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Planning
Architecture
Urban Design

Memorandum

To: Brian Olson – Dir. of Public Works
From: William Fossing, PE – LSA
Project: City of Ramsey CMAQ Project (SP 199-080-02)
Subject: PR #1 for Deep Foundations
Date: September 7, 2011

BACKGROUND

The Preliminary Soils Investigation for the Phase II horizontal expansion determined that unsuitable soils existed at a portion of the site at 15 to 35 foot depths below existing grades. The City subsequently approved additional borings and Soil Engineering by Braun to provide recommendations for deep foundations to address the unsuitable soils. Copies of the additional borings and the recommended footings to be revised were issued on 8/29/11 (see attached).

LSA redesigned the foundations for nine columns and generated a proposal request (PR #1) and issued it on 9/1/11. The General Contractor (Knutson Construction) issued the attached Proposed Change Order #1 dated September 7, 2011 for this work.

RECOMMENDATION FOR CHANGE ORDER TO CONTRACT FOR CONSTRUCTION

In review of the PCO #1, I am recommending the City authorize a Not-To- Exceed Change Order amount of \$211,077 to the Contract to Knutson Construction Co. based on the following:

1. The attached amount is based on a single bid for the cost of the piling and their installation. Knutson Construction will obtain additional bids for this work and we will adjust the Change Order amount prior to issuing if lower qualified bids are provided.
2. Knutson Construction has identified that the concrete pour for level 2 is now scheduled to occur in mid November (11/14) rather than mid October (10/20). For temperatures in the low end of the normal range, insulated blankets and enclosing and heating the underside of the pour may be required. The concrete suppliers will have added costs. The authorized amount includes a not-to-exceed amount of \$14,000 for the time and material to address these measures, only if necessary. These costs will be determined at the time of the pour for Level 2.

RECOMMENDATION TO AMEND TESTING AND SPECIAL INSPECTIONS

The fee for Soils Engineering, Construction Testing and Special Inspection Services by Braun has been previously approved for \$55,453.

Based on Braun Intertec's review of PR#1, they have estimated the additional fee for testing and inspection related to the revised foundation to be \$8,000.00 (see attached).

They have also estimated an additional fee for a "precondition survey" of the existing ramp for \$1,500. This will include video and still photographs.

I am recommending the City authorize an amendment to Braun's Hourly Contract for \$9,500.00,

RECOMMENDATION TO AMEND AGREEMENT BETWEEN ARCHITECT AND OWNER

LSA Design has estimated our additional fee to:

1. Coordinate the Geotechnical Investigation, Testing and Inspection required due to the unsuitable soils.
2. Design the deep foundation system in accordance with recommendations from the Geotechnical Engineer.
3. Issue a Proposal Request to modify the Contract Documents. Review Costs and provide recommendations.
4. Provide Construction Administration Services for the revisions.

I am requesting that the City authorize an amendment to LSA's Professional Services Agreement for an Hourly Not-to-Exceed amount of \$12,000.00,

I will be available to attend the City Council meeting on September 13, 2011 to present this item and answers questions from the Council.

Attachments; Braun email dated 8/29/2011
Knutson PCO#1 Letter dated 9/6/2011
Braun email dated 8/31/2011
LSA amendment #1

C: James Lasher - LSA
File

William Fossing

From: Erie, Cyle [CErie@braunintertec.com]
Sent: Monday, August 29, 2011 2:21 PM
To: William Fossing
Cc: Glisson, Matthew
Subject: Ramsey Ramp Foundations
Attachments: Pile - underpin Locations.pdf; Summary of Predicted Settlement.pdf

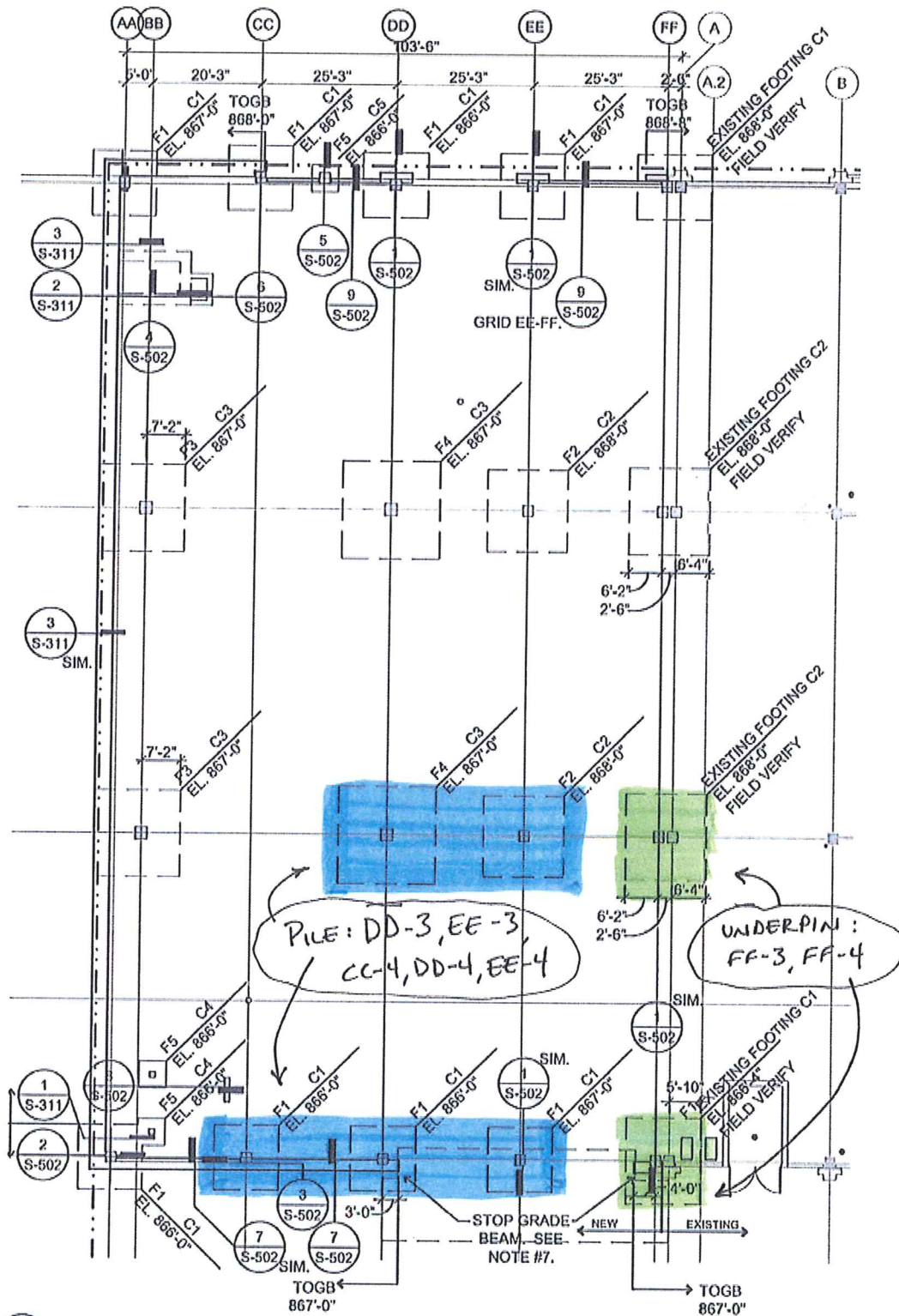
Bill-

Attached is a table summarizing anticipated settlements using spread footings, as well as a plan marked-up showing footings recommended for piles. Give a call on my cell when you have a chance to discuss.

Thanks,
Cyle



Cyle N. Erie, PE
Associate Principal/Project Engineer
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1 FOUNDATION PLAN
S-100



Boring/Sounding Number	Grid Location	Predicted Settlement (inches)
ST-1	AA-1	0.75
ST-2	EE-2	0.92
ST-3	AA-4	0.6
CT-4	EE-1	0.3
CT-5	DD-1	0.4
CT-6	CC-1	0.5
CT-7	AA-2	0.8
CT-8	DD-2	0.5
CT-9/ST-15	EE-3	2.5
CT-10/ST-17	DD-3	1.5
CT-11	AA-3	0.4
CT-12	CC-4	1.5
CT-13	DD-4	3
CT-14/ST-16	EE-4	>3



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September 6, 2011

Mr. William Fossing
LSA Design, Inc.
Northwestern Building
219 N. Second Street, Suite 302
Minneapolis, MN 55401

Re: **Ramsey Municipal Parking Facility**
City Project #10-22

PCO #001 – PR #1 – Foundation Modifications

Dear Mr. Fossing:

Please find enclosed our estimate to provide revisions to the Foundations per PR #1 with the following clarifications:

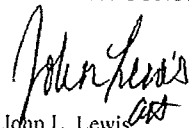
- Proposal is based on secondary pipe material, availability
- Piles are to be driven with Swinging Leads.
- Time allowed for 2 PDA test piles with the cost of this testing by Others.
- Vibration monitoring of the existing structure is by Others. Settlement monitoring has been included.
- Our original scheduled date for completion of the 2nd level deck is October 20th, based on PR #1 we anticipate the delays in relation to PR #1 to be 3 weeks, which would make the placement date for Pour #1 November 14th. This delay will require additional costs for heating of the concrete and blanketing on the concrete deck and depending on weather conditions at the time may require enclosure and heating of the under slab. Based on our estimate the costs associated with delayed placement of the 2nd level deck would not exceed \$14,000. These costs are not included in this proposal and would be tracked on a T & M basis and would be submitted at the completion of the 2nd level deck. The cost for this work would not exceed \$14,000.
- We have assumed this work can be completed without negatively impacting the existing structure should it be determined this work is negatively impacting the existing structure we reserve the right to submit for additional cost and time.
- This pricing is based receiving approval to proceed with this work no later than September 16, 2011.

Based on the attached estimate we are requesting a change order in the amount of One Hundred Ninety Seven Thousand Seventy Seven Dollars (\$197,077.00), the amount identified on the attached cost itemization.

If during your review of this information, questions remain, please telephone at 763-525-3038.

Respectfully Submitted,

KNUTSON CONSTRUCTION SERVICES, INC.


John L. Lewis
Project Manager

JLL

Enclosure: Estimate PCO #001

c: File 111.1
PCO 001

William Fossing

From: Erie, Cyle [CErie@braunintertec.com]
Sent: Wednesday, August 31, 2011 3:16 PM
To: William Fossing
Cc: Glisson, Matthew
Attachments: CPT Logs.pdf; Soil Boring Location Sketch.pdf; SPT Logs.pdf

Bill-

The SPT and CPT logs and location sketch are attached. The hammer used should be rated for an energy of 40,000 to 65,000 ft-lbs.

Our recommended inspections and testing for the pile-related work includes PDA and CAPWAP analysis on 2 production piles, installation observations, concrete testing, vibration monitoring of the existing structure, and a final special inspection report when pile installation is complete. The estimated costs for all of this is about \$8,000. You could also do a pre-condition survey of the existing ramp if the City would like to do that – that would be about \$1,500.

Let me or Matt know if you need anything else or have questions with anything.

Thanks!

Cyle



Cyle N. Erie, PE

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AIA[®] Document G801[™] – 2007

Notification of Amendment to the Professional Services Agreement

TO: Brian Olson, PE
(Owner or Owner's representative)

Notification Number: 001

In accordance with the Agreement dated: 01/10/11

BETWEEN the Owner:
(Name and address)
City of Ramsey
7550 Sunwood Drive NW
Ramsey, MN 55303

and the Architect:
(Name and address)
LSA Design, Inc.
219 N. Second Street, Suite 302
Minneapolis, MN 55402

for the Project:
(Name and address)
Ramsey Municipal Parking Facility-Phase II
7650 Sunwood Drive
Ramsey, MN 55303

Notification is made of the need to proceed with Additional Services as follows:

1. Coordinate Geotechnical Investigation, testing and inspection required for deep foundations.
2. Design deep foundation system in accordance with recommendations from Geotechnical Engineer.
3. Issue a Proposal Request to modify the Contract Documents for the deep foundations. Review costs and provide recommendations to Owner.
4. Provide Construction Administration services for revised Contract Documents.

The following adjustments shall be made to compensation and time.
(Insert provisions in accordance with the Agreement, or as otherwise agreed by the parties.)

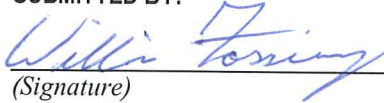
Compensation:

Basic Services Agreement:	\$ 132,000.00
Amendment #01 Not to Exceed Hourly Fee:	\$ 12,000.00
TOTAL Fee Not to Exceed:	\$ 144,000.00

Time:
N/A

Prompt written notice to the Architect from the Owner is required to discontinue the described service.

SUBMITTED BY: _____



(Signature)

William Fossing, P.E.

(Printed name and title)

07 September, 2011

(Date)