

ADDENDUM NO. TWO

PROJECT TITLE

PROJECT NO. 04-455

CITY OF THORNTON, COLORADO

ADDENDUM NO. TWO

SEPTEMBER 25, 2008

Receipt of this Addendum must be acknowledged on, in the space provided on the Bid Proposal Form in the Project Manual.

TO: Prospective Bidders and all others concerned.

1. The following shall Add to, Modify, and/or Delete portions of the Project Manual and Drawings for the Project noted above.

- Replace Drawings 9, 10, and 11 with the revised Drawings 9, 10, and 11. Drawings have been revised to show the contractor staging area.
- Replace Bid Schedule, page 23 and 24, with attached revised bid schedule. Note this has been condensed to one (1) page.
- Add Detail and Section of grouted boulders as shown on Figure 1 (attached) to Drawing 25.
- Specifications Division 0 – Special Conditions Article 12: GRADES AND ALIGNMENT. Delete first sentence and replace with the following: Thornton shall establish permanent benchmarks. Contractor shall use these benchmarks to establish all lines, grades, and survey necessary for the Project.
- Specification Section 01310: PROJECT MANAGEMENT AND COORDINATION. Delete subsection 1.3.A.2. Revise subsection 1.3.A.1 to be as follows:

Water (non-potable) for construction of the Work will be furnished to CONTRACTOR by OWNER per Special Conditions Article 26: WATER USE.

- Specification Section 1500: TEMPORARY FACILITIES AND CONTROLS.
 - Revise subsection 2.2.A to: To be furnished and installed by OWNER.
 - Revise subsection 3.14.A.5 to: Remove after Work is substantially complete or as directed by OWNER.

- Specification Section 01575: PROJECT PERMITS AND ENVIRONMENTAL CONTROLS. Delete subsection 1.3.C.

- Specification Section 02220: DEMOLITION. Delete subsection 1.1.B.3. Add subsection 1.1.C.2 as follows:

Lighting: Includes two (2) light standards, two (2) light foundations, and eight hundred feet (800') of conduit and buried electric wires. Light standards (posts and luminaries) to be relocated as shown on the Drawings. If damaged during removal or temporary storage, CONTRACTOR shall replace lighting with equal approved by OWNER.

- Specification Section 02230: SITE CLEARING. Modify subsection 3.5.E to:

Stockpile strippings, meeting requirements of Section 02920: NATIVE SEED AREAS AND GRASSES, for topsoil, separately from other excavated material.

- Specification Section 02317: FILL AND BACKFILL, modify subsection 2.4.A to:

Topsoil from site preparation work having a maximum particle size of one half inch (1/2"), containing more than twenty percent (20%) organic material, and free from deleterious materials. Topsoil shall be amended in accordance with Section 02920: NATIVE SEED AREAS AND GRASSES.

- Specification Section 02370: EROSION AND SEDIMENT CONTROL, delete subsection 2.1.C.1.

- *Specifications Section 02531: SANITARY SEWER. Add subsection 1.2 (attached).*

- Specification Section 03950: CONCRETE REPAIR. Modify subsection 1.1.B to be as follows:

Concrete repairs are not accepted on other concrete structures. Trails, sidewalks, and other non-hydraulic structure concrete shall be per Special Conditions Article 4: CONCRETE SPECIFICATIONS.

- Specification Section 08345: SPECIALTY DOORS. Add section (attached).

- Specification Section 11290: WATER CONTROL EQUIPMENT.

- Revise Subsection 1.4.A.2.b.iv. to: Power and Control Wiring Diagrams. Power consists of 12-volt battery.
- Add Subsection 1.8 MANUFACTURES.
- Add Subsection 1.8.A which shall be: Hydrogate or approved equal.
- Subsection 2.1.B. Delete "Fabricated Steel" from materials column for Slide and Frame components.

- Add subsection 2.2.E.5.f. to: All valves to be stainless steel.
- Revise Subsection 2.2.A.8. to: 12-volt battery-powered controls shall be furnished in a NEMA N-rate enclosure, integrally mounted at the factory on the hydraulic power unit.
- Add subsection 2.2.E.9.b to be: All valves to be stainless steel.
- Add subsection 2.2.E.10.d to be: All valves to be stainless steel.
- Revise subsection 2.3.A to be: Provide one (1) complete pre-assembled spare hydraulic operating system including hydraulic control unit, reservoir, motor, etc. for storage by OWNER that can be simply installed if needed.

SECTION 02531: SANITARY SEWER

1.2 SUBMITTALS

A. Shop Drawings. Submit thirty-five (35) Calendar Days prior to start of Work. Plans are subject to review and approval of the State Engineer.

1. Excavation Plan, including but not limited to:
 - a. Schedule of excavation, consistent with the progress schedule specified in Section 01320: CONSTRUCTION PROGRESS DOCUMENTATION.
 - b. Equipment and method of proposed excavation, consistent with the approved Demolition Plan and ACM Handling and Disposal Plan as specified in Section 02220: DEMOLITION.
 - c. Equipment and installation methods proposed for temporary bracing and/or other elements required to support or protect features to remain.
 - d. Copies of any authorizations and permits required to perform the installation of the Sanitary Sewer.
2. Continued Service Plan including description of procedures and equipment that will be used to maintain uninterrupted sewer service during construction.
3. Sewer Installation and Backfill Plan, including but not limited to:
 - a. Schedule of sewer installation and backfill consistent with the progress schedule specified in Section 01320: CONSTRUCTION PROGRESS DOCUMENTATION.
 - b. Methods, equipment, materials, and procedures for sewer installation

and backfilling consistent with submittal requirements of Section 02317: FILL AND BACKFILL.

B. Administrative:

1. Post Construction Survey: Provide the following after completion of sewer pipe and manhole installation.
 - a. Survey of all sewer pipe inverts at manhole tie-ins, including horizontal coordinates, elevations, and dimension.

SECTION 08345

SPECIALTY DOORS

PART 1 GENERAL

1.1 WORK INCLUDES

- A. Specialty door for control vault.

1.2 REFERENCES

- A. The following is a list of standards that may be referenced in this Section:

1. American Society for Testing and Materials (ASTM):
 - a. A 36 – Standard Specification for Structural Steel.

1.3 SUBMITTALS

- A. Shop Drawings:

1. Product Data:
 - a. Roof Scuttle
 - i. For each type and model proposed for use.
 - ii. Manufacturer name.
 - iii. Product name and/or number.
 - iv. Technical data sheets demonstrating compliance with Specification requirements. Include dimensional information, sizes, finishes, fastener, weld, and materials of construction. Product data sheets and complete catalog information of manufactured items including dimensions, descriptive literature, specifications, and materials of construction.

v. Reference all materials by ASTM designations and grades.

2. Detailed placement drawings indicating locations of roof scuttle and relationship to adjoining work. Verify all dimensions to ensure proper fit of all items. Include installation sequencing requirements.

B. Administrative:

1. Statement of Qualifications:

a. Specialty door manufacturer.

2. Manufacturer's Certificates of Proper Installation

C. Quality Control:

1. Manufacturer's Certificates of Compliance:

a. Roof Scuttle.

1.4 QUALIFICATIONS

- A. Specialty Door Manufacturer: Minimum seven (7) years experience in the manufacture of roof scuttles.

PART 2 PRODUCTS

2.1 ROOF SCUTTLE

- A. Metal roof scuttle, as shown on Drawings. The roof scuttle shall be pre-assembled from the manufacturer.

B. Performance characteristics:

1. Cover shall be reinforced to support a minimum live load of 40 psf with a maximum deflection of 1/150 of the span or 20 psf wind uplift.
2. Operation of the cover shall be smooth and easy with controlled operation throughout the entire arc of opening and closing.
3. Operation of the cover shall not be affected by temperature.
4. Entire scuttle shall be weathertight and fully welded corner joints on cover and curb.

- C. Cover: Shall be 14-gauge paint bond G-90 galvanized steel with a 3-inch beaded flange with formed reinforcing members. Cover shall have a heavy extruded thermoplastic rubber gasket fitted into a retainer that is mechanically

- fastened to the cover interior to assure a continuous seal when compressed to the top surface of the curb.
- D. Cover insulation: Shall be fiberglass of 1-inch thickness, fully covered and protected by a metal liner, 22-gauge paint bond G-90 galvanized steel.
- E. Curb: Shall be 12 inches in height and of 14-gauge paint bond G-90 galvanized steel. The curb shall be formed with a 3.5-inch flange with 7/16-inch holes provided for securing to the roof deck. The curb shall be equipped with an integral metal capflashing of the same gauge and material as the curb, fully welded at the corners, that features the Posi-Flash flashing system, including stamped tabs, 6 inches on center, to be bent inward to hold single-ply roofing membrane securely in place.
- F. Curb insulation: Shall be rigid, high-density fiberboard of 1-inch thickness on outside of curb.
- G. Lifting mechanisms: Manufacturer shall provide compression spring operators enclosed in telescopic tubes to provide smooth, easy, and controlled cover operation throughout the entire arc of opening and closing. The upper tube shall be the outer tube to prevent accumulation of moisture, grit, and debris inside the lower tube assembly. The lower tube shall interlock with a flanged support shoe through-bolted to the curb assembly.
- H. Hardware:
1. Heavy pintle hinges shall be provided.
 2. Cover shall be equipped with a spring latch with interior and exterior turn handles.
 3. Roof scuttle shall be equipped with interior and exterior padlock hasps.
 4. The latch strike shall be a stamped component bolted to the curb assembly.
 5. Cover shall be automatically lock in the open position with a rigid hold open arm equipped with a 1-inch-diameter red vinyl grip handle to permit easy release for closing.
 6. Compression spring tubes shall be an anti-corrosive composite material and all other hardware shall be zinc plated and chromate sealed. Springs shall have an electrocoated acrylic finish for corrosion resistance.
 7. Cover hardware shall be bolted into heavy gauge channel reinforcing welded to the underside of the cover and concealed within the insulation space.

- I. Finishes: Factory finish shall be alkyd-based red oxide primed steel.
- J. Manufacturer:
 - 1. The BILCO Company, New Haven, CT or approved equal.

PART 3 EXECUTION

3.1 INSPECTION

- A. Verify that the substrate is dry, clean, and free of foreign matter.

END OF SECTION

The Pre-Bid meeting sign-in-sheet has been attached for general information.

- 3. This Addendum becomes part of the Contract Documents. All other conditions and requirements of the Contract Documents will remain unchanged.

END OF ADDENDUM NO. ONE

Pamela Rutter, P. E. *9/25/08*
Pamela Rutter, P.E. Date
Contracts and Purchasing Manager

General Information:

Pre-Bid Meeting:

This is a summary of the items discussed during the pre-bid meeting on September 23, 2008 for Lambertson Lakes No. 3 Dam Rehabilitation Project. The meeting was held at Thornton Civic Center. This memorandum is a summary of the meeting and is not intended to be a verbatim account of what transpired at the meeting. Information contained in these meeting minutes does not modify the Contract Documents.

Introduction (Jim Jensen):

The meeting opened with self introductions of City of Thornton and RJH staff. The Project involves rehabilitation of an earth dam owned by the City of Thornton (City). The Project is under the jurisdiction of the Office of the State Engineer (SEO). The Engineer is RJH Consultants, Inc. (RJH)

Contractual and Administrative Items

Eduardo Moreno and Jim Jensen will be the points of contact for the City. Particular portions of the contract were highlighted including:

- Mandatory site walk and this pre-bid meeting.
- Bids due at 10:30 a.m. local time on October 7, 2008. No late bids will be accepted.
- Estimated Project cost by engineer is \$1.6 million.
- Drawings and specifications are available for download from Rocky Mountain E-Purchasing.
- Contract:
 - Typical AIA bid bond form is acceptable.
 - Completion within one hundred eighty (180) Calendar Days required after notice-to-proceed.
 - One addendum has been issued to date (AutoCAD drawings on CD).
 - The Bid Schedule is self-explanatory.
 - The only add-alternate is lake-bottom fill, to address nuisance odor.
 - Project Specification Requirements include having worked on one other jurisdictional dam.
 - Liquidated damages are \$1,708/day over one hundred eighty (180) Calendar Days after notice-to-proceed.
 - \$3 million dollars of insurance required.

Technical Items

Plans and specifications were reviewed. Specific items noted included:

- Procedural specifications for earthwork and other work are as important as density and moisture content specifications due to the requirements associated with jurisdictional dams. Temporary slopes are shown as 2H:1V and steeper slopes will not be allowed. These are needed for dam safety.
- The Project is under permit of the SEO; any technical changes to the design must go through RJH, the City, and the SEO.
- Permits include dewater and stormwater permits among others.
- Work hours
 - 7:00 a.m. to 6:00 p.m. Monday through Friday
 - 8:30 a.m. to 3:30 p.m. Monday through Friday if impacting traffic
 - 7:30 a.m. to 5:00 p.m. Saturdays
 - No work on Sundays
- Addendum No. 2 will be issued and will address the construction staging area, which will be to the west of the borrow area.
- Limits of site disturbance were stressed to minimize destruction of grasses and eliminate disturbance of historical site.
- Survey work for the Project is the responsibility of the contractor. The City has provided primary site control points.
- Construction sequence is critical and must be followed to maintain dam safety of a dam on an active stream:
 - Lower the reservoir to specified elevation (El. 5279.0).
 - Clear vegetation and trees.
 - Construct cofferdam and stream diversion components.
 - Construct bottom portion of the spillway only, then place embankment fill on the downstream side of the spillway to final grade.
 - Excavate the existing embankment crest to specified elevation (El. 5284.0). Excavate the downstream slope and begin fill placement below El. 5284.0.
 - Construct the remainder of the spillway.
 - Construct the outlet works.
 - Remove cofferdam and divert stream flow through the outlet works.
 - Complete construction.
- Concrete placement.
 - The protective coating must be placed over prepared subgrade within ten (10) hours.
 - It is important for contractors to closely read the specifications regarding concrete placement to appropriately schedule and sequence concrete placement in their bids. There are time requirements for adjacent placements.

- Schedule
 - Deliver initial schedule signed.
 - Submit updated schedules at least once each month with pay request.
 - Contract requires Project completion within one hundred eighty (180) consecutive Calendar Days from notice-to-proceed.
- Lake lowering and stream diversion
 - Work will be occurring in an active stream channel with an approximate base flow of 1 cfs.
 - There is not a functioning low-level outlet, so lowering the lake will need to be performed using portable pumps and hoses.
 - The stream diversion channel will be cut across the dam and could impact the spillway excavation and access to the left abutment of the dam.
 - Design and maintenance of the cofferdam is the Contractor's responsibility.
 - The design hydrograph is provided in the specifications. The peak flow is about 400 cfs, which correlates to flow from the 5-year storm.
 - Stream diversion will be routed through the outlet works once completed so embankment construction can then be completed.
- Construction Water
 - Provided by City at a hydrant on 101st Avenue.
 - Contractors are responsible for metering, conveyance, and storing water.
 - Monthly rental fee for contractor is \$20.00/month for the meter.
 - No fee for the water itself.
- Site Access and Contractor Staging Area
 - East 101st Avenue. Follow control plan when deliveries impact resident access.
 - Addendum No. 2 will show the staging area. It is adjacent to the borrow area, as previously mentioned.
- Borrow Areas/Materials Variability
 - Borrow is from area west of Lake No. 2.
 - If additional borrow materials are needed, auxiliary borrow site is at McKay and 104th Avenue.
 - Stockpile topsoil for re-use.
 - Filter sand, riprap, and riprap bedding will be delivered from off site.
- Process fill within the borrow areas only. Fill needs to meet the particle size and moisture specifications when delivered to fill.

- This Project has significant concrete work with surrounding earthwork. The earthwork needs to be completed in several stages. This is not a large earthwork project.

Other Items

- A Site fence will surround the entire Project and signs will address pedestrian access.
- The borrow and staging areas are set; alternatives will not be accepted in bids.
- Residents will likely be concerned with the noise.
- The haul road must remain on site, 101st Avenue shall not be used as a haul road.
- Heavy vegetation on the dam exists and must be removed.
- All residential questions and concerns should be directed to Joe Derenzo and Eduardo Moreno.
- Existing lights shall be removed and reused, as they are maintained by the HOA. It is the contractor's responsibility to replace these lights if damaged during removal or storage.
- The wetlands near the borrow area must be protected.
- The outlet works concrete encasement will be required to be tapered on the side for compaction reasons, or a backfilled trench option is acceptable (as shown on the drawings).
- The sanitary sewer relocation trenches are not required to be sloped back at 2H:1V.
- Lake bottom fill is an add-alternate to address and control potential odor from the drained lake bottom. The lake bottom fill must be sand, as noted in the specifications. CORRECTION AFTER MEETING: The information contained in the specification is correct and imported sand is not the only material approved for Lake Bottom Fill.
- CDs were distributed to the contractors and contained the AutoCAD drawing files. A signed waiver was required to obtain a CD. Quantities must be derived from the hard copy drawings and not the electronic files. The electronic files were developed only for the purpose of developing drawings, not quantities.
- The sanitary sewer flow control is the contractor's responsibility. A suggested method was the use of a bypass pump. The flow of the sanitary sewer was not provided at the meeting and is not known by the City. Additionally, it can be assumed that the sanitary sewer pipe is an asbestos pipe and shall be priced as such.
- Outlet works gates and manufacturers will be provided to contractors as guidance for pricing and bidding.
- The start date would be approximately three (3) to four (4) weeks after bids opened. An early start date is preferred.

Questions

Contractor: Is the perimeter fence a chainlink fence?

City: Yes, but it is not the kind that requires posts in the ground.

Contractor: Where is the nearest area for electrical disconnect, regarding the lights?

City: The nearest electrical disconnect is north of the reservoirs, near Washington Avenue.

Contractor: Are helical foundations acceptable for the lights?

City: No, concrete posts are required because that is what is in place now. Lights must be replaced as they currently exist.

Contractor: Why is there no payment for the embankment excavation? Is there payment for fill placement from the excavation limit to final grade?

Engineer: Costs for all excavation to the lines and grades shown are to be included in the costs for fill. Fill placement is payable from the limit of excavation to the final grade.

Contractor: What are the limits of the 3-rail fence along the dam crest? Are there stations?

City: If there are no stations in the drawings, they will be provided subsequent to meeting (see Dwg. 12).

Contractor: How are the boulders along the upstream face of the dam grouted?

Engineer: Grouting shall be between the boulders so as to prevent water or sediment to pass between the boulders. Refer to Addendum No. 2.

Contractor: Is the concrete work for the outlet works payable?

City: Yes. It is included in Bid Item No. 18.

Contractor: Is the topsoil to be imported or stripped and replaced?

City: The topsoil is to be stripped and replaced. There is no expectation to import topsoil. However, there is a requirement for amendment to the topsoil.

Contractor: What kind and how many tests will be required for the anchors? Can a modified grout mix be used? Can we have design data for the anchors?

Engineer: The tests are for the grout. A modified grout mix will be considered provided it meets the requirements of the design. The dimensions of the anchors shall not be modified so we will not provide design data.

Contractor: Is there a Measurement and Payment specification?

Engineer: Yes, Specification 01275, pg. T-7.

Contractor: Can the Design/Build irrigation system be clarified?

City: Yes, it will be clarified in an Addendum.

Contractor: Is the fabric of the fence around the spillway all that is coated, or are the posts coated as well?

Engineer: Only the fabric of the fence needs to be coated with black PVC coating.

City: If there are any issues with the HOA, contact Eduardo Moreno.

Contractor: The specifications require a minimum of seven (7) days between adjacent concrete placements. What if a faster setting concrete is used?

Engineer: If a faster setting concrete is used, then adjacent concrete placements will be acceptable in less than seven (7) days. However, the Contractor will be required to submit technical documentation to support this change.

Contractor: What portions of the concrete shall be coated with graffiti-proof coating?

City: Any portion of the concrete that is exposed and not backfilled or under water. Sidewalks shall not be applied with graffiti-proof coating. Also, the coating generally needs to be applied thirty (30) days after forms are removed (see manufacturer's data).

Contractor: Is there sales tax included?

City: Anything associated with City or State is tax exempt.

Site Visit:

After the formal meeting, a tour of the existing Lambertson Lakes No. 3 Dam commenced. The tour outlined site access; location of borrow materials, staging areas, haul roads, existing facilities, existing vegetation to be removed, fire hydrants available for use (along 101st Avenue), and existing retaining walls that, if damaged, must be replaced in kind.

A contractor asked if the site fence went all around the site. It was confirmed that the site fence would outline the perimeter. A contractor asked if the outlet works gate worked. All were informed that the gate was not in working order and could not be used to drain the reservoir.

The City and RJH agreed that a second addendum would be issued on Thursday September 25, 2008 addressing the above questions/clarifications. All questions are due by Monday, September 29, and if needed, a third addendum will be issued on October 2.

It was stressed that obtaining the outlet works gate and hydraulics components would likely take sixteen (16) weeks or more and was therefore an important component in the bid schedule.

The City has assembled the questions received through the Close of Business on Wednesday, September 24, 2008.

The questions and responses are provided below:

Questions by Gracon Corporation

1. Specification section 01575 para 1.3.C states that owner-obtained permits are included in Section 00800 – there is no Section 00800 in my spec book. Will this section be sent out to prospective bidders?

Response: There is not a specification Section 00800. Refer to Addendum No. 2.

2. In Spec section 02511 para 1.6.A.1 contractor is to provide a certified welding inspector for shop and field welding. In para 3.4.A.1 of the same spec section it states that the Owner will provide the certified welding inspector for field welding. Please clarify.

Response: The specification is correct. The Contractor shall provide a certified welding inspector to provide visual inspection of all shop and field welds to confirm the adequacy of welds and for quality control of the Contractor's work. The OWNER may provide a certified welding inspector to perform testing and inspection of welds.

3. In spec section 02220 para 1.1.B.1 describes the demolition of the existing 12" sanitary sewer line. Would it be acceptable to concrete fill the existing pipe with Class C concrete and abandon it in place?

Response: No.

4. Drawing Sheet #24 section NN Gate Operations Vault shows a 60" x 60" double leaf roof hatch on the control vault. There is no specification for the hatch. What make, model, etc. is required?

Response: A specification has been included in Addendum No. 2.

Questions by Zak Dirt

1. Where is the nearest disconnect for the electrical line to be removed and relocated?

Response: At east side of Washington St., north side of drainage adjacent to bike trail. Contractor is required to contact HOA and City of Thornton prior to disconnect.

2. Page T 158 of the specs says to fence the entire construction site with 6' high chain link fence. Please clarify that this is correct.

Response: Correct, fence is a temporary removable chain link type fence. No post holes or permanent foundations are allowed.

3. Do we need a wire mesh support fence with the silt fence? The specs say yes, but plan detail does not show it.

Response: No, wire mesh will not be required. Refer to Addendum No. 2.

4. The retaining wall on sht 25 is about 85 sf according to my calcs. Where is the rest of the 200 sf? Is the retaining walls near the borrow included in this quantity?

Response: The quantity on the bid tab should be 85 SF. The other walls (near the borrow area) are either to be protected or replaced and the cost of this work is to be included in the Lump Sum Pay Item. The bid tab has been revised in Addendum No. 2.

5. Does the sidewalk quantity include the sidewalk located near the borrow area that will be destroyed by the access road?

Response: No, the sidewalk located near the borrow area should be protected or replaced and the cost of this work is to be included in the Lump Sum Pay Item.

6. The detail on sheet 31 showing the steel edging says to abut all curbs and walks. Does this mean that the crusher fines path will receive steel edging, or is it just in the planted areas?

Response: Steel edger is required around planting bed areas; no steel edging is required along the crusher fines path.

7. Could you please elaborate a little on what is expected for seeding and landscape maintenance?

Response:

Dryland Seeding

- Weed eradication, probably chemical. COT will inspect seedbed for no weeds before seeding.
- Area ripped to 12 inches (haul road that had truck traffic and is not to become part of the trail or clear zone and staging area with construction parking, etc., per COT Standards and Specifications) or plowed/rototilled to 8-inch depth in areas not impacted by construction traffic or staging.
- Amendment per specification; COT requires load tickets for required amounts.
- Hydromulched
- Seeding dates: 12-1 to 5-1

Dryland Seed Maintenance until Initial Acceptance:

- Depending on when seeding occurs, mowing may be required before Initial Acceptance. Mow before seed reaches 12" high w/bush hog or rotary mower.
- Remove weeds by hand over four inches tall that are not controlled by mowing.
- Apply herbicide only with written approval of COT
- Litter Removal
- Spot regrading, seeding, mulching & weed control until Initial Acceptance to repair areas damaged by erosion, wind, fire or other causes.

- City criteria for Initial Acceptance: Initial Acceptance may occur when the City has received and approved all product certifications and quantities and given written acknowledgement that the designated area has been prepared, seeded, mulched and maintained to meet the specification requirements. Contractor to maintain seeded area until Initial Acceptance.

Dryland Seed Maintenance until Final Acceptance

- City criteria for Final Acceptance: Final Acceptance may occur when a healthy, uniform stand of the specified grasses has been established at minimum three to five leaf stage, free of weeds and surface irregularities (no rills & gullies), with minimum 80% grass coverage over any 10 square foot area and bare spots not exceeding 10 inches by 10 inches.
- If the City elects that the Contractor does not maintain the seed area between Initial & Final Acceptance, then any areas that do not comply with Final Acceptance criteria at the time of Final Acceptance shall be reseeded one time by the Contractor in accordance with these specifications, using specified materials and methods.

Maintenance Proposal Information for Seeded Areas (warranty period between Initial & Final Acceptance): Mowing, weed control, reseeding etc. per spec; add litter removal per spec from MC ponds i.e. visiting the site once/month Nov thru March and twice/month April thru October.

Landscape Maintenance until Initial Acceptance

- Litter removal
- Insure plant material health, water delivery system properly installed and working, etc..
- City criteria for Initial Acceptance: Provide As-built Landscape and Irrigation Plan showing changes made in the field; Plant Material Health: Deciduous Trees: The central leader is not dead; no more than 10-15% of the tree is dead and the dead is not in the top ¼ of the canopy. Deciduous Shrub clumps: No more than 10-15% of the plant is dead. Dead is pruned out. Planting Beds: Mulch is at appropriate depth and covers fabric. No standing water. Edging is secure and level.

Landscape Maintenance until Final Acceptance

- Insure plant material health, water delivery system in good working order, etc..
- City criteria for Final Acceptance: Plant Material Health: Deciduous Trees: The central leader is not dead; no more than 10-15% of the tree is dead and the dead is not in the top ¼ of the canopy. Deciduous Shrub clumps: No more than 10-15% of the plant is dead. Dead is pruned out. Planting Beds: Mulch is at appropriate depth and covers fabric. No standing water. Edging is secure and level.

8. Section 2.08 says that erosion control blanket is on all slopes greater than 4:1. The **ONLY** place I see that it will be needed is on the upstream dam slope, from the crest to the boulders. Is this correct?

Response: The upstream slope of the dam, the slope below the sidewalk on the south side of the Site, and where the dam connects with the abutments are all steeper than 4H:1V. The remainder of the slopes that will be seeded are not to be steeper than 4H:1V.

9. The specs say that we need to design build the landscape irrigation system. Could you please elaborate on this (i.e., are we only setting up a system for the plantings, or the seeded areas as well? Where is the tie in point for the water?).

Response: No irrigation for seed areas. Each tree or B&B shrub (tagged at the nursery by COT) receives a netafim irrigation ring (the netafim rings must be manufactured from the detail). There are forty-two (42) trees / shrub clumps. The existing drip line is directly north of the sidewalk but I cannot guarantee that it is operable; new line may have to be installed from the controller. Original irrigation plan showing tap, controller, etc. is attached. Irrigation for the forty-two (42) plants can come off the existing line (if in good order) heading directly north to each plant or a parallel line can be installed from the controller, along the gravel fines path, with the netafim rings coming off the parallel line, whichever option is cheaper. Sleeve under all concrete and the gravel fines trail and follow the City Standards & Specifications Section 800 for irrigation installation. COT will check to see all wire baskets removed and that all plant material is watered in by hand before irrigation system turn on.

10. Do the new light standard foundations need to be concrete or can they be screw in foundations?

Response: They must be concrete.

11. Could you please provide a detail for the foundation of the 6" vent pipe shown on sheet 16?

Response: No. The pipe is supported on compacted embankment fill and covered by riprap and riprap bedding.

12. Is the embankment for the overex (i.e. 4' under spillway) under the structures included in the embankment item or is this included in the bid item for all other items of work?

Response: The volume of Bid Item No. 1 "Embankment Fill" is based on the neat lines and grades shown on the drawings and includes the zone below the spillway.

13. If the add alternate Lake Bottom Fill is used, where does this fill material come from? Onsite, or the offsite borrow?

Response: Both are acceptable. Refer to Specification Section 02317: FILL AND BACKFILL, 2.7.

Questions by Pipestone Industrial

With respect to Gate Specification Section 11290:

1. Subsections 1.4.A.2.b.iv and 2.2.A.8 require solar panels for battery charging. These panels do not exist on the previously supplied systems. Are solar panels required for this Project or can they be eliminated from the scope?

Response: Solar panels are not required. Hydraulic and manual systems are the required operational modes. This clarification is in Addendum No. 2.

2. Subsection 2.3.A requires one complete spare hydraulic system be provided. There are two questions on this requirement:
 - a. Should this spare system be pre-assembled as a unit but shipped loose for storage until needed in the field or should it be installed with the primary system on the main skid for permanent installation at the jobsite?

Response: Provide a spare pre-assembled system for storage that can be installed if the primary and manual systems were to fail. This clarification is in Addendum No. 2.

3. If the spare system is shipped loose, the possibility exists that it could be used as a spare for the system that we provided on the Margaret Carpenter Dam Project (both gates are 24" x 24") and therefore be a backup for two field units and not just one. Is the spare hydraulic system proposed in bids for the Lambertson Lakes Project required to be suitable for use on the 24" gate supplied for Margaret Carpenter Dam?

Response: The system can match the system installed at the Margaret Carpenter Recreational Center Dam, but is not a requirement of this Project.

Table BP
Lambertson Lakes No. 3 Dam Rehabilitation Project
Bid Schedule

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total Cost
1	Embankment Fill from On-Site Borrow Area	11,600	CY		
2	Embankment Fill from City-Provided Off-Site Borrow Area	1,000	CY		
3	Additional Excavation	1,500	CY		
4	Filter Sand	1,250	CY		
5	Riprap Bedding	670	CY		
6	Riprap - Type VL	45	CY		
7	Riprap - Type L	600	CY		
8	Riprap for Upstream Slope Protection - Type L with Filter Sand	500	CY		
9	Geotextile	320	SY		
10	New Sewer Installation	240	LF		
11	Manhole (New)	3	EA		
12	Retaining Wall	85	SF		
13	Sheet Pile	785	SF		
14	Topsoil	2,730	CY		
15	Seeding	4	AC		
16	Concrete Sidewalk	10,050	SF		
17	Landscaping	1	LS		
	Subtotal of Unit Price Items				
18	All Other Items of Work	1	LS		
	Total Base Bid				
	Add Alternate Items				
19	Lake Bottom Fill	2,000	CY		
	Construction Total				

PRE-PROPOSAL / PRE-BID CONFERENCE SIGN-IN SHEET

DATE: September 23, 2008 TITLE: Lambertson Lakes No. 3 JJ

PROJECT NO.: 04-455 TIME: 2:00 p.m. ROOM: 1st Fl. Training Room

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1 Amercon West Coni 580 Tunnyson st #6 Dunwoody Ga 30128	Jeff Reckard	jreckard@amerconwest.com	3-455-0838	3-455-8184
2 TARCco Inc 4781 N 58 Ave Arroyo CO 90202	Louise Branhouse	branhouse@tarcoc-inc.com	429-2221	429-0051
3 North Capital 37673 E 160th Ave Kennewick WA 98543	Tracy Suberson	tracy@northcapital.com	360-657-9233	360-657-9470
4 HODRICK EXCAVATING 700 N. BANK ST. CASTROCK, CO 80109	ROB WARREN	ROB@HODRICKEXCAVATING.COM	303-688-9500 x 202	303-688-5254
5 KIPCO 5350 KILMER ST GOLDEN CO 80403	MIKE MANKEBUIS CHRIS BRANNON CHRIS LEONE	MANKEBUIS@KIPCO.COM	303-598-8475	303-278-1597
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7 ASLAN Construction 6705 Eisenhower Blvd Loveland CO 80537	MICHAEL McPhay	M.P.McP@ASLANConstruction.com	970 593 9669	970 593 6996
8 MIKE STEWART 5323 WILSON AVE ARROYO CO 90202	MIKE STEWART	MIKE@MIKE-USA.COM	303-431-3701	303-431-3705
9 WVC COMPANY 7902 Irvanhoe st. Commerce City, CO 80022	Kelly Davis	Kelly@WVCCompany.com	303-287-3322	303-287-3324
10 STANER CONSTRUCTORS 101 CORPORATE CIR #200 GOLDEN, CO. 80401	DON STANER	DSTANER@STANERCONSTRUCTORS.COM	303-98-8233	303-279-4489
11 BEFALO CONSTRUCTION P.O. BOX 820 LAMBERTSON LAKES 20002	TRENT CASEY	trenc@befalocorp.com	303.651.1100	303.651.1171

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13 American Civil Constructors, Inc. 4901 S. WINDYMEAD LITTLETON, CO 80120	Bruce Hammers	bhammers@accbuild.com	303-730-4526	303-347-1844
14 Velocity Constructors Inc 1954 W. GIRON DR LITTLETON, CO 80127	Nicky Schulmeister Bob Reinbold	nrogstad@velocityci.com	303 984 7800	303 984 7802
15 Recycled Materials Co 6425 W. 52 Ave ARVING, CO. 80002	MARK WACHAL	MARKWACHAL@RMSI-USA.COM	303) 421-3701	303) 421-3705
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17 GIRON CORPORATION 7221 E HWY 34 LOVELAND, CO 80537	JERRY GIRONAHAN	gerry@gironcorp.com	(970) 661-2205	(970) 667-3621
18 ZAK DIRT, INC 14240 HINING RD LONGMONT, CO 80504	DAN SURZUCH	DSEURZ@E-ZAKDIRT.COM	(970) 535-4657	(970) 535-4561
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20 COT. Joe DeRuzza			720 977 6268.	
21 Hogan Action Sullivan Calabrese 9051 Wadsworth BLVD SUITE 4100 WINDSOR	Sullivan Calabrese	SullivanCalabrese@hoganaction.com	303-421-3478	303-421-3488
22 Concrete Structure Inc 4375 Hilltop Rd, Loveland CO. 80504	Brian Schell	Brian_Schell@csico.usa.com	970-535-0202	970-535-4382
23 TAYLOR KOWS LLC 9351 GREAT ST, STE 500 DENVER CO 80229	RAYMOND BLUM	raybl@taylorkows.com	303-419-7378	303/ 970-1801
24 MELTZER EXCAVATIONS 9105 ALTON CT HENDERSON, CO 80648	ROSS AUSTENART	ROSS.AUSTENART@MELTZEREXCAVATIONS.COM	303-394-1300	303-394-1801
25 MLL Inc. 603 Park Point Dr. Suite 201 Golden CO 80401	Mike Long	MILONG@MILLINC.COM	303-425-5889	303 425-1191

Co Name	Contact Name	Email	Phone	Fax
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