifications. A charged Traffic Control Management day comes with the expectation that a TCS is on site during the operations, giving breaks to flaggers, adjusting signs/devices as needed and working with the public.

38. Question: Hours of operation - I might have missed it going through the bid packet but what are the time constraints for start and finish times? For example 7:00a.m.-5:00p.m.? Also are weekends an option? (Noted holidays excluded).

ANSWER: Page 20 of the bid documents notes the work performed by the contractor or any of his agents shall be accomplished during the established working hours of 8 a.m. and 4:30 p.m. No weekend work is permitted. (See also the response to Questions 17, above).

Submittal Instructions:

Submittals are due at the email box only, listed below, for time and date recording on or before **2:00 p.m. Mountain Time on August 11, 2021.**

Please note that email responses to this solicitation are limited to a maximum of 50MB capacity.

NO ZIP FILES OR LINKS TO EXTERNAL SITES WILL BE ACCEPTED. THIS INCLUDES GOOGLE DOCS AND SIMILAR SITES. ALL SUBMITTALS MUST BE RECEIVED AS AN ATTACHMENT (E.G. PDF, WORD, EXCEL).

Electronic submittals must be received in the email box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email purchasing@bouldercounty.org; identified as **BID # 7249-21** in the subject line.

All proposals must be received and time and date recorded at the purchasing email by the above due date and time. Sole responsibility rests with the Offeror to see that their bid is received on time at the stated location(s). Any bid received after due date and time will be returned to the bidder. No exceptions will be made.

The Board of County Commissioners reserve the right to reject any and all bids, to waive any informalities or irregularities therein, and to accept the bid that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.



**RECEIPT OF LETTER
ACKNOWLEDGMENT**

August 3, 2021

Dear Vendor:

This is an acknowledgment of receipt of Addendum #1 for BID #7249-21, 2021 Boulder County Bridge Rails and Signal Poles Painting (Project No. BM-21-00).

In an effort to keep you informed, we would appreciate your acknowledgment of receipt of the preceding addendum. Please sign this acknowledgment and email it back to purchasing@bouldercounty.org as soon as possible. If you have any questions, or problems with transmittal, please call us at 303-441-3525. This is also an acknowledgement that the vendor understands that **due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.**

Thank you for your cooperation in this matter. This information is time and date sensitive; an immediate response is requested.

Sincerely,

Boulder County Purchasing

Signed by: _____ Date: _____

Name of Company _____

End of Document

**REVISION OF SECTION 107
FIRE PROTECTION PLAN**

Section 107 of the Standard Specifications is hereby revised as follows:

Subsection 107.18 shall be deleted and replaced with the following:

107.18 Fire Protection Plan. The following work elements are considered safety critical work for this project:

- (a) *Fire Protection Plan.* Prior to start of work, the Contractor shall submit a Fire Control Plan in writing to the Engineer for approval. The plan shall include the following:
 - (1) The name and contact information of to the Contractor or Contractor's designee responsible for fire protection during the project.
 - (2) A 24-hour Emergency Contact List which includes the Project Superintendent and Project Traffic Control Supervisor.
 - (3) A complete list, including storage locations, of all tools and equipment the Contractor will use in the event of an emergency within project limits.
 - (4) Methods that will be employed if a fire is encountered or started during construction activities within the project limits.
 - (5) Specific precautions for fueling operations.

- (b) *Open Burn Exemption.* A BURN EXEMPTION may be requested by the Contractor from the Boulder County Sheriff's Office if current fire restrictions are in place. The fire restrictions Prohibit:
 - (1) Building, maintaining, attending, or using an open fire, campfire or stove fire (including charcoal barbecues and grills) on public land;
 - (2) Use of all personal fireworks;
 - (3) Shooting or discharging firearms for recreational purposes, except for hunting with a valid and current hunting license on public land;
 - (4) Smoking, except in an enclosed vehicle or building, a developed recreation site, or while stopped in an area at least three feet in diameter that is barren or cleared of all flammable materials;
 - (5) Operating a chainsaw without a USDA or SAE-approved spark arrester properly installed and in effective working order. A chemical, pressurized fire-extinguisher must be kept with the operator, and at least one round-point shovel with an overall length of at least 35 inches must be readily available for use;
 - (6) Welding or operating acetylene or other open-flame torches, except in cleared areas of at least 10 feet in diameter, and with a chemical, pressurized fire-extinguisher immediately available for use; and
 - (7) Using an explosive.

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**REVISION OF SECTION 107
FIRE PROTECTION PLAN**

(c) *Equipment and Procedures.*

Fire Boxes. If required by the local Fire Authority shall contain tools and equipment that shall be used exclusively for controlling or suppressing fires which occur due to construction activities on project sites. Each fire box shall contain, as a minimum, the following:

- (1) One round-pointed shovel,
- (2) Two large fire extinguishers as prescribed by the local Fire Authority.

Welding/Torching/Cutting/Drilling/Grinding. If work at field locations is required, the work shall be done at a location where all flammable material has been cleared within a 30-foot radius.

Spark Arrestors. All diesel and gasoline powered engines, both mobile and stationary, shall be equipped with serviceable spark arrestors each gasoline power saw shall be provided with a spark screen and a muffler in good condition. Spill-proof metal safety cans shall be used for refueling.

When the Fire Control Coordinator cannot be on the project site, he shall designate a person who is on site to serve as the Fire Control Coordinator. The Fire Control Coordinator, or his designee, shall always be on site while work is performed.

(d) *Open Burning During Weather Events.* **During any of the following weather events, open burning is not permitted in unincorporated Boulder County from time of issuance until midnight in which the event expires: Red Flag Warning, High Wind Warning, High Wind Watch and Fire Danger Warning.** Check the local forecast for up to date information issued by the National Weather Service. This is per Boulder County Ordinance 2018-1, "An Ordinance Repealing and Replacing Boulder County Ordinance 2006-2 and Authorizing the Declaration of Open Fire Bans by the Board of County Commissioners or the County Sheriff."

The National Weather Service issues weather statements to inform area firefighting and land use management agencies that conditions are ideal for wildland fire ignition and propagation (Red Flag Warning, High Wind Warning, High Wind Watch, Fire Danger Warning).

For this standard special provision, smoking is an open flame and shall be included in the definition of open burning, which is not permitted for the above listed weather events. Any smoking or lighting of items outside or within a vehicle with open windows is not permitted on the project site or within 500 feet of the project's limits of disturbance. With the approval of the Engineer, who consults with the local Fire Authority, a designated smoking area may be established.

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**REVISION OF SECTION 107
FIRE PROTECTION PLAN**

No additional payment or compensation will be paid to the Contractor during any weather events associated with open burning and include Red Flag Warning, High Wind Warning, High Wind Watch, Fire Danger Warning. Delays may be counted as an excusable delay per Standard Specification 108.08 or at the discretion of the Engineer.

- (e) *Costs.* All costs associated with the preparation and implementation of the Plan and compliance with all fire protection provisions and requirements will not be measured and paid for separately but shall be included in the work.

SECTION 250 ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT

Section 250 of the Standard Specifications is hereby deleted for this project and replaced with the following:

DESCRIPTION

250.1 This work consists of protection of the environment, persons, and property from contaminants that may be encountered on the Project. This includes the management of solid, special, and hazardous waste.

250.2 The Contractor shall furnish all personnel, materials, equipment, laboratory services and traffic control necessary to perform the contamination monitoring, testing, and site remediation when required. Traffic control shall be in accordance with the requirements of Section 630.

250.3 General. This project may be in the vicinity of heavy metal based paint.

Encountering heavy metal based paint is possible at some point during the project. When suspected contaminated material, including groundwater, is encountered or brought to the surface, the procedures under subsection 250.4 shall be followed.

250.4 Heavy Metal Based Paint Management. When the work includes the removal of paint or items covered with paint which may contain lead, chromium or other heavy metals, the requirements of this subsection shall apply.

The requirements of the Health and Safety Plan (HASP) shall be in accordance with OSHA Publication Number 3142, *Working with Lead in the Construction Industry*.

Paint Removal and Waste Disposal work shall be performed in accordance with 29 CFR 1926.62, State and local air quality regulations, the Steel Structures Painting Council (SSPC) Guide for Containing Debris Generated During Paint Removal Operations, the *Industrial Lead Paint Removal Handbook* (SSPC 91-18), and the references contained therein.

The following minimum precautions and procedures shall be followed unless modified in the approved HASP or its updates:

- (a) The Contractor shall contact the CDPHE, Air Pollution Control Division to ascertain if an air pollution permit is required for the cleaning or demolition work. If an air pollution permit is required, the Contractor shall obtain the permit. The Contractor shall furnish the Engineer with a copy of the permit application and the permit issued prior to starting cleaning or demolition activities. A copy of the Air Pollution Emission Notice [APEN] shall

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SECTION 250

ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT

be provided to the Engineer, if such notice is required under the Colorado Air Quality Control Commission's regulations. The processing of air pollution permits in non-attainment areas, or where public hearings are required, likely will take more than 90 days.

- (b) The Contractor shall contain paint chips, corrosion residues, and spent abrasives, herein referred to as waste materials, resulting from the cleaning or demolition operations. The Contractor shall not deposit or release waste material into the water, air or onto the ground below or adjacent to the structure. The Contractor shall conduct cleaning operations to minimize the waste materials produced. Prior to beginning the work, the Contractor shall submit to the Engineer for acceptance, a detailed methods statement for capturing, testing, and disposing of the removed materials. The Engineer will have seven calendar days to review, and accept or reject this methods statement.
- (c) Abrasives utilized for blast cleaning shall be low-dusting and low waste. Unless approved otherwise, vacuum blasting or wheel blasting shall be used.
- (d) A Health and Safety Officer (HSO) shall sample and test the waste material for lead, chromium, and other paint associated heavy metals using the Toxicity Characteristic Leaching Procedure (TCLP) Test, Method 1311 of the EPA publication, Test Methods for Evaluating Solid Waste 846. Sample collection methodology and frequency shall be recommended by the HSO and accepted by the Engineer with an adequate number of samples taken to be representative of all waste material collected. If the waste material does not pass the TCLP test, it shall be disposed of in a permitted TSD facility as designated in writing by the Engineer. The waste materials handling decision shall be documented by a report submitted to the Engineer. This documentation shall include a description of sample collection methodology, testing performed, test results and comparison of test results with hazardous waste requirements. The waste material shall not be held at an unpermitted TSD facility site in excess of Resource Conservation and Recovery Act (RCRA) temporary storage time limits.

METHOD OF MEASUREMENT

250.5 Environmental Health and Safety Management will not be measured, but will be paid for in accordance with subsection 109.04. This will include all work, materials, and hourly time charges by the HSO and other personnel required to accomplish the following:

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SECTION 250
ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT

- (1) Preparation, submittal and briefing of the initial HASP
- (2) Preparation and submittal of the Waste Management Plan
 1. Preparation and Submittal of the Dewatering Plan
 2. Preparation and Submittal of the Remediation Plan
- (3) Procedures and equipment specified in subsections 250.4

The quantity to be measured for Health and Safety Officer will be the total number of hours that the Health and Safety Officer is actually used, as authorized, for the following work:

- (1) Field monitoring necessary to ensure the safety of workers on the site;
- (2) Hours that are necessary due to unforeseen site conditions

Materials Sampling and Delivery will be measured by the actual number of samples collected, containerized and transported to the testing facility indicated in the Contract.

**BASIS OF
PAYMENT**

250.6 Partial payment for Environmental Health and Safety Management, as determined by the Engineer, will be made as the work progresses. The Contractor shall submit a schedule of environmental related Health and Safety Management work before the first partial payment is made. The schedule shall indicate the environmental related Health and Safety Management time for each work item that requires Contractor environmental related Health and Safety Management effort and the total time for the project.

The accepted quantity for Health and Safety Officer will be the number of hours actually used and approved for payment by the Engineer and will be paid for at reasonable current labor rates.

The accepted quantity for Monitoring Technician will be the number of hours of onsite monitoring as approved by the Engineer and will be paid at reasonable current labor rates.

Environmental Health and Safety Management, Health and Safety Officer and Monitoring Technician force account items shall include vehicles, phone charges, supplies, printing, postage, office support, and all other miscellaneous costs associated with the work.

Payment for waste disposal fees and transport of hazardous waste will be made by planned force account under Hazardous Waste Disposal in accordance with subsection 109.04.

Payment for Materials Sampling and Delivery will be paid for by planned force account under Hazardous Waste Disposal in accordance with subsection 109.04.

FORCE ACCOUNT ITEMS

DESCRIPTION

This special provision contains the Department's estimate for force account items included in the Contract. The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds. Force Account work shall be performed as directed by the Engineer.

BASIS OF PAYMENT

Payment will be made in accordance with Subsection 109.04. Payment will constitute full compensation for all work necessary to complete the item.

Force Account work valued at \$5,000 or less, that must be performed by a licensed journeyman in order to comply with federal, state, or local codes, may be paid for after receipt of an itemized statement endorsed by the Contractor.

F/A Minor Contract Revisions	F/A	1	\$30,000*
F/A Hazardous Waste Disposal	F/A	1	\$20,000

*The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds.

TABULATIONS

Bridges

FACILITY	Rails Plan Length (FT)	Rails Area (SF)	Posts & Base Plates Area (SF)	Medall- ions Area (SF)	Pilaster Iron- works Area (SF)	TOTAL PAINT AREA (SF)	PAINT COLOR	AMS STD 595 COLOR NO.
AIRPORT RD BRIDGE OVER LEFTHAND CREEK	216.0	565.1	64.3	0.0		629.4	SEMI-GLOSS BLACK	27038
					73.6	73.6	SEMI-GLOSS BLACK	27038
VALMONT RD BRIDGE OVER BOULDER CREEK	292.0	617.9	222.7	17.1	0.0	857.7	SEMI-GLOSS INSIGNIA RED	21136
VALMONT RD BRIDGE OVER SOUTH BOULDER CREEK	320.0	690.2	222.7	2.1	0.0	915.1	SEMI-GLOSS INSIGNIA RED	21136

TABULATIONS (CONT.)

Signal Poles

ELEMENT	Length (FT)	Radius (FT)	Area (SF)	No. (EA)	PAINT AREA (SF)	PAINT COLOR	AMS STD 595 COLOR NO.
SIGNAL POLE, 10"	22.0	0.42	59.0	6.0	354.0	SEMI-GLOSS BLACK	27038
SIGNAL POLE, 12"	22.0	0.50	71.0	15.0	1065.0	SEMI-GLOSS BLACK	27038
SIGNAL POLE, 15"	22.0	0.63	89.0	16.0	1424.0	SEMI-GLOSS BLACK	27038
SIGNAL POLE, 18"	22.0	0.75	108.0	2.0	216.0	SEMI-GLOSS BLACK	27038
MAST ARM, 12'	12.0	0.42	33.0	1.0	33.0	SEMI-GLOSS BLACK	27038
MAST ARM, 18'	18.0	0.42	49.0	1.0	49.0	SEMI-GLOSS BLACK	27038
MAST ARM, 20'	20.0	0.42	54.0	5.0	270.0	SEMI-GLOSS BLACK	27038
MAST ARM, 25'	25.0	0.42	67.0	8.0	536.0	SEMI-GLOSS BLACK	27038
MAST ARM, 30'	30.0	0.50	96.0	5.0	480.0	SEMI-GLOSS BLACK	27038
MAST ARM, 35'	35.0	0.50	112.0	12.0	1344.0	SEMI-GLOSS BLACK	27038
MAST ARM, 40'	40.0	0.54	138.0	7.0	966.0	SEMI-GLOSS BLACK	27038
MAST ARM, 45'	45.0	0.54	155.0	2.0	310.0	SEMI-GLOSS BLACK	27038
MAST ARM, 50'	50.0	0.63	199.0	2.0	398.0	SEMI-GLOSS BLACK	27038
LUMINAIRE, 8'	8', 15'	4", 6"	41.0	12.0	492.0	SEMI-GLOSS BLACK	27038
LUMINAIRE, 10'	10', 15'	4", 6"	43.0	6.0	258.0	SEMI-GLOSS BLACK	27038
PED POLE, 10'	10.0	0.25	17.0	4.0	68.0	SEMI-GLOSS BLACK	27038
PED POLE, 15'	15.0	0.33	33.0	3.0	99.0	SEMI-GLOSS BLACK	27038

TOTAL SURFACE AREA: 8362.0



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BID TABS

1. AIRPORT ROAD BRIDGE OVER LEFTHAND CREEK BID

ITEM NO.	DESCRIPTION	QTY	UNITS	UNIT COST	TOTAL COST
202-05300	REMOVAL AND DISPOSAL OF PAINT	1	LS	_____	_____
509-90000	PAINT EXISTING STRUCTURE	1	LS	_____	_____
626-00000	MOBILIZATION	1	LS	_____	_____
630-00000	FLAGGING	80	HR	_____	_____
630-00012	TRAFFIC CONTROL MANAGEMENT	5	DAY	_____	_____
630-00016	CONSTRUCTION ZONE TRAFFIC CONTROL	1	LS	_____	_____
TOTAL BID AIRPORT ROAD:					_____

2. VALMONT ROAD BRIDGE OVER BOULDER CREEK BID

ITEM NO.	DESCRIPTION	QTY	UNITS	UNIT COST	TOTAL COST
202-05300	REMOVAL AND DISPOSAL OF PAINT	1	LS	_____	_____
509-90000	PAINT EXISTING STRUCTURE	1	LS	_____	_____
626-00000	MOBILIZATION	1	LS	_____	_____
630-00000	FLAGGING	80	HR	_____	_____
630-00012	TRAFFIC CONTROL MANAGEMENT	5	DAY	_____	_____
630-00016	CONSTRUCTION ZONE TRAFFIC CONTROL	1	LS	_____	_____
TOTAL BID VALMONT ROAD AT BOULDER CREEK:					_____

BID TABS (CONTINUED)

3. VALMONT ROAD BRIDGE OVER SOUTH BOULDER CREEK BID

ITEM NO.	DESCRIPTION	QTY	UNITS	UNIT COST	TOTAL COST
202-05300	REMOVAL AND DISPOSAL OF PAINT	1	LS	_____	_____
240-00010	REMOVAL OF NESTS	4	HR	_____	_____
240-00020	NETTING	500	SY	_____	_____
509-90000	PAINT EXISTING STRUCTURE	1	LS	_____	_____
607-11525	FENCE (PLASTIC)	1000	LF	_____	_____
626-00000	MOBILIZATION	1	LS	_____	_____
630-00000	FLAGGING	80	HR	_____	_____
630-00012	TRAFFIC CONTROL MANAGEMENT	5	DAY	_____	_____
630-00016	CONSTRUCTION ZONE TRAFFIC CONTROL	1	LS	_____	_____
TOTAL BID VALMONT ROAD AT SOUTH BOULDER CREEK:					_____

BID TABS (CONTINUED)

4. TRAFFIC SIGNAL POLES BID

ITEM NO.	DESCRIPTION	QTY	UNITS	UNIT COST	TOTAL COST
202-05300	REMOVAL AND DISPOSAL OF PAINT	1	LS		
614-85530	PAINT TRAFFIC SIGNAL POLE (10 IN)	6.0	EA		
614-85531	PAINT TRAFFIC SIGNAL POLE (12 IN)	15.0	EA		
614-85532	PAINT TRAFFIC SIGNAL POLE (15 IN)	8.0	EA		
614-85533	PAINT TRAFFIC SIGNAL POLE (18 IN)	2.0	EA		
614-85540	PAINT TRAFFIC SIGNAL MAST ARM (12 FT)	1.0	EA		
614-85541	PAINT TRAFFIC SIGNAL MAST ARM (18 FT)	1.0	EA		
614-85542	PAINT TRAFFIC SIGNAL MAST ARM (20 FT)	5.0	EA		
614-85543	PAINT TRAFFIC SIGNAL MAST ARM (25 FT)	8.0	EA		
614-85544	PAINT TRAFFIC SIGNAL MAST ARM (30 FT)	5.0	EA		
614-85545	PAINT TRAFFIC SIGNAL MAST ARM (35 FT)	12.0	EA		
614-85546	PAINT TRAFFIC SIGNAL MAST ARM (40 FT)	4.0	EA		
614-85547	PAINT TRAFFIC SIGNAL MAST ARM (45 FT)	1.0	EA		
614-85548	PAINT TRAFFIC SIGNAL MAST ARM (50 FT)	2.0	EA		
614-85550	PAINT TRAFFIC SIGNAL LUMINAIRE (8 FT)	10.0	EA		
614-85551	PAINT TRAFFIC SIGNAL LUMINAIRE (10 FT)	6.0	EA		
614-85560	PAINT TRAFFIC SIGNAL PED POLE (10 FT)	4.0	EA		
614-85561	PAINT TRAFFIC SIGNAL PED POLE (15 FT)	3.0	EA		
626-00000	MOBILIZATION	1	LS		
630-00000	FLAGGING	800	HR		
630-00012	TRAFFIC CONTROL MANAGEMENT	10	DAY		
630-00016	CONSTRUCTION ZONE TRAFFIC CONTROL	1	LS		

TOTAL BID TRAFFIC SIGNAL POLES: _____

BID TABS (CONTINUED)

FORCE ACCOUNT ITEMS

ITEM NO.	DESCRIPTION	QTY	UNITS	UNIT COST	TOTAL COST
700-70010	F/A MINOR CONTRACT REVISIONS	1	FA	<u>\$30,000.00</u>	<u>\$30,000.00</u>
700-70587	F/A HAZARDOUS WASTE DISPOSAL	1	FA	<u>\$20,000.00</u>	<u>\$20,000.00</u>
TOTAL BID FORCE ACCOUNT ITEMS:					<u>\$50,000.00</u>

BID TAB 1 TOTAL – AIRPORT RD BRIDGE AT LEFTHAND CREEK: _____

BID TAB 2 TOTAL – VALMONT RD BRIDGE AT BOULDER CREEK: _____

BID TAB 3 TOTAL – VALMONT RD BRIDGE AT SOUTH BOULDER CREEK: _____

BID TAB 4 TOTAL – TRAFFIC SIGNAL POLES: _____

FORCE ACCOUNT ITEMS: \$50,000.00

GRAND TOTAL: _____