QLife Network

QualityLife Intergovernmental Agency

TO:

Qlife Board of Directors

FROM:

Nolan Young, Administrator 1149

DATE:

October 28, 2013

SUBJECT:

Storage Rack and Organization Plan for Leased Space

The QLife Board had previously approved a lease that has been signed for a 418 feet in a three sided covered storage shed at the City's Public Works yard. At the time that was approved Aristo was instructed to prepare a plan for organizing and maximizing use of that space, and to bring it back to the Qlife Board for consideration.

Attached is the proposed plan submitted by Aristo. The plan includes an additional 140 feet (approximately 5 additional feet on one side of the leased space). The City is willing to lease the additional space if the Qlife Board approves an amendment.

<u>BUDGET IMPLICATIONS:</u> The estimated cost for this project including a 15% contingency is \$23,549.85. In addition, there would be an additional \$70/month for the additional leased space, if this plan is approved.

If the Board approves this plan, we will need a budget amendment, as we will need additional funds form the Capital Contingency. We currently have \$52,877 in that line item, adopting this plan at \$24,000 leaves us a contingency of \$28,877. We also have an additional \$17,388 in our beginning fund balance.

BOARD ALTERNATIVES:

- 1. Approve the recommended storage plan including an amendment of the lease for the additional 140 feet, direct staff to proceed with the project, and bring back an amended lease and budget amendment.
- 2. Approve the storage space organization plan with 5 feet less space than identified in the plan and direct staff to proceed with the plan and prepare appropriate budget amendment.
- 3. Postpone action on this item to allow for additional research.

Qlife

Storage Racks and Organization Plan

Version 1.1

Developed By John Amery Technical Management Aristo Networks LLC

Version 1.1 10/24/13

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Background

Qlife is currently in need of additional storage space for inventory and operations equipment. The current Qlife bay utilized at City Public Works is not being utilized in an efficient manner.

Aristo Networks considered multiple options, and has determined the best solution for Qife to be the erection of a racking system that will withstand the weights and size requirements of Qlife's materials.

Due to the limitation of future storage expansion, these storage racks should be designed with both current requirements as well as future requirements in mind.

Currently the largest item Qlife stores is a $6' \times 6'$ fiber optic reel. Estimated weight of this reel is approximate 2,000-2,500 lbs. In the future it is reasonable to assume that the largest reel Qlife may require storage of would be a 7'x7' fiber optic reel with an estimated weight of approximately 3,000 lbs. Thus storage racks were designed with this capability in mind.

Qlife is currently bursting at the seams in terms of storage space at City Hall as well. With the development of additional storage at Public Works, some of the items stored at City Hall could be moved to Public works and stored in plastic containers / shelving at Public Works.

Challenges Ascertained

Upon starting research for this project, a number of challenges were determined:

- 1. Building permit is required
 - · Engineering is required
 - Cement base is required
 - Level structure is required (forklift does not operate well at high levels on slope)
 - Setbacks are required
- 2. Maximum height of city forklift is 179"
- 3. Large fiber reels require larger than standard sized Pallets and Racks (the width of our 6 foot fiber spool is 42" while a standard pallet is only 40").
- 4. A fiber reel stored 16 feet high is very different than a flat structure stored at 16 feet.
 - An event such as an earthquake, vehicular crash, or even break down of a wood pallet can start a fiber spool into a slow roll, which at 16 feet in height could potentially be catastrophic for anybody below.
 - · Special pallets are required
 - Additional tie downs are required.
- 5. A 6 or 7 foot Fiber optic Reel takes a much larger 3 dimensional footprint than normal stacked items. For example, our proposed racks are 48" (4 feet) in depth, however Qlife's 6 foot fiber spools will extend beyond the borders of the pallet rack by 12" on both the front and back side as the center of a spool is wider than the top or bottom. Thus we have to account for setbacks from walls and adjoining bays.

The Plan

Qlife will hire Norlift of Oregon (assuming lowest bid as it appears now) to develop engineering per Aristo's requirements for purpose of Building Codes.

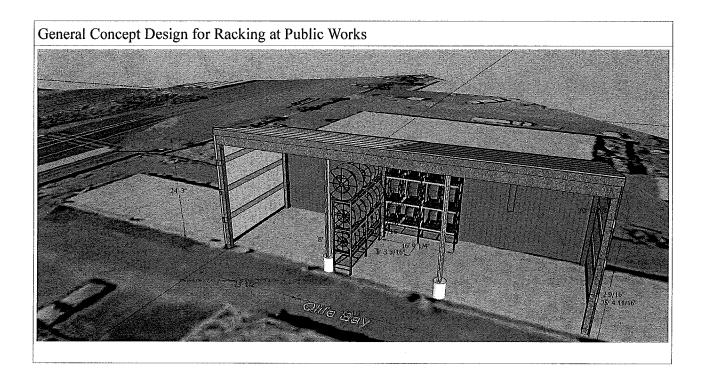
Qlife will hire City of The Dalles (public works employees) to help with the following items:

- 1. Relocation of all items in Qlife's bay to a temporary holding location
- 2. Removal of existing asphalt from current bay
- 3. Installation of required rock / cement per engineering specifications
- 4. Physical building of racks
- 5. Relocation of all items to new locations on new racks

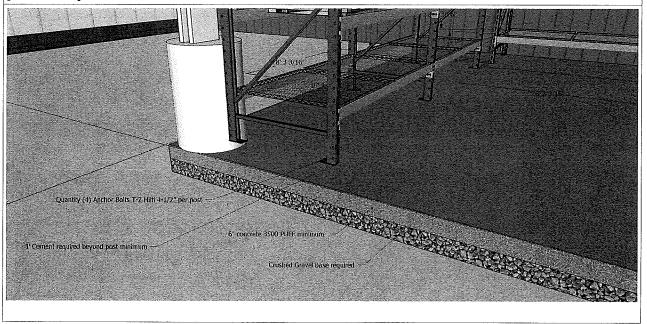
Aristo Networks and City of The Dalles (public works) will organize Qlife materials utilizing new structures.

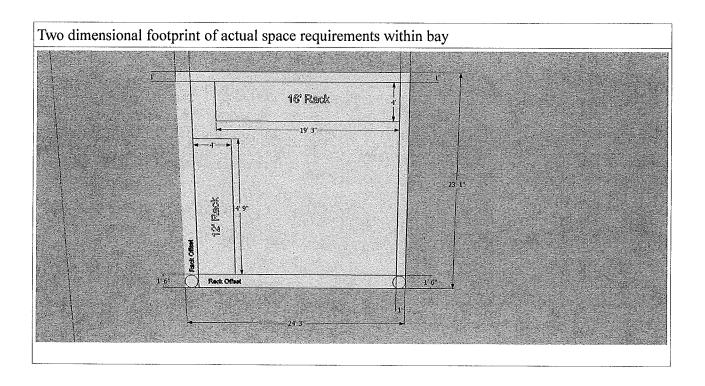
Pictures and Concepts

Notice that 3D pictures below are for general concept only. They have not been updated with recent plans (yet, until Qlife authorizes full project). 2D plans show actual current footprint.



Requirements for groundwork within bay. Removal of current asphalt and installation of cement as per below specifications.





Budget

Budget for the project is approximately \$23k.

| tem Category | Item | Quantity | Price | Description | Subtotals | Totals | Vendor |
|-------------------|------------------|----------|-------------------|--|-------------|----------|----------------|
| Pallet Racks | | | | | | | |
| | | | | 4 16x96x46 Starter Kit – 5" beams | | \$99 | 8.64 Norlift |
| | | 4 | | 7 16x96x48 Add On – 5" beams | | \$8 | 30.16 Norlift |
| | | 1: | | 9 5"x 8' Heavy Duty Beam | | \$39 | 8.28 Norlift |
| | | 1: | | 2 4' safety Support for decking | | \$40 | 8.24 Norlift |
| | | | | 3 48x46 Wire Mesh Decking | | \$14 | 1.84 Norlift |
| | | 1: | | 0 Quantity 50 3x5 label holders | | \$19 | 2.00 Norlift |
| | | 1: | 2 \$19.5 | 0 | | \$23 | 4.00 Norlift |
| | | | 4 \$19.5 | 0 | | \$7 | 8.00 Norlift |
| | | 56 | 3 \$8.1 | 8 | | \$45 | 8.08 Norlift |
| | Shipping | | 1 \$1,100.0 | 0 | | | 0,00 Norlift |
| r! | | | | | \$4,089.24 | | |
| Engineering | | | 1 \$1,000.0 | 0 Warehouse Drawing Rack Layout. | | 64.00 | 0.00 |
| | | | | 0 Anchor bolt testing at install 1-phase | | \$1,00 | |
| | | | | | | | 0.00 |
| Storage Cabinets | | | 31,200.0 | 0 Seismic Engineering. 2 – Design system. Kit for the city review/permit. | ** *** ** | \$1,20 | 0.00 |
| otorage capillets | HAC3624Y | | \$ 918.0 | 0.26 - 24 - 700 - 1: | \$2,800.00 | | |
| | | | 1 \$ 212.0 | 0 36 x 24 x 78" cabinet with multiple storage bins | | | 8.00 norlift |
| | Shipping | | 3212.0 | U | 64 400 00 | | 2.00 |
| Storage Bins | | | | | \$1,130.00 | , | |
| 3 | 19282R06 | 9 | \$41.8 | 2 Sterilite 16.5-Gallon (66-Quart) Latch Storage Box, Set of 6 | | \$10 | 5.46 walmart |
| | FG2643-60 | 2 | | 7 Rubbermaid Commercial Products BRUTE 44 gal. Gray Trash Container with Venting | Channole | | 9.94 homedepot |
| | Shipping | - | | The section of the se | Onamicis | 40 | a.a4 nomedepot |
| | Surppuis . | ` | , | | \$225,40 | | |
| Pallets | | | | | 4220.70 | | |
| | SQ4848-RRB | 20 | \$70.8 | 1 48" x 48" Plastic Pallet – 4,000# dynamic weight capacity | | \$1.41 | 6,20 Nelson |
| | Shipping | 1 | | | | | 5,69 |
| | 0 | | * | | \$1,931.89 | | 0.00 |
| Lumber | | | | | * 1,00 1.00 | | |
| | 392124 | 20 | \$8.5 | 7 4 in. x 4 in. x 8 ft. Premium Pressure-Treated Timber (blocks to keep fiber on pallets) | | \$17 | 1.40 homedepot |
| | | | | , (· · · · · · · · · · · · · · · · · · | \$171.40 | | |
| Straps | | | | | • | | |
| | 4622 | 20 | \$13.96 | 6 Keeper 27 ft. x 2 in. x 10,000 lbs. Heavy-Duty Ratchet Tie-Down | | \$27 | 9.20 homedepot |
| | | | | , , | \$279.20 | | |
| Permits | | | | | | | |
| | Permit | | | | | | |
| | application | 1 | \$150,00 | Application for Building Permit | | \$15 | 0.00 |
| | | | | | \$150.00 | | |
| nstallation | City Employees | 88 | |) \$272 (\$34*8) / worker / day (2 workers for 5 ½ days) | | \$2,992 | 2.00 |
| | Equip Rental | 1 | * | excavator and dump truck rental + saw cut | | \$500 | 0.00 |
| | Cement | 1 | | | | \$1,27 | 2.00 |
| | Rebar / ties | 1 | \$482.00 |) | | \$482 | 2,00 |
| | | | | | \$5,246.00 | | |
| Oversite/Planning | | | | | | | |
| | Aristo Oversite | 65 | \$67.00 | Oversite and Coordination of project | | \$4,35 | 5.00 |
| 74h | | | | | \$4,355.00 | | |
| Other | O | | 0400 | ND | | | |
| | Garbage Services | 1 | \$100,00 | Dump un-needed items | | \$100 | 0.00 |
| | | | | | \$100.00 | | |
| ubtotal | | | | | | 400 | |
| untotal | Contingency | | 60 074 70 | 450/ Continuous | | \$20,478 | |
| | Contingency | 1 | ჵა, U/1./2 | 15% Contingency | | \$3,071 | .72 |

Total Project \$23,549.85