

**MIDVALE CITY, UTAH  
RESOLUTION NO. 2018-R-19**

**A RESOLUTION AUTHORIZING THE MAYOR TO ENTER INTO AN AGREEMENT  
WITH HANSEN, ALLEN & LUCE FOR THE DESIGN AND CONSTRUCTION  
MANAGEMENT FOR THE JORDAN VALLEY WATER CONSERVANCY  
DISTRICT RETAIL AREA TAKE OVER PROJECT AND PRINCETON DRIVE  
PIPELINE REPLACEMENT**

**WHEREAS**, Midvale City has secured funds through bonding for projects related to the improvement of the City's water system; and

**WHEREAS**, the City wishes to continue to improve its water system by upgrading and replacing old and undersized water distribution lines; and

**WHEREAS**, the City, in agreement with the Jordan Valley Water Conservancy District, (JVWCD) desires to take over that portion of the City being served by the JVWCD retail water system; and

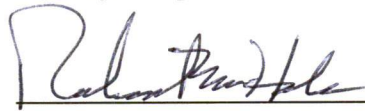
**WHEREAS**, the City's water consultant, Hansen, Allen & Luce (HAL), has been working with the City and JVWCD to determine those improvements that need to be made in for the City to take over the JVWCD retail area; and

**WHEREAS**, the City has requested HAL prepare a task order for the design and construction management of these projects; and

**WHEREAS**, this fee will be covered by those budgeted funds.


**NOW THEREFORE BE IT RESOLVED**, that based on the foregoing, the Midvale City Council adopts this resolution authorizing the Mayor to sign Task Order #141.28.200 with Hansen, Allen, & Luce, Inc. for the design and construction management services for the JVWCD Retail Area Take Over Project and Princeton Drive Pipeline Replacement.

**APPROVED AND ADOPTED** this 17<sup>th</sup> day of April 2018.



Robert M. Hale, Mayor

ATTEST:

  
Rori L. Andreason, MMC  
City Recorder

| Voting by the City Council | "Aye"                               | "Nay"                    |
|----------------------------|-------------------------------------|--------------------------|
| Bryant Brown               | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Paul Glover                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Quinn Sperry               | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Paul Hunt                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Dustin Gettel              | <input checked="" type="checkbox"/> | <input type="checkbox"/> |



**TASK ORDER NO. 141.28.200**  
**TO**  
**ENGINEERING SERVICES AGREEMENT**

CLIENT: MIDVALE CITY

Effective Date of Agreement: March 22, 2005

THIS TASK ORDER NO. 141.28.200 TO ENGINEERING SERVICES AGREEMENT (this "TASK ORDER") is made and entered into as of the 22nd day of March, 2018, by and between CLIENT and HANSEN, ALLEN & LUCE, INC., ("HAL"), who agree as follows:

1. PROJECT. The PROJECT associated with this TASK ORDER is described as follows: JVWCD Retail Area Takeover Project and Princeton Drive Pipeline Replacement.  
The PROJECT SITE is located as follows: 1) 900 East from Shelby View to 7440 South, 2) 900 East from 6740 South to Fair Meadows, 3) Sienna Park Lane to Wells Spring Road, 4) 7061 South 900 East, 5) Chapel Hills Drive from 10<sup>th</sup> East to Union Park, 6) Union Park Drive from Chapel Hills to South Union, 7) North of Wall Mart - connecting pipe from 6" pipe north of Walmart adjacent to Jama Juice shop to 6" pipe to the northeast near Park Center Dr., 8) Adjacent to Wall Mart and Fort Union from 10" pipe in front of Walmart to 6" pipe to the east, and 9) Princeton Drive from 415 West to Monroe (150 west). Project also includes miscellaneous other connections and disconnections from the JVWCD system to the Midvale System illustrated on attached Figure 2.
2. SCOPE OF SERVICES. The SCOPE OF SERVICES associated with this TASK ORDER is attached hereto as Exhibit T.O. 141.28.200-A.
3. FEES. CLIENT shall reimburse HAL for services provided under this AGREEMENT on an hourly billing rate plus reimbursable expenses basis, with an estimated not-to-exceed fee of \$208,340.00 in accordance with the HAL Standard Fee Schedule ("FEE SCHEDULE") attached hereto as Exhibit T.O. 141.28.200-B. CLIENT hereby agrees that all fees and charges set forth in the FEE SCHEDULE are acceptable to CLIENT, and CLIENT further agrees to pay all fees and charges to HAL in accordance with the ENGINEERING SERVICES AGREEMENT and FEE SCHEDULE.
4. SCHEDULE. Design SERVICES associated with this TASK ORDER are anticipated to be completed within 425 calendar days following written authorization from the CLIENT to HAL to proceed.
5. ATTACHMENTS AND EXHIBITS. All attachments and exhibits referenced in or attached to this TASK ORDER are incorporated herein and are made a part of the ENGINEERING SERVICES AGREEMENT.
6. CLIENT has read and understood all ATTACHMENTS and EXHIBITS and agrees that such items are hereby incorporated into and made a part of the ENGINEERING SERVICES AGREEMENT.

IN WITNESS WHEREOF, CLIENT and HAL have executed this TASK ORDER as of the date first above written.

CLIENT: MIDVALE CITY

HANSEN, ALLEN & LUCE, INC.

By: *[Signature]*

By: *[Signature]*

Its: *Margot*

Its: *President*

Attest: *[Signature]*

Attest: *[Signature]*

Its: *City Recorder*

Its: *Principal*



## **2018 PIPELINES REPLACEMENT BACKGROUND AND SCOPE OF WORK**

### **BACKGROUND**

The Midvale City water distribution network has three pressure zones. The lowest of the three zones serves the western portion of the City and is referred to as the West Midvale Zone in the City's 2010 Drinking Water Master Plan. The two upper zones are located within the eastern areas of Midvale and are referred to as the Union Area 1 and Union Area 2 pressure zones. Figure 1 shows a map of Midvale City east of I-15. In addition to the three Midvale pressure zones, the map also shows the areas of Midvale City which are within the Jordan Valley Water Conservancy District (JVWCD) retail service area and are thus served by JVWCD.

Midvale City would like to take over operation of those portions of the JVWCD retail service area within the Midvale City boundaries. Figure 2 shows the projects required to take over this retail area, including pipelines, connections to the Midvale Water System, and disconnections from the JVWCD system. Thus, the project includes the following pipelines: 1) 900 East from Shelby View to 7440 South, 2) 900 East from 6740 South to Fair Meadows, 3) Sienna Park Lane to Wells Spring Road, 4) 7061 South 900 East, 5) Chapel Hills Drive from 10th East to Union Park, 6) Union Park Drive from Chapel Hills to South Union, 7) North of Wall Mart - connecting pipe from 6" pipe north of Walmart adjacent to Jama Juice shop to 6" pipe to the northeast near Park Center Dr, and 8) Adjacent to Wall Mart and Fort Union from 10" pipe in front of Walmart to 6" pipe to the east. Project also includes miscellaneous other connections and disconnections from the JVWCD system to the Midvale System illustrated on attached Figure 2, and an additional pipeline within the West Midvale Pressure Zone on Princeton Drive from 415 West to Monroe (150 west)..

The City has requested that HAL assist the City in providing design services and services during construction for this pipeline.

### **SCOPE OF WORK**

The suggested scope of work for assisting the City in accomplishing this project is outlined by Task and Subtask below.

#### **Task 100 DESIGN OF PIPELINE**

- 101 Hold a project kickoff meeting with Midvale City.
- 102 Perform utility research and prepare base mapping.
- 103 Perform a field survey.
- 104 Prepare the design of the pipeline
- 105 Have design review meetings with the City at the 50%, and 90% level of design.
- 106 Prepare bidding documents & specifications and submit the documents and design drawings to the City for review and comment.

- 107 Perform a Plan-in-Hand Review of the design drawings.
- 108 Make final revisions and print documents.
- 109 Prepare a construction cost estimate.
- 110 Coordinate UDOT for pipelines in UDOT right-of-ways.
- 111 Submit documents to Division of Drinking Water for review and comment.
- 112 Prepare the Storm Water Pollution Prevention Plan
- 113 Perform Quality Control / Quality Assurance (QA/QC)

**Task 200 CONSTRUCTION MANAGEMENT, SERVICES DURING CONSTRUCTION**

- 200 Solicit bids from qualified contractors.
- 201 Distribute bidding documents to potential bidders.
- 202 Receive and respond to RFI's during bidding.
- 203 Attend/assist with pre-bid meeting and walkthrough.
- 204 Attend bid opening.
- 205 Review bids & prepare recommendation for award.
- 206 Conduct pre-construction meeting and prepare contract documents.
- 207 Provide on-site construction observation (full time).
- 208 Review shop drawings/submittals.
- 209 Conduct weekly construction progress meetings.
- 210 Review/respond to contractor RFI's during construction.
- 211 Review/process contractor change orders.
- 212 Review/process contractor pay requests.
- 213 Conduct final walk-through and prepare punch list.
- 214 Prepare record drawings based on information provided by Contractor.
- 215 Submit documents to Division of Drinking Water and apply for an operating permit.
- 299 Perform Quality Control / Quality Assurance (QA/QC) on documents.

**ESTIMATED FEE**

We propose a professional "not to exceed" engineering budget of \$203,340 to perform the services as outlined in this proposal. The following table summarizes the estimated engineering fee required to accomplish each task.

| TASK | TASK DESCRIPTION             | ENGINEERING FEE ESTIMATE |
|------|------------------------------|--------------------------|
| 100  | Design                       | \$98,455.00              |
| 200  | Services During Construction | \$109,885.00             |
|      | <b>TOTAL ESTIMATED FEE</b>   | <b>\$208,340.00</b>      |

Attached is a detailed manpower and cost breakdown by task and subtask. Work will be billed in accordance with the attached fee schedule.

Assumptions included in our fee estimate are as follows:

1. Construction time for this project is assumed at 18 weeks.
2. Construction observation is assumed at 8 hours per day for 18 weeks.
3. Number of construction progress meetings = 18.
4. Maximum number of change orders = 3
5. We have assumed 5 construction applications for payment.
6. Construction quality control materials testing and construction survey staking will be by the Contractor.
7. Design for this project will be in the year 2018 and construction will be in the year 2019.
8. No easements will be required.
9. No utilities will be required to be relocated for this project.
10. The only geotechnical report that will be required is for a potential boring under Little Cottonwood Creek in the Fort Union Family Center.



**STANDARD FEE SCHEDULE**

January 2018 – December 2018

**PERSONNEL CHARGES**

Client agrees to reimburse Hansen, Allen & Luce, Inc. (HAL), for personnel expenses directly related to the completion of the project, in accordance with the following:

|  |             |
|--|-------------|
| Senior Managing Professional.....                        | \$179.50/hr |
| Managing Professional.....                               | \$156.50/hr |
| Senior Professional II.....                              | \$145.25/hr |
| Senior Professional I.....                               | \$136.10/hr |
| Professional III.....                                    | \$126.20/hr |
| Professional II.....                                     | \$113.30/hr |
| Professional I.....                                      | \$105.30/hr |
| Professional Intern.....                                 | \$95.10/hr  |
| Engineering Student Intern.....                          | \$49.35/hr  |
| Senior Designer.....                                     | \$101.50/hr |
| Senior Field Technician.....                             | \$101.60/hr |
| Field Technician.....                                    | \$82.55/hr  |
| CAD Operator.....  | \$82.55/hr  |
| Secretary.....   | \$60.75/hr  |
| Professional Land Surveyor.....                          | \$116.70/hr |
| 1 Man GPS Surveying Services – Surveying Technician..... | \$103.50/hr |
| 1 Man GPS Surveying Services.....                        | \$137.90/hr |
| 2 Man GPS Surveying Services – PLS.....                  | \$153.80/hr |
| Expert Legal Services.....                               | \$288.50/hr |

**DIRECT CHARGES**

Client also agrees to reimburse HAL for all other costs directly related to the completion of the project. Direct charges shall include, but not be limited to, the following:

|  |   |
|--|---|
| Communication, Computer, Reproduction.....                 | \$6.00 per labor hour                       |
| Out-of-town per diem allowance (lodging not included)..... | \$46.00 per day                             |
| Vehicle.....   | \$0.65 per mile                             |
| Outside consulting and services.....                       | Cost plus 10%                               |
| Other direct expenses incurred during the project.....     | Cost plus 10%                               |
| Trimble GPS Unit.....                                      | \$130.00 per day                            |
| Drone Unit.....  | \$500.00 per day plus data conversion costs |
| Data Logger/Transducer.....                                | \$125.00 per week                           |

INTEREST CHARGE AFTER 30 DAYS FROM INVOICE DATE .....1.5% per month

Note: Annual adjustments to personnel and direct expense charges will occur in January of each year. Mileage rate changes are based on fuel prices.

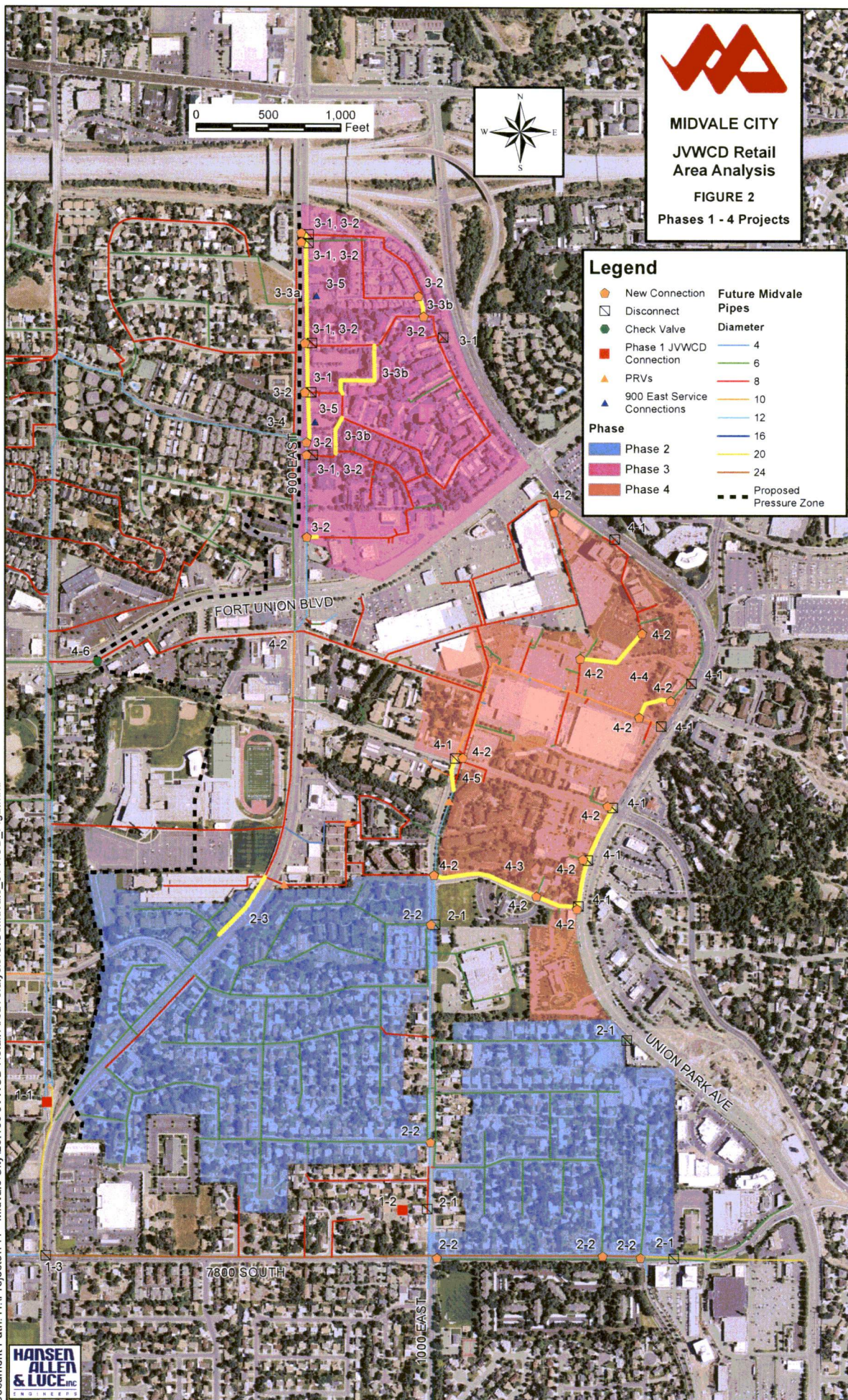
CLIENT: MIDVALE CITY  
PROJECT: JWCD RETAIL AREA TAKEOVER DESIGN

|                          |       |   |   |   |        |   |   |   |       |       |      |      |
|--------------------------|-------|---|---|---|--------|---|---|---|-------|-------|------|------|
| TOTAL HOURS BY EMPLOYEE: | 136.4 | 0 | 0 | 0 | 605.55 | 0 | 0 | 0 | 793.1 | 204.6 | 13.2 | 84.7 |
|--------------------------|-------|---|---|---|--------|---|---|---|-------|-------|------|------|

| PHASE | TASK                         | LABOR        |            |      | SUBTOTAL     | SUBCONTRACTOR COSTS | SUB TOTAL    |
|-------|------------------------------|--------------|------------|------|--------------|---------------------|--------------|
|       |                              | COST         | DIRECT EXP | COST |              |                     |              |
| I     | DESIGN                       | \$70,235.64  | \$4,216.95 |      | \$63,452.59  | \$15,000.00         | \$98,452.59  |
|       | SERVICES DURING CONSTRUCTION | \$97,019.01  | \$7,765.90 |      | \$109,084.92 | \$0.00              | \$109,084.92 |
| II    | SERVICES DURING CONSTRUCTION | \$170,264.85 | \$1,402.85 |      | \$137,337.51 | \$0.00              | \$208,337.51 |
|       | TOTAL                        |              |            |      |              |                     |              |

|        | DATE | DESCRIPTION | AMOUNT | BALANCE |
|--------|------|-------------|--------|---------|
| TOTAL: |      |             |        |         |









**MIDVALE CITY  
JWCD Retail  
Area Analysis**

**FIGURE 1  
EXISTING  
WATER SYSTEM**

**Legend**

**Midvale Pressure Zone Boundaries**

- West Midvale
- Union Area 1
- Union Area 2
- JWCD Service Area

**Existing Pipes**

- 4
- 6
- 8
- 10
- 12
- 16
- 20
- 24
- 30
- 33

