

SECTION 01 22 00 - MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section shall define the method to be used to measure and make payment for the work performed as described in the contract documents, technical specifications and design drawings, hereafter known as the PROJECT MANUAL.

1.2 DETAILS FOR PAYMENT OF BID ITEMS

A. General

1. The amount of work to be done or materials to be furnished under the contract as noted in the Bid Schedule are estimates and are not to be taken as an expression or implied statement that the actual amount of work or materials will correspond to the estimate.
2. The right is reserved to increase, decrease or entirely eliminate certain items from the work if found desirable or expedient, and the Contractor is cautioned against unbalancing of his bid by prorating his overhead and profit into one or two items only when there are a number of items on the bid. The overhead, indirect charges and profit shall be prorated on all items in the bid.
3. The Contractor will be allowed no claims for anticipated profits, loss of profits or for damages because of any difference between the estimated and the actual amounts of work done, or materials furnished or used in the completed project.
4. The Owner may order additions, deletions, or revisions to work. Credit or additions to bid items shall be allowed for any lump sum or unit price bid items based on the difference between the estimated and the actual amounts of work done, or materials furnished or used in the completed project.

B. Inclusions

1. Payment for this schedule shall be at the unit price or lump sum as bid, which payment shall be full compensation for all required work necessary to complete this schedule as outlined in the PROJECT MANUAL.
2. Unit prices and lump sum payments shall be considered full compensation for all direct and indirect costs, overhead, profit, insurance, bonds, taxes, fees, permits and for furnishing all materials, labor, equipment, tools and doing all work as shown on the project drawings, defined in the specifications and as stipulated herein. Bid prices shall include all protective and remedial measures to bring work into compliance with the PROJECT MANUAL.

1.3 BID ITEMS

A. BASE BID

Under this item the Contractor shall be paid the lump sum price bid as full compensation for all materials, labor, and equipment to complete the following work on the White Rock Bay Campground Project as noted in the project drawings and specifications:

1. Mobilization
2. Construction Traffic Control
3. Erosion Control and Re-Vegetation
4. Clear, Grub, and Grading for Improvements
5. Sawcut and Removal of Asphalt
6. Park Well Head Improvements
7. Well House Improvements
8. 300K Gallon Tank Improvements
9. Bridger Bay Campground Booster Pump Station Improvements
10. Large, Small, and Large Restroom Improvements
11. Furnish, Place, and Install Campsite Sewer Drops
12. Furnish, Place, and Install Water and Power Connections for Non-Accessible Campsites
13. Furnish, Place, and Install Water and Power Connections for Accessible Campsites
14. Furnish and Install Wastewater Treatment System
15. Furnish and Install Wastewater Drain Field
16. Furnish and Install Restroom Wastewater Lift Station
17. Furnish and Install 8-inch HDPE Sanitary Sewer Main
18. Furnish and Install 1 ¼-inch HDPE Sanitary Sewer Force Main
19. Furnish and Install 4-inch SDR-35 PVC Sewer Laterals
20. Furnish and Install 6-inch SDR-35 PVC Sewer Laterals
21. Furnish and Install Sanitary Sewer Precast Manholes
22. Furnish and Install Sanitary Sewer Cleanouts
23. Furnish, Place, and Install 8-inch HDPE Drinking Water Main
24. Furnish and Install Drinking Water Yard Hydrant Services to Campsites
25. Furnish and Install Water Tower Service at RV Dump Station
26. Furnish and Install Drinking Water Services for Restrooms
27. Furnish and Install Combination Air/Vac Station
28. Furnish and Install Electrical, Telemetry, and Controls for Site, Campsite, Restroom, Wastewater System, and Drinking Water System Improvements
29. Furnish, Place, and Install Concrete Curb
30. Furnish, Place, and Install Monolithic Curb
31. Furnish, Place, and Compact Asphalt Pavement on UTBC
32. Furnish, Place, and Install PCC Pavement on UTBC
33. Furnish, Place, and Install Sidewalk on UTBC
34. Furnish, Place, and Install Mid-Block Pedestrian Ramp
35. Furnish, Place, and Compact UTBC
36. Furnish, Place, and Install Bollards
37. Furnish and Install RV Dump Station
38. Install Group Site Pavilion
39. Install Accessible Campsite Amenities including Pavilion, Fire Pit, and Sidewalk
40. Install Non-Accessible Campsite Amenities including Pavilion, Fire Pit, and Sidewalk
41. Furnish, Place, and Install Single and Dual Trash Enclosures

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42. Construct Pull Through Campsite
43. Construct Accessible Pull Through Campsite
44. Construction Double Back-in Campsite
45. Construct Back-in Campsite
46. Construct Accessible Back-in Campsite
47. Furnish, Place, and Install Signage and Striping
48. Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work. No additional payment will be made for work outside of the work listed in the base bid as shown on the project drawings.

B. ALTERNATE 1 – 300K GALLON TANK CHLORINE ANALYZER AND TANK MIXER

Under this item the Contractor shall be paid the lump sum price bid as full compensation for all materials, labor and equipment to complete the following work to install a tank mixer and chlorine analyzer at the 300K gallon tank by the Visitor Center as shown on the project drawings:

1. Mobilization
2. Erosion Control and Re-Vegetation
3. Clear, Grub, and Grading for Improvements
4. Chlorine Analyzer, Tubing, Hot Service Tap, Manhole, Control Panel, Fittings, and Appurtenances.
5. Tank Mixer, Wiring, Cable, Control Panel, Fittings, and Appurtenances.
6. Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work. No additional payment will be made for work outside of the work listed in Alternate 1 as shown on the project drawings.

C. ALTERNATE 2 – ASPHALT PAVEMENT FOR CAMPGROUND LOOP AND CAMPSITES

Under this item the Contractor shall be paid the lump sum price bid as full compensation for all materials, labor and equipment to complete the following work to asphalt pave the campground loop and campsites for the new White Rock Bay Campground as shown on the project drawings:

1. Mobilization
2. Construction Traffic Control
3. Erosion Control and Re-Vegetation
4. Clear, Grub, and Grading for Improvements
5. Furnish, Place, and Compact Asphalt Pavement on UTBC
6. Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work. No additional payment will be made for work outside of the work listed in Alternate 2 as shown on the project drawings.

D. ALTERNATE 3 – CONSTRUCT COVE ROAD

Under this item the Contractor shall be paid the lump sum price bid as full compensation for all materials, labor and equipment to complete the following work to construct the Cove Road as indicated on the project drawings:

1. Mobilization
2. Construction Traffic Control
3. Erosion Control and Re-Vegetation
4. Clear, Grub, and Grading for Improvements
5. Furnish, Place, and Compact UTBC
6. Rock Excavation
7. Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work. No additional payment will be made for work outside of the work listed in Alternate 3 as shown on the project drawings.

E. UNIT PRICES

The unit prices listed below are provided in case of an authorized adjustment to the scope of work listed in the Base Bid, Alternate 1 and Alternate 2.

1. BID ITEM NO. 1 – Back-in (Non-Accessible) Campsite
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for all materials, labor and equipment to complete each back-in (non-accessible) Campsite for the White Rock Bay Campground:
 - 1) Mobilization
 - 2) Construction Traffic Control
 - 3) Erosion Control and Re-Vegetation
 - 4) Clear, Grub, and Grading for Improvements
 - 5) Furnish, Place, and Install Water and Power Connections for Non-Accessible Campsites
Note: Because of the complexity of the feeder lines to the Campsite power pedestals the feeder line will be a separate unit price.
 - 6) Furnish and Install Drinking Water Yard Hydrant Services to Campsite
 - 7) Furnish and Install Electrical and Controls for Campsite
 - 8) Furnish, Place, and Install Sidewalk on UTBC
 - 9) Furnish, Place, and Compact UTBC
 - 10) Furnish, Place, and Install Bollards
 - 11) Furnish and Install Non-Accessible Campsite Amenities including Concrete Pad, Pavilion, Fire Pit, and Sidewalk
 - 12) Construct Back-in Campsite
 - 13) Furnish, Place, and Install Campsite Marker Post
 - 14) Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work.

2. BID ITEM NO. 2 – Pull Through (Non-Accessible) Campsite

- a. Under this item the Contractor shall be paid the unit price bid as full compensation for all materials, labor and equipment to complete each pull through (non-accessible) Campsite for the White Rock Bay Campground:

- 1) Mobilization
- 2) Construction Traffic Control
- 3) Erosion Control and Re-Vegetation
- 4) Clear, Grub, and Grading for Improvements
- 5) Furnish, Place, and Install Water and Power Connections for Non-Accessible Campsites
Note: Because of the complexity of the feeder lines to the Campsite power pedestals the feeder line will be a separate unit price.
- 6) Furnish and Install Drinking Water Yard Hydrant Services to Campsite
- 7) Furnish, Place, and Compact Asphalt Pavement on UTBC
- 8) Furnish, Place, and Install Sidewalk on UTBC
- 9) Furnish, Place, and Compact UTBC
- 10) Furnish, Place, and Install Bollards
- 11) Furnish and Install Non-Accessible Campsite Amenities including Concrete Pad, Pavilion, Fire Pit, and Sidewalk
- 12) Construct Pull Through Campsite
- 13) Furnish, Place, and Install Campsite Marker Post
- 14) Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work.

3. BID ITEM NO. 3 – Campsite Sanitary Sewer Service including Maintenance Accessible Sewer Drop

- a. Under this item the Contractor shall be paid the unit price bid as full compensation for all materials, labor and equipment to complete each campsite sanitary sewer service with maintenance accessible sewer drop for the White Rock Bay Campground:

- 1) Mobilization
- 2) Construction Traffic Control
- 3) Erosion Control and Re-Vegetation
- 4) Clear, Grub, and Grading for Improvements
- 5) Furnish, Place, and Install Sewer Service Connections with Associated Pipe, Fittings, Maintenance Accessible Sewer Drop, and Appurtenances.
- 6) Permitting Coordination

The Contractor shall make his own determination of quantities required to complete the work.

4. BID ITEM NO. 4 – Small Restroom
- a. Under this item the Contractor shall be paid the unit price bid as full compensation for all materials, labor and equipment to complete each small restroom for the White Rock Bay Campground:
 - 1) Mobilization
 - 2) Construction Traffic Control
 - 3) Erosion Control and Re-Vegetation
 - 4) Clear, Grub, and Grading for Improvements
 - 5) Furnish, Place, and Install Water, Sewer, and Power Connections for Restrooms

Note: Because of the complexity of the feeder lines to the restrooms the feeder line will be a separate unit price.

 - 6) Furnish, Place, and Install Sidewalk on UTBC
 - 7) Furnish, Place, and Install Concrete Pavement on UTBC
 - 8) Furnish, Place, and Compact UTBC
 - 9) Restroom Structure and Amenities
 - 10) Furnish and Install Mechanical, Plumbing, Electrical, and Controls for Restroom
 - 11) Striping and Signage
 - 12) Permitting Coordination
- The Contractor shall make his own determination of quantities required to complete the work.
5. BID ITEM NO. 5 – 3-inch Schedule 40 PVC Conduit
- a. Under this item the Contractor shall be paid the unit price bid as full compensation for each linear foot (L.F.) installed of 3-inch Schedule 40 PVC Conduit. The unit price bid shall also include all labor, equipment, and materials to perform the job.
6. BID ITEM NO. 6 – 2-inch Schedule 40 PVC Conduit
- a. Under this item the Contractor shall be paid the unit price bid as full compensation for each linear foot (L.F.) installed of 2-inch Schedule 40 PVC Conduit. The unit price bid shall also include all labor, equipment, and materials to perform the job.
7. BID ITEM NO. 7 – #10 THHN/THWN Copper Stranded Wire
- a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #10 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.
8. BID ITEM NO. 8 – #8 THHN/THWN Copper Stranded Wire
- a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #8 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

9. BID ITEM NO. 9 – #6 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #6 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

10. BID ITEM NO. 10 – #4 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #4 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

11. BID ITEM NO. 11 – #3 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #3 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

12. BID ITEM NO. 12 – #2 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #2 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

13. BID ITEM NO. 13 – #1 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #1 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

14. BID ITEM NO. 14 – #2/0 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #2/0 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

15. BID ITEM NO. 15 – #3/0 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #3/0 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

16. BID ITEM NO. 16 – #4/0 THHN/THWN Copper Stranded Wire
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #4/0 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

17. **BID ITEM NO. 17 – #250 THHN/THWN Copper Stranded Wire**
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #250 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

18. **BID ITEM NO. 18 – #350 THHN/THWN Copper Stranded Wire**
 - a. Under this item the Contractor shall be paid the unit price bid as full compensation for each one hundred linear foot (C.L.F.) installed of #350 THHN/THWN Copper Stranded Wire. The unit price bid shall also include all labor, equipment, and materials to perform the job.

PART 2 - PRODUCTS

Not applicable

PART 3 – EXECUTION

Not applicable

END OF SECTION