

**Change Order No. Three (3)**

Date of Issuance: October 1, 2015

Effective Date: October 1, 2015

Owner: City of Minot

Owner's Contract No.: 3608

Contractor: Strata Corporation

Contractor's Project No.:

Engineer: HMjv

Engineer's Project No.: 7926-001

Project: Downtown Infrastructure Improvements Project –  
Phase 1

Contract Name:

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

## Description:

1. Add new item to Schedule D: "Item 17 – 8" Restrained Joint PVC Sanitary Sewer Main on 2<sup>nd</sup> Ave SE installed via HDD Methods" at a lump sum cost of \$81,919.00.
2. Add new drawing Sheet SS-8A to the contract documents.
3. All other related work shown on drawing Sheet SS-8A that is required to complete new Item D-17 shall be measured and paid for based on contract unit prices.
4. Add 7 days' time to the 20 day restriction on 3<sup>rd</sup> Street traffic closure.
5. Incorporate work pertaining to Item D-17/Sheet SS-8A as part of Contract Milestone No. 3.

## Attachments:

1. Contractor's request for Change Order correspondence with Engineer's review and recommendation to Owner with supporting documentation.
2. Drawing Sheet SS-8A.

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price:	Original Contract Times:
	Milestone #1 Substantial Completion: <u>July 15, 2015</u>
	Milestone #2 Substantial Completion: <u>August 15, 2015</u>
	Milestone #3 Substantial Completion: <u>November 14, 2015</u>
	Ready for Final Payment: <u>December 19, 2015</u>
<u>\$ 14,395,218.10</u>	
Increase from previously approved Change Orders No. <u>1</u> to No. <u>2</u> :	Increase from previously approved Change Orders No. <u>1</u> to No. <u>2</u> :
	Milestone #1 Substantial Completion: <u>9 days</u>
	Milestone #2 Substantial Completion: <u>9 days</u>
	Milestone #3 Substantial Completion: <u>9 days</u>
	Ready for Final Payment: <u>9 days</u>
<u>\$ 58,663.91</u>	

Contract Price prior to this Change Order:  \$ <u>14,453,882.01</u>	Contract Times prior to this Change Order: Milestone #1 Substantial Completion: <u>July 24, 2015</u> Milestone #2 Substantial Completion: <u>August 24, 2015</u> Milestone #3 Substantial Completion: <u>November 23, 2015</u> Ready for Final Payment: <u>December 28, 2015</u>
<u>Increase</u> of this Change Order:  \$ <u>81,919.00</u>	Increase of this Change Order: Milestone #1 Substantial Completion: <u>0 days</u> Milestone #2 Substantial Completion: <u>0 days</u> Milestone #3 Substantial Completion: <u>7 days</u> Ready for Final Payment: <u>7 days</u>
Contract Price incorporating this Change Order:  \$ <u>14,535,801.01</u>	Contract Times with all approved Change Orders: Milestone #1 Substantial Completion: <u>July 24, 2015</u> Milestone #2 Substantial Completion: <u>August 24, 2015</u> Milestone #3 Substantial Completion: <u>November 30, 2015</u> Ready for Final Payment: <u>January 4, 2016</u>

RECOMMENDED:		ACCEPTED:		ACCEPTED:	
By: <u>R. D. O'Shea</u>	By: <u>[Signature]</u>	By: <u>[Signature]</u>			
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)			
Title: <u>Project Manager</u>	Title: <u>City Engineer</u>	Title: <u>Project Manager</u>			
Date: <u>10/2/2015</u>	Date: <u>10/2/15</u>	Date: <u>10/2/2015</u>			

# Strata Corporation

1226 South Broadway Minot, ND 58701

office: 701.852.4560 fax: 701.852.9202

## Proposal

Proposal Submitted to Address:	Phone:	Date:
City of Minot		10/01/15
C/O Houston Engineering	e-mail:	Attention:
		Dave O'Shea

Project: **Minot Downtown Infrastructure Project - 2nd Ave SE Sanitary Sewer**

Strata Corporation is pleased to submit the following proposal based upon the information we've received.

### 2nd Ave SE Sanitary Sewer 53+30 to 58+70 ... \$ 141,823.00

Sawcut, remove & replace asphalt, curb & gutter & sidewalk as required at new manhole  
Excavate to designed depths as required for 2 large bore pits and access to existing manholes include trench boxes  
Furnish & Install new manhole & casting at 53+34.49  
Furnish & Install new 8" SDR 21 Certa Flo pipe  
Includes approx. 527 lf of directional drill - pull / place new pipe  
Connection to the new manhole and 2 existing manholes

Survey - bore grade stakes every 10' will be furnished by Houston engineering  
If rock encountered is significant, additional mud mixing may be required to provide a clean enough hole to pull pipe  
We will do all we can to avoid this but we may request payment for these additional mud mixing charges.

Note: There is concern with the ability to pull this pipe, this length. Our best competent efforts will be used to complete.  
Strata will not be held responsible for a failed bore due to rocky soils or pipe connection failure.

Add 7 days to the 20 day restriction on 3rd St. closure to adjust for this work scope

### General Notes:

Proposal valid for 60 days.

Payment due within 30 days of invoice.

All past due accounts assessed a service fee of 18% annually or 1.5% monthly

All material is guaranteed to be as specified and all work to be completed in a workmanlike manner according to standard practices. All agreements contingent upon strikes, accidents or delays

beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are

fully covered by Workers Compensation Insurance.

### Acceptance of Proposal

Date of Acceptance:

Proposal Submitted By:

Kelly D Perlichek - Estimator

The above prices, specifications, and conditions are satisfactory and are hereby accepted.

You are authorized to do the work as specified. Payment will be made as outlined above.

Signature

X

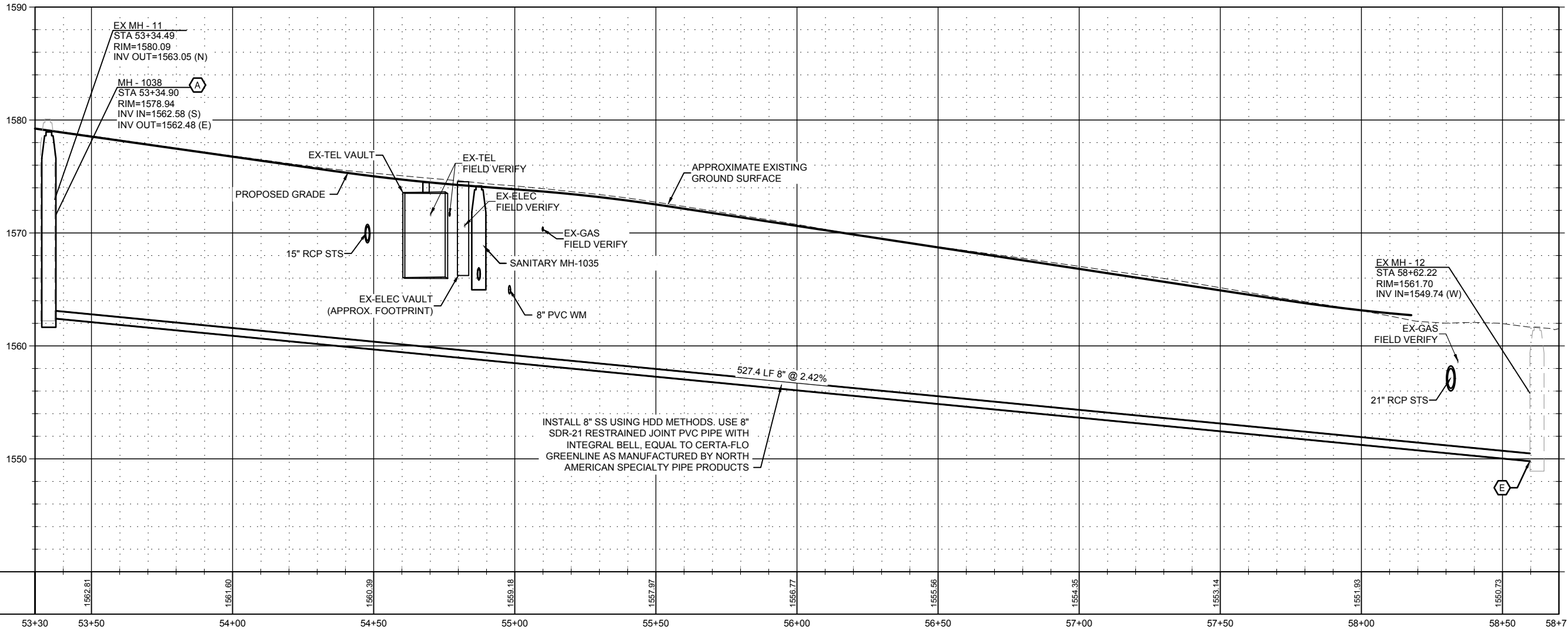
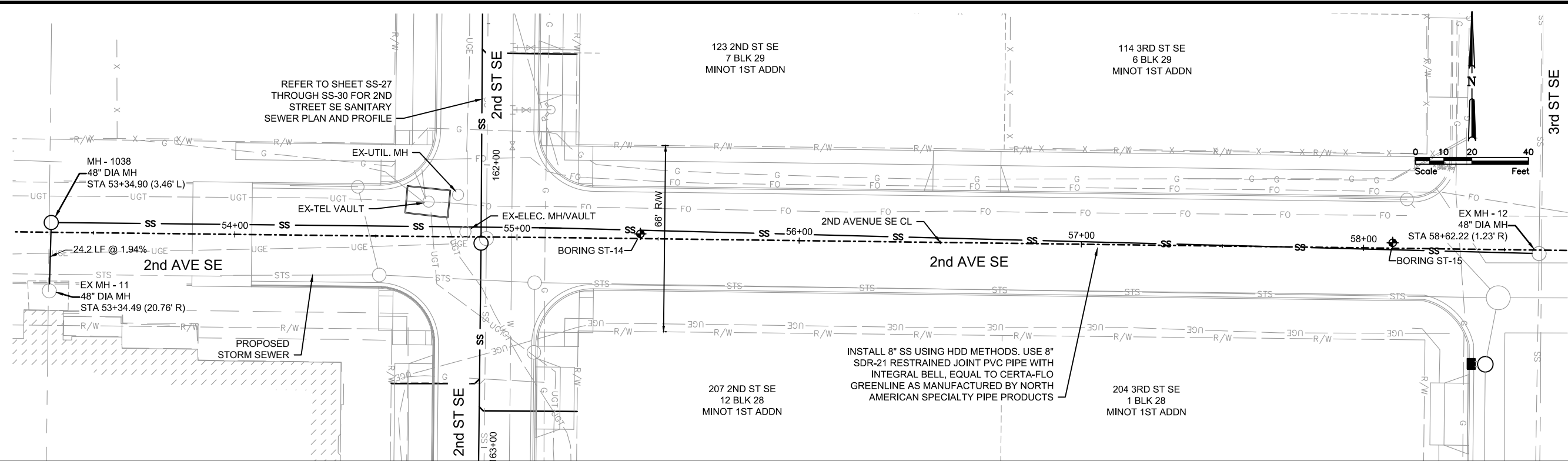
**Downtown Minot - Vault  
2nd Ave SE Sanitary Sewer**

**Breakdown**

	Quantity	Unit	Unit Price	Total
1 Sawcut Pavement full depth <i>Includes 246 lf asphalt sawcut &amp; 24 lf concrete sawcut</i>	270	LF	\$ 9.00	\$2,430.00
2 Asphalt Removals 33' x 90'	330	SY	\$ 16.00	\$5,280.00
3 Subgrade Prep under asphalt	330	SY	\$ 4.30	\$1,419.00
4 Fabric under asphalt	330	SY	\$ 15.00	\$4,950.00
5 Base under asphalt	330	SY	\$ 13.00	\$4,290.00
6 Replace & Patch Asphalt	330	SY	\$ 63.50	\$20,955.00
7 Curb & Gutter Removal	30	LF	\$ 6.80	\$204.00
8 Curb & Gutter Hand form Replace	30	LF	\$ 80.00	\$2,400.00
9 Sidewalk Removal 30' x 10'	33	SY	\$ 8.00	\$264.00
10 Subgrade Prep under sidewalk	33	SY	\$ 2.00	\$66.00
11 4" base under sidewalk	33	SY	\$ 7.50	\$247.50
12 Replace sidewalk	33	SY	\$ 73.00	\$2,409.00
13 Install 48" manhole 10' depth - Tom's	1	EA	\$ 6,600.00	\$6,600.00
14 Install 48" manhole additional depth - Tom's	8	LF	\$ 200.00	\$1,600.00
15 San. sewer connection to existing manhole - Tom's	2	EA	\$ 2,800.00	\$5,600.00
16 Street Sweeping	2	HR	\$ 190.00	\$380.00
17 Traffic Control - Type 3 barricade	6	EA	\$ 135.00	\$810.00
18 Excavation / Backfill of 2 bore pits - Tom's <i>Includes trench box &amp; safety fence</i>	1	LS	\$ 8,360.00	\$8,360.00
19 Pipe Handling and placement into pit - Tom's <i>Includes equipment to move &amp; lower into pit</i>	1	LS	\$ 6,120.00	\$6,120.00
20 Directional Drill 8" sanitary sewer pipe - Stellar <i>Includes hydrovac for locates and drill mud evacuation, Includes 600 lf of 8" SDR-21 restrained joint pvc pipe by certa-flo</i>	527	LF	\$ 98.00	\$51,646.00
21 Directional Drill Support - Strata <i>Includes Strata full time supervision, communications pit to pit and project management</i>	1	LS	\$ 7,800.00	\$7,800.00
22 10% markup on subs <i>\$ 79,926 x 10% = \$ 7,993</i>	1	LS	\$ 7,993.00	\$7,993.00
<b>Total</b>				<b>\$141,823.50</b>

*\$81,919  
DJO*

H:\Bismarck\B\N\7926-001 Minot Downtown Redevelopment\CAD\PLAN SET\PHASE 1\SANITARY SEWER PLAN AND PROFILES\WDRPSS02-8.dwg-SS-8A-9/1/2015 4:40 PM-laschmitt



**KEY PLAN**

**GENERAL SHEET NOTES**

- SEE SHEET G-2 AND G-3 FOR OVERALL SHEET INDEX
- PROFILE STATIONING BASED ON CENTERLINE ALIGNMENT OF ROADWAY
- FOR CLARITY PURPOSES EXISTING SANITARY SEWER IS ONLY SHOWN WITHIN PROPOSED SANITARY SEWER PLANS AND PROFILES. REFER TO W AND SDS SHEETS FOR WATER AND STORM SEWER DESIGN PROFILES RESPECTIVELY
- LINEAR FOOTAGE (LF), SLOPES, AND INVERTS OF SANITARY SEWER PIPES AS SHOWN ON DRAWINGS ARE CALCULATED HORIZONTALLY FROM CENTERLINE OF MANHOLE TO CENTERLINE OF MANHOLE
- CONTRACTOR SHALL FIELD VERIFY MH INVERT PRIOR TO INSTALLING ALL UPSTREAM AND/OR DOWNSTREAM SANITARY SEWER
- ALL EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED
- ALL EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY AND ALL UTILITIES WITHIN THE PROJECT AREA MAY NOT BE SHOWN. CONTRACTOR MUST FIELD VERIFY AND POTHOLE PRIOR TO CONSTRUCTION
- CONTACT MDU GAS COMPANY FOR STANDBY WHEN EXCAVATING OVER OR NEAR GAS LINES
- CONTRACTOR SHALL REPLACE AND CONNECT ANY AND ALL ACTIVE SEWER SERVICE LATERALS INTO NEW PIPE PER DETAIL C-100. CONTRACTOR SHALL PROVIDE, AT LEAST, ONE SEWER SERVICE LATERAL PER PARCEL FOR ALL STREETS WITH SANITARY SEWER. ALL SEWER SERVICE LATERALS SHALL BE 6" UNLESS NOTED OTHERWISE
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BYPASS PUMPING REQUIRED DURING CONSTRUCTION PER CITY OF MINOT STANDARD SPECIFICATIONS SECTION 2300
- REMOVE EXISTING SEWER WHERE IT CONFLICTS WITH NEW SEWER. ABANDON IN PLACE WHERE IT DOES NOT CONFLICT WITH NEW SEWER.

**SHEET KEYNOTES**

- A. INSTALL SANITARY SEWER MANHOLE PER DETAIL C-200
- D. INSTALL PVC PIPE PER DETAIL C-104
- E. PROTECT IN PLACE MH. CORE NEW OPENING, INSTALL FLEXIBLE RUBBER BOOT PER CITY OF MINOT STANDARD SPECIFICATION SECTION 2300 AND GROUT ANGULAR SPACE, CUT AND REGROUT FLOW CHANNELS TO MATCH NEW INCOMING PIPE
- L. CONTRACTOR SHALL PROTECT IN PLACE EXISTING PRIVATE UTILITY. SUPPORT PER AGENCY REQUIREMENTS

No.	Revision	Date	By

Drawn by  
TP

Checked by  
DO

Date  
8-31-15

Scale  
AS SHOWN

DOWNTOWN INFRASTRUCTURE  
IMPROVEMENT PROJECT PHASE 1  
CITY OF MINOT, NORTH DAKOTA

SANITARY SEWER PLAN & PROFILE  
2ND AVE SW STA 53+30 TO 58+70  
CITY PROJECT NO. 3608

SS-8A  
SHEET  
36 of 236

**Minot Downtown Infrastructure Improvements Project - Phase 1**

Change Order 3 - Install 8" Sanitary Sewer via HDD on 2nd Ave SE

HMjv Independent Estimate - New Item D-17

**Underground Sub - Materials**

8" RJ PVC (Certa-Flo) Pipe	560	LF	\$	12.00	\$	6,720.00
8" SDR-35 PVC Sewer Pipe	56	LF	\$	8.00	\$	448.00
8" Fernco Coupling	2	EA	\$	75.00	\$	150.00
Subtotal Materials					\$	7,318.00
7.5% Sales Tax					\$	548.85
Freight					\$	500.00
Total Materials					\$	8,366.85

**Underground Sub - Labor**

Operator	20	HR	\$	35.00	\$	700.00
Operator OT	8	HR	\$	52.50	\$	420.00
Pipe Layer	8	HR	\$	28.00	\$	224.00
Pipe Layer OT	2	HR	\$	42.00	\$	84.00
Subtotal Labor					\$	1,428.00
40% Labor Burden					\$	571.20
Total UG Sub Labor					\$	1,999.20

**Underground Sub - Equipment**

Hydraulic Excavator	16	HR	\$	200.00	\$	3,200.00
Hydraulic Excavator w/Hydra-Compactor Plate	8	HR	\$	250.00	\$	2,000.00
Sheepsfoot Compactor	4	HR	\$	125.00	\$	500.00
Trench Box (each end)	8	Day	\$	350.00	\$	2,800.00
Underground Crew Tool Van	4	Day	\$	250.00	\$	1,000.00
Superintendent Pickup	4	Day	\$	100.00	\$	400.00
Total UG Sub Equipment					\$	9,900.00

**Subtotal Underground Subcontractor** **\$ 20,266.05**

**HDD Subcontractor**

HDD Drig Rig, Fully Equipped with Crew	4	Day	\$	7,500.00	\$	30,000.00
HDD equipment and crew mob/demob	1	EA	\$	3,500.00	\$	3,500.00

**Subtotal HDD Subcontractor** **\$ 33,500.00**

Add 20% Subcontractor Overhead & Profit \$ 10,753.21

**Total Subcontractors** **\$ 64,519.26**

**Prime Contractor - Labor**

Superintendent	16	HR	\$	40.00	\$	640.00
Project Manager	8	HR	\$	35.00	\$	280.00
Traffic Control Coordinator	8	HR	\$	20.00	\$	160.00
Subtotal Labor					\$	1,080.00
40% Labor Burden					\$	432.00
Total Prime Contractor Labor					\$	1,512.00

**Prime Contractor - Equipment**

Hydro-Vac Truck w/operator	16	HR	\$	250.00	\$	4,000.00
Drilling Fluid Disposal at Landfill	1	EA	\$	600.00	\$	600.00
Superintendent Pickup	2	Day	\$	100.00	\$	200.00
Total Prime Contractor Equipment					\$	4,800.00

**Prime Contractor Markup**

Add 20% OH & Profit on Prime Contractor Labor & Equipment \$ 1,262.40

Add 15% Overhead & Profit on Subcontractors \$ 9,677.89

**TOTAL CHANGE ORDER ESTIMATE - ITEM D-17** **\$ 76,971.55**



## Dave O'Shea

---

**From:** Dave O'Shea  
**Sent:** Thursday, October 01, 2015 8:06 AM  
**To:** lance.meyer@minotnd.org  
**Cc:** Dave Schwengler; Kody Jacobsen; Kevin Martin; Stan Hanson  
**Subject:** FW: 2nd Ave Sanitary Sewer Installation  
**Attachments:** Minot Downtown - 2nd Ave SE Sanitary Sewer.pdf

Lance,

Attached is Strata's proposal for the 2<sup>nd</sup> Ave SE sanitary sewer service for the Central Campus sub-basement. Upon review:

1. Items 1-17 on the breakdown are currently in the contract, so that work would be measured and paid for based on contract unit prices. The unit prices shown are correct.
2. Item 20, for the actual drilling, is on the high side of reasonable; but given that the work is needed immediately, the presence of existing utilities, containing drilling fluid in an urban (institutional) environment, and the reported uneasiness of drilling contractors being able to successfully drill downtown with the fear of conflicts with loose rock, I don't think a cheaper price can be secured at this time of year.
3. I have discussed with Andy the high cost for their item 19. This covers Tom's crew time for pipe handling and assembly during pull-back. The specified Certa-Flo pipe connects very quickly with only one joint spline and the pipe is relatively light weight. The total time for this task should be related to the pipe pull back time, which we anticipate would be less than a day assuming that the borehole maintains its integrity during the pull back. Andy indicated he would check with Tom.
4. Strata's markup on work completed by subs is reasonable. Andy indicated that the HDD contractor (Stellar) will be a first tier sub so they will be in direct control.

To be able to complete the work, Strata needs to get the pipe ordered. If Strata does not reduce the LS cost for item 19 today, in lieu of issuing a change order today, we can issue a Work Change Directive based on non-agreement on contract price and necessity to get the work done. This gives Strata the written authorization to order the pipe. If needed, we can counter that Tom's work on items 18 and 19 can be handled on a T&M basis. If we get to price agreement today, the change order amount would be for items 18 – 22. Items 1 – 17 would be handled on the final balancing change order for installed quantities.

With your approval, we will proceed with preparation of the change document for issuance today. We can discuss further as you feel necessary.

Thanks,  
Dave

**Dave O'Shea**

Civil Engineer

Houston Engineering, Inc.

☎ 701.852.7931 | 📠 701.858.5655

# Strata Corporation

1225 South Broadway Minot, ND 58701

office: 701.852.4560 fax: 701.852.9202

## Proposal

Proposal Submitted to Address:	Phone:	Date:
City of Minot		09/30/15
C/O Houston Engineering	e-mail:	Attention:
		Dave O'Shea

Project: **Minot Downtown Infrastructure Project - 2nd Ave SE Sanitary Sewer**

Strata Corporation is pleased to submit the following proposal based upon the information we've received.

### **2nd Ave SE Sanitary Sewer 53+30 to 58+70 ... \$ 154,780.00**

Sawcut, remove & replace asphalt, curb & gutter & sidewalk as required at new manhole

Excavate to designed depths as required for 2 large bore pits and access to existing manholes include trench boxes

Furnish & Install new manhole & casting at 53+34.49

Furnish & Install new 8" SDR 21 Certa Flo pipe

Includes approx. 527 lf of directional drill - pull / place new pipe

Connection to the new manhole and 2 existing manholes

Survey - bore grade stakes every 10' will be furnished by Houston engineering

If rock encountered is significant, additional mud mixing may be required to provide a clean enough hole to pull pipe

We will do all we can to avoid this but we may request payment for these additional mud mixing charges.

Note: There is concern with the ability to pull this pipe, this length. Our best competent efforts will be used to complete.

Strata will not be held responsible for a failed bore due to rocky soils or pipe connection failure.

Add 7 days to the 20 day restriction on 3rd St. closure to adjust for this work scope

### **General Notes:**

Proposal valid for 60 days.

Payment due within 30 days of invoice.

All past due accounts assessed a service fee of 18% annually or 1.5% monthly

All material is guaranteed to be as specified and all work to be completed in a workmanlike manner according to standard practices. All agreements contingent upon strikes, accidents or delays

beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are

fully covered by Workers Compensation Insurance.

### **Acceptance of Proposal**

Date of Acceptance:

Proposal Submitted By:

**Kelly D Perlichek - Estimator**

The above prices, specifications, and conditions are satisfactory and are hereby accepted.

You are authorized to do the work as specified. Payment will be made as outlined above.

Signature

X



**Downtown Minot - Vault  
2nd Ave SE Sanitary Sewer**

**Breakdown**

	Quantity	Unit	Unit Price	Total
1 Sawcut Pavement full depth <i>Includes 246 lf asphalt sawcut &amp; 24 lf concrete sawcut</i>	270	LF	\$ 9.00	\$2,430.00
2 Asphalt Removals 33' x 90'	330	SY	\$ 16.00	\$5,280.00
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10 Subgrade Prep under sidewalk	33	SY	\$ 2.00	\$66.00
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13 Install 48" manhole 10' depth - Tom's	1	EA	\$ 6,600.00	\$6,600.00
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20 Directional Drill 8" sanitary sewer pipe - Stellar <i>Includes hydrovac for locates and drill mud evacuation, Includes 600 lf of 8" SDR-21 restrained joint pvc pipe by certa-flo</i>	527	LF	\$ 98.00	\$51,646.00
21 Directional Drill Support - Strata <i>Includes Strata full time supervision, communications pit to pit and project management</i>	1	LS	\$ 7,800.00	\$7,800.00
22 10% markup on subs <i>\$ 91,706 x 10% = \$ 9,170</i>	1	LS	\$ 9,170.00	\$9,170.00
<b>Total</b>				<b>\$154,780.50</b>

## Dave O'Shea

---

**From:** Dave O'Shea  
**Sent:** Thursday, October 01, 2015 9:31 AM  
**To:** lance.meyer@minotnd.org  
**Cc:** Kevin Martin; Dave Schwengler; Kody Jacobsen; Stan Hanson  
**Subject:** FW: 2nd Ave Sanitary Sewer  
**Attachments:** Minot Downtown - 2nd Ave SE Sanitary Sewer.pdf

Lance,

See below and attached revision. We will proceed with the change order prep today with the cost reduction for pipe handling and placement during pull-back.

**Dave O'Shea**  
Civil Engineer  
Houston Engineering, Inc.  
18 3<sup>rd</sup> Street SE, Suite 100, Minot, ND 58701  
O 701.852.7931 | F 701.858.5655  
[www.houstoneng.com](http://www.houstoneng.com)

This entire message (including all forwards and replies) and any attachments are for the sole use of the intended recipient(s) and may contain proprietary, confidential, trade secret, work-product, attorney-client or privileged information. Any unauthorized review, use, disclosure or distribution is prohibited and may be a violation of law. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message

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**From:** Kelly Perlichek [mailto:Kelly.Perlichek@stratacorporation.com]  
**Sent:** Thursday, October 01, 2015 9:11 AM  
**To:** Dave O'Shea <doshea@houstoneng.com>  
**Cc:** Andrew Engebretson <Andrew.Engebretson@stratacorporation.com>  
**Subject:** 2nd Ave Sanitary Sewer

Dave,  
The proposal estimate has been revised as follows:  
Pipe Handling and Placement has been reduced to \$ 6,120  
Labor and equipment hours had been estimated per the directional drill operators durations.  
The appropriate time needed in the receiving pit will only be required during the pull back part of the directional drill operations.  
Please contact myself or Andy if you have any further questions.  
The pipe will be ordered today and will get an expected delivery date.  
Thank You,  
Kelly

Kelly D Perlichek  
Estimator  
**Strata Corporation**  
1225 South Broadway, Minot, ND 58701  
Ph. 701.852.4560 Fax 701.852.9202  
Cell 701.500.0844

# Strata Corporation

1225 South Broadway Minot, ND 58701

office: 701.852.4560 fax: 701.852.9202

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fully covered by Workers Compensation Insurance.

Proposal Submitted By:

**Kelly D Perlichek - Estimator**

### **Acceptance of Proposal**

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13 Install 48" manhole 10' depth - Tom's	1	EA	\$ 6,600.00	\$6,600.00
14 Install 48" manhole additional depth - Tom's	8	LF	\$ 200.00	\$1,600.00
15 San. sewer connection to existing manhole - Tom's	2	EA	\$ 2,800.00	\$5,600.00
16 Street Sweeping	2	HR	\$ 190.00	\$380.00
17 Traffic Control - Type 3 barricade	6	EA	\$ 135.00	\$810.00
18 Excavation / Backfill of 2 bore pits - Tom's <i>Includes trench box &amp; safety fence</i>	1	LS	\$ 8,360.00	\$8,360.00
19 Pipe Handling and placement into pit - Tom's <i>Includes equipment to move &amp; lower into pit</i> <i>Includes labor to handle &amp; make male to female joint connections in the pit</i>	1	LS	\$ 6,120.00	\$6,120.00
20 Directional Drill 8" sanitary sewer pipe - Stellar <i>Includes hydrovac for locates and drill mud evacuation,</i> <i>Includes 600 lf of 8" SDR-21 restrained joint pvc pipe by certa-flo</i>	527	LF	\$ 98.00	\$51,646.00
21 Directional Drill Support - Strata <i>Includes Strata full time supervision, communications pit to pit and project management</i>	1	LS	\$ 7,800.00	\$7,800.00
22 10% markup on subs $\$ 79,926 \times 10\% = \$ 7,993$	1	LS	\$ 7,993.00	\$7,993.00
			<b>Total</b>	<b>\$141,823.50</b>