



## OPINION OF PROBABLE COST

**Client:** Lewiston  
**Project:** SR-61; Industrial Park Turn Lanes, Lewiston  
**Project No.:** 57-18-003-002  
**Date:** August-19

### Lewiston SR-61 Widening, Left and Right Lanes

Item #	Description	Unit	Estimated Quantity	Unit Price	Total	
<b>General</b>					<b>Subtotal</b>	<b>\$ 50,000.00</b>
1	Mobilization	Lump Sum	1	\$ 25,000.00	\$ 25,000.00	
2	Traffic Control	Lump Sum	1	\$ 15,000.00	\$ 15,000.00	
3	Survey	Lump Sum	1	\$ 5,000.00	\$ 5,000.00	
4	Storm Water Pollution Prevention Plan (SWPPP)	Lump Sum	1	\$ 2,000.00	\$ 2,000.00	
5	Site Clearing	Lump Sum	1	\$ 3,000.00	\$ 3,000.00	
<b>Roadway</b>					<b>Subtotal</b>	<b>\$ 287,570.00</b>
6	Roadway Excavation (Plan Quantity)	Cubic Yard	3,510	\$ 12.00	\$ 42,120.00	
7	UDOT Granular Borrow (Plan Quantity)	Cubic Yard	2,140	\$ 35.00	\$ 74,900.00	
8	UDOT Untreated Base Course (Plan Quantity)	Cubic Yard	1,030	\$ 45.00	\$ 46,350.00	
9	UDOT HMA PG 64-34, 1/2 Inch Mix	Ton	1,380	\$ 90.00	\$ 124,200.00	
<b>Utilities</b>					<b>Subtotal</b>	<b>\$ 1,500.00</b>
10	UDOT 18 Inch Reinforced Concrete Pipe	Feet	10	\$ 150.00	\$ 1,500.00	
<b>Traffic and Safety</b>					<b>Subtotal</b>	<b>\$ 13,505.00</b>
11	UDOT Traffic Sign Type A-1	Square Feet	45	\$ 30.00	\$ 1,350.00	
12	UDOT Sign Post P3	Each	2	\$ 200.00	\$ 400.00	
13	UDOT Sign Post P4	Each	2	\$ 225.00	\$ 450.00	
14	UDOT Slipbase Sign Base (B3)	Each	4	\$ 300.00	\$ 1,200.00	
15	UDOT Pavement Marking Paint	Feet	14,324	\$ 0.50	\$ 7,162.00	
16	UDOT Pavement Message (Preformed Thermoplastic)	Each	5	\$ 300.00	\$ 1,500.00	
17	Remove Pavement Markings	Feet	962	\$ 1.50	\$ 1,443.00	
<b>Landscaping</b>					<b>Subtotal</b>	<b>\$ 43,590.00</b>
18	Topsoil - 4 Inch Thick	Square Feet	35,400	\$ 1.00	\$ 35,400.00	
19	Broadcast Seed	1000 Sq Feet	36	\$ 75.00	\$ 2,730.00	
20	Fiber Mulch	1000 Sq Feet	36	\$ 150.00	\$ 5,460.00	
<b>Construction Subtotal</b>					<b>\$ 396,165.00</b>	
<b>Construction Total</b>					<b>\$ 396,165.00</b>	
Construction Engineering		% Construction Total		6%	\$ 23,770.00	
Construction Contingency		% Construction Total		10%	\$ 39,620.00	
Relocate Power Poles (5 Poles)		Lump Sum	1	\$ 100,000.00	\$ 100,000.00	
<b>Project Total</b>					<b>\$ 560,000.00</b>	



**J-U-B ENGINEERS, INC.**

J-U-B COMPANIES



**THE  
LANGDON  
GROUP**



**GATEWAY  
MAPPING  
INC.**

## MEMORANDUM

DATE: August 13, 2019  
TO: Cache County Council of Governments  
CC: Kelly Field, Lewiston City Mayor  
FROM: Jonny Budge, PE, J-U-B Engineers, Inc.  
SUBJECT: CCCOG Funding Application for SR-61; Industrial Park Turn Lanes, Lewiston

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Thank you for accepting this application and for your consideration in funding this project for Lewiston 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,

Jonny Budge, PE  
Project Engineer

**SPECIFICATIONS AND CONTRACT DOCUMENTS**

**FOR**

**LEWISTON CITY CORPORATION**

**SR-61; INDUSTRIAL PARK TURN LANES**

**August 2019**

**90% SET**

J-U-B Project Number: 57-18-003-002



**J-U-B ENGINEERS, INC.**



**THE  
LANGDON  
GROUP**



**GATEWAY  
MAPPING  
INC.**

OTHER J-U-B COMPANIES

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SR-61; INDUSTRIAL PARK TURN LANES, LEWISTON**

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**TECHNICAL SPECIFICATIONS**

**STANDARD SPECIFICATIONS**

Manual of Standard Specifications, 2017 Edition, Utah Chapter of American Public Works Association  
(Not attached)

Utah Department of Transportation, 2017 Standard and Supplemental Specifications for Road and  
Bridge Construction (Not attached)

**SPECIAL PROVISIONS**

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## **DRAWINGS**

### **STANDARD DRAWINGS**

Manual of Standard Plans, 2017 Edition, Utah Chapter of American Public Works Association (Not attached)

Utah Department of Transportation, 2017 Standard and Supplemental Drawings for Road and Bridge Construction (Not attached)

### **CONSTRUCTION PLANS**

Lewiston City – SR-61; Industrial Park Turn Lanes Roadway Plans prepared by J-U-B Engineers, Inc.

## **SPECIAL PROVISION 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 construction and widening of approximately 1,450 feet of SR-61 in Lewiston to provide left and right turn lanes.
  
- B. The contractor will be responsible for Quality Control material testing. This will be considered incidental to the item being tested. Quality Control material testing will be as outlined in the 2017 APWA and project specific plans and specifications. The contractor is responsible for determining the methods of his compaction process and provide quality control documentation showing that they are adequate, in a timely manner.

#### **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:
  - 1. Overhead power lines on the north side of SR-61.

#### **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. The Contractor shall be responsible to see that property owners be notified of the work schedule.
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. Detail upcoming work and forecasts for utility work, access interruptions, etc.
10. The Contractor shall attend weekly meetings at an agreed to time and location.

#### **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 SURVEYS**

- A. The contractor shall provide the necessary survey and construction staking for the construction project. This includes survey for any utility relocations.
- B. Re-staking of work that is not changed by Field Order or Change Order is done at contractor's expense.

#### **1.6 LIMITATION OF OPERATIONS**

- A. Construction to begin no sooner than (to be determined).
- B. Minimize interference with vehicular and pedestrian traffic during performance of the work.
- C. Sunday and holiday work:
  1. Do not perform any work without written approval except for repairing or servicing equipment, protecting work, maintaining or curing concrete, and maintaining traffic on legal holidays
  2. During holidays maintain one lane of traffic in each direction for all roadways in project area.
- D. Working hours allowed between the hours of 7 AM through 9:30 PM.
- E. Night work:
  1. Night work may be allowed upon approval of the Engineer.
  2. Provide adequate lighting for performing satisfactory inspection and construction operations.
  3. Control noise and vibration in accordance with Section 01 57 00
- F. Traffic Control
  1. Traffic must be maintained in each direction at all times.

- 2. Traffic control plan will need to be submitted and reviewed.
- G. Dewatering is incidental to construction.
- H. Maintain a written log of property owner contacts, including name, phone number, and discussion.
- I. All asphalt paving to be complete no later than October 15, 2020.
- J. Substantial completion to be November 1, 2020.



**SPECIAL PROVISION  
MEASUREMENT AND PAYMENT**

Add Section 01 20 00

**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. Unit of Measure: Refer to the measurement and bid item that identifies the unit of measurement to be used for unit price items.

**1.3 SCHEDULE OF BID ITEMS**

- 1. MOBILIZATION
  - A. Measurement will be made for the job, complete. Payment will be as outlined below:

PAY FACTORS FOR MOBILIZATION AND TEMPORARY FACILITIES	
Percent of Original Contract Amount Earned Not Including Materials Purchased	Percent of Amount Bid for Mobilization to be Paid
5	40
15	20
40	30
50	10

- 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:

PAY FACTORS FOR TRAFFIC CONTROL	
Amount Paid	When Paid
25% of bid item amount	With first estimate
Remaining portion of bid item paid as percentage of the contract completed	With each subsequent estimate

- 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. SURVEY

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

PAY FACTORS FOR SURVEY	
Amount Paid	When Paid
25% of bid item amount	With first estimate
Remaining portion of bid item paid as percentage of the contract completed, with 10% held as noted below	With each subsequent estimate
Remaining 10% portion of bid item	With final pay estimate

- B. Bid price covers all labor, products, tools, equipment, transportation, services and incidentals associated with establishing and providing, by a Licensed Professional Land Surveyor, construction survey and staking, quantity verification, as-built survey including the preparation and delivery of record drawings, and support for utility providers as needed for maintenance, relocation, new installation, etc. as part of this project.
- C. The Owner retains 10 percent of bid item amount until the project is completed and the red-lined hard copy plan set showing as-constructed features denoting changes from the original design is provided to the Engineer and verified complete.

4. 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	
Amount Paid	When Paid
25% of bid item amount	With first estimate
Remaining portion of bid item paid as percentage of the contract completed	With each subsequent estimate

- 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.

5. 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.

6. 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 excavate material, including existing asphalt, to depths shown on the plans, compact sub-grade to line and grade, and to haul and dispose of excavated material from the work site to a location chosen by the Contractor.  
 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 the 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.

7. UDOT GRANULAR BORROW (PLAN QUANTITY)

- A. Measurement 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 the Engineer.  
 B. Meet the requirements of UDOT 2017 Standard and Supplemental Specification Section 02056.

8. UDOT UNTREATED BASE COURSE (PLAN QUANTITY)

- A. Measurement 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 the Engineer.
  - B. Measured and paid for under the pavement areas identified on plans.
  - C. Meet the requirements of UDOT 2017 Standard Specification Section 02721.
9. UDOT HMA PG 64-34, 1/2 INCH MIX
- A. Measurement of HMA shall be per ton of HMA placed for the depth shown on the plans and documented by weigh tickets.
  - 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. Meet the requirements of UDOT 2017 Standard Specification Section 02741.
10. UDOT 18 INCH REINFORCED CONCRETE PIPE
- A. Measured per linear foot along center line of pipe.
  - 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.
  - D. Meet the requirements of UDOT 2017 Standard and Supplemental Specification Section 02610.
11. UDOT TRAFFIC SIGN TYPE A-1
- A. Measurement will be made by the square feet.
  - B. Bid price covers cost of work and material to mount traffic signs to posts per UDOT 2017 Standard and Supplemental Drawings SN Series.
12. UDOT SIGN POST P3
- A. Measurement will be made for each post installed.
  - B. Bid price covers cost of work and material to install post and base per UDOT 2017 Standard and Supplemental Drawings SN Series.
13. UDOT SIGN POST P4
- A. Measurement will be made for each post installed.
  - B. Bid price covers cost of work and material to install post per UDOT 2017 Standard and Supplemental Drawings SN Series.
14. UDOT SLIPBASE SIGN BASE (B3)
- A. Measurement will be made for each sign base installed.
  - B. Bid price covers cost of work and material to install sign base per UDOT 2017 Standard and Supplemental Drawings SN Series.
15. UDOT PAVEMENT MARKING PAINT
- A. Bid price covers cost of labor, materials and other items associated with 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
  - 6) 8 Inch Solid Line – 2 x length
  - 7) 12 Inch Solid Line – 3 x length
- C. Bid price includes one coat of paint.
16. UDOT PAVEMENT MESSAGE (PREFORMED THERMOPLASTIC)
- A. Measurement will be made by each message installed.
  - B. Bid price covers cost of labor, materials and other items associated with thermoplastic pavement messages as shown on the plans.
  - C. Measurement will be made as follows:
    - 1) Letter = one message
    - 2) Arrow = one message
    - 3) Multi-headed arrow = one message per arrow
    - 4) School crossbars = one message per 24 inch x 10 ft bar
17. REMOVE PAVEMENT MARKINGS
- A. Measurement will be made by linear feet.
  - B. Bid price covers cost of labor, materials, equipment and other incidentals associated with removing the pavement markings. No price adjustment will be made for the width of the pavement markings.
18. TOPSOIL – 4 INCH THICK
- 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.
19. BROADCAST SEED
- A. Measurement will be by the 1000 square feet of seeding placed.
  - B. Bid price covers the cost of work and materials to spread seeding on the locations shown on the plans or directed by the Engineer.
20. WOOD FIBER MULCH
- A. Measurement will be by the 1000 square feet of wood fiber mulch placed.
  - B. Bid price covers the cost of work and materials to place the mulch over seeded areas.

## **SPECIAL PROVISION PAYMENT PROCEDURES**

This special provision 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.

## **SPECIAL PROVISION COORDINATION**

This special provision changes a portion of 2017 Utah APWA Standard Specification Section 01 31 13. All other provisions of the Section remain in full force and effect.

Replace Article 1.3 COORDINATING WITH PRIVATE AND PUBLIC AGENCIES with the following:

### **1.3 COORDINATING WITH PRIVATE AND PUBLIC AGENCIES**

- A. Notify private and public agencies affected by the proposed construction, coordinate required adjustments, and arrange for all necessary adjustments of utilities within or adjacent to the limits of construction. Utility companies generally require a minimum of 48 hours' notice if their utility requires location, relocation or protection. Contact the following individuals or companies to coordinate.

1. Rocky Mountain Power:	Jim Knight	435-563-2953
2. Dominion Energy:	Nick White	435-755-2205
3. Lewiston City Water:	Paul Swainston	435-770-4337
4. Lewiston City Sewer:	Paul Swainston	435-770-4337
5. CenturyLink:	Darren Keller	801-238-0414
  
- B. Obtain utility locations from the one-call center (Blue Stake) or other utility coordination service 2 to 7 working Days prior to any excavation. Locations must be updated every 14 Days.
  
- C. All utilities and utility appurtenances within the limits of the Work that are to be relocated or adjusted shall be moved by the affected utility company, unless specified otherwise.
  
- D. Known Utility Work:
  - 1. Rocky Mountain Power will be relocating their overhead lines on the north side of SR-61.
  
- E. Notify police, fire, and schools prior to beginning construction and one week prior to any roadway or lane closures.