



December 11, 2017

Mr. John Ingram/Mr. Bill Cunningham  
Public Works Director/Assistant Public Work Director  
Village of Orland Park  
15655 Ravinia Avenue  
Orland Park, IL 60464

Re: Final Phase II Proposal for 2018 Orland Park Budget Year

Mr. Ingram & Mr. Cunningham,

Per our conversation, we have provided the following final proposal for the CTS Guaranteed Energy Savings Contract Phase II on the items planned for Budget Year 2018.

As your preferred Qualified Provider, competitively selected by the Village of Orland Park in June of 2015, the CTS Group has provided the following turn-key proposal including a fully engineered solution, competitively priced and with the installation managed by our team. This proposal is a guaranteed price with no change orders unless requested by the Village.

### T-12 Lighting Upgrades

The following Village Buildings contain inefficient T-12 lighting fixtures. These fixtures are inefficient, difficult to maintain and no longer being manufactured. The Village would like to replace all existing T-12 fixtures throughout the Village facilities. Currently the local utility (Com-Ed) has incentives for replacement. CTS Recommends replacement of the T-12 lighting with T-8 fluorescent fixtures in all facilities to improve lighting levels, reduce energy consumption and reduce maintenance costs throughout the Village.

- Cultural Center
- Public Works
- Recreation Administration Building
- Centennial Park

**Note: The Village Hall, Civic Center, and Recreation Center T-12's were upgraded in Phase I during 2017.**

### Cultural Center - HID Interior/Exterior Lighting Upgrades to LED (RDC Excluded at this time):

The Cultural Arts Center currently contains T-12 lighting that the Village would like to upgrade to T-8. This building also contains older inefficient HID interior and exterior lighting that could benefit from an upgrade. If the Village plans to upgrade the T-12 lighting during the 2018 budget year, CTS recommends also upgrading the remaining HID inefficient lighting in an effort to save on both energy & maintenance costs. This building is one of the few buildings where the Village directly pays for the utility costs, therefore continuing to replace these remaining interior & exterior HID lighting could benefit the Village with additional energy & operational savings in addition to the mobilization savings.

### Orland Health & Fitness Center - Pool Unit Ductwork replacement:

During the CTS Phase I project, CTS analyzed the existing Pool dehumidification unit and recommendations for replacement of this system to improve comfort levels within the facility. As part of our recommendations, we included the following:

- Replacement of the Pool Dehumidification unit with a properly sized system. **–Being Completed by CTS during 2017 Budget Year as part of Phase I.**
- Installation of automatic doors to the existing women’s & men’s locker rooms. **– Completed by the Village during 2017 Budget Year.**
- Replacement of the Pool Unit Duct Sox.

The duct sox is currently operating beyond it’s typical service life and has some damage that contributes to the comfort issues. Air distribution provided by the duct sox is not providing wall washing which allows for the conditioned air to dry the walls. Wall washing helps to prevent the growth of mold on that wall surfaces. CTS recommends the duct sox to be replaced with painted galvanized spiral duct work and all ductwork seams to be sealed with duct sealant approved for use in a pool area. Replacement of this ductwork would complete all the items included in our recommendations for system replacement including:

- CTS will provide all labor and materials to demo existing duct socks
- Install approximately 300’ of galvanized spiral duct work & spiral diffusers
- Spiral duct will be degreased and painted
- All work to be completed during standard business hours

#### Items excluded:

- Premium time

## Sportsplex HVAC Upgrades (HVAC Design Evaluation & Redesign & Gymnastics Alcove HVAC Unit Upgrades):

The Village has been experiencing temperature control issues at the Sportsplex facility in conjunction with their aging HVAC equipment that has approached the end of their typical service life. The Village would like to evaluate the existing system design and possible renovations/upgrades that would improve the comfort levels in the facility.

CTS recommends a full engineering evaluation of the existing HVAC system to determine the best long term solution for upgrading the system and improving comfort levels. As part of this Phase I approach, we also recommend upgrading the existing system that serves the Gymnastics Alcove. This is a standalone unit serving only this space and has reached the end of its service life. Upgrading this equipment would avoid any emergency repairs/replacement that might occur due to the age of the equipment. This Phase I approach would then provide the Village with recommendations for the remaining facility HVAC design upgrades considering a Phased approach for review.

CTS recommends replacement of the RTU currently serving the Gymnastics Alcove with the following scope of work:

- Provide new 15 ton, gas/electric high efficiency, IECC compliant Packaged Rooftop Unit complete with economizer.
- Recover refrigerant, disconnect power, controls, gas, duct work and remove old RTU for disposal off site.
- Provide and install curb adapter on existing roof curb.
- Provide crane and rigging.
- Re-install controls, gas supply and duct work.
- Revise existing power supply to fit new unit. Add new 100 amp outdoor disconnect.
- Provide and install economizer.
- Start-up new unit and provide one (1) year warranty on parts and labor, five (5) years on the compressor, and ten (10) years on the heat exchanger.

### Items excluded:

- Premium time
- Temporary heating and cooling

## Sportsplex Boiler Upgrade

CTS has provided the engineering, proper sizing and selection of the following boiler Units that will serve the Sportsplex facility. Units have been selected to reduce energy, meet capacity requirements, and provide ease of maintenance for Village staff.

CTS Recommends the following boilers for the Village of Orland Park. The Village of Orland Park will install the units with existing staff.

- Provide two (2) new Lochinvar KBN 400 boilers complete with all intake and exhaust venting material to the second floor mechanical room.

- Included the piping material from the new boiler to the agreed connection points
- Boiler start-up
- Commissioning of new boiler
- Freight
- One (1) year parts warranty

**Items Excluded:**

- Equipment Handling
- Setting and Installation of Boilers
- Electrical Installation
- System Balancing & Controls Programming
- Gas Piping & Metering
- Disposal of Existing Boilers
- Premium Time
- Temporary Heating

**Total Phase II Pricing:           \$634,253**

Please contact me if you have any questions or need additional information. Thanks again.

Sincerely,

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