

Project: 3873.1
City of Minot,
North Dakota
Change Order
No. 3

Date of Issuance: <u>October 24, 2015</u>		Effective Date: <u>October 24, 2015</u>
Project: 16Th Ave, 46th St, 14Th Ave Rebuild & 16th Ave Water line	Owner: City of Minot	Owner's Contract No.: 3873.1
Contract: 16Th Ave, 46th St, 14Th Ave Rebuild & 16th Ave Water line		Date of Contract: 9 April 2015
Contractor: Wagner Construction		Engineer's Project No. R14090.01

The Contract Documents are modified as follows upon execution of this Change Order:


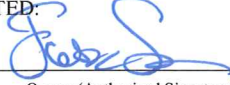
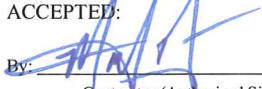
Item #1: The area behind the new curb and gutter from Sta. 19+00 to 20+64 Rt on 14th Ave SE did not incorporate a drain system. In order to provide drainage for this area, additional 12" storm drain and flared end section is to be added from Sta. 19+15 Rt to the new storm sewer manhole STMH 7. Additionally, a 12" culvert and flared end sections are to be added to the driveway at Sta. 20+20.77 Rt. Additional costs include: 99 LF of 12" RCP at the accepted unit price of \$87.50/LF; 3 EA 12" RCP End Sections at the accepted unit price of \$1,000/EA; relocate shrubs 6 EA at the accepted unit price of \$100.00/EA, remove existing curb and asphalt at accepted unit price of \$425/LS, modify existing storm structure at accepted unit price of \$625/LS, mobilization at the accepted unit price \$1,750/LS. 30 LF of Type I C&G at contract price of \$20/LF, 5.0 Ton of Cl. 29 Hot Bituminous Asphalt at \$66 /Ton; and 0.3 Ton of PG 58-28 Asphalt Cement at contract price of \$570/Ton. Net effect of this revision is an increase of \$16,163.50 to the contract amount.


Item #2: The roadway widening along 16th Ave SE requires that the existing hydrant at Sta. 12+80 Rt be raised to accommodate the raise in grade. Additional costs include: mobilization at the accepted unit price of \$750/LS; 2 EA of 6" Degree Bends to be paid at material cost of \$175/EA; 20 LF of 6" C-900 Pipe to be paid at material cost of \$5/LF; 20 CY of bedding sand at accepted unit price of \$13/CY; and a utility pipe crew at a rate of \$10,980/Day for 0.75 Days. Net effect of this revision is an increase of \$10,445.00 to the contract amount.

Item #3: The culvert placed at Sta. 9+90 on 16th Ave SE as part of CO #2 required additional pipe and resetting of the end section and rip rap. Additional costs include: 8 LF of 24" RCP at the contract unit price of \$92.00/LF; mobilization at the accepted unit price of \$500/LS; and a utility pipe crew at a rate of \$10,980/Day for 0.75 Days. Net effect of this revision is an increase of \$9,971.00 to the contract amount.

Attachments: (List documents supporting change): Revised Sheet C27, Submitted Prices/Work Orders

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price:	Original Contract Times: <input type="checkbox"/> Working days <input checked="" type="checkbox"/> Calendar date
	Substantial completion (days or date): <u>October 16, 2015</u>
<u>\$2,103,067.00</u>	Ready for final payment (days or date): <u>November 2, 2015</u>
[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>2</u> :	[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>2</u> :
<u>\$33,793.50</u>	Substantial completion (days): <u>8 Calendar Days</u>
	Ready for final payment (days): <u>8 Calendar Days</u>
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
<u>\$2,136,860.50</u>	Substantial completion (days or date): <u>October 24, 2015</u>
	Ready for final payment (days or date): <u>November 10, 2015</u>
[Increase] of this Change Order:	[Increase] [Decrease] of this Change Order:
<u>\$36,579.50</u>	Substantial completion (days or date): <u>4 Calendar Days</u>
	Ready for final payment (days or date): <u>4 Calendar Days</u>
Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders:
<u>\$2,173,440.00</u>	Substantial completion (days or date): <u>October 28, 2015</u>
	Ready for final payment (days or date): <u>November 14, 2015</u>

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: 	By: 	By: 
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date: <u>11/3/15</u>	Date: <u>11/5/15</u>	Date: <u>11/03/15</u>
Approved by Funding Agency (if applicable): _____		Date: _____



A north arrow pointing upwards, consisting of a vertical line with a cross at the top and a circle with a cross in the center. Below the arrow is a graphic scale bar with markings for 25, 0, 25, and 50. The scale bar is divided into alternating black and white segments.

Graphic Scale:

Attention is Drawn to the Fact That Drawing Scales
May be Altered During Reproduction Processes.
Scales Shown Hereon are Based on a Full Scale
Sheet Size of 11" x 17".

Scale: 1" = 50'
Vertical Datum is NGVD 1929

[illegible]

SSCALE (H): 1" = 50'
SSCALE (V): 1" = 10'
DRAWN BY: EDS
DESIGNED BY: EDS
CHECKED BY: TJA
DATE: 02/23/2015

PROJECT NO. R14090
DRAWING NAME 14th -46th Storm P&S
C27 OF C59

Monday, February 23, 2015 9:51:20 AM

Tim Arens

From: Matt Guerton <m.guerton@wagnerconstructioninc.com>
Sent: Wednesday, October 07, 2015 1:16 PM
To: Tim Arens
Cc: Ben Cofell (ben.cofell@minotnd.org)
Subject: RE: Minot Rebuild (3873.1) - Wagner CO Items
Attachments: PCO#16_Culvert Extension at Frontage Road & 16th Ave_10-07-15.pdf; PCO#14_14th Ave SE Additional Storm Sewer_10-07-15.pdf; PCO#15_Raise Hydrant at 16th Ave & Rivers Edge_10-07-15.pdf

Tim-

I have made some adjustments to the Change Orders per your comments. This is how the actual crew was built. See attached and below. Let me know. You should have justification for everything else.

Super	\$100.00	
Labor (4)	\$340.00	
Hoe	\$235.00	
Loader	\$150.00	
Skiddy	\$0.00	
Compactor	\$65.00	
Small Tools	\$25.00	
12 Hr Day	\$915.00	\$10,980.00

Matt Guerton | *Project Manager*
Mobile: 218.240.9045 | Fax: 218.283.1043

Wagner Construction, Inc.
3151 Highway 53 Suite 1, International Falls, MN 56649
Main: 218.283.3700 | www.wagnerconstructioninc.com



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From: Tim Arens [<mailto:Tim.Arens@ackerman-estvold.com>]
Sent: Wednesday, September 30, 2015 1:49 AM
To: Matt Guerton
Subject: Minot Rebuild (3873.1) - Wagner CO Items

Matt,

My plan is to include the following three items in one change order since all our yours and include some mobilization that I can group together: pipe on 14th Ave, pipe extension on 16th Ave SE, and the hydrant.

As I went through justify the submitted costs, I need the following items revised, resubmitted, or clarified to get this processed:

- For the hydrant, are the 6” 45 degree bends and 6” C-900 Pipe items the cost of material? I would like to say this is the case and use an invoice to justify the cost. If not, can you revise so it is the cost of material.
- Eliminate per diem. For one it seems to overlap and second it should just be included in other costs.
- The 12” FES is quoted as \$1250.00 which is the same as the contract price for the 15” FES. Just looking at your paving district 493 project, the cost for the 15” FES was \$1000 for this item. Can you get this to \$1000/EA?
- For previous work on this project, the rates shown below were provided. For the \$15,000 per day cost for a utility crew the best I can do is 1 supervisor, 4 laborers/operations, 1 excavator, 1 loader, 1 sheepsfoot compactor, and pick up & small tools at a rate of \$11,160 per 12 hour day. What am I missing to get this up to your desired rate of \$15,000. Again, I would like to leave per diem out of it.
 - Supervisor - \$100/HR
 - Labor/Operator – \$85.00/HR
 - 308 Komatsu Excavator – \$250/HR
 - 228 Komatsu Excavator – \$235/HR
 - 928 Caterpillar Loader – \$150/HR
 - CP433 Caterpillar Sheepsfoot – \$65/HR
 - Pick Up & Small Tools – \$25.00/HR

Please give me a call to discuss how we can get this passed through faster.

Tim Arens, PE
[Ackerman-Estvold](#)
1907 17th Street Southeast
Minot, ND 58701
Ph: (701) 857-9139
Fax: (701) 837-1990



Work Change Directive/Work Order

Engineer/Owner

Wagner Project Number/Name

Date:

Work Change Directive Number:

Ackerman-Estvold City of Minot
16th Rebuild (Minor#3873-1)
October 7, 2015
Wagner CO#14 (Revised)

Description of Added/ Modified Work:

Additional Storm Sewer & Removals at the intersection of 14th Ave SE & 46th Street SE.

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Mobilization		1.0	EA	\$1,750.00	\$1,750.00
12" RC Pipe		99.0	LF	\$87.50	\$8,662.50
12" RC FES		3.0	EA	\$1,000.00	\$3,000.00
Modify Existing Storm Structure		1.0	LS	\$625.00	\$625.00
Remove Existing Curb, Black Top & Sawcut		1.0	LS	\$425.00	\$425.00
Relocate Existing Shrubs (Remove Tree)		6.0	EA	\$100.00	\$600.00
* Does not include contract unit items to reinstall					
Type 1 C+G and the Asphalt (CI 29 item + Asphalt Cement item).					
This will add to the change order.					
Misc/Dumpfee/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$15,062.50 *

Wagner Rep.  Date: 10/07/15 Owner Rep: _____ Date: _____

Co #3: Item #2



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Ackerman-Estvold/City of Moor
16th Rebuild (Minor#3873.1)
October 7, 2015
Wagner CO#15 (Revised)

Description of Added/Modified Work:

Raise Hydrant at 16th Ave Se & Rivers Edge Drive

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Mobilization		1.0	EA	\$1,500.00	\$1,500.00
6" 45 Degree Bends & accessories		2.0	EA	\$175.00	\$350.00
6" C-900 Pipe		20.0	LF	\$5.00	\$100.00
Sand Bedding		20.00	CY's	\$13.00	\$260.00
Utility Pipe Crew w/ Supervisor		0.75	Day	\$10,980.00	\$8,235.00
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$10,445.00

Wagner Rep. Date: 10/07/15 Owner Rep: _____ Date: _____



CO #3: Item #3

Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Ackerman-Estvold/City of Minot
16th Rebuild (Minot#3873.1)
September 28, 2015
Wagner CO#16

Description of Added/ Modified Work:

Culvert Extension at the Frontage Road & 16th Ave

Remove existing riprap and salvage. Remove existing FES. Excavation for pipe extension & shape ditch. Installation of pipe and backfill.

Installation of new fabric and salvaged riprap. Re-topsoil slopes.

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Mobilization		1.0	EA	\$1,000.00	\$1,000.00
24" RC Pipe		8.0	LF	\$92.00	\$736.00
Utility Pipe Crew w/ Supervisor		0.75	Day	\$10,980.00	\$8,235.00
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$9,971.00

Wagner Rep:  Date: 09/28/15 Owner Rep: _____ Date: _____



1907 17th Street Southeast
Minot, ND 58701
701.837.8737
www.ackerman-estvold.com

MEMORANDUM

To: Ben Cofell, City of Minot

From: Ackerman-Estvold

Date: September 17, 2015

Re: Change Order #3 – Independent Cost Estimate
Project 3873.1 - 16th Ave, 46th St and 14th Ave SE Rebuild

This independent cost analysis is for the following items:

- 1) Storm Sewer & Removal at 14th Ave SE – The area behind the new curb and gutter from Sta. 19+00 to 20+64 Rt on 14th Ave SE did not incorporate a drain system. In order to provide drainage for this area, additional 12” storm drain and flared end section is to be added from Sta. 19+15 Rt to the new storm sewer manhole STMH 7.
- 2) Raise Hydrant at 16th Ave SE and Rivers Edge Drive – The roadway widening along 16th Ave SE requires that the existing hydrant at Sta. 12+80 Rt be raised to accommodate the raise in grade.
- 3) Extend Culvert, Relocate End Section & Riprap –The culvert placed at Sta. 9+90 on 16th Ave SE as part of CO #2 required additional pipe and resetting of the end section and rip rap due to field change.

Item 1: See attached email regarding two options and related estimates for initial anticipated costs. Each option is estimated around \$17,000.

Item 2: This items includes raising/relocating an existing hydrant that requires excavating to a depth of 10’ to 12’ in the existing roadway and adjusting the 6” water line feeding the hydrant. New pipe and 45 degree bends are to be used to raise the line. A related contract bid item is the Connect to Existing Water Main at a unit price of \$3,500/EA. It is expected that the submitted price to relocate the existing hydrant would be a minimum of \$3,500/EA since this work is in an isolated area and not part of a larger project that the connection to existing water mains occurred. Additionally, there are material costs involved in this item.

Item 3: This item includes removing the flared end section and surrounding riprap in order to extend the previously installed run of pipe. Riprap is to be replaced. One additional length of pipe is to be installed; otherwise, the majority of the work involves equipment and labor costs. It is expected that the cost for this item would be similar to item #2, which is a minimum of \$3,500.

The total additional cost of these 3 items is expected to exceed \$24,000. Additional factors that will add cost to these items is the high probability that equipment will need to be re-mobilized to the site. Overall, an additional \$30,000 should be expected for these items.

Tim Arens

From: Tim Arens
Sent: Friday, September 04, 2015 11:35 AM
To: Ben Cofell (ben.cofell@minotnd.org)
Cc: Jason Sorenson (jason.sorenson@minotnd.org); Dan Jonasson (dan.jonasson@minotnd.org); Jim Murphy (james.murphy@ackerman-estvold.com); Jeff McElwain
Subject: Minot Rebuild (3873.1) - Drainage at East End of 14th Ave
Attachments: 14th Storm Exhibit.pdf

Ben,

The area at the end of 14th Avenue on the south side has a ponding issue behind the new curb & gutter. It appears this was the case previously. To remedy the situation, we are proposing to add a drainage system to collect the water and send it across the road to the north. The is only 2’ of grade difference between flow line of C&G to the low spot. Furthermore, water ponds on the west side of the driveway before going off right of way and back over to the east, so we added a pipe run under the driveway. To install this system, current items including some curb and gutter and the approach will need to be removed and replaced. Also, there is some electrical or communication boxes at the outfall on the north that may need relocated.

Estimate for this change includes removals, curb and gutter, driveway, 12” pipe, structure, and end sections. Here is quick estimate:

- Removal of Concrete Pavement: Min. 20 SY at \$10.00/SY = \$200.00
- Removal of C&G: 37 LF at \$10.00/LF (Est. Unit Cost) = \$370.00
- 6” Concrete Driveway: Min. 20 SY at \$65.00/SY = \$1300.00
- Type 1 Curb and Gutter: 37 LF at \$20.00/LF = \$740.00
- 12” RCP CL. III Storm Drain: 102 LF at \$80.00/LF (Est. Unit Cost) = \$8160.00
- End Section – Conc. Reinf 12”: 3 EA at \$1000.00/EA (Est. Unit Cost) = \$3000.00
- 48” Catch Basin Manhole: 1 EA at \$4000.00/EA = \$4000.00

Estimated total for this is \$17,770. Note some of this items don’t have unit bid prices and would be negotiated with the contractor.

It’s best we meet in the field and discuss this situation.

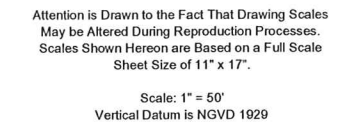
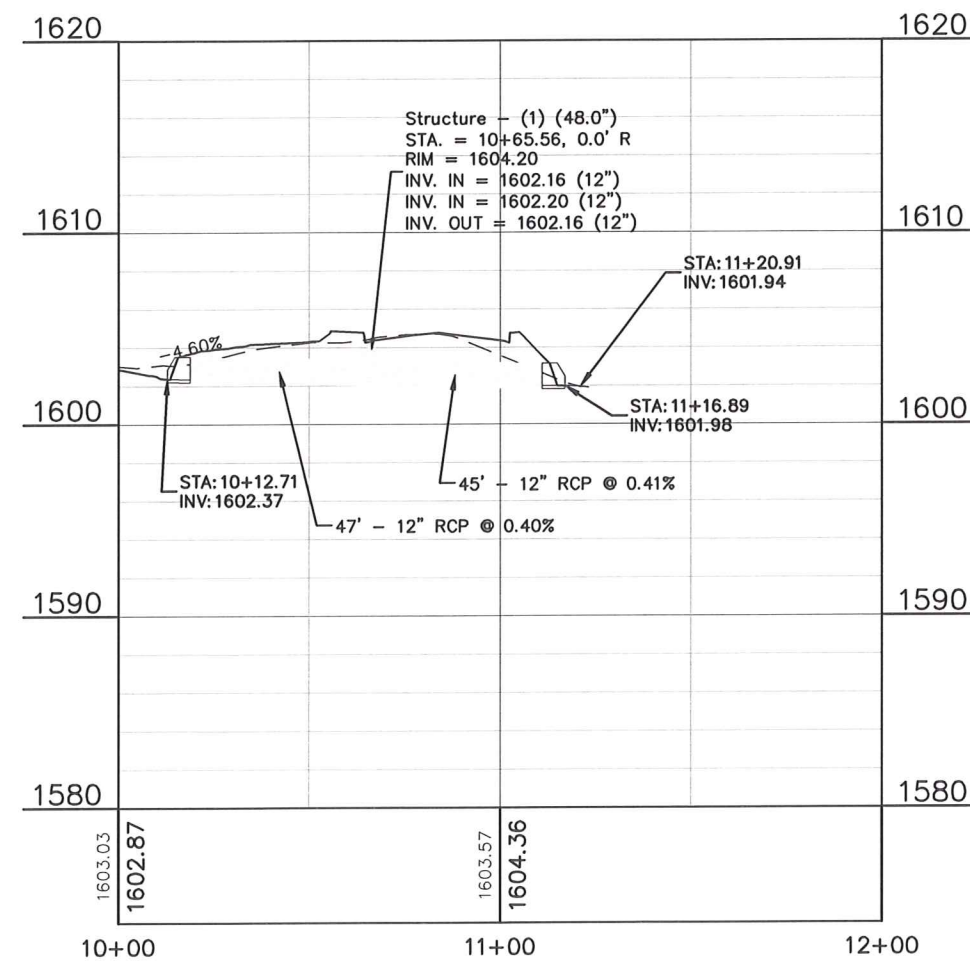
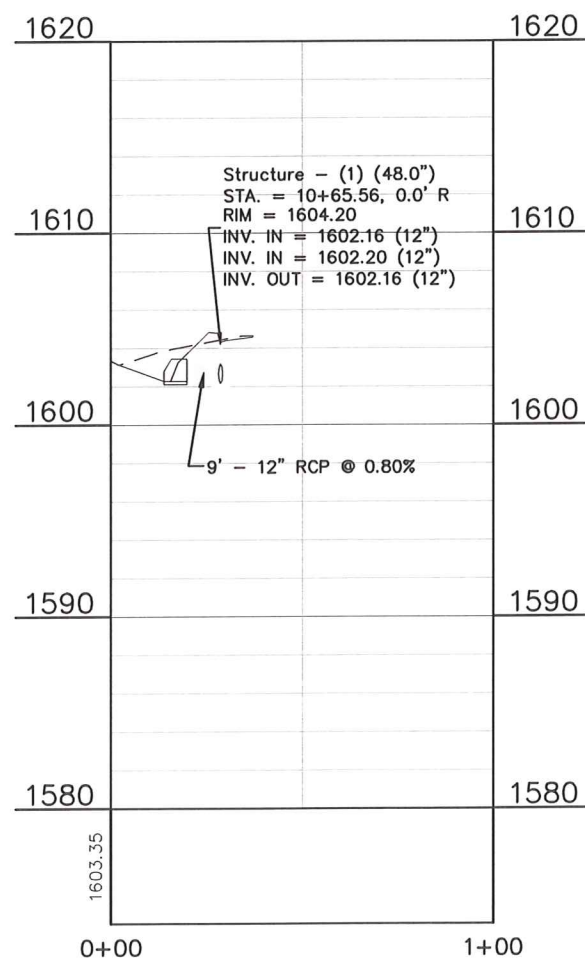
Tim Arens, PE
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[illegible]

Tim Arens

From: Tim Arens
Sent: Wednesday, September 09, 2015 8:13 PM
To: Ben Cofell (ben.cofell@minotnd.org)
Cc: Jim Murphy (james.murphy@ackerman-estvold.com); Jeff McElwain; Emory Shafter
Subject: RE: Minot Rebuild (3873.1) - Drainage at East End of 14th Ave
Attachments: 14th Ave Storm Option2.pdf

Ben,

Here is another option to drain the south side of 14th Avenue. This includes installing 12” RCP and end sections under the driveway and along the ditch to tie into the existing manhole. This requires the relocation of communication lines and pedestal, removal of shrubs, easements, removal of curb and gutter, and modification to the existing manhole. Water collected on the south side and east end of the roadway would just dump around the curb and into low spot.

This is rough estimate and we would need to get some prices from Wagner:

- Removal of C&G: 30 LF at \$10.00/LF (Est. Unit Cost) = \$300.00
- Type 1 Curb and Gutter: 30 LF at \$20.00/LF = \$600.00
- 12” RCP CL. III Storm Drain: 92 LF at \$80.00/LF (Est. Unit Cost) = \$7360.00
- End Section – Conc. Reinf 12”: 3 EA at \$1000.00/EA (Est. Unit Cost) = \$3000.00
- Modify Existing Manhole: 1 LS at \$5000.00/LS (Est. Unit Cost) = \$5000.00
- Replace Shrubs: 1 LS at \$500/LS (Est. Unit Cost) = \$500.00
- Grading and other Misc. Items: Incidental to Manhole Modification

Estimate total is then \$17,060. If you have any questions while I’m out Thursday, please work with Jim and Emory. Thanks.

Tim Arens, PE
[Ackerman-Estvold](#)
1907 17th Street Southeast
Minot, ND 58701
Ph: (701) 857-9139
Fax: (701) 837-1990

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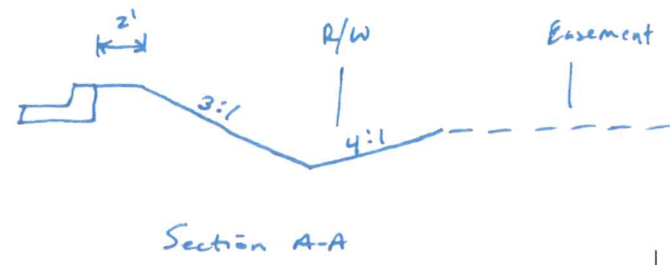
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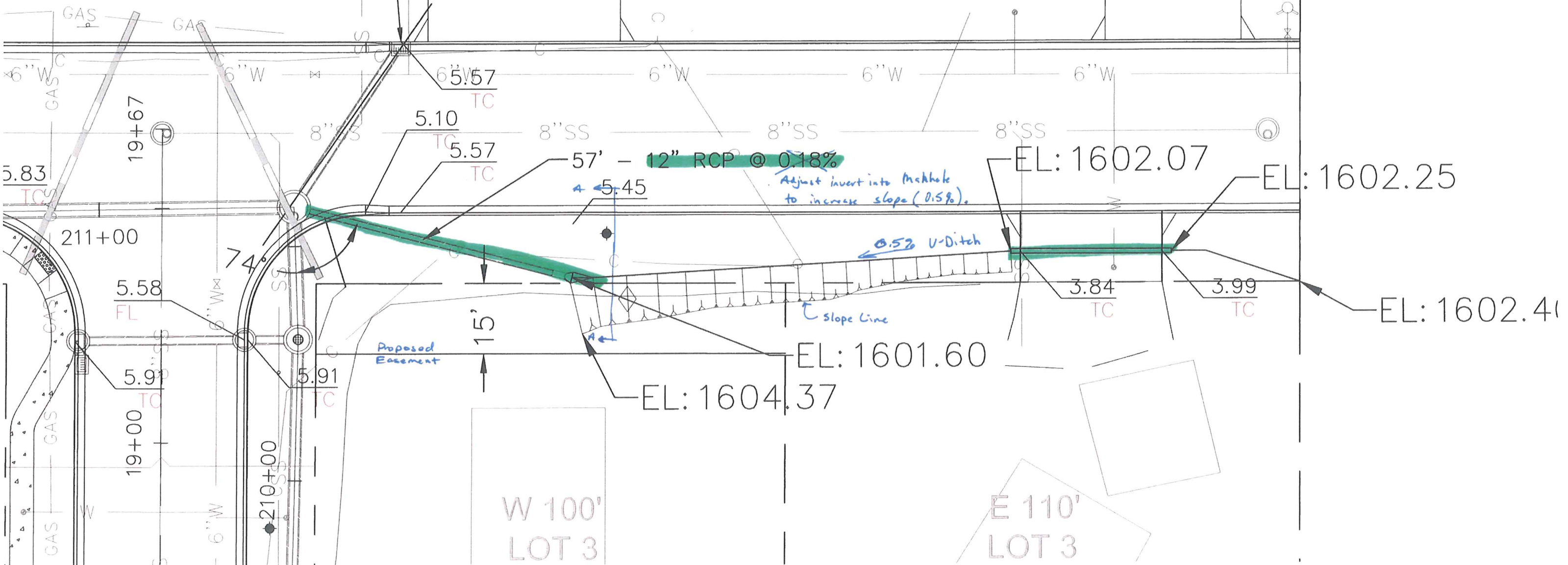
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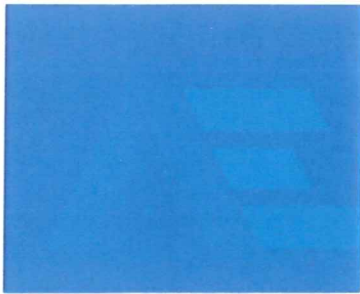
SUB



+ 5 (48.0")
= 211+31.57, 0.0'
= 1605.49
IN = 1596.84 (30")
OUT = 1600.46 (18")
~~OUT = 1596.74 (30")~~

CB 4 (48.0")
STA. = 210+58.42, 41.5' R
RIM = 1605.07
INV. OUT = 1600.34 (18")





1907 17th Street Southeast
Minot, ND 58701
701.837.8737
www.ackerman-estvold.com

October 24, 2015

Mr. Ben Cofell
City of Minot
1025 31st St. SE
Minot, ND 58701

**RE: Change Order #3 – Cost Justification for Storm and Water Pipe Work
Project 3873.1 - 16th Ave, 46th St and 14th Ave SE Rebuild**

This cost justification analysis is provided for additional work to the project that are to be completed by the prime contractor and aren't current bid items. The reason for the additional items is included in the independent cost estimate and change order documents.

Item 1: Storm Sewer & Removal at 14th Ave SE: \$16,163.50

- Mobilization: 1 LS @ \$1,750/LS
- 12" RCP Pipe: 99 LF @ \$87.50/ LF
- 12" RCP FES: 3 EA @ \$1,000/EA
- Modify Existing Storm Structure: 1 LS @ \$625/LS
- Remove Existing Curb & Asphalt: 1 LS @\$425/LS
- Relocate Existing Shrubs: 6 EA @ \$100/EA
- Cl. 29 Bituminous Pavement: 5 Ton @ \$66/EA (Contract Unit Price)
- PG 58-28 Asphalt Cement: 0.3 Ton @ \$570/Ton (Contract Unit Price)
- Type 1 Curb and Gutter: 30 LF @ \$20/LF (Contract Unit Price)

Item 2: Raise Hydrant at 16th Ave SE and Rivers Edge Drive: \$10,445.00

- Mobilization: 1 LS @ \$1,500/LS
- 6" 45 Degree Bend: 2 EA @ \$175/EA
- 6" C-900 Pipe: 20 LF @ \$5/LF
- Sand Bedding: 20 CY @ \$13/CY
- Utility Pipe Crew w/ Supervisor: 0.75 EA @ \$10,980/EA

Item 3: Extend Culvert, Relocate End Section & Riprap: \$9,971.00

- Mobilization: 1 LS @ \$1000/LS
- 24" RCP Pipe: 8 LF @ 92.00/LF (Contract Unit Price)
- Utility Pipe Crew w/ Supervisor: 0.75 EA @ \$10,980/EA

Cost Justification for Individual Items:

- Mobilization: The combined mobilization for all three items is \$4,250.00. Equipment and pipe crew are to be remobilized two separate occasions to the project to complete these items since planned pipe work was completed and equipment removed from the project. The mobilization is 11.6% of the total estimated cost of \$36,579.50 and is acceptable at this percent of total extra work do to the small scale of the work and number of mobilizations.
- 12" RCP Pipe – Proposed Unit Price of \$87.50/LF: Contract unit bid price is \$85.00/LF for 1,732 LF of 18" RCP and \$105/LF for 1,016 LF 24" RCP. In addition, City of Minot Project #3935 has a unit bid price of \$95/LF for 267 LF of 15" RCP Storm Sewer. The price of \$87.50 is accepted based on comparable price to the 15" and 18" RCP and considering the small quantity (99 LF) and less efficient production compared to the other pipe.
- 12" FES – Proposed Unit Price of \$1,000/EA: Contract unit bid price is \$1,250.00/EA for an 18" FES. In addition, City of Minot Project #3935 has a unit bid price of \$1,000/EA for 15" FES. The submitted price of \$1,000/EA is accepted based on comparable price to the 15" and 18" FES prices.
- Bedding Sand – Proposed Unit Price of \$13/CY: Commercial price from local supplier Gravel Products is quoted at \$11.20/Ton plus delivery charge of \$102 per dump truck load. Estimated unit cost for 20 CY of material plus delivery is \$31.20/CY ($\$11.20/\text{Ton} \times 1.875 \text{ Ton/CY} = \$21.00/\text{CY}$ plus 2 loads x $\$102/\text{load} \times 1/20 \text{ CY} = \$10.20/\text{CY}$). Submitted unit price of \$13/CY is accepted based on much lower price compared to commercially available product.
- Modify Existing Storm Structure – Proposed Unit Price of \$625.00/LS: This item requires excavating around an existing storm manhole to cut in an addition 12" RCP lateral. Consider that this requires one trackhoe (\$235/HR) for 1 to 2 hours and a laborer (\$85/HR) and operator (\$85/HR) for 1 to 2 hours each, the submitted price of \$625.00 is between the 1 to 2 hour range of \$405 to \$810 and is acceptable.
- Remove Existing Curb and Asphalt – Proposed Unit Price of \$425.00/LS: This item requires saw cutting and removal of approximately 30 LF of curb and gutter and 25 SY of asphalt removal. The expected equipment and labor includes 1 trackhoe (\$235/HR), 1 dump truck and driver (Unknown Rate), 1 laborer (\$85/HR), and 1 operator (\$85/HR) for 1 to 2 hours. The submitted price of \$425.00/LS is acceptable as the expected cost when considering all equipment and labor would far exceed the submitted price.
- Relocate Existing Shrubs – Proposed Unit Price of \$100/EA: Expected equipment and labor to complete this task is 1 trackhoe (\$235/HR), 1 operator (\$85/HR), and 1 laborer (\$85/HR) for 1 to 1 ½ hour. Related cost would be \$405 to \$607.50. The submitted price of \$100/EA is acceptable based on total cost of \$600 for 6 EA is within the expected cost to complete the work.
- 6" 45 Degree Bend – Proposed Unit Price of \$175/EA: Proposed price is material cost and will be verified by invoice provided by the contractor.
- 6" C-900 Pipe – Proposed Unit Price of \$5/LF: Proposed price is material cost and will be verified by invoice provided by the contractor. Based on the comparable unit prices and the contractor's knowledge of the project, it is recommended that the additional work be authorized via change order to Wagner Construction as the most time and cost effective option.

- The rates were provided by the contractor and used to estimate the amount of costs for lump sum items listed above and also for the utility pipe crew item. Similar rates were accepted by the City of Minot on city project 1st St SE & 33rd Ave SE (see accepted change order from project 6027-028):

Proposed Rates – Minot Rebuild (3873.1)

- Supervisor - \$100/HR
- Labor/Operator – \$85/HR
- Trackhoe – \$235/HR
- Loader – \$150/HR
- Compactor – \$65/HR
- Pick Up & Small Tools – \$25/HR

1st ST & 33rd Ave SE (Project 6027-028)

- Supervisor - \$100/HR
- Labor/Operator – \$85 to \$95/HR
- Backhoe/Dozer – \$250/HR
- Loader – \$175/HR
- Compactor – \$85/HR
- Pick Up & Small Tools – \$25/HR

- Utility Pipe Crew w/ Supervisor – Proposed Unit Price of \$10,980/EA: Items 2 and 3 that have very little material to capture the contractor's cost also include this item. The proposed price of \$10,980/EA is based on the contractor's rates for a pipe crew for one 12-hour day. A pipe crew consists of 1 supervisor, 4 laborers/operations, 1 trackhoe, 1 loader, 1 compactor, and pick up & small tools at the appropriate rates. The total for all equipment and labor based on the provided and accepted rates is than \$10,980 per one 12-hour day. The anticipated time to complete each item is 0.75 days or 9 hours is acceptable based on related work already completed on this project.

After thorough review of the contractor's submitted prices and comparison to related projects and work, it is recommended that the additional work be authorized via change order to Wagner Construction as the most time and cost effective option.

Sincerely,



Timothy Arens, PE
Project Manager
Ackerman-Estvold



Work Change Directive/Work Order

Engineer/Owner: Ackerman-Estvold City of Minn.
 Wagner Project Number/Name: 16th Rebuild (Minor) 3873-1
 Date: October 7, 2015
 Work Change Directive Number: Wagner CO#14 (Revised)

Description of Added/ Modified Works

Additional Storm Sewer & Removals at the intersection of 14th Ave SE & 46th Street SE.

Submitted By:		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Mobilization		1.0	EA	\$1,750.00	\$1,750.00
12" RC Pipe		99.0	LF	\$87.50	\$8,662.50
12" RC FES		3.0	EA	\$1,000.00	\$3,000.00
Modify Existing Storm Structure		1.0	LS	\$625.00	\$625.00
Remove Existing Curb, Black Top & Sawcut		1.0	LS	\$425.00	\$425.00
Relocate Existing Shrubs (Remove Tree)		6.0	EA	\$100.00	\$600.00
* Does not include contract unit items to reinstall Type 1 C&G and the Asphalt (CI 29 item + Asphalt Cement item). This will add to the change order.					
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:				\$15,062.50	*

Wagner Rep.  Date: 10/07/15 Owner Rep: _____ Date: _____

Co #3: Item #2



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Ackerman-Estevold City of Moorhead
16th Rebuild (Minor) #3873 L
October 7, 2015
Wagner CO#15 (Revised)

Description of Added/Modified Work:

Raise Hydrant at 16th Ave Se & Rivers Edge Drive

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estevold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Mobilization		1.0	EA	\$1,500.00	\$1,500.00
6" 45 Degree Bends & accessories		2.0	EA	\$175.00	\$350.00
6" C-900 Pipe		20.0	LF	\$5.00	\$100.00
Sand Bedding		20.00	CY's	\$13.00	\$260.00
Utility Pipe Crew w/ Supervisor		0.75	Day	\$10,980.00	\$8,235.00
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$10,445.00

Wagner Rep. Date: 10/07/15 Owner Rep: Date:



CO #3: Item #3

Work Change Directive/Work Order

Engineer/Owner: Ackerman-Estvold City of Moorhead
Wagner Project Number/Name: 16th Rebuild (MnDOT 2873-1)
Date: September 28, 2015
Work Change Directive Number: Wagner CO#16

Description of Added/ Modified Work:
Culvert Extension at the Frontage Road & 16th Ave
Remove existing riprap and salvage. Remove existing FES. Excavation for pipe extension & shape ditch. Installation of pipe and backfill.
Installation of new fabric and salvaged riprap. Re-topsoil slopes.

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Mobilization		1.0	EA	\$1,000.00	\$1,000.00
24" RC Pipe		8.0	LF	\$92.00	\$736.00
Utility Pipe Crew w/ Supervisor		0.75	Day	\$10,980.00	\$8,235.00
Misc/DumpFees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$9,971.00

Wagner Rep:  Date: 09/28/15 Owner Rep: _____ Date: _____

Tim Arens

Pg. 1 of 2

From: Matt Guerton <m.guerton@wagnerconstructioninc.com>
Sent: Wednesday, October 07, 2015 1:16 PM
To: Tim Arens
Cc: Ben Cofell (ben.cofell@minotnd.org)
Subject: RE: Minot Rebuild (3873.1) - Wagner CO Items
Attachments: PCO#16_Culvert Extension at Frontage Road & 16th Ave_10-07-15.pdf; PCO#14_14th Ave SE Additional Storm Sewer_10-07-15.pdf; PCO#15_Raise Hydrant at 16th Ave & Rivers Edge_10-07-15.pdf

Tim-

I have made some adjustments to the Change Orders per your comments. This is how the actual crew was built. See attached and below. Let me know. You should have justification for everything else.

Super	\$100.00
Labor (4)	\$340.00
Hoe	\$235.00
Loader	\$150.00
Skiddy	\$0.00
Compactor	\$65.00
Small Tools	\$25.00
12 Hr Day	\$915.00
	\$10,980.00

Equipment and Labor Rates for Co #3: Items 2+3

Matt Guerton | Project Manager
Mobile: 218.240.9045 | Fax: 218.283.1043



Wagner Construction, Inc.
3151 Highway 53 Suite 1, International Falls, MN 56649
Main: 218.283.3700 | www.wagnerconstructioninc.com

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From: Tim Arens [<mailto:Tim.Arens@ackerman-estvold.com>]
Sent: Wednesday, September 30, 2015 1:49 AM
To: Matt Guerton
Subject: Minot Rebuild (3873.1) - Wagner CO Items

Matt,

My plan is to include the following three items in one change order since all our yours and include some mobilization that I can group together: pipe on 14th Ave, pipe extension on 16th Ave SE, and the hydrant.

As I went through justify the submitted costs, I need the following items revised, resubmitted, or clarified to get this processed:

- For the hydrant, are the 6” 45 degree bends and 6” C-900 Pipe items the cost of material? I would like to say this is the case and use an invoice to justify the cost. If not, can you revise so it is the cost of material.
- Eliminate per diem. For one it seems to overlap and second it should just be included in other costs.
- The 12” FES is quoted as \$1250.00 which is the same as the contract price for the 15” FES. Just looking at your paving district 493 project, the cost for the 15” FES was \$1000 for this item. Can you get this to \$1000/EA?
- For previous work on this project, the rates shown below were provided. For the \$15,000 per day cost for a utility crew the best I can do is 1 supervisor, 4 laborers/operations, 1 excavator, 1 loader, 1 sheepsfoot compactor, and pick up & small tools at a rate of \$11,160 per 12 hour day. What am I missing to get this up to your desired rate of \$15,000. Again, I would like to leave per diem out of it.
 - Supervisor - \$100/HR
 - Labor/Operator – \$85.00/HR
 - 308 Komatsu Excavator – \$250/HR
 - 228 Komatsu Excavator – \$235/HR
 - 928 Caterpillar Loader – \$150/HR
 - CP433 Caterpillar Sheepsfoot – \$65/HR
 - Pick Up & Small Tools – \$25.00/HR

Please give me a call to discuss how we can get this passed through faster.

Tim Arens, PE
Ackerman-Estvoid
1907 17th Street Southeast
Minot, ND 58701
Ph: (701) 857-9139
Fax: (701) 837-1990

PAY ESTIMA

Page 1 of 2

PAY ESTIMATE #:	2
SUBMITTED:	6/19/2015
BEGIN DATE:	5/16/2015
END DATE:	6/18/2015

Comparable Bid Prices from City of Minot Project 3935

ITEM NO.	DESCRIPTION	UNIT	CONTRACT		CURRENT PAY ESTIMATE		PREVIOUS PAY ESTIMATES		PAY ESTIMATES TO DATE		
			QUANTITY	PRICE	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT		
Original Contract Items											
1	Mobilization, Bonds, Insurance	LS	1	\$ 38,000.00	\$ 38,000.00	0.4	\$ 15,200.00	0.5	\$ 19,000.00	0.9	\$ 34,200.00
2	Temporary Traffic Control	LS	1	\$ 2,500.00	\$ 2,500.00	0.4	\$ 1,000.00	0.5	\$ 1,250.00	0.9	\$ 2,250.00
3	12" Subgrade Preparation	SY	10,297	\$ 2.00	\$ 20,594.00	5,297	\$ 10,594.00	5,000	\$ 10,000.00	10,297	\$ 20,594.00
4	Curb and Gutter (Type 1)	LF	4,457	\$ 20.00	\$ 89,140.00	4,390	\$ 87,800.00			4,390	\$ 87,800.00
5	Valley Gutter	LF	79	\$ 30.00	\$ 2,370.00	79	\$ 2,370.00			79	\$ 2,370.00
6	Geotextile Fabric	SY	10,297	\$ 2.25	\$ 23,168.25	10,297	\$ 23,168.25			10,297	\$ 23,168.25
7	Aggregate Base	TON	7,240	\$ 23.00	\$ 166,520.00	6,618	\$ 152,214.00			6,618	\$ 152,214.00
8	Asphalt Pavement	TON	1,798	\$ 106.00	\$ 190,588.00	927	\$ 98,262.00			927	\$ 98,262.00
9	Bituminous Tack Coat	GAL	882	\$ 5.00	\$ 4,410.00						
10	5 Foot Concrete Sidewalk	SY	1,163	\$ 55.00	\$ 63,965.00	1,216	\$ 66,880.00			1,216	\$ 66,880.00
11	Residential Concrete Driveway Pavement	SY	397	\$ 65.00	\$ 25,805.00	148	\$ 9,620.00			148	\$ 9,620.00
12	Adjust Casting	EA	4	\$ 750.00	\$ 3,000.00						
13	Adjust Gate Valve	EA	9	\$ 250.00	\$ 2,250.00	9	\$ 2,250.00			9	\$ 2,250.00
14	Sign	SF	69	\$ 50.00	\$ 3,450.00						
15	Stabilized Construction Entrance	EA	2	\$ 1,000.00	\$ 2,000.00			2	\$ 2,000.00		\$ -
16	12" Fiber Roll Installation and Removal	LF	1,879	\$ 4.00	\$ 7,516.00			1,500	\$ 6,000.00	1,500	\$ 6,000.00
17	Silt Fence Installation and Removal	LF	538	\$ 4.00	\$ 2,152.00			344	\$ 1,376.00	344	\$ 1,376.00
18	Storm Drain Inlet Protection	EA	21	\$ 75.00	\$ 1,575.00						\$ -
19	Seeding	SY	12,147	\$ 1.25	\$ 15,183.75						\$ -
20	Topsoil Stripping	CY	3,759	\$ 5.00	\$ 18,795.00						\$ -
21	Topsoil Placement	CY	1,546	\$ 2.00	\$ 3,092.00	260	\$ 520.00	260	\$ 1,300.00	260	\$ 1,300.00
22	Common Excavation	CY	1,916	\$ 10.00	\$ 19,160.00			1,916	\$ 19,160.00	1,916	\$ 19,160.00
23	Common Borrow	CY	2,808	\$ 14.00	\$ 39,312.00	287	\$ 4,018.00	200	\$ 2,800.00	487	\$ 6,818.00
24	Remove Fence	LF	472	\$ 3.00	\$ 1,416.00			292	\$ 876.00	292	\$ 876.00
25	15" RCP Storm Sewer	LF	267	\$ 95.00	\$ 25,365.00					257	\$ 24,415.00
26	18" RCP Storm Sewer	LF	1,249	\$ 100.00	\$ 124,900.00			1,249	\$ 124,900.00	1,249	\$ 124,900.00
27	24" Catch Basin	EA	2	\$ 2,500.00	\$ 5,000.00			2	\$ 5,000.00	2	\$ 5,000.00
28	36" x 24" Catch Basin	EA	5	\$ 3,000.00	\$ 15,000.00			5	\$ 15,000.00	5	\$ 15,000.00
29	15" Flared End Section	EA	1	\$ 1,000.00	\$ 1,000.00			1	\$ 1,000.00	1	\$ 1,000.00
30	48" Catch Basin Manhole	EA	9	\$ 4,500.00	\$ 40,500.00			9	\$ 40,500.00	9	\$ 40,500.00
31	48" Junction Manhole	EA	1	\$ 6,000.00	\$ 6,000.00			1	\$ 6,000.00	1	\$ 6,000.00
32	Remove CMP	LF	92	\$ 10.00	\$ 920.00	60	\$ 600.00	32	\$ 320.00	92	\$ 920.00
33	Connect to Existing Structure	EA	2	\$ 2,000.00	\$ 4,000.00			2	\$ 4,000.00	2	\$ 4,000.00
34	Raise Existing Structure	EA	1	\$ 1,500.00	\$ 1,500.00	1	\$ 1,500.00			1	\$ 1,500.00
35	100 HPS Post Top Luminaire (240-Volt)	EA	11	\$ 2,800.00	\$ 30,800.00						\$ -
36	250W HPS Cobra Head Luminaire (240-Volt)	EA	2	\$ 3,500.00	\$ 7,000.00						\$ -
37	Underground Conductor Style Use - No. 2	LF	720	\$ 4.00	\$ 2,880.00						\$ -
38	Underground Conductor Style Use - No. 4	LF	5,700	\$ 2.00	\$ 11,400.00						\$ -
39	Underground Conductor Style Use - No. 6	LF	2,670	\$ 1.00	\$ 2,670.00						\$ -
40	Trenching	LF	3,200	\$ 3.50	\$ 11,200.00						\$ -
41	Electrical Feed Point and Pedestal	EA	1	\$ 9,000.00	\$ 9,000.00						\$ -
42	2" PVC Conduit	LF	580	\$ 2.00	\$ 1,160.00						\$ -

Spec. No.	Item No.	Description	Quantity	Unit	Unit Price	Subtotal (Quantity x Unit Price)
	34.	72" Storm Sewer Manhole	2	EA	\$6,000.00	\$12,000.00
	35.	30" Round Inlet	2	EA	\$2,000.00	\$4,000.00
	36.	48" Round Inlet	10	EA	\$3,000.00	\$30,000.00
	37.	60" Round Inlet	3	EA	\$5,000.00	\$15,000.00
	38.	18" RCP Cl. III Storm Drain	1,732	LF	\$85.00	\$147,220.00
	39.	24" RCP Cl. III Storm Drain	1,026	LF	\$92.00	\$94,392.00
	40.	30" RCP Cl. III Storm Drain	1,016	LF	\$105.00	\$106,680.00
	41.	End Section - Conc. Reinf 18"	1	EA	\$1,250.00	\$1,250.00
	42.	End Section - Conc. Reinf 30"	1	EA	\$1,750.00	\$1,750.00
	43.	Polystyrene Insulation Board	704	BD FT	\$2.00	\$1,408.00
	44.	Rip Rap	28	TON	\$75.00	\$2,100.00
		<u>Sanitary Sewer Items</u>				
	45.	Adjust Manhole - Type 1	7	EA	\$650.00	\$4,550.00
	46.	Adjust Manhole - Type 2	3	EA	\$650.00	\$1,950.00
	47.	4" Sanitary Sewer Service, Complete w/ Cleanout	1	EA	\$2,500.00	\$2,500.00
		<u>Water Items</u>				
	48.	Connect to Existing Water Main	9	EA	\$3,500.00	\$31,500.00
	49.	6" PVC Water Main	36	LF	\$70.00	\$2,520.00
	50.	8" PVC Water Main	117	LF	\$70.00	\$8,190.00
	51.	12" PVC Water Main	2,033	LF	\$73.00	\$148,409.00
	52.	6" Gate Valve & Box	5	EA	\$1,300.00	\$6,500.00
	53.	8" Gate Valve & Box	1	EA	\$1,800.00	\$1,800.00
	54.	12" Gate Valve & Box	7	EA	\$3,500.00	\$24,500.00
	55.	8" DI Bend	1	EA	\$350.00	\$350.00
	56.	12" DI Bend	1	EA	\$650.00	\$650.00
	57.	8" DI Tee	2	EA	\$500.00	\$1,000.00
	58.	12"x6" DI Tee	4	EA	\$700.00	\$2,800.00
	59.	12"x8" DI Tee	1	EA	\$750.00	\$750.00
	60.	12" DI Tee	2	EA	\$850.00	\$1,700.00
	61.	12"x6" DI Reducer	2	EA	\$350.00	\$700.00
	62.	12"x8" DI Reducer	1	EA	\$400.00	\$400.00
	63.	1" Water Service, Complete w/ Curb Stop	5	EA	\$2,500.00	\$12,500.00
	64.	18" Steel Casing Pipe	200	LF	\$295.00	\$59,000.00
	65.	Remove Hydrant	3	EA	\$250.00	\$750.00
	66.	Remove Gate Valve and/or Box	5	EA	\$100.00	\$500.00
	67.	Remove DI Tee	1	EA	\$100.00	\$100.00
	68.	Remove DI Cross	1	EA	\$100.00	\$100.00
		SUBTOTAL				\$729,519.00

Change Order

No. 1

Date of Issuance: 7/2/2015 Effective Date: 7/6/2015

Project: 33 rd Ave & 1 st St SE	Owner: City of Minot	Owner's Contract No.: 4774
Contract: 33 rd Ave & 1 st St SE Improvements		Date of Contract: 4/16/2015
Contractor:		Engineer's Project No.: 6027-028

The Contract Documents are modified as follows upon execution of this Change Order:

Description:
Various extra work items described on the attached sheet

Attachments (list documents supporting change):

Description of extra work items; Wagner Construction price breakdown for extra work items

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES: N/A
Original Contract Price:	Original Contract Times: <input type="checkbox"/> Working days <input type="checkbox"/> Calendar days
\$ <u>928,533.86</u>	Substantial completion (days or date): _____
	Ready for final payment (days or date): _____

[Increase] [Decrease] from previously approved [Increase] [Decrease] from previously approved Change Orders

Change Orders No. <u> </u> to No. <u> </u> :	No. <u> </u> to No. <u> </u> :
\$ <u>0</u>	Substantial completion (days): _____
	Ready for final payment (days): _____

Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
\$ <u>928,533.86</u>	Substantial completion (days or date): _____
	Ready for final payment (days or date): _____

[Increase] [Decrease] of this Change Order:	[Increase] [Decrease] of this Change Order:
\$ <u>28,253.00</u>	Substantial completion (days or date): _____
	Ready for final payment (days or date): _____

Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders:
\$ <u>956,786.86</u>	Substantial completion (days or date): _____
	Ready for final payment (days or date): _____

RECOMMENDED: By: <u>[Signature]</u> Engineer (Authorized Signature)	ACCEPTED: By: <u>[Signature]</u> Owner (Authorized Signature)	ACCEPTED: By: <u>[Signature]</u> Contractor (Authorized Signature)
Date: <u>7-13-15</u>	Date: <u>7/15/15</u>	Date: <u>7-7-15</u>

Approved by Funding Agency (if applicable):

Date: _____

Item 2 – Conflict with CB #41, at approximately station 9+00, and underground power lines servicing street lights. Power lines were relocated behind inlet in order to construct storm inlet. See attached work order from Wagner for cost breakdown.

Cost for item 2: \$1,897.50

Item 3 – Storm system connection to existing manhole, at approximately station 1+50, conditions were different than shown on plan. Plan conditions shown were based on design by others as system was not constructed at time of design. Additional work required to make connection. See attached work order from Wagner for cost breakdown.

Cost of item 3: \$1,335.00

Item 4 - Conflict with CB #2, at approximately station 4+60, and underground power lines servicing street lights. Power lines were relocated behind inlet in order to construct storm inlet. See attached work order from Wagner for cost breakdown.

Cost for item 4: \$1,267.50

Item 5 – Water service line to Home Depot conflict with storm pipe, at approximately station 9+40. Water service line adjusted vertically to allow storm pipe to be constructed on grade. See attached work order from Wagner for cost breakdown.

Cost for item 5: \$8,693.00

Item 6 – Grade adjustment of sanitary manholes at approximately stations 2+75 and 12+40 could not be adjusted to grade by removal of rings due to elevation difference required and configuration of manhole construction. Grade adjustments made by replacing manhole barrel and cone sections as necessary. Work also includes the installation of chimney seals on all sanitary manhole per City specifications. See attached work order from Wagner for cost breakdown.

Cost for item 6: \$6,850.00

Item 7 – A trench drain is required to convey runoff from the Home Depot parking lot to 33rd Ave. at approximately station 2+40. No bid item was provided for the trench drain. See attached work order from Wagner for cost breakdown.

Cost for item 7: \$8,210.00



Work Change Directive/Work Order

Engineer/Owner	Houston Engineering
Wagner Project Number/Name	1st St SE & 33rd Ave SE
Date:	May 29, 2015
Work Change Directive Number:	2

Description of Added/ Modified Work:

Existing power lines where located at the same position as proposed CB Inlet #4. Wagner supervisor instructed crew to excavate back 10' on both sides to adjust location of power lines.

Station 9+00

Submitted By		Work Requested By:				
Matt Guerton		Houston Engineering				
Description Labor:	# Men	Qty.	Units	Rate	Total Hours	
Supervisor	1	1.5	HR	\$100.00	\$150.00	
Labor/Operator	5	7.5	HR	\$85.00	\$637.50	
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total	
345 Caterpillar Excavator	245	1.5	HR	\$275.00	\$412.50	
228 Komatsu Excavator	223	1.5	HR	\$175.00	\$262.50	
930 Caterpillar Loader	412	1.5	HR	\$150.00	\$225.00	
CP433 Caterpillar Sheepsfoot	515	1.5	HR	\$65.00	\$97.50	
D4 Caterpillar Dozer	340	1.5	HR	\$75.00	\$112.50	
Description Materials:		Qty.	Units	Unit Price	Total	
Description of Items Installed		Qty.	Units	Unit Price	Total	
Subcontractors		Qty.	Units	Unit Price	Total	
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total	
Total:					\$1,897.50	

Wagner Rep.

Date:

Owner Rep:

Date:



Work Change Directive/Work Order

Engineer/Owner	Houston Engineering
Wagner Project Number/Name	1st St SE & 33rd Ave SE
Date:	May 30, 2015
Work Change Directive Number:	

Description of Added/ Modified Work:

Existing storm sewer bulk heads. Removed RCP and Aprons

Station 1+50

Submitted By:		Work Requested By:			
Matt Guerton		Houston Engineering			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Supervisor	1	2.0	HR	\$100.00	\$200.00
Labor/Operator	2	4.0	HR	\$85.00	\$340.00
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
345 Caterpillar Excavator	245	2.0	HR	\$275.00	\$550.00
CP433 Caterpillar Sheepsfoot	515	2.0	HR	\$65.00	\$130.00
Description Materials:		Qty.	Units	Unit Price	Total
Spec Mix Mortar		2.0	EA	\$20.00	\$40.00
6"x12" Concrete Block		15.0	EA	\$5.00	\$75.00
Description of Items Installed		Qty.	Units	Unit Price	Total
Subcontractors		Qty.	Units	Unit Price	Total
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
				Total:	\$1,335.00

Wagner Rep.

Date:

Owner Rep:

Date:

White/Owner-Engineer Yellow/Wagner Office Pink/Wagner Foreman



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Houston Engineering
1st St SE & 33rd Ave SE
May 30, 2015
4

Description of Added/Modified Work:

Existing power lines where located at the same position as proposed CB Inlet #2. Wagner supervisor instructed crew to excavate back 10' on both sides to adjust location of power lines.

Station 9+00

Submitted By:		Work Requested By:				
Matt Guerton		Houston Engineering				
Description Labor:		# Men	Qty.	Units	Rate	Total Hours
Supervisor		1	1.5	HR	\$100.00	\$150.00
Labor/Operator		3	4.5	HR	\$85.00	\$382.50
Description Equipment:		Unit#	Qty.	Units	Unit Price	Total
345 Caterpillar Excavator		245	1.5	HR	\$275.00	\$412.50
930 Caterpillar Loader		412	1.5	HR	\$150.00	\$225.00
CP433 Caterpillar Sheepsfoot		515	1.5	HR	\$65.00	\$97.50
Description Materials:			Qty.	Units	Unit Price	Total
Description of Items Installed			Qty.	Units	Unit Price	Total
Subcontractors			Qty.	Units	Unit Price	Total
Misc/Dumpfees/Survey/Q/C Testing/			Qty.	Units	Unit Price	Total
Total:						\$1,267.50

Wagner Rep.

Date: _____ Owner Rep:

Date:



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Houston Engineering
1st St SE & 33rd Ave SE
May 31, 2015
5

Description of Added/ Modified Work:

Replace existing water service to Home Depot. Water service needed to be lowered in order for the storm sewer to maintain proper grade.

Submitted By:		Work Requested By:			
Matt Guerton		Houston Engineering			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Supervisor	1	6.0	HR	\$100.00	\$600.00
Labor/Operator	5	30.0	HR	\$85.00	\$2,550.00
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
345 Caterpillar Excavator	245	6.0	HR	\$275.00	\$1,650.00
228 Komatsu Excavator	223	6.0	HR	\$175.00	\$1,050.00
930 Caterpillar Loader	412	6.0	HR	\$150.00	\$900.00
CP433 Caterpillar Sheepsfoot	515	1.0	HR	\$65.00	\$65.00
D4 Caterpillar Dozer	340	1.0	HR	\$75.00	\$75.00
Description Materials:		Qty.	Units	Unit Price	Total
(2) 4'x8' Insulation Foam Board		64.0	SF	\$2.00	\$128.00
2" Copper Water Service (60 LF)		1.0	Roll	\$1,425.00	\$1,425.00
Sand Bedding		10.0	CY	\$20.00	\$200.00
Curb Stand		1.0	EA	\$50.00	\$50.00
Description of Items Installed		Qty.	Units	Unit Price	Total
Subcontractors		Qty.	Units	Unit Price	Total
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
				Total:	\$8,693.00

Wagner Rep.

Date: _____ Owner Rep: _____

Date:

White/Owner-Engineer Yellow/Wagner Office Pink/Wagner Foreman



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Houston Engineering
1st St SE & 33rd Ave SE
June 15, 2015
6

Description of Added/ Modified Work:

Existing sanitary manholes are to high. Shorter cone sections will need to be installed. (Sta - 2+75 & 12+40)

In addition to the shorter a cone installation, a 1' barrel section will need to be removed and disposed of to make the proper adjustments (Sta - 2+75)

Installation of chimney seals on all existing sanitary sewer manholes

Note: Work Order Prices do not extinguish bid item 31. Bid item 31 to be paid in full upon completion

Submitted By		Work Requested By:			
Matt Guerton		Houston Engineering			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Description of Items Installed		Qty.	Units	Unit Price	Total
3' Sanitary Manhole Cone Section		2.0	EA	\$1,000.00	\$2,000.00
External Chimney Seals		6.0	EA	\$750.00	\$4,500.00
Subcontractors		Qty.	Units	Unit Price	Total
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Disposal of Existing 4' Cones & 1' Barrel Section		1.0	EA	\$350.00	\$350.00
Total:					\$6,850.00

Wagner Rep.

Date:

Owner Rep:

Date:



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Houston Engineering
1st St SE & 33rd Ave SE
July 1, 2015
6

Description of Added/ Modified Work:

Trench Drain Quotation per Houston Engineering email (06/23/15), Doug Dilliplane

Plans attached in email

Submitted By		Work Requested By:			
Matt Guerton		Houston Engineering			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Installation of Neenah 4999 EX -Type D		15.0	LF	\$384.00	\$5,760.00
Saw Cutting, Excavation, Subgrade Prep, & Gravel		1.0	LS	\$2,350.00	\$2,350.00
Description of Items Installed		Qty.	Units	Unit Price	Total
Subcontractors		Qty.	Units	Unit Price	Total
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Disposal of Concrete Curb		1.0	LS	\$100.00	\$100.00
				Total:	\$8,210.00

Wagner Rep.

Date:

Owner Rep:

Date:

White/Owner-Engineer Yellow/Wagner Office Pink/Wagner Foreman