

**VILLAGE OF WELLINGTON**  
**UTILITY ENGINEERING SERVICES WORK AUTHORIZATION**  
**2017 WTP RENEWAL AND REPLACEMENT PROJECT**

**Control Room Build-Out Modifications Services**

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This Work Authorization authorizes Kimley-Horn and Associates, Inc. to perform work set forth herein and is issued pursuant to the Agreement for Consulting Services, between Wellington ("Client" or "Village") and Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant"), dated February 9, 2016 ("Agreement"). All terms and conditions of said Agreement are hereby incorporated and made part of this Work Authorization.

**BACKGROUND**

The Village will contract separately with the specified Operator's Console Fabricator (Evans) to build-out the entire new control room including the adjoining restrooms. The control room build-out includes raising the ceiling height in the control room from 8 feet to 9 feet. It is noted that the restroom ceiling height will be 7' – 10 ½". To facilitate these changes, it will be necessary to create documents for the current Contractor (Weiss) that identifies the new (reduced) scope of work and increase in ceiling height. The removal of scope items from the current contract requires coordination of electrical requirements and responsibility break points. The increase in ceiling height also includes HVAC duct work adjustments. Further, there will be other adjustments to the plans related to the floor elevations, threshold elevations and other details.

Preliminary investigations indicate that the ceiling height can be raised to 9 feet with duct modifications, but the clearances are small and detailed analysis and plan preparation are now warranted. The magnitude of the required plan modifications cannot be well defined until a detailed evaluation is made.

**SCOPE OF SERVICES**

The Consultant will perform the following tasks:

1. Meet with the Village and the Control Room Contractor to determine responsibility break points for each discipline.
2. Modify the HVAC duct plan sheets to accommodate the change in ceiling heights.
3. The new Control Room layout appears to anticipate heat loads due to personnel and equipment that are different than the original design. The cooling capacity of the system will be reconfirmed. Heat load details on the equipment will be supplied by the Control Room Build-Out Contractor.
4. Analyze the anticipated electrical modifications and modify the plans based on the determined discipline break points.
5. Prepare revised plans for all disciplines. The revised plans are intended for use with the current Contractor for these improvements and will provide a revised (reduced) scope

reflective of the transfer of room build-out responsibilities to the Control Room and the restrooms only.

6. It is anticipated that revisions to the following architectural, mechanical, structural sheets will be required. Some of the changes required are noted to be minimal. The number of electrical/instrumentation sheet modifications cannot be determined at this time. Architectural/mechanical/structural sheets impacted are: HS-01, HS-12, HS-18, HS-20, HS-22, HS-23, HS-29, HS-31 and MU-08.

### **ADDITIONAL SERVICES**

Any services not specifically provided for in the above scope, as well as any changes in the scope requested by the Village, will be considered additional services to this Work Authorization and will be performed based on subsequent Work Authorizations approved prior to performance of the additional services.

### **INFORMATION AND SERVICES PROVIDED BY THE VILLAGE AND ASSUMPTIONS**

Kimley-Horn assumes that all information provided by the Village can be relied upon in the performance of professional services. The following assumptions have been made in the development of this work authorization.

- Should it be determined that a modification to the Building Department permit for the original design, the Consultant will be responsible only for work prepared by the Consultant (as opposed to Control Room Build-Out Contractor).
- It is assumed that the Control Room Build-Out Contractor will provide the specified drywall, furring and insulation.

### **SCHEDULE**

The work set forth in the Scope shall be completed within four weeks of receipt of a Purchase Order, exclusive of delays beyond the control of the Consultant.

### **COMPENSATION**

Kimley-Horn will perform the services described in the Scope of Services on a lump sum basis in the amount of Twenty Thousand Two-hundred Twenty dollars (\$20,220.00).

## ESTIMATE FOR ENGINEERING SERVICES

|   |                                      |               |       |                          |          |          |
|---|--------------------------------------|---------------|-------|--------------------------|----------|----------|
| PROJECT:  | WTP Control Room Build-Out Plan Mods |               |       | SHEET 1 of 1             |          |          |
| CLIENT:   | Village of Wellington                |               |       | FILE NO.                 |          |          |
| ESTIMATOR:  | Tebow/Reese                          |               |       | DATE:                    | 02/12/19 |          |
|   |                                      |               |       |                          |          |          |
| DESCRIPTION: See Scope of Services  |                                      |               |       | DIRECT LABOR (MAN-HOURS) |          |          |
|   |                                      |               |       |                          | SUB      | EXP      |
|   | Sr. Proj Mgr                         | Engineer (PE) | Admin | CAD Designer             |          | LINE     |
|   |                                      |               |       |                          |          | TOTAL    |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
| Meet With Evans/Village to Identify Discipline Responsibility Breakpoints (Three Calls) | 6.0                                  |               |       |                          | \$ 1,000 | \$2,170  |
| Review Architectural/Structural To Identify Required Revisions                          | 4.0                                  | 2.0           |       |                          |          | \$1,060  |
| Coordinate With 'Finishes' Contractor To The Extent Work Impacts This Project           | 2.0                                  |               |       |                          |          | \$390    |
| Prepare Plan Modifications For Architectural/Structural Sheets                          | 4.0                                  | 4.0           |       |                          |          | \$1,340  |
| Modify HS-01  |                                      |               |       | 4.00                     |          | \$480    |
| Modify HS-12  |                                      |               |       | 3.50                     |          | \$420    |
| Modify HS-18  |                                      |               |       | 3.50                     |          | \$420    |
| Modify HS-20  |                                      |               |       | 3.50                     |          | \$420    |
| Modify HS-22  |                                      |               |       | 3.50                     |          | \$420    |
| Modify HS-23  |                                      |               |       | 3.50                     |          | \$420    |
| Modify HS-29  |                                      |               |       | 3.50                     |          | \$420    |
| Modify HS-31  |                                      |               |       | 3.50                     |          | \$420    |
| Modify MU-08  |                                      |               |       | 3.50                     |          | \$420    |
| Evaluate Options to Modify HVAC Ductwork  | 2.0                                  |               |       |                          | \$ 500   | \$890    |
| Modify HVAC Ductwork  |                                      |               |       |                          | \$ 1,250 | \$1,250  |
| Evaluate Changes to Heat Loads Due To Equipment Changes                                 | 2.0                                  |               |       |                          | \$ 500   | \$890    |
| Modify the Cooling Capacity of the System If Needed                                     | 2.0                                  |               |       |                          | \$ 750   | \$1,140  |
| Evaluate The Required E & I Plan Sheet Revisions  | 4.0                                  |               |       |                          | \$ 1,000 | \$1,780  |
| Redesign The Room Circuitry To Support New Layout And Equipment                         | 2.0                                  |               |       |                          | \$ 3,500 | \$3,890  |
| Meet With Contractor and Owner To Review Changes  | 2.0                                  |               |       |                          | \$ 500   | \$890    |
| Evaluate Proposed Contract Change Amount  | 2.0                                  | 1.0           | 2.0   |                          |          | \$690    |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   |                                      |               |       |                          |          |          |
|   | 32                                   | 7             | 2     | 32                       |          |          |
|   | \$195                                | \$140         | \$80  | \$120                    | 1.00     |          |
|   |                                      |               |       |                          |          |          |
|   | \$6,240                              | \$980         | \$160 | \$3,840                  | \$ 9,000 | \$20,220 |