## OPINION OF PROBABLE COST

**Client:** Richmond City  
**Project:** 11000 North Road Design  
**Project No.:** 57-19-001  
**Date:** August 13, 2019

### 11000 North

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Unit</th>
<th>Estimated Quantity</th>
<th>Unit Price</th>
<th>Total</th>
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**Construction Subtotal** $631,472.00  
**Construction Contingency** 10% $63,147.20  
**Construction Total** $694,619.20  
**Preliminary Engineering** $40,000.00  
**Construction Engineering** $30,000.00  
**Right-of-Way** Lump Sum $-  
**Project Total** $764,619.20
MEMORANDUM

DATE: August 13, 2019
TO: Cache County Council of Governments
CC: 
FROM: Samuel Powell, PE, J-U-B Engineers, Inc.
SUBJECT: CCCOG Funding Application for 11000 North (500 North) Roadway

Thank you for accepting this application and for your consideration in funding the 11000 North (500 North) Roadway for Cache County and Richmond City.

As a licensed professional engineer, I certify that the engineering design, plans, specifications, and estimate submitted meet industry standard and professional standard of care for a 90% completion milestone.

Regards,

Samuel Powell, PE
Project Engineer
August 13, 2019

Dear CCOG:

This letter is to express Richmond City’s support of the 500 North Project. 500 North is on a steep hill side. The road is narrow and experiences a great deal of vehicular traffic. The steepness of the road creates drainage issues and causes runoff water to washout the shoulder of the roadway. This creates deep ruts down both sides of the road and forces traffic into the middle of the road. This road is also the main corridor for traffic traveling to Cherry Peak Resort. As the City has seen more and more homes built on the North side of town, the City is very concerned about the safety of the public.

500 North has been a source of many concerns and conversations from both the public and the City leaders. It is a great opportunity for Richmond City and Cache County to work together on a shared road to benefit both City and County residents.

Thanks for your consideration.

Regards,

Jeremy Kimpton
City Administrator
SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR

CACHE COUNTY CORPORATION

11000 NORTH (500 NORTH) ROADWAY

AUGUST 2019

90% REVIEW SET

J-U-B Project Number: 57-19-001-001-010

J-U-B ENGINEERS, INC.

OTHER J-U-B COMPANIES
### Table of Contents

**CACHE COUNTY, UTAH**

**11000 NORTH (500 NORTH) ROADWAY**

<table>
<thead>
<tr>
<th>Reference Number</th>
<th>Title</th>
<th>No. of Pages</th>
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<tr>
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<td>Advertisement for Bids</td>
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<td>Instructions to Bidders</td>
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<td>Qualifications Statement</td>
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<td>00 73 00</td>
<td>Supplementary Conditions</td>
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</table>

**Bidding and Contract Documents not included with 90% design package**
TECHNICAL SPECIFICATIONS

STANDARD SPECIFICATIONS

SUPPLEMENTAL SPECIFICATIONS
DIVISION 01 - GENERAL REQUIREMENTS

- 01 11 00 Summary of Work ................................................................. 3
- 01 20 00 Measurement and Payment ...................................................... 10
- 01 29 00 Payment Procedures .............................................................. 1
- 01 53 10 Pothole Utility ........................................................................ 2

DIVISION 31 - EARTHWORK

- 31 05 13 Common Fill ............................................................................. 1

DIVISION 32 - EXTERIOR IMPROVEMENTS

- 32 16 13 Driveway, Sidewalk, Curb, Gutter ........................................... 1

DIVISION 33 - UTILITIES

- 33 41 00 Drainage Systems ................................................................. 1

DRAWINGS

STANDARD DRAWINGS

CONSTRUCTION PLANS
Cache County/Richmond City – 11000 North Roadway Plans prepared by J-U-B Engineers, Inc.
SECTION 01 11 00
SUMMARY OF WORK

Add Section 01 11 00

PART 1   GENERAL

1.1   WORK COVERED BY CONTRACT DOCUMENTS

   A. The work to be performed consists of the following:
      1. The reconstruction of approximately 2,200 feet of roadway;
      2. The construction of rock lined channels and installation of storm drain pipe.

1.2   WORK BY OTHERS

   A. Delays caused by “Others” is not compensable with money or days unless agreed upon
      by the City and the Engineer.

   B. Utility companies may be replacing, upgrading, and relocating utility lines. This includes
      overhead and underground utilities.

1.3   APPROACH TO WORK:

   A. The work on this project must proceed in a systematic way with minimal inconvenience
      to the public. The Contractor will confine its operations to as small a length of work per
      crew as feasible. The following requirements will be strictly enforced:
      1. Construction activities are to remain within project limits and construction
         easements, or permitted areas.
      2. Additional staging areas will need to be secured by the Contractor, along with
         any necessary permitting for those areas.
      3. Excavation shall not be more than the length of pipe that can be installed in one
         day.
      4. All backfill and compaction shall be completed to the end of newly installed pipe
         by the end of each working day.
      5. Final clean-up, removal of equipment, barricades and similar items, and
         restoration of all surfaces to the final condition will have been completed
         concurrent with the completion of the trench surface restoration.
      6. Should construction be halted because of inclement weather conditions, the
         Contractor will completely clean up all areas and maintain all streets in good
         condition during the shut-down period. No excavation in paved streets will be
         allowed if weather conditions do not permit repaving of the pipeline trench
         within contract specifications.
      7. Access to private property shall not be interrupted for longer than 8 hours. The
         Contractor shall be responsible to see that the property owner is notified of the
         work schedule. A minimum of 48 hours prior notice shall be given to property
         owners before access is restricted.
8. The Contractor shall submit a Preliminary Schedule in accordance with 00 72 00 General Conditions, Paragraph 2.05.
9. The Contractor shall submit weekly a detailed two (2) week look ahead schedule of work.

1.4 STORM WATER POLLUTION PREVENTION PLAN:
   A. The Contractor will be required to prepare and submit a Storm Water Pollution Prevention plan. The Contractor will be fully responsible for compliance with the Storm Water Pollution Prevention Plan, including any damages, inspections, fines, liability and penalty or other action that results from noncompliance.

1.5 COMPACTION TESTING
   A. The OWNER will provide and pay for acceptance compaction testing to verify that compaction was done in accordance with the plans and specifications. The CONTRACTOR is responsible for determining the methods of his compaction process and provide documentation showing that they are adequate, in a timely manner.

1.6 SURVEYS
   A. The OWNER shall provide the necessary survey and construction staking for the construction project. The CONTRACTOR shall notify the ENGINEER a minimum of 5 business days prior to the needed construction staking.
   B. The CONTRACTOR will be charged for expenses related to placing construction stakes a second time if caused by CONTRACTOR’s neglect to protect staking.
   C. Re-staking of work that is not changed by Field Order or Change Order is done at CONTRACTOR’s expense.

1.7 LIMITATION OF OPERATIONS
   A. Minimize interference with traffic during performance of the work.
   B. Traffic Control
1. Flagging operations will be allowed.
2. Traffic closures must be approved by OWNER.
3. Traffic control plan will need to be submitted and reviewed.
4. Provide traffic control for pedestrians through areas with existing sidewalks.

C. Dewatering is incidental to construction.

D. Provide and maintain vehicular access to properties at all times.
   1. The only exceptions to this will be when work is occurring on a specific access. Provide written notification to resident property owners 48 hours prior to commencing work on their access.
   2. Limit driveway closures to seven (7) days.

PART 2  PRODUCTS  NOT USED

PART 3  EXECUTION  NOT USED

END OF SECTION
PART 1 GENERAL

1.1 SECTION INCLUDES

1. General Description of Measurement and Payment

1.2 GENERAL ITEMS

1. Units of measurement are listed in the bid schedule.

2. See measurement and payment procedures in APWA Section 01 29 00.

3. Engineer will take all measurements and compute all quantities.

4. Contractor will verify Engineer’s measurements and computations.

5. Contractor will provide all equipment, workers, and survey crews to assist Engineer in making measurements.

6. Frames and covers damaged by Contractor will be replaced at no additional cost to OWNER.

7. If Engineer determines an existing frame or cover needs to be replaced, a new frame or cover will be either provided by OWNER or Contractor. A frame and cover supplied by Contractor will be paid for by using prices agreed to in a Change Order.

1.3 SCHEDULE OF BID ITEMS

1. MOBILIZATION
   A. Measurement will be made for the job, complete. Payment will be as outlined below:
B. Payment covers cost of mobilization, installation of all temporary facilities and bringing all necessary construction equipment to the site. Upon completion of the Work any unpaid amount of the original contract for the separate item of mobilization and temporary facilities will be paid. Also includes: any and all temporary facilities including but is not limited to water, power, fencing (permanent or temporary), fence removal as required, solid waste disposal, sanitation facilities, and any other temporary facilities or utilities, etc., and any and all permits required, and all other items not covered in other bid items. Mobilization cost for subcontracted work shall be considered to be included in the contract lump sum price bid by the Contractor.

2. TRAFFIC CONTROL
A. Measurement shall be for the job, complete. Payment shall be as outlined below:

<table>
<thead>
<tr>
<th>Amount Paid</th>
<th>When Paid</th>
</tr>
</thead>
<tbody>
<tr>
<td>25% of bid item amount</td>
<td>With first estimate</td>
</tr>
<tr>
<td>Remaining portion of bid item paid as percentage of the contract completed</td>
<td>With each subsequent estimate</td>
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</tbody>
</table>

B. Bid price covers cost of creating a traffic control plan acceptable to Engineer, vehicular and pedestrian protection from work zone, and certified traffic control technician.

C. Materials shall conform to Section 01 55 26 and to the "Manual on Uniform Traffic Control Devices" (MUTCD).

3. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
A. Measurement shall be for the job, complete. Payment shall be as outlined below:
### PAY FACTORS FOR
### STORM WATER POLLUTION PREVENTION

<table>
<thead>
<tr>
<th>Amount Paid</th>
<th>When Paid</th>
</tr>
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<td>With each subsequent estimate</td>
</tr>
</tbody>
</table>

B. Payment covers all cost associated with preparation and implementation of storm water pollution prevention plan (SWPPP) acceptable to Owner’s Inspector throughout the project and obtaining the Utah Pollutant Discharge Elimination (UPDES) Storm Water General permit. This includes, but is not limited to, inlet barriers, check dams, silt fence, and fiber rolls.

C. Erosion control blankets and seeding will be paid for separately.

### SITE CLEARING

A. Measurement shall be for the job, complete.

B. Bid price covers cost for all labor, products, tools, equipment, transportation, services and incidentals; erection, application, vegetation, and tree removal (less than 20 inch circumference measured at a point 2 feet above the existing ground), miscellaneous items less than 10 feet square.

### POTHOLE UTILITY

A. Measurement will be made by each pothole location, multiple utilities in same hole will be paid for as one.

B. Bid price covers all labor, equipment and materials to locate and document utility lines, backfill with same materials surrounding the pothole, and compact. Bid price includes flowable fill when vac-truck is used to pothole.

### REMOVE SIDEWALK

A. Measurement will be made by square foot of sidewalk.

B. Bid price covers cost to remove and dispose of existing sidewalk as shown on the plans. No price adjustment will be made for thickness.

### REMOVE CONCRETE DRIVEWAY

A. Measurement will be made by square foot.

B. Bid price covers cost to remove and dispose of existing drive approach and concrete driveway behind sidewalk. No price adjustment will be made for thickness. Removal of sidewalk, and curb and gutter will be paid for separately.

### REMOVE ASPHALT DRIVEWAY

A. Measurement will be by square yard of asphalt driveway removed.

B. Bid price covers cost to remove and dispose of existing asphalt driveway as shown on the plans. No price adjustment will be made for thickness.

### REMOVE TREE

A. Measurement will be by each tree with a circumference of 20 inches or larger measured at a point 2 feet above existing ground. Verify size with Resident
Project Representative or Owner prior to removal.

B. Payment will include removal of stump, root, trunk, branches and foliage, backfill and compaction as required.

10. REMOVE PIPE CULVERT
A. Measurement will be by linear feet of pipe removed. No adjustment will be made for pipe size or material.
B. Bid price covers cost to remove and dispose of existing irrigation/drainage pipe regardless of size or type. Included in this item are all labor, equipment and materials required for the excavation, removal and backfill associated with removal of pipe culvert.

11. RELOCATE SIGN
A. Measurement will be made by each sign assembly relocated.
B. Bid price covers cost of work and material to relocate traffic sign. Cost includes all labor, foundations, bases, posts, disposal of unused material, and incidental items to relocate a sign. Adjustment will not be made for size of sign.

12. RELOCATE MAILBOX
A. Measurement will be made by each mailbox relocated.
B. Bid price covers cost of work and materials to relocate mailboxes to locations shown on the plans. Bid price includes removal and disposal of existing posts, concrete, or other foundation material, and cost for new post. Bid price covers cost associated with temporary relocations during construction. Replace damaged mailboxes at no cost to OWNER.
C. Includes construction maintenance and accessibility of the mailbox during construction.

13. ROADWAY EXCAVATION (PLAN QUANTITY)
A. Bid price is for plan quantity by the cubic yard. No adjustment to plan quantities if staked quantities differ by 5 percent or less.
B. Bid price covers cost to sawcut and remove existing asphalt and other material, compact sub-grade to line and grade, and to haul and dispose of excavated material from the work site to a location chosen by Contractor. Asphalt is to be sawcut to full depth. No additional payment will be made for sawcutting to provide a clean edge immediately before placing asphalt.
C. Excavated material that is clean and free of asphalt and/or other debris is to be used as embankment material as shown on the plans and as directed by the Engineer. Bid price covers cost to place and compact embankment material in areas identified in the plans or directed by Engineer.
D. Excavation done for Contractor's benefit or excavation error, dewatering of excavation, slough, or over excavation is incidental work.
E. Bid price for plan quantity as shown on the plans, measured by area of roadway multiplied by depth.

14. GRANULAR BORROW (PLAN QUANTITY)
A. Measured by the cubic yard plan quantity as shown on the plans, measured by area of roadway multiplied by depth as shown on plans. Payment will not be made for locations not directed by Engineer.
B. Measured and paid for under the pavement areas identified on plans including
under the curb and gutter.

15. UNTREATED BASE COURSE (PLAN QUANTITY)
   A. Measured by the cubic yard plan quantity as shown on the plans, measured by
      area of roadway multiplied by depth. Payment will not be made for locations
      not directed by Engineer.
   B. Measured and paid for under the pavement areas identified on plans. Not paid
      for if specified in other bid items such as, but not limited to:
      1) Curb and gutter
      2) Curbs
      3) Gutters
      4) Sidewalk ramps
      5) Sidewalks
      6) Driveway approaches
      7) Concrete Flatwork

16. DRIVEWAY, HMA – 3” THICK
   A. Measurement of HMA shall be per square yard, for depth shown in bid
      schedule.
   B. Bid price covers cost of work and material to place asphalt pavement. Included
      in cost are aggregates, asphalt binder, hydrated lime, tack coat, and other
      additives, etc.
   C. Untreated base course will be paid for separately.

17. HMA, 4” THICK
   A. Measurement of HMA shall be per square yard of HMA placed.
   B. Bid price covers cost of work and material to place asphalt pavement. Included
      in cost are aggregates, asphalt binder, hydrated lime, tack coat, and other
      additives, etc.
   C. Road Class: Class II Collector

18. CONCRETE SIDEWALK 5 Ft Wide
   A. Measured by square foot.
   B. Measurement of sidewalk through driveways will be paid for as part of
      driveway.
   C. Bid price covers cost of work and material in Hooper City Standard Drawing #3.
   D. Bid price covers cost of supplying, installing, and compacting untreated base
      course as leveling material and foundation material.

19. CONCRETE FLATWORK, 4 INCH THICK
   A. Measured by square foot for depth 4 inches thick for areas shown on plans.
   B. Bid price covers cost of work and material to place concrete flatwork. Included
      in cost are concrete, compaction, and other items incidental to placing concrete
      flatwork to lines and grades as shown on plans
   C. Bid price covers cost of supplying, installing, and compacting untreated base
      course as leveling material and foundation material

20. TRUNCATED DOME
   A. Measurement will be by the square foot.
   B. Bid price covers cost of work and material shown in APWA 2017 Standard Plans
No. 238.

21. **RELOCATE GATE (SINGLE)**
   A. Measured by each gate relocated.
   B. Bid price includes gate posts, concrete, and other incidental items.

22. **RELOCATE GATE (DOUBLE)**
   A. Measured by each gate relocated.
   B. Bid price includes gate posts, concrete, and other incidental items.
   C. Items.

23. **PAVEMENT MARKINGS – 4” PAINT**
   A. Bid price covers cost of labor, materials and other items associated with 4” pavement markings as shown on the plans.
   B. Measurement will be made by the linear feet as follows:
      1) Solid Line – 1 x length
      2) Dashed Line – 0.5 x length
      3) Solid Skip Line – 1.25 x length
      4) Double Line – 2 x length
      5) Broken Line – 0.25 x length
   C. Bid price includes one coat of paint.

24. **ADJUST MANHOLE**
   A. Measurement will be made by each.
   B. Bid price covers cost of work and materials shown in APWA Plan No. 574 to reset frame to grade, to construct concrete collar, to secure cover to frame to prevent rattle or pop-out, temporary lowering for purposes of construction and incidental work. Includes excavation, rebar loops, backfill and compaction.

25. **ADJUST METER BOX**
   A. Measurement will be made by each.
   B. Bid price covers cost to adjust existing water meter box to grade. No price adjustment will be made for depth.
   C. Bid price covers all labor, equipment, materials required, backfill and compaction.

26. **ADJUST VALVE BOX**
   A. Measurement will be made by each.
   B. Bid price covers cost of work and materials shown in APWA Plan No. 574 to reset frame to grade, to construct concrete collar, to secure cover to frame to prevent rattle or pop-out, temporary lowering for purposes of construction and incidental work. Includes excavation, rebar loops, backfill and compaction.

27. **ROCK WALL**
   A. Measurement shall be for the wall, complete.
   B. Bid price covers cost of work and material shown on Plan Sheets, including boulders, excavation, backfilling, and other incidentals related to construction of the wall.
   C. Bid price covers cost of supplying, installing, and compacting untreated base course as leveling material and foundation material.
28. **RAISE FIRE HYDRANT**
   A. Measurement will be made for each fire hydrant.
   B. Bid price covers cost of work, material, trench backfill, and surface restoration as shown in HWID standard details.
   C. Bid price covers cost of incidental work and material such as new fire hydrant, gate valve, valve box, traffic lid; miscellaneous tees, sleeves, gaskets, bolts, nuts, tracer wire terminal; approved joint restraining devices; dewatering; concrete thrust restraints; disinfection and commissioning pipeline; and adjustment of valve box lid to final grade including concrete collar.

29. **ROCK LINED CHANNEL – 4 FT WIDE**
   A. Measurement will be made by linear feet.
   B. Bid price covers cost of work and material to construct channel as shown on sheet C-401.

30. **ROCK LINED CHANNEL – 9 FT WIDE**
   A. Measurement will be made by linear feet.
   B. Bid price covers cost of work and material to construct channel as shown on sheet C-401.

31. **REMOVE STORM DRAIN BOX**
   A. Measurement will be by each storm drain box removed. No adjustments will be made for box size.
   B. Bid price covers cost to remove and dispose of existing storm drain box. This item includes cost for work and material required to plug all abandoned pipes connected to box with concrete or other approved method, and backfill.

32. **RELOCATE IRRIGATION TURNOUT**
   A. Measurement will be made by each turnout relocated.
   B. Bid price covers cost of work and materials to relocate irrigation turnout to location shown on the plans.
   C. Bid price includes pipe, fittings, connection to the existing irrigation system, removal and disposal of unused materials, excavation, grading, backfill and compaction.

33. **18 INCH STORM DRAIN PIPE**
   A. Measured per linear foot along center line of pipe with no deduction through manholes.
   B. Bid price covers cost of incidental work and material such as removing interfering structures and obstructions, pipe fittings, connections, connecting to existing structures, de-watering, subgrade stabilization, shoring and bracing, and any temporary roadway or sidewalk surfacing materials.
   C. Bid price covers cost of supplying, installing, and compacting bedding, foundation, and backfill material.

34. **12 INCH STORM DRAIN PIPE**
   A. Measured per linear foot along center line of pipe with no deduction through manholes.
   B. Bid price covers cost of incidental work and material such as removing interfering structures and obstructions, pipe fittings, connections, connecting to
existing structures, de-watering, subgrade stabilization, shoring and bracing, and any temporary roadway or sidewalk surfacing materials.

C. Bid price covers cost of supplying, installing, and compacting bedding, foundation, and backfill material.

35. CATCH BASIN 3 FT X 3 FT
   A. Measurement is by each with the measurement of box made by inside length and width. No adjustment will be made for depth.
   B. Bid price covers cost of work and material in constructing and installing
      1) Irrigation Cleanout Box - 3 Ft X 3 Ft: Plan Sheet C-503.
   C. Bid price covers cost of incidental work such as saw cutting; additional excavation outside the typical trench section due to the additional size of the structure, connection to existing or new pipe, adjustment of frame and cover to final grade, and placement of backfill.
   D. Bid price covers cost of supplying, installing, and compacting crushed aggregate base fill as leveling material and foundation material.

36. 18 INCH FLARED END SECTION
   A. Measurement made by each.
   B. Bid price covers cost of work and material to install flared end section and trash rack, including fittings, trash rack, end section and incidentals.
   C. Bid price covers costs associated with grading adjacent area to drain to end section. This includes excavation, grading and incidentals.

37. TOPSOIL
   A. Measurement will be by square foot of topsoil installed.
   B. Bid price is for the cost to furnish and install a 4 inch thick layer of topsoil in locations shown on the plans or as directed by ENGINEER, measured by square foot of placed area.
   C. Payment will not be made for locations not shown on plans or directed by ENGINEER.

PART 2 PRODUCTS
NOT USED

PART 3 EXECUTION
NOT USED

END OF SECTION
SECTION 01 29 00
PAYMENT PROCEDURES

This specification changes a portion of 2017 Utah APWA Standard Specification Section 01 29 00. All other provisions of the Section remain in full force and effect.

Add the following paragraphs to Article 1.5 MEASUREMENT:

1.5 MEASUREMENT

I. When the term “plan quantity” is indicated in the contract bid item designation:
   1. Contractor accepts the estimated quantity in the bid proposal as the final quantity for which payment will be made unless the ENGINEER revises the plan dimensions through an approved change order.
      a. The ENGINEER adjusts the final quantity for payment by the amount of increase or decrease to the estimated quantity in the bid proposal represented by authorized changes in dimensions.
   2. Contractor requests an adjustment to the final quantity for payment if an error is discovered in the estimated quantity in the bid proposal.
      a. Provide all computations, plots, and supporting documentation necessary for the ENGINEER to verify the error and determine the final quantity for payment. All work associated with providing computations, plots, and supporting documentation is at no cost to the Owner, except
         1) Work required to provide computations, plots, and supporting documentation may be paid for as extra work when the final quantity differs from the estimated quantity by more than 10 percent.
SECTION 01 53 10
POTHOLE UTILITY

Add Section 01 53 10

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Potholing will be used to verify location, elevation and type of existing buried utilities.

1.2 RELATED SECTIONS NOT USED

1.3 REFERENCES NOT USED

1.4 DEFINITIONS NOT USED

1.5 SUBMITTALS NOT USED

1.6 PROGRESS

A. Locate horizontal and vertical location of utilities identified on plan sheets or as directed by Engineer. Provide the horizontal and vertical information to the Engineer within two weeks of contract time starting. Failure to do so will result in the Contractor not being entitled to any adjustments to the Contract Price or Contract Time per Paragraph 5.04.D.2 of the General Conditions.

PART 2 PRODUCTS NOT USED

PART 3 EXECUTION

3.1 PREPARATION

A. Pothole locations of possible conflicts due to excavation, pipe or other utility installations, sign foundations and other construction as requested by the Contractor or as directed by the Engineer in writing.

B. Pothole after Blue Stakes has marked the existing utility lines.

C. Cooperate with the utility companies to protect their facilities.

D. Inform the Engineer 24 hours prior to any potholing. Pothole the utility in the presence of the Engineer, if requested.

E. Locate the existing utility lines in a manner to protect the existing lines and to minimize disturbance to the adjacent area.
3.2  RECORDS

A. Record coordinates of elevation and horizontal position, owner, material, size, number of ducts, casings and any other information relevant to identifying and establishing existing utility.

B. Provide written documentation to the Engineer within 24 hours of potholing. All coordinates are to be based on the project coordinate system.

3.3  RESPONSIBILITY OF DAMAGED UTILITY

A. The Contractor is solely responsible for any damage to utility facilities resulting from pothole operations. Furthermore, the Contractor shall not be compensated for any delays to the project schedule resulting from damages, repair time, materials or any other circumstances due to damages.

3.4  CLEAN-UP

A. Backfill potholed utility according to utility owner’s specifications when outside of roadway prism. If pothole is inside of roadway prism, then backfill according to city’s requirements.

B. Backfill any potholed utility to the same depths and materials of the surrounding pavement.
C. When a vac-truck is used to pothole, flowable fill is required for backfill material.

END OF SECTION
SECTION 31 05 13
COMMON FILL

This specification changes a portion of 2017 Utah APWA Standard Specification Section 31 05 13. All other provisions of the Section remain in full force and effect.

Delete Paragraph 2.1 and replace with the following:

2.1 BORROW

A. Classification A-1, A-2, or A-3 materials. Refer to ASTM D 3282.

B. Non-plastic, well-graded, 3-inch maximum.

Delete Paragraph 2.2.B and replace with the following:

2.2 GRANULAR BORROW

B. Materials:

Add the following to Part 2 PRODUCTS:

2.12 PIPE BEDDING MATERIAL

A. Storm Drain Pipe
   1. Use Granular Backfill Borrow.
This specification changes a portion of 2017 Utah APWA Standard Specification Section 32 16 13. All other provisions of the Section remain in full force and effect.

Add the following paragraphs to Article 1.7 Acceptance:

1.7  ACCEPTANCE

D.  Small Quantities
    1. A single batch of 4 cubic yards or less may be placed on the project per day. This quantity is accepted by visual inspection by the Engineer or Engineer’s representative.

END OF SECTION
SECTION 33 41 00
DRAINAGE SYSTEMS

This specification changes a portion of the 2017 Utah APWA Standard Specification Section 33 41 00. All other provisions of the Section remain in full force and effect.

Delete Paragraph 2.1.B and replace with the following:

2.1  PIPING AND FITTINGS

B.  Allowable storm drain pipe.
   1.  Reinforced concrete pipe, Section 33 05 02.
       a.  Class IV or higher pipe required.
   2.  10” or smaller pipe use Polyvinyl Chloride pipe (PVC), Section 33 05 07.
   3.  Pipe bedding and backfill per manufactures recommendations for fill depth. Minimum material requirements see Section 31 05 13 Common Fill.