



Memo

TO: Mayor Manier and City Council
FROM: Ed Andrews, Public Works Director
DATE: September 21, 2017
SUBJECT: Salt Shed – Direct procurement of Reinforcing Steel

EXECUTIVE SUMMARY:

Direct procurement of reinforcing steel supporting the foundation bid for 60' x 80' salt shed is requested. This action would allow for: i) the opportunity of additional light commercial bidders to bid on the foundation package, ii) reduce duplicative effort and markup of bidders in the procurement of the steel and iii) subsequently reduce the estimated cost of the foundation bid by at least a similar \$15,000 offset.

It is recommended to directly procure the reinforcing steel separate from the foundation package with Mathis-Kelley of Morton, IL in an amount not to exceed of **\$14,833**.



BACKGROUND NARRATIVE:

In this Fiscal Year, a total budget of \$300,000 was allocated for the construction of a new salt shed storage building at the Legion Road Facility. This project is being undertaken in similar fashion to a past project using this same delivery method. Maurer-Stutz recently completed the foundation design specific to the awarded Accu-Steel structure. Their drawings were released to Mathis-Kelley for pricing.

Mathis-Kelley's quote is attached herewith in an amount of \$13,493 for the design requirement for epoxy coating of just the interior bars, those being closest to the contained salt. At staff's request, they also quoted an optional upgrade of \$1,340 for all of the reinforcing steel to be supplied as epoxy coated. It is staff's recommendation to upgrade all of the reinforcement to epoxy coated given the relatively low cost of the upgrade.

The project is tracking within the overall project budget, summarized below:

Project Items to-date:

Boundary Survey – Central Illinois Consulting Inc.	\$ 1,350
Soil Borings by Ramsey Geotech	\$ 1,800
Structural Foundation Design by Maurer-Stutz	\$ 3,500
Superstructure by Greenfield	\$58,000
<u>* Reinforcing Steel by Mathis-Kelley</u>	<u>\$14,833</u>
Total as of 9-21-17	\$79,483

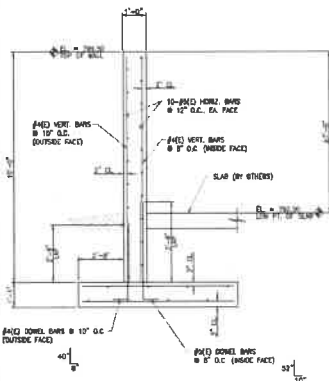
Remaining items:

Site Work	\$ 50,000 (Est. In-house)
Foundation Package (Advertised on 9-19-17)	\$160,000 (Est. 175CY @\$900CY)

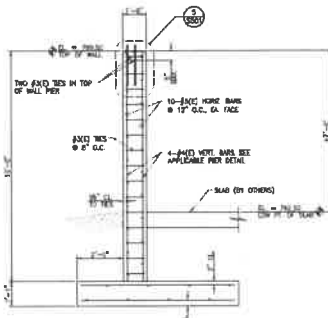
Projected Overall Budget: \$290k as of 9-21-17

This matter has been placed on the City Council agenda of Monday, September 25th, 2017 for review and approval.

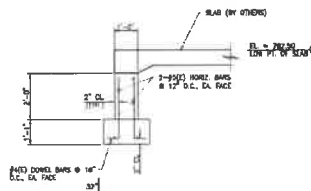
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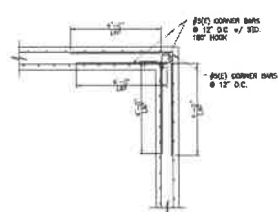
1 TYP. WALL SECTION
SCALE: 1/2" = 1'-0"



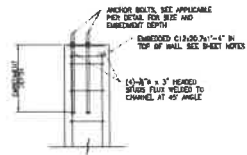
2 TYP. WALL PIER SECTION
SCALE: 1/2" = 1'-0"



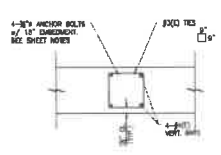
3 WALL SECTION AT DOOR OPENING
SCALE: 1/2" = 1'-0"



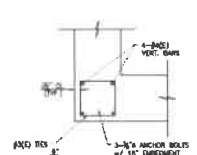
4 CORNER BAR DETAIL
SCALE: 1/2" = 1'-0"



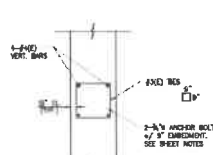
5 EMBEDDED CHANNEL DETAIL
SCALE: 1/2" = 1'-0"



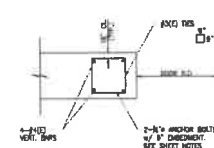
6 WALL PIER DETAIL (SIDEWALL)
SCALE: 1/2" = 1'-0"



7 WALL PIER DETAIL (CORNERS)
SCALE: 1/2" = 1'-0"



8 WALL PIER DETAIL (ENDWALL)
SCALE: 1/2" = 1'-0"



9 WALL PIER DETAIL (ENDWALL)
SCALE: 1/2" = 1'-0"

- SHEET NOTES**
- ALL ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED WITH F1554 GRADE 36 AND LOCATED WITHIN THE WALLS IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S SHOP DRAWINGS.
 - THE EMBEDDED CHANNELS IN THE TOP OF THE WALL SHALL BE AS SHOWN ON THE DRAWINGS FOR THE ACCURATE PLACEMENT OF THE ANCHOR BOLTS. THESE CHANNELS SHALL BE HOT-DIP GALVANIZED AND THE BOLTS SHALL BE SECURED TO THE CHANNEL WEB WITH A NUT AND WASHER ABOVE AND BELOW.
 - THE EXTERIOR GRADE ALONG THE BACK ENDWALL SHALL BE TWO FEET ABOVE THE PROPOSED FINISHED FLOOR ELEVATION. THE GRADE MAY BE TRANSFERRED ALONG THE SIDE WALLS TO BE EVEN WITH THE SLAB AT THE FRONT ENTRANCE.
 - (23)-#4 DIAMETER COARSE THREAD ANCHOR BOLTS WITH MIN. 4" EMBEDMENT INTO THE CONCRETE WALLS SHALL BE INSTALLED FOR THE 2" WALLS. THE ANCHORS SHALL BE STAINLESS STEEL AND HAVE A MINIMUM FACTORED SHEAR CAPACITY OF 8,100 LB. (SEE AISC 308 HAS THROUGH ROD W/ 10-17 200-A REBAR). THE LOCATION AND NUMBER OF ANCHORS SHALL BE COORDINATED WITH THE BUILDING MANUFACTURER.

DO NOT SCALE DIMENSIONS FROM DRAWINGS FOR CONSTRUCTION

MAURER-STUTZ
FUNDATION DETAILS
SHEET STORAGE SHEET
CITY OF WASHINGTON
S501

QUOTATION



CONSTRUCTION SUPPLY

LAWN & GARDEN

STEEL WORKS

HOME OFFICE
1046 W. JEFFERSON ST., MORTON, IL. 61550-1504
TEL: 309/266-9733 • 800/888-9733 • FAX: 309/263-0609
BRANCH OFFICES
1408 DR. MARTIN LUTHER KING DR., BLOOMINGTON, IL. 61701-1454
TEL: 309/828-8300 • FAX: 309/828-8399
3006 J. DAVID JONES PARKWAY, SPRINGFIELD, IL. 62707-5715
TEL: 217/535-2800 • FAX: 217/535-2805
8623 N. UNIVERSITY ST., PEORIA, IL 61615-1631
TEL: 309/589-5725 • FAX: 309/589-5721

Inquiry No. _____

Date 09-19-2017

Terms Net 30 Days

Prices quoted are F.O.B. JOBSITE

Delivery CITY OF WASHINGTON

SALT STORAGE SHED

WASHINGTON, IL.

ATTN: ED ANDREWS

We are pleased to quote as follows. Your inquiry

Quantity	Description	Price	Amount
1 LOT	<p>APPROX. <u>11.41</u> TONS GRADE 60 REINFORCING STEEL, FABRICATED PER PLANS AND SPECIFICATIONS.</p> <p>REINF. PER STRUCTURALS DRAWINGS SHTS. S101 & S501 ONLY.</p> <p>ALL WALL & PIER REINF. INCLUDING DWLS. INTO FTG IS EPOXY COATED.</p> <p>ALL FTG. REINF. INCLUDING HORIZ., TRANSVERSE, AND STANDEES IS BLACK BAR.</p> <p>ALT. ADD FOR FTG. REINF. TO BE EPOXY COATED</p> <p>EXCLUDES SLAB REINF.</p> <p>PRICE IS GOOD FOR 30-DAYS ONLY.</p>	<p>\$13,493.00</p> <p>\$1,340.00</p>	

- NOTES:
1. TAXES ARE NOT INCLUDED.
 2. NECESSARY SHOP DRAWINGS ARE PROVIDED.
 3. EXCLUDES SUPPORTS FOR BARS OR WIRE MESH.
 4. PRICES QUOTED ARE FOR MATERIAL ONLY, DELIVERED TO THE JOBSITE. NO UNLOADING OR INSTALLATION IS INCLUDED.
 5. PRICE IS FIRM THRU _____ AND IS SUBJECT TO ESCALATION BEGINNING _____.
 6. PRICE IS BASED ON SHIPMENTS IN TRUCKLOAD QUANTITIES.
 7. PRICE EXCLUDES REINFORCING FOR MASONRY, ELECTRICAL, MECHANICAL, PLUMBING, & SITEWORK.

Authorized Signature JIM STONE

NOTE: This proposal may be withdrawn by Mathis-Kelley if not accepted within 30 days.

ACCEPTANCE - Prices, conditions, and specifications are satisfactory, and hereby accepted. You are authorized to proceed with the order.

SIGNATURE _____

ACCEPTANCE DATE _____

TITLE _____