



**ITB-20-07  
ADDENDUM #3  
WARD TOD STREETS PROJECT**

**Date:** March 31, 2020  
**Bid Number:** ITB-20-07  
**NEW Bid Due Date:** **TUESDAY, APRIL 28, 2020 BY 1:00 PM OUR CLOCK**

The following information is provided to all prospective bidders and is hereby made a part of the above bid documents. Bidders must acknowledge this Addendum 3 with their bid.

**CLARIFICATION, ADDITIONAL INFORMATION, AND CHANGES:**

**REVISED BID SCHEDULE PAGES and CITY SPECIAL PROVISION SECTIONS ARE ATTACHED.**

**The attached plan holders list is from the RMEPS BidNet site.**

**The Solicitation schedule has been changed to allow additional time for preparation, bid evaluation and Council approval in light of social distancing requirements due to COVID-19.**

- 1. Can the last day for questions be extended another week since the pre-bid meeting was cancelled? The schedule changes are as follows:**

**From:**

**ANTICIPATED PROJECT SCHEDULE**

ITB Issued	March 16, 2020
Deadline for Questions	April 1, 2020
Final Addendum Issued	April 6, 2020
Bid Due Date and Time	April 16, 2020 at 1:00 pm our clock
Council Action Form Due	May 1, 2020
City Council Meeting to Approve Award	May 11, 2020
Project Start Date	June 2020
Completion Date	June 2021

**TO:**

**REVISED PROJECT SCHEDULE**

<b>ITB Issued</b>	<b>March 16, 2020</b>
<b>Deadline for Questions</b>	<b>Mon, April 6, 2020</b>
<b>Final Addendum Issued</b>	<b>Mon, April 13, 2020</b>
<b>Bid Due Date and Time</b>	<b>April 28, 2020 at 1:00 pm our clock TUESDAY</b>
<b>Council Action Form Due</b>	<b>May 29, 2020</b>
<b>City Council Meeting to Approve Award</b>	<b>Mon, June 8, 2020</b>
<b>Project Start Date</b>	<b>July 6, 2020</b>
<b>Completion Date</b>	<b>July 1, 2021</b>

- 2. Are prevailing wages being required on this project? No, prevailing wages are not required. This is a City funded project.**

3. What are the liquidated damages? **Liquidated damages are found in Subsection 108.09 in the CDOT standard specs. The City no longer modifies the CDOT spec.**
4. Will there be a need for construction materials testing on this project? **Yes, see specification details in Section 720 of the City Special Provisions.**
5. Is there a Geotechnical Report available for this project? **A Pavement Design Report is attached.**
6. What is the thickness of the existing asphalt? **Included in the Pavement Design Report.**
7. Electrical Conduit, ¾" & 2". Unit of measure in the Bid Schedule is per EA. Shouldn't unit of measure be LF? **YES. A revised bid schedule is attached.**
8. There are no bid items for the CCTV Video and concrete encasement of the existing sanitary sewer lines that are being crossed with the new storm sewer lines. Does the City intend to add bid items for this work or is it to be considered incidental with the project? **A bid item, 603I – CCTV Sanitary Sewer has been added for the CCTV Video. Bid item 603A – Pipe Protection is for the concrete encasement of the sanitary sewer line.**
9. Water Service Line Reconnects. There are no bid items for this work. Plan notes state that the ¾" & 2" taps are to be performed by the Denver Water Board. Who pays the tap fees? Also, who is responsible for the new water service line piping from the new tap to the point of connection with the existing service line? **Bid items have been added to cover the service line reconnections. As these are replacement connections, tap fees are not required. Additional detail regarding the reconnect service line bid items has been added to Section 619 of the City Special Provisions.**
10. We are very interested in bidding this project. Although we have done projects within the city of Wheat Ridge, we have not directly bid with the city. Can you please let me know what we need in order to submit a bid for this project? **The City is interested in awarding the project to a single GC, please team up to provide sub-contracting to one or more GC's. See attached plan holders list.**
11. Can we please get the CAD files to evaluate the earthwork quantities? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
12. Can you please explain how the UNCLASSIFIED EXCAVATION bid quantities were determined on each bid schedule? **Unclassified Excavation quantities are for those areas where the earthwork depth is greater than 12 inches. The explanation for Rough Grade and Fine Grade bid items are included in Section 203 of the City Special Provisions.**
13. The contract docs mention Embankment and Imported Fill quite a bit, while there is not a bid item for either EMBANKMENT or IMPORTED FILL. **Embankment and Imported Fill specifications are included for the Rough Grade and Fine Grade bid items detailed in Section 203 of the City Special Provisions.**
  - a. Is all EMBANKMENT and IMPORTED FILL incidental to another item; which Item?
  - b. How much import is required for each plan set?
  - c. How much export is required for each plan set?
14. The provided roadway cross sections are very small and difficult to evaluate. Can these be redistributed with a larger scale? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
15. There is currently CONTRACT ITEM NO. 623A, IRRIGATION SYSTEM listed in the Plan Set, SUMMARY OF QUANTITIES; however there is no bid items for IRRIGATION SYSTEM in the bid schedules. **A bid item 623A – Irrigation System has been added to Bid Schedule #2 for 52nd Avenue. 623A was already included in Bid Schedule #3 for Tabor Street. There is no irrigation for Bid Schedule #4 for Ridge Road.**

- a. Will the IRRIGATION SYSTEM be completed by Others? **Only if as a sub-contractor to the awarded Contractor.**
  - b. Please explain any Contractor Requirements for IRRIGATION SYSTEM. **All irrigation work shall be completed by the awarded Contractor.**
16. The TYPICAL FULL DEPTH PAVEMENT SECTION mentions over-excavating and installing geo-grid and importing material. Is this over excavation quantity accounted for in the Bid Schedule? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
- a. Will the work related to the over-excavation, imported fill quantity and geo grid, if needed, be negotiated through a change order?
  - b. There is no bid item for the over-excavation, imported fill and geo grid, please explain.
17. There appears to be a lot of conflicts between the existing dry utilities with regard to proposed grade (minimum cover requirements) and proposed storm and water lines. **The Utility specifications starting on page 110 detail the dry utility work on each street. Please contact the various utilities directly to discuss their schedules. Site visits are also encouraged.**
- a. What coordination has taken place with these dry utilities (gas, phone, cable) so far?
  - b. Will these dry utilities be relocated by the time the CONTRACTOR starts?
  - c. What will be required by the CONTRACTOR in dealing with these utilities?
  - d. What bid item should all the CONTRACTOR's UTILITY COORDAINTION time/costs be incidental to?
18. Regarding REMOVE POWER POLE (BY OTHERS), will the poles be completing removed and backfilled by others? **See response to the question 17.**
19. Do the City anticipate any land monuments being in conflict with nature of the work? **No.**
20. How thick is the existing asphalt in each roadway? **Included in the Pavement Design Report.**
21. Regarding Bid Schedule 2; Removal of Ground Sign (4EA) and Reset Ground Sign (10EA): How is it possible to reset more than what was removed? Please explain. **The signs that are removed are no longer needed by the project and should be disposed of. In accordance with Section 210 of the CDOT Standard Specifications, the signs that are to be reset includes the removal from the existing location and the installation at the proposed location.**
22. Regarding Bid Schedule 2; Removal of Fence (303-LF) and Reset Fence (688-LF): How is it possible to reset more than what was removed? Please explain. **The fencing that is removed is no longer needed by the project and should be disposed of. In accordance with Section 210 of the CDOT Standard Specifications, the fencing to be reset includes the removal from the existing location and the installation at the proposed location.**
23. Regarding Bid Schedule 4; Removal of Ground Sign (1EA) and Reset Ground Sign (3EA): How is it possible to reset more than what was removed? Please explain. **The signs that are removed are no longer needed by the project and should be disposed of. In accordance with Section 210 of the CDOT Standard Specifications, the signs that are to be reset includes the removal from the existing location and the installation at the proposed location.**
24. Regarding Bid Schedule 3; Removal of Trees: It appears all the trees will be removed by others as shown on the drawings. Please explain where the bid schedule quantities or trees to be removed are located along Tabor Street. **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
25. Regarding Bid Schedule 3; Reset Bid Items: There are no bid items for "REMOVAL of (GROUND SIGN, MAILBOX, FENCE, .....)" like there is in Bid Schedule 2. Can you add applicable "Remove...." bid items? **The signs, mailboxes and fencing that are removed are no longer needed by the project and should be disposed of. In accordance with Section 210 of the CDOT Standard Specifications, the signs, mailboxes and fencing that are to be reset includes the removal from the existing location and the installation at the proposed location.**

26. Regarding Bid Schedule 4; Reset Bid Items: There are no bid items for “REMOVAL of (MAILBOX, FENCE, .....)” like there is in Bid Schedule 2. Can you add applicable “Remove.... “ bid items? **The mailbox, fence... that are removed are no longer needed by the project and should be disposed of. In accordance with Section 210 of the CDOT Standard Specifications, the mailbox, fence... that are to be reset includes the removal from the existing location and the installation at the proposed location.**
27. Are local permit fees waived or do we need to include Wheat Ridge Permit Fees in our bid? **Because this is a City project, local permit fees will be waived.**
28. Mailboxes Bid Schedule 3 (Tabor Street): There are 6 locations along Tabor Street and are protecting one mailbox location; so we only need to deal with 5 locations. We are dealing with duplexes, the existing situation on Tabor Street is comprised of 5-locations, 7-posts, and 9-mailboxes needing to be reset. **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
- Will each mailbox get its own post?
  - Will we be resetting the same materials (post and mailbox(s)) to a new location as they are configured now?
  - Will each mailbox be getting its own post during the reset?
29. Regarding Bid Item “RESET IRRIGATION SYSETM” Do we know which properties do and don’t have an existing irrigation system? Can you please share this information? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
30. Can you please confirm the bid quantity of RECONDITIONING AND PROOFROLLING includes the subgrade prep for the asphalt subgrade prep (8” and 24”), concrete sidewalk subgrade prep (12”), curb and gutter subgrade prep (12”) and patterned concrete subgrade prep? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
31. Bid Schedule 3, Tabor Street: There appears to be two (2) Adjust Manhole Rims while the bid schedule only presents one (1). **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
32. Bid Schedule 3, Tabor Street: Where is the manhole to be modified (MODIFY MANHOLE) and what is required here? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
33. Regarding ADJUST WATER METER; is the contractor only required to adjust these rims vertically? Or what is all required here? **Adjust the rims vertically.**
34. Bid Schedule 3, Tabor Street: Please confirm the bidding unit and bid quantity for PATTERNED CONCRETE (6”) is SY. My takeoff quantity is 340-SF while the bid schedule presents 340-SY. Can you please confirm this on the other bid schedules? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
35. What is all entailed with Restoration (Hardscape) when there are bid items for concrete flatwork? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
36. What is all entailed with Restoration (Landscape) when there are bid items for sod, etc.? **SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.**
37. Reference W. 52nd Ave. Roadway Plan and Profile, Plan Sheet 12 of 78.  
At STA. 11+74 the new curb and gutter are not aligning with the existing curb and gutter. Are the plan sheets at different scales or does the street decrease in actual size?  
If a transition is required, please verify start and stop locations. **A separate project, that will be advertised in a few months, will reconstruct the 52nd/Ward intersection to match what is shown on these plans.**
38. Reference Tabor St. Roadway Plan and Profile, Plan Sheet 11 of 52.  
The vertical alignment for Tabor St. has a bust in elevation from STA. 50+62.81 to 51+00.

Should the slope be at -.50% or is the elevation at 51+00 to be 60.92?  
If you use -.50% then the elevations maintain about a .02 difference by the end of the profile.  
SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.

39. Reference PSP pages 110 to 121. Will all of the utility relocates be completed prior to project NTP? **The plan is that utility relocates will be completed prior to project NTP, however, please contact the utilities directly for their latest schedule.**

40. What are the requirements for abandoning the existing water main in 52nd Ave. after the new one is constructed and in service? SEH has been asked, NO RESPONSE AS OF ADDENDUM 3 POSTING.

**NOTE: When responses from SEH are available, a fourth addendum will be published. Bid Opening details will be provided in that document.**

Visit our City website or RMEPS/BidNet for addendum, plan holders list and project updates:  
[www.ci.wheatridge.co.us](http://www.ci.wheatridge.co.us)

**POINT OF CONTACT:** Jennifer Nellis, Purchasing Agent, [jnellis@ci.wheatridge.co.us](mailto:jnellis@ci.wheatridge.co.us), fax 303-234-5924, or phone 303-235-2811. Do not contact the user department, consultant, or any other staff.

ADDENDA

Bidder acknowledges receipt of the following Addenda:

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**BID SCHEDULE** COMPANY SUBMITTING BID \_\_\_\_\_  
**ITB-20-07**

Bidder agrees to perform all the work described in the Contract Documents for the following unit prices or lump sums.

**Bid Schedule #1 – Overall Project**

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
211A	Tree Protection	1	LS	\$ _____	\$ _____
620A	Sanitary Facility	2	EA	\$ _____	\$ _____
626A	Mobilization	1	LS	\$ _____	\$ _____
630A	Portable Message Sign Panel (30 days)	2	EA	\$ _____	\$ _____
630B	Portable Message Sign Panel (210 days)	2	EA	\$ _____	\$ _____

TOTAL AMOUNT OF BID SCHEDULE #1 – \$ \_\_\_\_\_

WRITTEN OUT AMOUNT OF BID SCHEDULE #1 – \_\_\_\_\_

**Bid Schedule #2 – W 52<sup>nd</sup> Avenue**

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
201A	Clearing and Grubbing	6,050	SY	\$ _____	\$ _____
202A	Removal of Bush	6	EA	\$ _____	\$ _____
202B	Removal of Tree (<12")	3	EA	\$ _____	\$ _____
202C	Removal of Tree (≥12")	19	EA	\$ _____	\$ _____
202D	Removal of Chase Drain	69	LF	\$ _____	\$ _____
202E	Removal of Inlet	3	EA	\$ _____	\$ _____
202F	Removal of Pipe	620	LF	\$ _____	\$ _____
202G	Removal of End Section	2	EA	\$ _____	\$ _____
202H	Removal of Wall	92	LF	\$ _____	\$ _____
202I	Removal of Concrete Sidewalk	383	SY	\$ _____	\$ _____

Bid Schedule #2 - SUBTOTAL THIS PAGE \$ \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
202J	Removal of Curb & Gutter	1,024	LF	\$ _____	\$ _____
202K	Removal of Concrete Pavement	694	SY	\$ _____	\$ _____
202L	Removal of Asphalt Mat (Full Depth)	7,476	SY	\$ _____	\$ _____
202M	Removal of Ground Sign	4	EA	\$ _____	\$ _____
202N	Remove Sign Panel	1	EA	\$ _____	\$ _____
202O	Removal of Fence	303	LF	\$ _____	\$ _____
202P	Plug Culvert	1	EA	\$ _____	\$ _____
203A	Unclassified Excavation	2,323	CY	\$ _____	\$ _____
203B	Earthwork – Rough Grade	17,007	SY	\$ _____	\$ _____
203C	Earthwork – Fine Grade	17,007	SY	\$ _____	\$ _____
207A	Topsoil	145	CY	\$ _____	\$ _____
208A	Erosion Control	1	LS	\$ _____	\$ _____
210A	Reset Mailbox (Type 1)	11	EA	\$ _____	\$ _____
210B	Reset Ground Sign	10	EA	\$ _____	\$ _____
210C	Reset Sign Panel	1	EA	\$ _____	\$ _____
210D	Reset Fence	688	LF	\$ _____	\$ _____
210E	Reset Sprinkler System	1	LS	\$ _____	\$ _____
210F	Adjust Manhole Rim	12	EA	\$ _____	\$ _____
210G	Modify Manhole	3	EA	\$ _____	\$ _____
210H	Modify Inlet	1	EA	\$ _____	\$ _____
210I	Adjust Valve Box	17	EA	\$ _____	\$ _____
210J	Adjust Water Meter	4	EA	\$ _____	\$ _____
211A	Tree Bark Mulch	32	SY	\$ _____	\$ _____
211B	Steel Edging	273	LF	\$ _____	\$ _____
211C	Restoration (Hardscape)	406	SY	\$ _____	\$ _____
211D	Restoration (Landscape)	1,279	SY	\$ _____	\$ _____
Bid Schedule #2 - SUBTOTAL THIS PAGE				\$ _____	

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
212A	Sod	1,269	SY	\$ _____	\$ _____
214A	Deciduous Ornamental Tree	21	EA	\$ _____	\$ _____
306A	Reconditioning & Proofrolling	12,745	SY	\$ _____	\$ _____
403A	Hot Mix Asphalt (Patching – 9")	143	SY	\$ _____	\$ _____
403B	Hot Mix Asphalt (Grading S)	1,640	TN	\$ _____	\$ _____
403C	Hot Mix Asphalt (Grading SX)	820	TN	\$ _____	\$ _____
412A	Concrete Pavement (6")	863	SY	\$ _____	\$ _____
412B	Concrete Pavement (10")	253	SY	\$ _____	\$ _____
603A	Pipe Protection	1	LS	\$ _____	\$ _____
603B	12" RCP	23	LF	\$ _____	\$ _____
603C	18" RCP	241	LF	\$ _____	\$ _____
603D	24" RCP	147	LF	\$ _____	\$ _____
603E	30" RCP	494	LF	\$ _____	\$ _____
603F	36" RCP	912	LF	\$ _____	\$ _____
603G	42" RCP	53	LF	\$ _____	\$ _____
603H	4" PVC Sanitary Sewer (Lowering)	1	EA	\$ _____	\$ _____
<b>603I</b>	<b>CCTV Sanitary Sewer</b>	<b>1</b>	<b>LS</b>	<b>\$ _____</b>	<b>\$ _____</b>
604A	Curb Inlet, WR (Single)	2	EA	\$ _____	\$ _____
604B	Curb Inlet (Type R) (10')	2	EA	\$ _____	\$ _____
604C	Curb Inlet (Type R L5) (15')	4	EA	\$ _____	\$ _____
604D	Curb Inlet (Type R L5) (Special)	1	EA	\$ _____	\$ _____
604E	Manhole (Slab Base) (5') (5' Diameter)	2	EA	\$ _____	\$ _____
604F	Manhole (Slab Base) (10') (5' Diameter)	4	EA	\$ _____	\$ _____
604G	Manhole (Slab Base) (10') (6' Diameter)	2	EA	\$ _____	\$ _____
604H	Manhole (Slab Base) (15') (6' Diameter)	1	EA	\$ _____	\$ _____
608A	Patterned Concrete (6")	452	SY	\$ _____	\$ _____
Bid Schedule #2 - SUBTOTAL THIS PAGE				\$ _____	\$ _____



COMPANY SUBMITTING BID \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
608B	Concrete Sidewalk (6")	2,137	SY	\$ _____	\$ _____
608C	Sidewalk Ramp (Type 1)	19	EA	\$ _____	\$ _____
608D	Sidewalk Ramp (Type 2)	1	EA	\$ _____	\$ _____
608E	Sidewalk Chase	5	EA	\$ _____	\$ _____
609A	Curb & Gutter Type 2 (Section II-B)	3,988	LF	\$ _____	\$ _____
613A	Pedestrian Light Standard	25	EA	\$ _____	\$ _____
613B	Pedestrian Light Luminaire	25	EA	\$ _____	\$ _____
613C	Street Light Standard	14	EA	\$ _____	\$ _____
613D	Street Light Luminaire	14	EA	\$ _____	\$ _____
613E	Pedestrian Light Foundation	25	EA	\$ _____	\$ _____
613F	Street Light Foundation	14	EA	\$ _____	\$ _____
613G	Electrical Distribution System	1	LS	\$ _____	\$ _____
613H	Lighting Control Center	1	EA	\$ _____	\$ _____
613I	Electrical Conduit – 3/4"	60	<del>EALF</del>	\$ _____	\$ _____
613J	Electrical Conduit – 2"	2,360	<del>EALF</del>	\$ _____	\$ _____
614A	Traffic Sign	13	EA	\$ _____	\$ _____
617A	Ornamental Bench	9	EA	\$ _____	\$ _____
617B	Ornamental Trash Receptacle	9	EA	\$ _____	\$ _____
<b>623A</b>	<b>Irrigation System</b>	<b>1</b>	<b>LS</b>	<b>\$ _____</b>	<b>\$ _____</b>
625A	Construction Surveying	1	LS	\$ _____	\$ _____
627A	Epoxy Pavement Marking	1,551	SF	\$ _____	\$ _____
627B	Preformed Pavement Marking (Arrow – 15.5 SF)	12	EA	\$ _____	\$ _____
627C	Preformed Pavement Marking (Arrow – 27.5 SF)	3	EA	\$ _____	\$ _____
627D	Pavement Marking Tape (24")	449	LF	\$ _____	\$ _____
630A	Traffic Control Management	1	LS	\$ _____	\$ _____
Bid Schedule #2 - SUBTOTAL THIS PAGE				\$ _____	\$ _____

COMPANY SUBMITTING BID \_\_\_\_\_

720A Materials Sampling 1 LS \$ \_\_\_\_\_ \$ \_\_\_\_\_

Bid Schedule #2 - SUBTOTAL THIS PAGE \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #2 – \$ \_\_\_\_\_

WRITTEN OUT AMOUNT OF BID SCHEDULE #2 – \_\_\_\_\_

**Bid Schedule #3 – Tabor Street**

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
201A	Clearing and Grubbing	2,400	SY	\$ _____	\$ _____
202A	Removal of Tree (<12")	4	EA	\$ _____	\$ _____
202B	Removal of Tree (≥12")	2	EA	\$ _____	\$ _____
202C	Removal of Curb & Gutter	4	LF	\$ _____	\$ _____
202D	Removal of Concrete Pavement	143	SY	\$ _____	\$ _____
202E	Removal of Asphalt Mat (Full Depth)	2,275	SY	\$ _____	\$ _____
202F	Removal of Pavement Marking	75	SF	\$ _____	\$ _____
203A	Unclassified Excavation	113	CY	\$ _____	\$ _____
203B	Earthwork – Rough Grade	5,680	SY	\$ _____	\$ _____
203C	Earthwork – Fine Grade	5,680	SY	\$ _____	\$ _____
207A	Topsoil	52	CY	\$ _____	\$ _____
208A	Erosion Control	1	LS	\$ _____	\$ _____
210A	Reset Mailbox (Type 1)	6	EA	\$ _____	\$ _____
210B	Reset Ground Sign	2	EA	\$ _____	\$ _____
210C	Reset Fence	165	LF	\$ _____	\$ _____
210D	Reset Sprinkler System	1	LS	\$ _____	\$ _____
210E	Adjust Manhole Rim	1	EA	\$ _____	\$ _____
210F	Modify Manhole	1	EA	\$ _____	\$ _____
210G	Adjust Valve Box	1	EA	\$ _____	\$ _____
210H	Adjust Water Meter	2	EA	\$ _____	\$ _____
211A	Restoration (Landscape)	282	SY	\$ _____	\$ _____

Bid Schedule #3 - SUBTOTAL THIS PAGE \$ \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
212A	Sod	463	SY	\$ _____	\$ _____
304A	Aggregate Base Course (Class 6)	5	TN	\$ _____	\$ _____
306A	Reconditioning & Proofrolling	3,933	SY	\$ _____	\$ _____
403A	Hot Mix Asphalt (Grading S)	538	TN	\$ _____	\$ _____
403B	Hot Mix Asphalt (Grading SX)	269	TN	\$ _____	\$ _____
412A	Concrete Pavement (6")	195	SY	\$ _____	\$ _____
603A	18" RCP	51	LF	\$ _____	\$ _____
604A	Curb Inlet, WR (Single)	2	EA	\$ _____	\$ _____
604B	Manhole (Slab Base) (10') (6' Diameter)	1	EA	\$ _____	\$ _____
608A	Patterned Concrete (6")	340	SY	\$ _____	\$ _____
608B	Concrete Sidewalk (6")	457	SY	\$ _____	\$ _____
609A	Curb & Gutter Type 2 (Section II-B)	1,040	LF	\$ _____	\$ _____
613A	Pedestrian Light Standard	3	EA	\$ _____	\$ _____
613B	Pedestrian Light Luminaire	3	EA	\$ _____	\$ _____
613C	Street Light Standard	2	EA	\$ _____	\$ _____
613D	Street Light Luminaire	2	EA	\$ _____	\$ _____
613E	Pedestrian Light Foundation	3	EA	\$ _____	\$ _____
613F	Street Light Foundation	2	EA	\$ _____	\$ _____
613G	Electrical Distribution System	1	LS	\$ _____	\$ _____
613H	Lighting Control Center	1	EA	\$ _____	\$ _____
613I	Electrical Conduit – 3/4"	25	<del>EALF</del>	\$ _____	\$ _____
613J	Electrical Conduit – 2"	475	<del>EALF</del>	\$ _____	\$ _____
614A	Traffic Sign	1	EA	\$ _____	\$ _____
617A	Ornamental Bench	2	EA	\$ _____	\$ _____
617B	Ornamental Trash Receptacle	2	EA	\$ _____	\$ _____
623A	Irrigation System	1	LS	\$ _____	\$ _____
Bid Schedule #3 - SUBTOTAL THIS PAGE				\$ _____	\$ _____

COMPANY SUBMITTING BID \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
625A	Construction Surveying	1	LS	\$ _____	\$ _____
627A	Epoxy Pavement Marking	665	SF	\$ _____	\$ _____
627B	Preformed Pavement Marking (Arrow – 15.5 SF)	2	EA	\$ _____	\$ _____
627C	Preformed Pavement Marking (Arrow – 27.5 SF)	1	EA	\$ _____	\$ _____
627D	Preformed Pavement Marking (RR Xing)	1	EA	\$ _____	\$ _____
627E	Pavement Marking Tape (24")	117	LF	\$ _____	\$ _____
630A	Traffic Control Management	1	LS	\$ _____	\$ _____
720A	Materials Sampling	1	LS	\$ _____	\$ _____
Bid Schedule #3 - SUBTOTAL THIS PAGE				\$ _____	

TOTAL AMOUNT OF BID SCHEDULE #3 – \$ \_\_\_\_\_

WRITTEN OUT AMOUNT OF BID SCHEDULE #3 – \_\_\_\_\_

**Bid Schedule #4 – Ridge Road**

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
201A	Clearing and Grubbing	1,386	SY	\$ _____	\$ _____
202A	Removal of Tree (<12")	4	EA	\$ _____	\$ _____
202B	Removal of Inlet	1	EA	\$ _____	\$ _____
202C	Removal of Pipe	126	LF	\$ _____	\$ _____
202D	Removal of Curb & Gutter	264	LF	\$ _____	\$ _____
202E	Removal of Concrete Pavement	109	SY	\$ _____	\$ _____
202F	Removal of Asphalt Mat (Full Depth)	2,435	SY	\$ _____	\$ _____
202G	Removal of Ground Sign	1	EA	\$ _____	\$ _____
202H	Plug Culvert	1	EA	\$ _____	\$ _____
203A	Unclassified Excavation	1,106	CY	\$ _____	\$ _____
203B	Earthwork – Rough Grade	4,850	SY	\$ _____	\$ _____
Bid Schedule #4 - SUBTOTAL THIS PAGE				\$ _____	

COMPANY SUBMITTING BID \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
203C	Earthwork – Fine Grade	4,850	SY	\$ _____	\$ _____
208A	Erosion Control	1	LS	\$ _____	\$ _____
210A	Reset Mailbox (Type 1)	1	EA	\$ _____	\$ _____
210B	Reset Ground Sign	3	EA	\$ _____	\$ _____
210C	Reset Fence	298	LF	\$ _____	\$ _____
210D	Reset Sprinkler System	1	LS	\$ _____	\$ _____
210E	Adjust Manhole Rim	5	EA	\$ _____	\$ _____
210F	Modify Inlet	2	EA	\$ _____	\$ _____
210G	Adjust Valve Box	3	EA	\$ _____	\$ _____
211A	Restoration (Hardscape)	61	SY	\$ _____	\$ _____
211B	Restoration (Landscape)	364	SY	\$ _____	\$ _____
304A	Aggregate Base Course (Class 6)	29	TN	\$ _____	\$ _____
306A	Reconditioning & Proofrolling	3,584	SY	\$ _____	\$ _____
403A	Hot Mix Asphalt (Patching – 9")	3	SY	\$ _____	\$ _____
403B	Hot Mix Asphalt (Grading S)	1,119	TN	\$ _____	\$ _____
403C	Hot Mix Asphalt (Grading SX)	320	TN	\$ _____	\$ _____
412A	Concrete Pavement (6")	74	SY	\$ _____	\$ _____
412B	Concrete Pavement (10")	107	SY	\$ _____	\$ _____
603A	15" RCP	52	LF	\$ _____	\$ _____
603B	30" RCP	43	LF	\$ _____	\$ _____
603C	12" PVC	9	LF	\$ _____	\$ _____
604A	Curb Inlet, WR (Double)	1	EA	\$ _____	\$ _____
604B	Curb Inlet, WR (Single)	1	EA	\$ _____	\$ _____
607A	Fence (Wood)	49	LF	\$ _____	\$ _____
607A	Fence (Temporary)	49	LF	\$ _____	\$ _____
608B	Concrete Sidewalk (6")	330	SY	\$ _____	\$ _____
Bid Schedule #4 - SUBTOTAL THIS PAGE				\$ _____	\$ _____

COMPANY SUBMITTING BID \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
608C	Sidewalk Ramp (Type 1)	6	EA	\$ _____	\$ _____
609A	Curb & Gutter Type 2 (Section II-B)	779	LF	\$ _____	\$ _____
613A	Pedestrian Light Standard	7	EA	\$ _____	\$ _____
613B	Pedestrian Light Luminaire	7	EA	\$ _____	\$ _____
613C	Street Light Standard	2	EA	\$ _____	\$ _____
613D	Street Light Luminaire	2	EA	\$ _____	\$ _____
613E	Pedestrian Light Foundation	7	EA	\$ _____	\$ _____
613F	Street Light Foundation	2	EA	\$ _____	\$ _____
613G	Electrical Distribution System	1	LS	\$ _____	\$ _____
613H	Electrical Conduit – 2"	650	<del>EALF</del>	\$ _____	\$ _____
614A	Traffic Sign	2	EA	\$ _____	\$ _____
625A	Construction Surveying	1	LS	\$ _____	\$ _____
627A	Epoxy Pavement Marking	956	SF	\$ _____	\$ _____
627B	Preformed Pavement Marking (Arrow – 15.5 SF)	3	EA	\$ _____	\$ _____
627C	Preformed Pavement Marking (RR Xing)	1	EA	\$ _____	\$ _____
627D	Preformed Pavement Marking (Bike Lane Symbol – 21.7 SF)	7	EA	\$ _____	\$ _____
627D	Pavement Marking Tape (24")	113	LF	\$ _____	\$ _____
630A	Traffic Control Management	1	LS	\$ _____	\$ _____
720A	Materials Sampling	1	LS	\$ _____	\$ _____

SUBTOTAL THIS PAGE \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #4 – \$ \_\_\_\_\_

WRITTEN OUT AMOUNT OF BID SCHEDULE #4 – \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
<b>Bid Schedule #5 – 52<sup>nd</sup> Avenue – Valley Water</b>					
619A	12" PVC	2,075	LF	\$ _____	\$ _____
619B	8" PVC	156	LF	\$ _____	\$ _____
619C	6" DIP	97	LF	\$ _____	\$ _____
619D	6" PVC	37	LF	\$ _____	\$ _____
619E	12" – 45 Degree Bend	6	EA	\$ _____	\$ _____
619F	12" – 11.25 Degree Bend	1	EA	\$ _____	\$ _____
619G	8" – 45 Degree Bend	12	EA	\$ _____	\$ _____
619H	8" – 11.25 Degree Bend	2	EA	\$ _____	\$ _____
619I	12" Gate Valve	7	EA	\$ _____	\$ _____
619J	8" Gate Valve	8	EA	\$ _____	\$ _____
619K	6" Gate Valve	7	EA	\$ _____	\$ _____
619L	12" x 12" Cross	1	EA	\$ _____	\$ _____
619M	12" x 12" Tee	1	EA	\$ _____	\$ _____
619N	12" x 8" Tee	3	EA	\$ _____	\$ _____
619O	12" x 6" Swivel Tee	4	EA	\$ _____	\$ _____
619P	8" x 6" Swivel Tee	1	EA	\$ _____	\$ _____
619Q	12" x 8" Reducer	3	EA	\$ _____	\$ _____
619R	12" x 6" Reducer	1	EA	\$ _____	\$ _____
619S	12" Solid Sleeve	4	EA	\$ _____	\$ _____
619T	8" Solid Sleeve	5	EA	\$ _____	\$ _____
619U	6" Solid Sleeve	1	EA	\$ _____	\$ _____
619V	8" Plug	1	EA	\$ _____	\$ _____
619W	6" Plug	1	EA	\$ _____	\$ _____
619X	Thrust Block	29	EA	\$ _____	\$ _____
619Y	Fire Hydrant	5	EA	\$ _____	\$ _____
619Z	Chlorination/Blowoff	1	LS	\$ _____	\$ _____
<b>Bid Schedule #5 - SUBTOTAL THIS PAGE</b>				\$ _____	

COMPANY SUBMITTING BID \_\_\_\_\_

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENSION
619AA	Reconnect 3/4" Service	17	EA	\$	\$
619AB	Reconnect 1" Service	2	EA	\$	\$
619AC	Reconnect 1-1/2" Service	1	EA	\$	\$
619AD	Reconnect 2" Service	1	EA	\$	\$
619AE	3/4" Copper Pipe	520	LF	\$	\$
619AF	1" Copper Pipe	60	LF	\$	\$
619AG	1-1/2" Copper Pipe	50	LF	\$	\$
619AH	2" Copper Pipe	100	LF	\$	\$
625A	Construction Surveying	1	LS	\$	\$
720A	Materials Sampling	1	LS	\$	\$

Bid Schedule #5 - SUBTOTAL THIS PAGE \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #5 - \$ \_\_\_\_\_

WRITTEN OUT AMOUNT OF BID SCHEDULE #5 - \_\_\_\_\_

**Bid Schedule Totals**

TOTAL AMOUNT OF BID SCHEDULE #1 - \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #2 - \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #3 - \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #4 - \$ \_\_\_\_\_

TOTAL AMOUNT OF BID SCHEDULE #5 - \$ \_\_\_\_\_

TOTAL AMOUNT OF ALL BID SCHEDULES \$ \_\_\_\_\_

WRITTEN OUT AMOUNT OF TOTAL OF ALL BID SCHEDULES - \_\_\_\_\_



## METHOD OF MEASUREMENT

**617.03** Each feature will be measured by the unit. Concrete foundation and all associated hardware will not be paid for separately, but shall be included in the work.

## BASIS OF PAYMENT

**617.04** The accepted quantities will be paid for at the contract unit price for each of the pay items listed below:

<b>Pay Item</b>	<b>Pay Unit</b>
Ornamental Bench	Each
Ornamental Trash Receptacle	Each

Revised 11/2019

## REVISION OF SECTION 619 WATER LINES

Section 619 of the CDOT Standard Specifications is hereby revised for this project as follows:

Subsection 619.03 shall include the following:

All water line materials and construction shall be in conformance with the standards and specifications of the owning utility company. Contractor shall notify the utility company at least 48 hours in advance of commencing construction on the utility company's system. All work shall be inspected and approved by the owning utility company.

There shall be a minimum cover of 4.5 feet above all water mains.

The Contractor shall notify all water utility customers affected by a scheduled water service outage a minimum of 24 hours in advance of the service disruption.

Subsection 619.04 shall include the following:

Reconnect Service items shall include replacement of existing meters with new meters to be provided by Valley Water District. Contractor shall provide yokes and all other necessary equipment to reconnect the service lines. Any existing 5/8" yokes shall be replaced with new 3/4" yokes.

Revised 11/2019

## REVISION OF SECTION 623 IRRIGATION SYSTEM

Section 623 of the CDOT Standard Specifications is hereby revised for this project as follows:

Subsection 623.03 shall include the following:

Pressure vacuum breakers shall be a Febco 825Y. Backflow preventer enclosure shall be a BPGI Coast Guard Shack.

In subsection 623.04 delete the first sentence and replace with the following:

The automatic controller shall be a RainBird ESP-MC series. The automatic controller shall be a microprocessor based/microelectronic solid state type capable of operating in an automatic or manual mode.

Subsection 623.07 (a) shall include the following:

The pop-up spray head shall be a RainBird 1800 Series type with nozzle included.

Subsection 623.07 (b) shall include the following:

The pop-up rotor head shall be a Hunter gear driven rotor.

Subsection 623.11 (a) shall include the following:

Automatic control valves shall be RainBird PEB Series.

Ball valves on upstream side of automatic control valves shall be a PVC type ball valve (FIPT x FIPT). Diameters of ball valves, PVC fittings, and nipples shall equal electric control valve diameters.

Subsection 623.12 shall include the following:

Valve boxes shall be made by Ametek or Carson.

Subsection 623.14 shall also include the following:

- (a) *Installer Qualifications.* Installer shall have had considerable experience and demonstrate ability in the installation of irrigation system(s) of specific type(s) in a neat, orderly, and responsible manner in accordance with recognized standards of workmanship. To demonstrate ability and experience necessary for this Project, submit if requested by the Engineer, a list of 3 projects completed in the last 2 years of similar complexity to this Project. Description of projects shall include, name of project, location, owner, a brief description of work and project budget.
- (b) *Special Requirements.* Work involving plumbing for installation of copper piping, backflow preventer(s), and related work shall be executed by licensed and bonded plumber(s). Secure a permit at least 48 hours prior to start of installation.

In subsection 623.15 change the reference to "CDOT Landscape Architect" to "City Parks Division".

In subsection 623.16 delete the second paragraph and replace with the following:

Where it is necessary to excavate adjacent to existing trees or shrubs, the Contractor shall use all possible care to avoid injury to the plant root system. All trenching or other Work under limb spread of any and all evergreens or low branching deciduous material shall be done by hand or by other methods so as to prevent damage to limbs or trees. Excavation, in areas where 2 inch and larger roots occur, shall be done by hand. Roots 2 inches or larger in diameter, except directly in the path of pipe or conduit, shall be tunneled under and shall be heavily wrapped with burlap to prevent scarring or excessive drying. Where a trenching machine is operated close to trees having roots smaller than 2 inches in diameter, wall of trench adjacent to tree shall be hand trimmed, making clean cuts through roots. Trenches adjacent to trees shall be closed within 24 hours, and when this is not possible, side of trench adjacent to tree shall be kept shaded with moistened burlap or canvas.

Subsection 623.17 shall also include the following:

To minimize unnecessary system damage, the City shall locate specific sections of the irrigation system where the Contractor shall expose, cut and cap PVC pipe before demolition/construction begins and reconnect PVC laterals as part of construction.

In subsection 623.28 delete the second sentence.

Subsection 623.32 shall include the following:

Backflow preventers, automatic controllers, wiring, sprinkler heads, drip emitters, pipes, valves valve boxes, and all other requirements of Subsection 623 are included in the pay item for Irrigation System unless they are identified in the Bid Schedule as separate pay items.

Subsection 623.33 shall include the following:

<b>Pay Item</b>	<b>Pay Unit</b>
Irrigation System	Lump Sum

Revised 11/2019

### **REVISION OF SECTION 627 PAVEMENT MARKING**

Section 627 of the CDOT Standard Specifications is hereby revised for this project as follows:

Subsection 627.08 shall include the following:

Application of pre-formed plastic pavement marking materials shall be in accordance with the manufacturer's specifications. Contractor shall submit manufacturer's pavement surface preparation and application specifications, for each type of marking material, for approval by the Engineer.

Pre-formed plastic pavement marking materials shall be inlaid into fresh pavement when the pavement temperature is between 135 degrees and 150 degrees.

In subsection 627.12, in the second and third paragraphs, delete all references to "gallons" and replace with "linear feet".

In subsection 627.12, in the fourth paragraph, delete all references to "square feet" and replace with "linear feet".

In subsection 627.12 delete the sixth paragraph and replace with the following:

Pavement word and symbol markings, transverse and longitudinal crosswalk lines, and stop lines will not be measured, but shall be the number of symbols placed or the linear feet of marking, color and width as specified, placed.

In subsection 627.13, the pay units for the first nine pay items shall be changed to "linear feet".

In subsection 627.13, the pay units for the last seven pay items shall be changed to "each".

Subsection 627.13 shall include the following:

<b>Pay Item</b>	<b>Pay Unit</b>
Preformed Pavement Marking (Handicap)	Each
Preformed Pavement Marking (Type – ____ SF)	Each

Revised 11/2019

**REVISION OF SECTION 630  
CONSTRUCTION ZONE TRAFFIC CONTROL**

Section 630 of the CDOT Standard Specifications is hereby revised for this project as follows:

Subsection 630.10 shall include the following:

If the Contract Documents do not include a Traffic Control Plan (TCP), the Contractor shall submit a method for handling traffic (MHT). The MHT must utilize the Manual on Uniform Traffic Control Devices (MUTCD) or Standard Plans S-630-1 and S-630-2 for devices that are proposed. Approval of the MHT does not relieve the Contractor of traffic control liability specifically assigned to him under this Contract. A copy of the approved MHT shall be available at the project site at all times in order that Division personnel may verify compliance with the specified traffic control requirements.

The Contractor's MHT shall also include the following:

- (1) The number of flag persons to be used.
- (2) The number of authorized 24-hour days a traffic control supervisor will be required.

The Contractor shall erect and maintain warning lights, signs, barricades and sufficient safeguards around all excavations, embankments and obstructions.

Subsection 630.13 shall include the following:

The Contractor shall provide an inventory of all existing pavement marking to be disturbed to the Engineer prior to beginning work.

All warning and construction zone traffic control devices shall bear the name, address and phone number of the barricade company that owns them. The phone number shall be a 24 hour a day dispatched hot line in the event an emergency situation occurs where additional devices are needed or existing devices must be removed.

The Contractor shall install construction zone traffic control devices in locations where they do not block or impede sidewalks for pedestrians, disabled persons, bicyclists or other existing traffic control devices. A minimum four foot wide, unobstructed sidewalk area is to be maintained where possible. In the event that a minimum four foot wide sidewalk area with a minimum overhead clearance of 7 feet 6 inches cannot be maintained, a pedestrian/bicycle detour plan shall be submitted in conjunction with the traffic control plan.

All existing traffic control devices including traffic signals, signs, and pavement markings that are compatible with the construction zone traffic control shall remain visible and fully operational. If these devices are incompatible with the temporary construction, they shall be covered, relocated or removed.

Whenever the Contractor removes, obliterates or covers in any way, any pavement markings including lane lines and crosswalks, he shall replace them on a daily basis. Prior to opening affected areas to traffic, all pavement marking shall be placed in accordance with the Plans and Specifications or as directed by the Engineer.

The Contractor shall equip all vehicles operating within the moving lanes with flashing amber lights visible from all directions.

Subsection 630.17 shall include the following:

Signs, barricades, traffic channelizing devices, flashing beacons (portable), method of handling traffic, traffic control supervisor, flagging, and all other requirements of Subsection 630 are included in the pay item for Traffic Control Management unless they are identified in the Bid Schedule as separate pay items.

Subsection 630.18 shall include the following:

No payment will be made under Section 630 until the method of handling traffic (MHT) has been submitted and accepted.

<b>Pay Item</b>	<b>Pay Unit</b>
Traffic Control Management	Lump Sum

Revised 11/2019

**REVISION OF SECTION 713  
TRAFFIC CONTROL MATERIALS**

Section 713 of the CDOT Standard Specifications is hereby revised for this project as follows:

Subsection 713.13 shall include the following:

Pre-formed plastic pavement marking material shall be the following or equal:

<u>Surface</u>	<u>Brand</u>	<u>Series</u>	<u>Product</u>
Concrete	3M Stamark	A	420
Asphalt	3M Stamark	A	5730

Revised 11/2019

**REVISION OF SECTION 715  
LIGHTING AND ELECTRICAL MATERIALS**

Section 715 of the CDOT Standard Specifications is hereby revised for this project as follows:

In subsection 715.02 delete first paragraph and replace with the following:

All foundations shall be Portland cement concrete, class BZ.

Subsection 715.03 shall include the following:

- (d) *In-use Receptacles.* Receptacles shall be GFCI duplex receptacles with an "in-use" weatherproof cover. The receptacle shall be located at least eleven feet above the base of the pole for light installation, if applicable.

Revised 11/2019

**SECTION 720  
MATERIALS SAMPLING AND TESTING**

Section 720 is hereby added for this project as follows:

**DESCRIPTION**

**720.01** Materials sampling and testing shall be performed under the Contract by an independent materials testing company. This work shall include all necessary labor, equipment and material required for sampling and testing materials or finished products in accordance with the specifications of this section. Unless otherwise designated, all referenced specifications, standards or policies shall be the latest edition as revised or updated by approved supplements published and issued prior to the date of the advertisement for bids

**CONSTRUCTION REQUIREMENTS**

**720.02** All materials sampling and testing shall be performed by certified, experienced and qualified materials testing technicians who work under the supervision of a registered professional engineer in the State of Colorado, practicing in this field. At the request of the Engineer, the Contractor shall require the materials testing company to replace any technician who cannot satisfactorily perform the testing duties.

**720.03** All materials sampling and testing equipment shall be serviceable and have been currently calibrated. At the request of the Engineer, the Contractor shall require the materials testing company to replace any testing equipment that is not satisfactory.

**720.04** Retesting the density of subgrade and base course materials shall be required at the Contractor's expense, if they are reworked or weather causes the materials to become wet, dry or frozen.

**720.05** Materials testing technicians shall furnish copies of failed test results to the Engineer within two working days of completion of testing and prior to the next construction phase. On a weekly basis, the Contractor shall furnish the Engineer with copies of all test results taken during that week and a cover letter, signed by the supervising registered professional engineer, which summarizes the results and discusses any failed tests or inconsistencies.

**720.06** The City materials testing requirements are provided in Table 720-1. All testing procedures, point of verification and central lab requirements shall be as specified in the Frequency Guide Schedule of the Colorado Department of Transportation Field Materials Manual. Without increasing the total number of tests or samples required, the Engineer or Inspector may change the test locations from the frequency spacing shown in Table 720-1. One test is required for any fraction of the specified frequency.

**Table 720-1  
City of Wheat Ridge Materials Testing Requirements**

<b>Type of Test</b>	<b>Frequency</b>	<b>Remarks</b>
Soil Survey (Classification), AASHTO M 145	1 per 500 feet of roadway or pipe trench	Surveys for roadway and trench may be combined
Moisture-Density Curve, AASHTO T 99	1 per on-site soil type 1 per import material source	AASHTO method determined by soil or materials type
Embankment in-place density, Colorado Procedures	1 per 250 feet per lane per 6 inch loose lift	Minimum density per soil classification, Section 203.07
Roadway subgrade in-place density, Colorado Procedures	1 per 250 feet per lane	Minimum density per soil classification, Section 203.07
Sidewalk subgrade in-place density, Colorado Procedures	1 per 250 feet of sidewalk	Minimum density per soil classification, Section 203.07
Pipe trench in-place density, Colorado Procedures	1 per 200 feet of trench per 18 inch vertical interval	Minimum density per soil classification, Section 203.07
Aggregate base course in-place density, Colorado Procedures	1 per 250 feet per lane	Minimum 95% of maximum density, T 180
Lime treated subgrade in-place density, Colorado Procedures	1 per 250 feet per lane	No less than 95% of standard dry density and optimum moisture, T99
Cement treated base in place density, Colorado Procedures	1 per 250 feet per lane	Density in accordance with contract documents, T 134
Hot Bituminous Pavement asphalt content and gradation	1 per 1000 tons	Within specifications of approved mix design: Binder PG 64-22
Hot Bituminous Pavement in-place density, Colorado Procedures	1 per 100 tons	92 - 96% of maximum density, T 209
Concrete compressive strength, AASHTO Procedures	1 set per 50 cubic yards	PCC pavement, structural concrete, sidewalks, and curbing
Concrete air content and slump, AASHTO Procedures	1 per 25 cubic yards	PCC pavement, structural concrete, sidewalks, and curbing

**BASIS OF PAYMENT**

**720.07** Payments for materials sampling and testing will be lump sum.



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## Plan Holders List

### Plan Holders List

Organization Name	Main Contact	Download Date	City	Province/State
Ideal Fencing Corp.	David Elger	03/30/2020 07:59 AM MDT	Erie	Colorado
Son-Haul inc.	Justin Sanders	03/28/2020 08:44 AM MDT	fort morgan	Colorado
Alpha & Omega Cons.	Earl Lambert	03/27/2020 11:48 AM MDT	Wheat Ridge	Colorado
Native Sun Construction	Samuel Jeffs	03/27/2020 10:35 AM MDT	Colorado Springs	Colorado
Three Sons Construction	Jaime Perez	03/27/2020 09:18 AM MDT	Aurora	Colorado
Mile High Striping, Inc.	Michael Nann	03/26/2020 06:07 PM MDT	Denver	Colorado
Hallmark, Inc.	Robert Lawrence	03/26/2020 03:56 PM MDT	Denver	Colorado
Oldcastle Infrastructure	TJ Sheahen	03/26/2020 03:49 PM MDT	Littleton	Colorado
Windy Point Electric	Mark Kulow	03/26/2020 03:11 PM MDT	Bailey	Colorado
Technology Constructors, Inc.	Ed Callejo	03/26/2020 03:01 PM MDT	Arvada	Colorado
Drill Tech Drilling & Shoring, Inc.	Drill Tech	03/26/2020 02:53 PM MDT	Antioch	California
Jones Commercial Fencing	Boo Jones	03/26/2020 02:52 PM MDT	GOLDEN	Colorado
W.L. Contractors, Inc.	Kevin Marsh	03/26/2020 02:13 PM MDT	Arvada	Colorado
Altus Traffic Management	Wayne Reed	03/26/2020 01:41 PM MDT	Denver	Colorado
Milestone Companies, LLC	Nicholas LaBorde	03/25/2020 12:50 PM MDT	Fort Collins	Colorado
Chavez Construction, Inc.	David Chavez	03/24/2020 10:01 PM MDT	Littleton	Colorado
CJH Planning	Carlos Hernandez	03/24/2020 09:23 AM MDT	Louisville	Colorado
M&M Excavation Company	Eric Harvgrave	03/23/2020 09:49 AM MDT	Greeley	Colorado
Verdant Environmental	Harry Alles	03/23/2020 07:30 AM MDT	Greeley	Colorado
Whittaker Brothers	Roland Whittaker	03/21/2020 05:10 PM MDT	New York	New York
Clanton & Associates	Lulu Davis	03/20/2020 12:01 PM MDT	Boulder	Colorado
Best Engineering Solutions and Technologies	Best Engineering Solutions & LLC.	03/20/2020 08:29 AM MDT	Dillon	Colorado
J & S Contractors Supply	Ken Fedel	03/20/2020 08:02 AM MDT	Denver	Colorado
Contractors Register, Inc.	Maria Deg	03/20/2020 07:00 AM MDT	Jefferson Valley	New York
Global Underground Corporation	Robert Powilleit	03/19/2020 05:23 PM MDT	Colorado Springs	Colorado
Terra Constructors Inc.	Tino Florez	03/19/2020 04:32 PM MDT	Johnstown	Colorado
K3 Industries	Charles King	03/19/2020 04:02 PM MDT	longmont	Colorado
Keyway Curb Company	Marjorie Harger	03/19/2020 03:23 PM MDT	Colorado Springs	Colorado
Alpha Milling Co	Doug Jones	03/19/2020 02:38 PM MDT	Arvada	Colorado
Myers and Sons, LLC	Bill Fox	03/19/2020 02:14 PM MDT	Castle Rock	Colorado
Advanced Drainage Systems	Tyler Work	03/19/2020 02:03 PM MDT	Denver	Colorado
SEMA Precast	Greg Bly	03/19/2020 10:32 AM MDT	Littleton	Colorado

Organization Name	Main Contact	Download Date	City	Province/State
AAA Barricade Company, Inc.	Andrew Scott	03/19/2020 10:02 AM MDT	Denver	Colorado
Sturgeon Electric Company, Inc.	Julia Bagwell	03/19/2020 09:44 AM MDT	Henderson	Colorado
STONE & CONCRETE	Jorge Marcelo Esmoris Verger	03/19/2020 08:32 AM MDT	Denver	Colorado
RIO, LLC	Steve Schaeffer	03/19/2020 07:32 AM MDT	BRIGHTON	Colorado
Construction Journal	Construction Journal	03/18/2020 11:44 AM MDT	Stuart	Florida
Interstate Highway Construction, Inc.	Cory Allington	03/18/2020 10:22 AM MDT	Englewood	Colorado
Duran Excavating, Inc.	Josh Duran	03/18/2020 08:01 AM MDT	Greeley	Colorado
ZAK DIRT,INC.	Jeromy Weiss	03/18/2020 07:51 AM MDT	LONGMONT	Colorado
Kelley Trucking Inc.	David Seehafer	03/18/2020 07:42 AM MDT	Golden	Colorado
Kinetic Energy Services, LLC	Shad Martin	03/17/2020 06:17 PM MDT	Milliken	Colorado
JBS Pipeline Contractors Inc.	James Turachak	03/17/2020 03:21 PM MDT	Commerce City	Colorado
GRC Consulting, Inc.	Gerald Carson	03/17/2020 02:51 PM MDT	Frederick	Colorado
Foothills Paving	Kurt Todesci	03/17/2020 12:30 PM MDT	Wheatridge	Colorado
C&H Aggregates LLC	John Pinello	03/17/2020 10:25 AM MDT	Ault	Colorado
Martin Marietta Materials	Martin Marietta	03/17/2020 10:05 AM MDT	Lakewood	Colorado
Construction Reporter, LLC	Sarah Motsinger	03/17/2020 08:36 AM MDT	Albuquerque	New Mexico
Alpine Demolition	Austin Moyer	03/17/2020 08:32 AM MDT	Arvada	Colorado
Earthworks Construction Group, LLC	Chelsea Osler	03/17/2020 08:21 AM MDT	Centennial	Colorado
Silva Construction, Inc.	Jose Silva	03/17/2020 08:11 AM MDT	Brighton	Colorado
Kiewit Infrastructure Co.	Tony Collins	03/17/2020 07:29 AM MDT	Englewood	Colorado
Communication Construction & Engineering	Greg Primavera	03/17/2020 07:24 AM MDT	denver	Colorado
Dana Kepner Co. INC.	Alexander Maiwald	03/17/2020 07:10 AM MDT	Denver	Colorado
Climate Survival Solutions, Inc. PBC	Larry Seibert	03/17/2020 03:04 AM MDT	Grand Junction	Colorado
amit	amit damahe	03/17/2020 12:33 AM MDT	gondia	Alabama
Diaz Construction Group L.L.C	Luis Diaz	03/17/2020 12:05 AM MDT	Denver	Colorado
Advanced Drainage Systems	evan fischgrund	03/16/2020 07:17 PM MDT	Denver	Colorado
P&H Equipment	Hortensia Villano	03/16/2020 05:07 PM MDT	Denver	Colorado
Edge Contracting	Cole Cattoor	03/16/2020 04:24 PM MDT	Golden	Colorado
Elite Surface Infrastructure	Lyman Wilkinson	03/16/2020 03:32 PM MDT	Aurora	Colorado
COLORADO BARRICADE CO.	Rusty Reynolds	03/16/2020 03:25 PM MDT	Denver	Colorado
M.A. Mortenson Company	Brian Holland	03/16/2020 03:25 PM MDT	Denver	Colorado

Organization Name	Main Contact	Download Date	City	Province/State
MPI Companies	Sasina Mikey	03/16/2020 03:25 PM MDT	Henderson	Colorado
APC Construction Co., LLC	Keary Brown	03/16/2020 03:13 PM MDT	Golden	Colorado
Western States Reclamation, Inc	Joe Schneider	03/16/2020 03:11 PM MDT	Frederick	Colorado
Jebro Incorporated	Ronald Feltz	03/16/2020 02:54 PM MDT	Cheyenne	Wyoming
Alpine Civil Construction	Matt Varholdt	03/16/2020 02:52 PM MDT	Golden	Colorado
Bestway All American Sports Material	Kelli Nelson	03/16/2020 02:07 PM MDT	Firestone	Colorado
Lobos Structures	Luis Villalobos	03/16/2020 02:05 PM MDT	Denver	Colorado
ECI Site Construction Mgmt, Inc.	Travis Coulter	03/16/2020 02:04 PM MDT	Loveland	Colorado
Concrete Express, Inc	Jessica Ray	03/16/2020 02:02 PM MDT	Denver	Colorado
Allied Recycled Aggregates	Russel Hawkins	03/16/2020 01:51 PM MDT	Commerce City	Colorado
Work Zone traffic control LLC	JOHN VOLK III	03/16/2020 01:47 PM MDT	Pueblo	Colorado
Fasick Concrete, Inc.	Alan Kuettel	03/16/2020 01:26 PM MDT	Lakewood	Colorado
Aggregate Industries	Michael Altergott	03/16/2020 01:19 PM MDT	Golden	Colorado
Behrens and Associates Environmental Noise Control	Kevin Pooley	03/16/2020 01:18 PM MDT	Longmont	Colorado
mike coleman construction	Mike Coleman	03/16/2020 01:14 PM MDT	Dillon	Montana
GoodLand Construction Inc	Ryan Neeley	03/16/2020 01:08 PM MDT	Golden	Colorado
Gold Star Concrete Inc.	Leobardo Enriquez	03/16/2020 12:57 PM MDT	Denver	Colorado
Asphalt Specialties Co. Inc.	Lawrence Olson	03/16/2020 12:51 PM MDT	Henderson	Colorado
Colt & Steel Corporation	Joe DeFranco	03/16/2020 12:51 PM MDT	Broomfield	Colorado
Alterra Underground	Steven Schlamp	03/16/2020 12:50 PM MDT	Denver	Colorado
Noraa Concrete Construction Corporation	Lisa Wagner	03/16/2020 12:37 PM MDT	Keenesburg	Colorado
Lindsay Precast, Inc.	Randy Lindsay-Brisbin	03/16/2020 12:35 PM MDT	Colorado Springs	Colorado
American Striping Company	Tony Ciccio	03/16/2020 12:34 PM MDT	Englewood	Colorado
Iron Woman Construction	Estimating Dept	03/16/2020 12:32 PM MDT	Denver	Colorado
American Civil Constructors, Inc	Amy Levine	03/16/2020 12:32 PM MDT	Littleton	Colorado
COLORADO PAVING INC.	Jesus Sanchez	03/16/2020 12:28 PM MDT	Brighton	Colorado
Ground Engineering Consultants, Inc	Nick Andrade	03/16/2020 12:27 PM MDT	Englewood	Colorado
Western States Reclamation, Inc.	Terry Alldredge	03/16/2020 12:25 PM MDT	Frederick	Colorado
Hamon Infrastructure	Judy Law	03/16/2020 12:23 PM MDT	Denver	Colorado
Sunbelt Rentals Pump Solutions	Michael de la Garrigue	03/16/2020 12:23 PM MDT	Brighton	Colorado

Organization Name	Main Contact	Download Date	City	Province/State
Brannan Sand & Gravel Company	Tim Lyons	03/16/2020 12:23 PM MDT	Denver	Colorado
KECI Colorado, Inc.	Paul Y. Iwata	03/16/2020 12:21 PM MDT	Sedalia	Colorado