

## **SPECIAL CONDITIONS**

### **2005 Water Replacement Project 100 East, 400 North to 900 North**

#### **1. Definitions.**

**1.01. City.** The city of Spanish Fork.

**1.02. Contractors.** The Contractors shall be the companies, with appropriate state licenses, contracted with by Spanish Fork City by the competitive bid process to construct this project.

**1.03. Sub-Contractors.** A person or company hired by the Contractor to perform construction for the City, having appropriate state licenses to perform said work.

**1.04. City Standards.** For this contract, City Standards shall be the November 2004 draft version of the City standards available at the engineering office.

**2. Pressure Pipe Main (Item 1).** This item shall include the pipe, fittings, appurtenances, excavation and all labor, equipment, and material required to abandon existing mains and place and test the proposed mains according to the plans, detail drawings and City standards. This item shall also include all labor equipment and material required to place the bedding, engineered fill, untreated base course and pavement according to the plans, detail drawings and City standards.

**2.01. Excavation.** This item includes the removal and disposal of all existing material required to cut pavement and excavate trenches. This item shall include pot holing and locating existing structures and bluestaked utilities ahead of construction. All pipe shall have a minimum of 6 inches of separation from structures or utilities. Contractor shall be responsible to plan grade to provide this separation before laying pipe.

No change orders or payment will be made for mains that must be looped because the Contractor failed to properly locate and account for existing structures and utilities which are either visible or bluestaked. Contractor must schedule the City to mark the final alignment of the mains 2 business days before excavating.

**2.02. Appurtenances.** This item shall also include mechanical restraints and locator tape as specified in the City standards. Only mechanical restraining shall be allowed. The actual sizes and type of existing pipe must be verified in the field by the contractor.

**2.03. Inspections.** All trenches, fittings and restraints must be inspected by the City before backfilled. See the Inspection and Testing special condition.

**2.04. Payment.** Payment shall be made for each lineal foot of main placed.

**3. Trench through Old Concrete Road Section (Item 2).** Our experience is that we quite often find a 12 to 20 inch thick section of concrete down the middle of old state roads. 800 North may have this concrete under the road section.

This item shall include all labor, equipment and material required to cut and remove the concrete found in the road section. This item will be used as needed if or when concrete is found in the roads. This item may only be billed for if authorization is given by the City in writing before trenching.

**3.01. Payment.** Payment shall be made for each lineal foot of trench through concrete as described above.

**4. Water Main Valves (Item 3).** This item shall include the valve, valve box, sleeve and all labor, equipment, and material required to place valve according to the plans and City standards.

**4.01. Concrete Collars.** Concrete collars shall not be installed as part of this project.

**4.02. Inspections.** All valves must be inspected by the City before backfilled.

**4.03. Payment.** Payment shall be made for each valve placed.

**5. Abandon Existing Valve (Item 4).** This item shall include all labor, equipment and material required to remove and dispose of existing valve box to a minimum of 12 inches below the surface. The rest of the valve box shall then be filled in with sand or pea gravel.

**5.01. In Excavated Areas.** If the existing valve box is in an excavated area the entire valve box shall be removed.

**5.02. Outside Excavated Areas.** If in a paved section the excavation area shall either be saw cut or jack hammered and restored according to the City standards. All costs to restore surface improvements shall be included in this item.

**5.03. Payment.** Payment shall be made for each valve abandoned.

**6. Fire Hydrant (Item 5).** This item shall include the hydrant, 6 inch foot valve, tee on the main line and all labor, equipment, and material required to place them according to the plans, detail drawings and City standards.

**6.01. Mechanical Restraints.** Only mechanical type restraints shall be allowed on this project.

**6.02. Inspections.** Hydrants, valves and pipe must be inspected by the City before backfilled.

**6.03. Payment.** Payment shall be made for each hydrant placed.

**7. Saddle and Corporation Stops (Items 6 and 7).** These items shall include the saddle and corporation stop and all labor, equipment and material required to install them according to City standards.

**7.01. Payment.** Payment shall be made for each saddle and corporation stop assembly placed.

**8. Water Meters (Items 8 through 11).** These items shall include all the materials shown in the detail drawings for each water service excluding the meters, and all labor, equipment, and material required to place them and the meters according to the plans, detail drawings and City standards. This item shall not include the 1 inch lateral to the main or saddle or corporation stop. These shall be paid for in other line items.

**8.01. Existing Meters.** These items shall also include the removal of existing meters and meter boxes. Services may not be switched over to the new meters until new water mains have passed all inspections and are ready to provide service. See the Restoration of Surface Improvements special condition.

**8.02. ¾" and 1" Water Meters with Traffic Rated Box (Items 10 and 11).** These items shall include a standard water service with a 20 inch concrete meter box and a D&L Supply B-5020 meter cover or approved equivalent.

All of these meters are set in concrete. These items shall include all labor equipment and material required to replace concrete around the meter. Concrete shall be replaced from curb to sidewalk a minimum of 18 inches along the curb from either side of the meter box. Concrete shall be placed according to City standards.

Installation of the meter with traffic rated box shall include placing a hole in the top of the service box and attaching the touch read device to the top of the box according to manufacturer's specifications. Touch reads shall already be wired to the meter when delivered to the contractor. Touch reads are type TR PL PAD.

**8.03. Connecting to Service Line.** These items include connecting from the proposed meter to the existing service line. Size of connection from the meter to existing service lateral shall match that found in the field.

**8.04. Meters.** These items shall include the installation of the meter for each service. Meters shall be provided by the City.

**8.05. Inspections.** Meter boxes must be inspected by Spanish Fork City before backfilled.

**8.06. Payment.** Payment shall be made for each meter placed.

**9. 1 inch Water Service Line (Item 12).** This item shall include all the materials shown in the detail drawings for each connection to the corporation stop and all labor, equipment and material required to place the 1 inch service line according to the plans, detail drawings and City standards.

**9.01. Trenching.** Open trenching will not be allowed for placing service lines. If soil conditions prevent conventional methods for sub-surface installation of service laterals then contractor shall with approval of the City open trench the service line at the same cost of the sub-surface installations. The contractor shall be responsible to obtain the conditions of the existing soils in the project area before bidding.

**9.02. Inspections.** Service lines must be inspected by City before backfilled.

**9.03. Payment.** Payment shall be made for each lineal foot of 1 inch service line placed.

**10. Restoration of Surface Improvements.** All surface improvements disrupted as a course of construction shall be restored to the original type of surface condition. This includes landscaping, pavement sections, gravel shoulders and concrete. All restoration work shall be done according to the City standards.

**10.01. Existing Conditions.** The Contractor shall be responsible to visually inspect all existing surface improvements and include the restoration of these improvements in each individual line item which would disrupt the improvements in the course of construction.

**10.02. Landscaping.** All landscaping shall be restored to the original type of landscaping with new material. Sod shall be used to restore grass areas.

**10.03. Pavement Sections.** Saw-cutting or milling pavement and all other requirements of the City standards shall be included in the cost of the individual items. Three inches of bituminous surface course shall be placed back in paved areas. Trenches shall be paved back at the end of each week.

**10.04. Gravel Shoulders.** Gravel shoulders shall be restored with a minimum of 8 inches of untreated base course compacted to the City standards.

**10.05. Concrete.** All concrete shall be restored to match existing concrete. All forms must be inspected by Spanish Fork City before concrete may be poured.

**10.06. Payment.** There will be no payment for the restoration of surface improvements. The cost for the restoration of surface improvements shall be included in the cost for each individual item causing the disruption of the surface improvements. The Contractor shall be responsible to visually inspect all existing surface improvements that will need to be restored during construction before bidding and include the cost of their restoration in their bids.

**11. Construction Schedule and Traffic Control.** A construction schedule and traffic control plan for the construction shall be submitted to and approved by the City and UDOT. All traffic control shall meet the requirements of the MUTCD.

**11.01. Road Closures.** Road closures will be allowed only during working hours. Streets must remain passable at all times, with an all weather surface. As this is an occupied area, the access to the homes and businesses must be a primary concern. Proper signage, consistent with the MUTCD, will be required throughout the project. One business day notice will be required for all road closures. Those who should be notified are 1) Spanish Fork Police, Fire, and Ambulance; 2) Spanish Fork City; and 3) affected residents and businesses.

**11.02. House and Business Access.** Access shall be maintained to all homes and businesses during construction. Access plans shall be coordinated with the home owners and the City. Closures to home accesses for trenches or paving may be in place for no longer than two and a half hours. The City and affected home owners shall be notified of such closures 24 hours in advance. At no time may accesses to businesses be closed.

**11.03. Payment.** There will be no payment for the construction schedule and traffic control. The cost for scheduling the construction and conducting traffic control shall be included in the cost for each individual item.

**12. Plans.** Plans represent the Cities' best estimation of the existence and location of current utilities. The final location of each item shall be marked in the field by bluestake prior to cutting the pavement to install any item. Contractor shall be responsible to locate before laying pipe all existing utilities bluestaked whether shown on the plans or not. A set of plans, specifications, and detail drawings must be on site with each contractor crew or sub-contractor crew when any work is being done on the project.

**13. Survey.**

**13.01 Notice.** Contractor must give 2 business days notice when surveys are needed.

**13.02 Protection of Survey.** Contractor is responsible for the protection of any survey on the project. Survey which is interfered with will be replaced by Spanish Fork City at an expense to the contractor of \$50.00 (fifty dollars) a hub or rebar.

**14. Payment.** Payments will be made on the 10th of each month for the work done in the previous month. The contractor must follow-up to ensure that everything is being done properly to receive payment.

**14.01. Submittals.** On the 20th of each month, the contractor must ensure a pay request form is received from Spanish Fork City. This form will show how much of each item the city has paid for to date. The contractor will then fill out the amount of work done since the last pay request.

**14.02. Immediate Action Requests.** The City will issue immediate action requests to the Contractor during the course of the project. Requests that originated with citizen complaints or deficiencies in construction shall be completed before payments may be released.

**14.03. Pay Requests Due.** The completed pay request will be due into the engineering office of Spanish Fork City by the 25th of each month. Spanish Fork City will then check the pay request and edit it to what reasonably has been done.

**14.04. Retainage.** There will not be any retainage held on payments. However, once 85% of the work on a project is completed only one more pay request will be processed for that project. This last pay request will be processed upon completion of the final inspection check list.

**14.05. Final Inspection.** When the contractor feels a project is completed, an appointment for a final inspection will be requested by the contractor with the engineering secretary (801) 798-5000 extension 22. At this final inspection, a punch list will be made and a copy given to the contractor. The contractor must finish the punch list by the given completion date of the project or liquidated damages will be charged.

When the punch list is finished the contractor shall set an appointment with the Public Works Inspector through the engineering secretary. The inspector will then measure up every item with the contractor and a final pay request will be filled out and signed by both the contractor and Spanish Fork. The contractor will then be evaluated and the retainage for the project released.

**15. Inspection and Testing.** All work must meet requirements set forth in the plans, detail drawings and Spanish Fork City development standards. Inspections of items before they are buried will also include the City GPS crew surveying the exact location of utility.

**15.01. Density Testing.** Spanish Fork City will contract with a certified lab or engineering firm to test for compaction of all road base, sub-base, trench backfill and asphalt installed. Density tests will be taken on the road-base under every 50 feet on sidewalk, curb and gutter, and curb wall and every 100 feet in trenches and in the road. At least one test must be done on each separate area of compacted material. No pipe or concrete work shall be paid for until certification of compaction of the base and backfill material under or around these items is obtained. No pipe shall be paid for until all required tests on the pipe are passed.

**15.02. Concrete Testing.** Spanish Fork City will contract with a certified lab or engineering firm to test concrete. Certification of slump, air entrainment and cylinder strength shall be obtained for every 50 cubic yards of concrete placed or each separate pour. No concrete work shall be paid for until these certifications are submitted to Spanish Fork City.

**15.03. Notification.** Contractor must call the City or testing lab for required inspections and tests 1 business day before test is ready to be done.

**16. Change Orders.** Work on all change orders shall not commence until a signed change order form is in place unless an emergency occurs endangering people's lives. If extra work is done without a change order in place then the work will not extend the contractor's completion deadline and payment amounts, if any, will be determined by Spanish Fork City.

Change orders will not be required for minor line item changes made by Spanish Fork City and the contractor in the field. A minor line item change is a change of less than 5% of the quantity of any line item or a change that will increase the cost of the project by less than 200 dollars.

**17. Line Items.** Spanish Fork reserves the right to eliminate any or all items from the scope of this project. This will be done with a change order set in place before the work on the item is commenced by the contractor.

**18. Work Hours.** Working hours shall be Monday through Thursday 7 AM to 7 PM in residential areas unless otherwise specified. Spanish Fork City must be notified two business days before working on a holiday, Friday or weekend or weekday before 7 AM or after 7 PM.

**18.02. Traffic Control Plan.** A construction schedule and traffic control plan for the construction shall be submitted to and approved by the City, and by UDOT on State roads. Highway 6 is the only current state roads in this project.

**18.03. Traffic Control.** All traffic control shall meet the requirements of the Utah Chapter of the APWA Traffic Control Manual and the MUTCD. Reasonable

access shall be maintained to all businesses during their business hours. Homes shall always have access to their driveways overnight.

**18.04. Payment.** There will be no payment for the construction schedule and traffic control. The cost for scheduling the construction and conducting traffic control shall be included in the cost for each individual item.

**19. Work Zone.** The work zone will be kept in an orderly manner and cleaned daily. The work zone will be watered and or swept as needed to control dust.

**20. Pre-Construction Meeting.** A pre-construction meeting will be held with the contractor and all sub-contractors and the City prior to commencement of work on this project. At this meeting a time will be set for a weekly progress meeting which will be held to discuss the progress of the project. Contractor will make an appointment with the engineering secretary for this meeting.

**21. Standards.** All materials shall be installed to manufacturer specifications and the City standards unless otherwise specified in the plans, detail drawings and specifications. Any item not discussed in this document will be determined by the City standards or the City Engineer.

**22. Water Shut-offs.** Contractor will notify in writing the City and all affected residents and business' about water shut-offs 2 business days prior to shut-off and designate time of shut-off and duration. Shutoffs may not exceed 6 hours in length or be between the hours of 5 pm and 10 pm or 6 am and 9 am unless otherwise specified.

**23. Pre-Construction Video.** At the pre-construction meeting contractor will submit a video of the existing condition of the project site area. This video will be used to resolve disputes over damaged property. Any disputed damage not shown on this video that the City determines could be the fault of the Contractor shall be repaired at the Contractor's expense. Video shall have shots of concrete and landscaping in the project area at a close enough range to show cracks and existing damage.

**24. Contractor Qualifications and Experience.** Bids will only be awarded to the lowest responsible bidder as specified in the Utah State Code. The contractor's qualifications and experience forms included in this bid book shall be completely filled out and submitted with bid. Failure to do so is basis to reject the bid. Spanish Fork City reserves the right to determine a non-responsible bidder based upon these forms or any other research conducted by the city.

**25. Pre-Bid Meeting.** A pre-bid meeting will be scheduled for Tuesday July 5, 2005 at 3:00 PM MDT at the City offices.