



Department of Transportation

Office of Project Development

700 E Broadway Avenue

Pierre, South Dakota 57501-2586 605/773-3268

FAX: 605/773-2614

February 26, 2016

ADDENDUM NO. 1

RE: Item #2, March 2, 2016 Letting - 14.2030.C02 (), PCN X03P, Meade County - Water Main Improvements

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: Please remove the Special Provisions checklist and replace with attached Special Provisions checklist revised 2/26/16.

Please add the "Municipal Utility Board Regulation", dated 7/15 after the City of Sturgis Water and Utility Specifications.

PEN AND INK CHANGE: Changes, Modifications and Clarifications to Article III of the City of Sturgis Specifications:

ARTICAL III, SECTION A, PARAGRAPH 1:

1. Delete *Paragraph 1, General*, in its entirety and Add the following :
No property shall be without water for more than 8 hours at a time. The Contractor must notify each property owner at least 48-hours prior to water outage. The City of Sturgis Water Department shall close and open all valves prior to and following and tie-ins. The contractor shall give the City 24 hour notice prior to any tie-ins. The contractor shall provide a safe trench for visual inspection of connections between new service lines and existing service lines. All Water Mains and Service lines shall be constructed and regulated as per the standards set forth in this manual and the MUNICIPAL UTILITY BOARD REGULATIONS, REVISED JULY 2015. If discrepancies arise between the standards set forth in the manual and the MUNICIPAL UTILITY BOARD REGULATIONS the more stringent shall apply. A copy of the MUNICIPAL UTILITY BOARD REGULATIONS are included as Appendix "A". A 2-year warranty is required on all installed water lines and fittings.

ARTICAL III, SECTION B, clarification: All bends, fittings and fire hydrants shall have both thrust blocks and have mechanical restrains installed.

ARTICAL III, SECTION B, PARAGRAPH 2:

1. Add the following sentence: "All fittings shall be Epoxy Coated and warped with Polyethylene encasement (poly-wrap)."

ARTICAL III, SECTION B, PARAGRAPH 3:

1. All 1" and smaller service lines shall be type K copper.

ARTICAL III, SECTION B, PARAGRAPH 4:

1. All Corporation Stops and Curb Stops shall be rated for 300psi.

ARTICAL III, SECTION B, PARAGRAPH 6:

1. All valve boxes shall be heavy duty. Debris or Mud plugs shall be installed in all valve boxes

ARTICAL III, SECTION B, PARAGRAPH 7:

1. Fire hydrant manufactures approved for this project are: Mueller, American Darling and Waterous.

ARTICAL III, SECTION B, PARAGRAPH 9:

1. Tracer wire shall be 12 gauge single strand blue wire with tracer boxes located at all fire hydrants.

ARTICAL III, SECTION C:

1. All Valve Boxes, Auxiliary valve Boxes, Curb Stops, Meter pit lids and tracer boxes shall be ¼" to ½" below finished concrete grade.

ARTICAL III, SECTION C, PARAGRAPH 9:

1. Add the following sentences, "When chorine tablets are used they shall be glued to the in side of the pipe with an approved RTV blue" and "At minimum two samples shall be taken at each fire hydrant on each block at least 24-hours apart, or as directed by the City".
2. Delete the last two sentences and insert the following – "The City shall be present for the chlorination, flushing and sampling. The contractor shall give the City 24 hours notice prior to any testing. The samples shall be submitted to the City of Sturgis Water Department. The City will charge the new water mains when ready"

ARTICAL III, SECTION C, PARAGRAPH 10:

1. Delete the second sentence and insert the following – "The City or the City's Representative shall approve the test equipment and method employed and be present during said testing. The contractor shall give the City 24 hour notice prior to any testing."
2. All pressure tests shall be applied for not less than two (2) hours.

BID ITEM FILE: *Bidders must log in to retrieve the addendum bid item file that must be loaded into the SDEBS to incorporate the revisions listed here.*

Bid Items were added:

Bid Item 451E0406 "1 ½" High Density Polyethylene Pipe"

Bid Item 451E0408 "2" High Density Polyethylene Pipe"

Bid Item 451E2806 "1.5" Corporation Stop with Tapping Saddle"

Bid Item 451E2808 "2" Corporation Stop with Tapping Saddle"

Bid Item 451E2906 "1.5" Curb Stop with Box"

Bid Item 451E2908 "2" Curb Stop with Box"

Quantities for Bid Items were changed:

Bid Item 451E0604 "4" PVC Water Main" changed from 205 to 240 Ft
Bid Item 451E0606 "6" PVC Water Main" changed from 60 to 180 Ft
Bid Item 451E0802 "1" Copper Pipe" changed from 2209 to 2100 Ft
Bid Item 451E2212 "8"x4" Pipe Tee" changed from 5 to 8 Each
Bid Item 451E2412 "8"x4" Pipe Reducer" changed from 2 to 1 Each
Bid Item 451E2413 "8"x6" Pipe Reducer" changed from 4 to 5 Each
Bid Item 451E2802 "1" Corporation Stop with Tapping Saddle" changed from 76 to 70 Each
Bid Item 451E2902 "1" Curb Stop with Box" changed from 76 to 70 Each
Bid Item 451E3204 "4" Pipe Coupling" changed from 7 to 9 Each
Bid Item 451E3206 "6" Pipe Coupling" changed from 4 to 5 Each
Bid Item 451E4204 "4" Gate Valve with Box" changed from 5 to 8 Each
Bid Item 451E4750 "Meter Pit" changed from 6 to 7 Each
Bid Item 451E6100 "Reconnect Water Service" changed from 76 to 72 Each

PLANS: Please destroy sheets 2, 5, 6, 7, 8, 13 through 21 and replace with the enclosed sheets, dated 2/24/16.

Sheet 2: Bid Items were added:

Bid Item 451E0406 "1 ½" High Density Polyethylene Pipe"
Bid Item 451E0408 "2" High Density Polyethylene Pipe"
Bid Item 451E2806 "1.5" Corporation Stop with Tapping Saddle"
Bid Item 451E2808 "2" Corporation Stop with Tapping Saddle"
Bid Item 451E2906 "1.5" Curb Stop with Box"
Bid Item 451E2908 "2" Curb Stop with Box"

Quantities for Bid Items were changed:

Bid Item 451E0604 "4" PVC Water Main" changed from 205 to 240 Ft
Bid Item 451E0606 "6" PVC Water Main" changed from 60 to 180 Ft
Bid Item 451E0802 "1" Copper Pipe" changed from 2209 to 2100 Ft
Bid Item 451E2212 "8"x4" Pipe Tee" changed from 5 to 8 Each
Bid Item 451E2412 "8"x4" Pipe Reducer" changed from 2 to 1 Each
Bid Item 451E2413 "8"x6" Pipe Reducer" changed from 4 to 5 Each
Bid Item 451E2802 "1" Corporation Stop with Tapping Saddle" changed from 76 to 70 Each
Bid Item 451E2902 "1" Curb Stop with Box" changed from 76 to 70 Each
Bid Item 451E3204 "4" Pipe Coupling" changed from 7 to 9 Each
Bid Item 451E3206 "6" Pipe Coupling" changed from 4 to 5 Each
Bid Item 451E4204 "4" Gate Valve with Box" changed from 5 to 8 Each
Bid Item 451E4750 "Meter Pit" changed from 6 to 7 Each
Bid Item 451E6100 "Reconnect Water Service" changed from 76 to 72 Each

Sheet 5: INCIDENTAL WORK note and TABLE OF WATER ENCASEMENTS were revised.

Sheet 6: TABLE OF WATER ENCASEMENTS and TABLE OF 1" CURB STOP WITH BOX were revised. TABLE OF 1 ½" CURB STOP WITH BOX was added.

Sheet 7: TABLE OF 2" CURB STOP WITH BOX was added. TABLE OF 8"X6" REDUCER, TABLE OF 8"X4" REDUCER, TABLE OF 8" GATE VALVE WITH BOX, TABLE OF 4" GATE VALVE WITH BOX, TABLE OF 8"X4" TEE, TABLE OF 8"X6" TEE, TABLE OF 8"X8" TEE, and TABLE OF 8" BENDS were revised.

Sheet 8: TABLE OF 6" PIPE COUPLINGS, and TABLE OF 4" PIPE COUPLINGS were revised and moved from page 7. TABLE OF 8" PIPE COUPLINGS, TABLE OF FIRE HYDRANT, and TABLE OF METER PIT were revised.

Sheet 13 through 21: Plan and Profile updated to reflect removed and added items found in the Tables on Sheet 5-8.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Todd Seaman, Rapid City Region Engineer
Mike Carlson, Rapid City Area Engineer

REV. 2/26/15

SPECIAL PROVISIONS

PROJECT NUMBER(S): 14.2030.C02 () PCN: X03P

TYPE OF WORK: WATER MAIN IMPROVEMENTS

COUNTY: MEADE

The following clauses have been prepared subsequent to the Standard Specifications for Roads and Bridges and refer only to the above described improvement, for which the following Proposal is made. In case of any discrepancy or conflict between said specifications and these Special Provisions, the latter are to govern.

The Contractor's attention is directed to the need for securing from the Department of Environment & Natural Resources, Foss Building, Pierre, South Dakota, permission to remove water from public sources (lakes, rivers, streams, etc.). The Contractor should make his request as early as possible after receiving his contract, and insofar as possible at least 30 days prior to the date that the water is to be used.

Lisa Johnson is the official in charge of the Spearfish Career Center for Meade County.

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Instructions for Bidders, dated 2/5/16.

Special Provision Regarding Combination Bids, dated 2/5/16.

Special Provision Regarding the City Portion for Subletting, dated 2/5/16.

City of Sturgis Water and Utility Specifications.

Municipal Utility Board Regulations 7/16

Standard Title VI Assurance, dated 1/15/04.

Special Provision For Implementation of Clean Air Act & Federal Water Pollution Control Act, dated 9/1/97.

* * * *

MUNICIPAL UTILITY BOARD REGULATIONS
REVISED JULY 2015

INDEX

ARTICLE I – Authority and Purpose

Section 1.01 – Meetings

ARTICLE II – Water Rates

Section 2.01 – Water Rates and Charges

Section 2.02 – Billing Upon Estimate

Section 2.03 – Credit Requirement of Water User

Section 2.04 – Bills and Payments

Section 2.05 – Water Receipts Deposited in Water Account Fund

Section 2.06 – Critical Water Condition

Section 2.07 – Daytime Watering Restrictions

Section 2.08 – City of Sturgis and Hydrants

ARTICLE III – Construction and Engineering Standards

Section 3.01 – Tap Fee Schedule

Section 3.02 – Unlawful Connections

Section 3.03 – Service Line Connections

Section 3.04 – Service Lines

Section 3.05 – Owner to Pay Costs

Section 3.06 – Curb Stops

Section 3.07 – Building Valve

Section 3.08 – Water Meters

Section 3.09 – Backflow Prevention and Pressure Reducers

Section 3.10 – Separate Taps

Section 3.11 – Distinct Premises

Section 3.12 – Replacing Service Line or Repair of Service Line

Section 3.13 – Excavations

Section 3.14 – Guarding Excavation

Section 3.15 – Inspection and Turning on Water

Section 3.16 – Responsibility of Contractor

Section 3.17 – Repairing and Cleaning Mains

Section 3.18 – Water Main Extension – Application

Section 3.19 – Interconnection and Extension by the City

Section 3.20 – Water Main Installation

ARTICLE IV – Administration

Section 4.01 – Information

Section 4.02 – Application for Permit

Section 4.03 – Access to Consumer’s Premises

Section 4.04 – Expenses of Repairs

Section 4.05 – Notice to Inspection

Section 4.06 – Abandonment of Service

Section 4.07 – Discontinuation

Section 4.08 – Water for Fire Purposes

- Section 4.09 – Use of Hose During Fire
- Section 4.10 – Taking Water From or Meddling with Public Hydrants
- Section 4.11 – Restricting Use
- Section 4.12 – Impurities
- Section 4.13 – Yard Fountains
- Section 4.14 – Engineering Fees
- Section 4.15 – Fluoridation of Water
- Section 4.16 – Damages
- Section 4.17 – Private Water Systems
- Section 4.18 – Enforcement
- Section 4.19 – Responsibility
- Section 4.20 – Sewer User and Garbage User Fee Enforcement

ARTICLE V - Penalties

MUNICIPAL UTILITY BOARD REGULATIONS
REVISED 03-2014

AMENDED RULES AND REGULATIONS GOVERNING CONNECTIONS TO AND
THE USE OF THE STURGIS WATER SYSTEM

ARTICLE I – AUTHORITY AND PURPOSE

ARTICLE II – WATER RATES

ARTICLE III – CONSTRUCTION AND ENGINEERING STANDARDS

ARTICLE IV – ADMINISTRATION

ARTICLE V – PENALTIES

ARTICLE 1 - AUTHORITY AND PURPOSE

These rules and regulations are adopted by the Sturgis Municipal Utility Board as authorized by the Sturgis City Ordinance and necessary for the efficient, economic and safe operation of the Municipal Utility Water Treatment and Distribution System in the Sturgis area. They are intended to provide an adequate amount of potable water to the community through the regulation and control of connections to add the use of system and may be amended by the Municipal Utility Board pursuant to State and/or Federal Statutes or Drinking Water Standards.

SECTION 1.01 - Meetings

Pursuant to the authority granted to the Municipal Utility Board and SDCI 9-39-16, the regular meeting of the Board shall be on the fourth Tuesday of each month at 7:30 am in the front conference room in Sturgis City Hall. Any changes of the meeting dates and times shall be posted as required by SDCL 1-25-1.1 and on the City website, and displayed on the Public Information Bulletin Board at the entrance to City Hall.

ARTICLE II-WATER RATES

SECTION 2.01 - Water Rates and Charges

Surcharge for Bond Issue: in addition to the charge for water services (base and usage rates) to persons, associations of individuals, partnerships, corporations or firms, there shall be a surcharge for the services of the facilities financed.

There shall be charged a monthly surcharge for the services provided by the improvement financed per specific project. The surcharge shall be segregated from other revenues of the utility and shall be used for the payment of the revenue bonds. Provided that such surcharge shall create net income, remaining from time to time after first paying all reasonable and current expenses of maintenance, repairs, replacements and Operation, sufficient to fund interest, reserve and debt service fund annual requirements.

The Utility Board does hereby establish the special charge or surcharge payable by each customer of its System who receives or benefits from the services of the Project. Such charge or surcharge shall be set at a level which, assuming a 10% delinquency rate, will produce income at the times and in amounts sufficient to pay when due the principal of and interest on the Borrower Bond(s), and the administrative expense surcharges and all other payments as may be required under the loan agreement and Borrower Bond(s).

The amount of the surcharge shall be reviewed from year to year and may be modified in order to provide such funds as are set forth herein. The charges shall be reviewed yearly by city personal and administratively adjusted, upwards or downwards pursuant to SDCL § 9-40-15 to such amounts as may be necessary to pay principal, interest, administrative surcharge and other charges as may become due and owing under the Borrower Bond(s).

WATER CHARGES effective January 1, 2014:

a) For all single-family residences, there shall be the following rates:

RESIDENTIAL CHARGES

Cost per 1000 gallons	\$ 2.45
Base	\$11.34
Surcharge 1	\$ 1.59
Surcharge 2	\$ 3.79
Lazelle Surcharge	\$ 3.80
Residential availability fee	\$17.00

(Availability fee will be charged to every account that has water available to it but the resident has chosen to disconnect the service for whatever reason.)

Starting January 1, 2015 the fee shall increase by 3% annually, unless by resolution following adoption of the Budget Ordinance the Council should adopt a different annual rate.

** Non-Profit Rate: Recognized non-profit and Church properties used exclusively for church worship services will be billed at the residential rate as shown above for one meter per service.*

b) The owner of any apartments or multiple family dwellings shall be subject to the following rates for each dwelling unit:

MULTI-DWELLING UNIT CHARGE

Cost per 1000 gallons	\$ 2.45
Base	\$11.34
Surcharge 1	\$ 1.59
Surcharge 2	\$ 3.79
Lazelle Surcharge	\$ 3.80
Residential availability fee	\$17.00

Starting January 1, 2015 the fee shall increase by 3% annually, unless by resolution following adoption of the Budget Ordinance the Council should adopt a different annual rate.

c) If an account holder is provided water service through a residential meter, and commercial activities also occur on the same property, the Water Superintendent shall review the circumstances with the correct city staff to make a determination which service type is the predominant use for the account. If the determination by the Water Superintendent increases the rate to the account holder, the increase will become effective 30 days after a written notice is sent to the account holder. Any objection to the rate change shall be provided in writing to the Water Superintendent within 30 days of the notice being sent to the account holder. If billing questions from the account holder are not resolved with the Water Superintendent, the account holder may submit a written request for review by the Municipal Utility Board at its next regularly scheduled meeting.

d) The property owner for each commercial account shall be subject to the rates listed below. The rates shall include an availability fee charged to every account regardless of whether the account is active or shut off for any reason. The amount of the monthly availability fee shall be based upon the meter size for that account, as shown on the records maintained by the Water Department and listed below.

COMMERCIAL CHARGES

Cost per 1000 gallons	\$2.75
Surcharge 1	\$1.59
Surcharge 2	\$3.79
Lazelle Surcharge	\$3.80

Line Size	# Units	Wtr Base '13	Wtr Base '14	Surchg no change	Sewer '13	Sewer '14 3 incr.
5/8"-1"	1	8.42	11.34	9.18	27.81	28.37
1 1/4"	2	16.84	22.68	18.36	55.62	56.74
1 1/2"	3	25.26	34.02	27.54	83.43	85.11
2"	4	33.68	45.36	36.72	111.24	113.48
3"	6	50.52	68.04	55.08	166.86	170.22
4"	8	67.36	90.72	73.44	228.96	226.96

Water availability fee:

* 1" or smaller meter size	\$ 17.00
* 1 1/4" or smaller meter size	\$ 34.00
* 1 1/2" or smaller meter size	\$ 51.00
* 2" or smaller meter size	\$ 68.00
* 3" or smaller meter size	\$102.00
* 4" or smaller meter size	\$136.00

Starting January 1, 2015 the fee shall increase by 3% annually, unless by resolution following adoption of the Budget Ordinance the Council should adopt a different annual rate.

Commercial or Institutional Users for the purpose of this section means an individual or group of individuals operating together who have a principal operating purpose and usually, but not always, is operating for profit. The institutional users shall include School's, City, County, and State buildings.

e) *The property owner of a mobile home park shall be subject to the following rates:*

Mobile Home Park

Date of Rate	Base Rate	Usage Rate
January 1, 2013	\$11.34 per mobile home	\$2.45 per 1,000 gallons of metered water

Starting January 1, 2015, the fee shall increase by 3% annually, unless by resolution following adoption of the Budget Ordinance the Council should adopt a different annual rate.

SECTION 2.02 - Billing Upon Estimate

If the Municipal Utility Board is unable to obtain access to premises or dwellings at the time of meter reading, an estimated bill will be issued, based upon the last meter reading. The proper adjustment will be made when the meter reading is obtained. In no case will any bill be estimated more than one (1) month consecutively unless the meter is in a manhole which cannot be opened due to inclement weather. If any meter reading is not obtained at the end of any such two (2) month period, the water will be turned off ten (10) days after notice in writing has been mailed to the last known address of the person charged for water use, or by leaving notice by door card at the address of the consumer account that such water service will be shut off within forty-eight (48) hours until such meter reading is obtained, and the water shall not be turned on again until a reconnect charge is paid for turning water off and on in accordance with the following schedule: 8:00 a.m. - 5:00 p.m. Monday-Friday \$25.00; after 5:00 p.m. Monday-Friday, \$125.00; and Saturday, Sunday and holidays - \$125.00. Transferred to another water user, or at any time water service has been turned off and on at the request of the water user, there shall be a service charge required and that charge shall be deposited in the Water Operation Fund. That charge will be in accordance with the following scheduled: 8:00 a.m. - 5:00 p.m. Monday - Friday \$25.00; after hours: \$125.00. In case of an emergency, the charge for turning water off and on at the request of the water user shall be \$25.00 during the working hours and \$125.00 after hours. On shut off day after 8:30 a.m., a fee of \$66.00 for non-payment shall be assessed.

SECTION 2.03 - Credit Requirement of Water User

The Municipal Utility Board shall have the right at any time to require the water user to make a reasonable water user deposit fee or to give a reasonably safe guarantee to secure payment of its bills for water service, conforming to the laws of the State of South Dakota. The minimum deposit required for residential property account owners with an accessible individual shut-off and meter will be fifty (\$50.00) dollars; for renters with an accessible individual shut-off and meter, one hundred dollars (\$100.00) unless the renter can furnish a letter of good credit from a like utility, then in that case, a fifty (\$50.00) dollar charge will be made; for business, commercial and institutional users with an accessible individual shut-off and meter, sixty (\$60.00) dollars. A larger deposit up to an amount equal to two (2) months minimum service fees for the account being serviced may be required by the Water Superintendent in cases where an account shows poor payment history.

For any building or property served by the Water Department where each current account is not served with an accessible individual shut-off and meter hook-up, the property owner shall be required to provide each such separate account with an accessible individual shut-off and meter. The property owner shall complete the installation of that accessible individual shut-off and meter within 45 days of the Water Department providing written notification that the service line(s) for accounts located at the building or

property are subject to this requirement. In the alternative, during that 45 day period allowed for compliance with this requirement, the property owner may transfer *such rental* accounts into the name of the property owner *to obtain a waiver of this requirement from the Department.*

For any individual service account opened or established after April 1, 2012, at a location which does not provide the required accessible individual shut-off and meter, the water service account(s) shall only be approved if opened or established in the name of the property owner.

All water user deposit fees shall be placed in a Water User Deposit Trust Fund and said deposits shall be returned to the user at the termination of the service after the user has paid any unpaid water bills, including a final bill. The deposits shall be returned by check once each month, on or about the 15th of the month.

All interest earned by the Water User Deposit Trust Fund shall be transferred to the Water System Operation Fund.

Any time an existing water service has been turned on at the request of a water user or transferred to another water user, or at any time water service has been turned off and on at the request of the water user, there shall be a service charge required and that charge shall be deposited in the Water Operation Fund. That charge will be in accordance with the following scheduled: 8:00 a.m. - 5:00 p.m. Monday-Friday \$25.00; after hours: \$125.00. In case of an emergency, the charge for turning water off and on at the request of the water user shall be \$25.00 during the working hours and \$125.00 after hours. On shut off day after 8:30 a.m., a fee of \$66.00 for non-payment shall be assessed and paid before water service will be re-established.

AFTER HOURS SERVICE CALL

When an account holder requests an afterhours service call, the home owner or contractor will be billed \$125.00 for the afterhours call out and \$50.00 for each hour that the operator is on the clock after the first two hours.

SECTION 2.04 - Bills and Payments

All meters will be read monthly and all water bills will be due and payable on the 15th day of each month, and if not paid on or before the 15th day of each month, it shall become delinquent, and the customer shall be given notice on the following month's bill that said account is delinquent and if not paid by the 15th of the next month, the Sturgis Water Department shall then forthwith discontinue service to such account. When service has been discontinued, no water shall be turned on again until all water bills in arrears have been paid. An extension may be given, and if payment is not made timely, no further extension will be allowed for twenty four (24) months.

All water users whose bills are delinquent shall be subject to a finance charge on the unpaid balance of said delinquent account of four percent (4%) per month with a minimum finance charge of fifty cents (\$.50) per month. All political subdivisions and governmental entities shall be exempt from late water charges on their water bills. A finance charge shall be a part of the water bill and the water user account will not be deemed paid in full until the finance charges are paid in full along with the water bill itself. All water users whose bills are delinquent will be subject to a charge to reconnect a water service disconnect for non-payment of the bill. This charge shall be in accordance with the following schedule: 8:00 a.m. - 5:00 p.m. Monday - Friday \$25.00; after hours \$125.00.

The Finance Office is authorized to approve a delayed payment agreement upon written application, to include any past due amount owed the Water Department for water or other city utilities based upon the following factors:

- a. Total amount subject of the repayment agreement does not exceed \$1000
- b. All past due amounts owed by the customer on any water account shall be included within one payment agreement
- c. All past due amounts owed by the customer for any other residential or commercial utility services shall be included within one payment agreement.
- d. Total period for repayment of the entire past due amount not to exceed 11 months.
- e. All terms of the repayment agreement to be included in writing and signed by the customer and account holder.
- f. Failure to meet the required payment under the repayment agreement may result in termination of water service to that customer and account.
- g. The existence of a repayment agreement does not bar the City from seeking repayment through other collection or legal actions.
- h. Total duration of repayment period does not exceed 11 months.

Revised 12/22/2015

SECTION 2.05 - Water Receipts Deposited in Water Acct Fund

All funds belonging to the City and derived from revenues arising from the operation of the Sturgis Water Department shall be deposited in a water fund account and be used for no other purpose than to defray the expense of operating the Sturgis Water Department including necessary capital expenditures, and for payment of bonds issued to purchase or improve the water work.

SECTION 2.06 - Critical Water Condition

During a critical water condition or shortage as determined by the Municipal Utility Board, the water user shall use water only for those purposes specified by the Municipal Utility Board. Disregard for this rule shall be sufficient cause for refusal or discontinuance of service.

SECTION 2.07 - Daytime Watering Restrictions

In an effort to conserve water during the summer months, the Municipal Utility Board requests that lawn sprinkling devices not be used from 9:00 a.m. to 5:00 p.m. between June 15th and September 15th. Handheld water devices will be permitted during these hours.

SECTION 2.08 - City of Sturgis and Hydrants

The public corporations shall pay at the same rate as private consumers for water consumed in public buildings, which sum is found and determined to be a reasonable charge for the use and availability of water service for fire protection and maintenance of streets, parks and other public places.

ARTICLE III – CONSTRUCTION AND ENGINEERING STANDARDS

SECTION 3.01 - Tap Fee Schedule

The tap fees include the tapping saddle, corp. stop and meter, and meter couplings. The Sturgis Water Department staff taps services up to and including 2" taps. Larger taps must be installed by the owners' contractor.

<u>SERVICE LINE SIZE</u>	<u>TOTAL</u>
1"	\$ 650.00
1 ½"	\$2000.00
2"	\$2500.00
3"	\$2750.00
4"	\$4000.00
6"	\$6500.00

In such cases where a larger than required service is installed for future expansion, the Water Superintendent may charge an amount equal to the required size plus \$100.00 and at the time of expansion, charge an additional amount to total the tap fee in accordance with the current tap fee schedule to cover the cost of the larger meter. A ¾" meter will be furnished by the Sturgis Water Dept. for 1" taps at no additional charge. If a customer wants a 1" meter, there will be a charge of \$75 in addition to the Tap Fee shown above.

All taps or connections to the City distribution system will be made by or under the direction of the Water Superintendent or other designated utility employee. No person shall be permitted to tap or make connections, either directly or indirectly, to the City's water distribution system except by permit.

The Municipal Utility Board may furnish water to current customers outside the City limits, if sufficient water is available at a 1.5 higher rate in accordance with Article II, Section 2.01 - Water Rates and Changes. The tap fee charge for such services shall also be at a rate of 150% higher than the Tap Fee shown on the schedule above. If sufficient water is available and an annexation agreement has been signed by the City of Sturgis and a proposed customer, water service may also be provided to that customer in accordance with Article II, Section 2.01 - Water Rates.

Any extensions or expansion to the City's water distribution system must be constructed within the public right-of-way. No water mains shall be constructed in any private easements without approval of the Municipal Utility Board.

Amended by Resolution dated January 13, 1992. Amended January 1999; Revised January 8, 2002; Revised January II 2004; Revised June 21, 2005

SECTION 3.02 - Unlawful Connections

It shall be unlawful for any person to lay any water service line or introduce into or about any building or any grounds, any water lines, or do any plumbing work in any building or on any grounds for the purpose of connecting such pipes or plumbing, either directly or indirectly to the City water mains, or make any additions to or alterations of any water lines, water closet, stopcock or other fixtures or

apparatus for the supply of any premises with water from the City water mains without first obtaining a permit to do such work. All water mains constructed within the corporate limits and all water mains constructed without the corporate limits which eventually are contemplated to become a part of the City water distribution system, must be laid according to detailed plans and specifications approved by the Municipal Utility Board and the South Dakota Department of Water and Natural Resources. The MUB reserves the right to exceed South Dakota Department of Water and Natural Resources Standards.

SECTION 3.03 - Service Line Connections

All work to be done in laying of the service line from the City water main into said premises and all labor connected therewith by the provisions of this Ordinance shall be done by or under the direction of a Plumbing Contractor or Pipe-Laying Contractor, licensed by the State of South Dakota and the City of Sturgis, who shall be employed and paid by the owner or consumer and who shall at the same time save the City harmless and indemnify said City against all accidents or damage to person or property arising from neglect in performance of the said work. All Service lines shall be maintained by the Water Department from the City water mains to the Water curb stop after they are constructed. The City of Sturgis and the Municipal Utility Board will not be liable for any reason for any damage to, or cost of repair or replacement of, any improvements that are located within the public right of way, including but not limited to decorative mail boxes or landscaping. The cost or repair to or the loss for damage to any improvements made or constructed within the public right of way by the property owner or another will be the responsibility of the property owner.

South Dakota Codified Laws 9-47-28 and 9-48-53 give local government the right to require residents and businesses to connect to any existing water or sewer main.

SECTION 3.04 - Service Lines

One inch (1") service lines from the corporation stop at the City main through the foundation and to the water meter shall be Type K soft copper tubing or SIDR 7 IPS Class 200 Poly Pipe. 1 ½" and 2" service lines must be SIDR 7 CLASS 200 Poly Pipe. Brass compression fitting must be used on copper tubing. If IPS Poly Pipe is used, brass compression fittings with stainless steel inserts, 12 gauge trace wire and trace wire box must be used. Any splices in the trace wire must be done using silicone nuts or grease paks. All joints and fittings used shall be constructed in such a manner as to prevent rupture by settling, contraction, or expansion. No couplings will be permitted between the corporation stop and the curb stop unless approved by the Water Superintendent. The service line pipe size used from the City distribution line to the meter shall be determined in accordance with the Uniform Plumbing Code as adopted by the South Dakota State Plumbing Commission. The smallest residential or commercial service line size that will be allowed is a one inch (1") line. The MUB reserves the right to exceed South Dakota Department of Plumbing Standards. Service line sizes in excess of those stipulated by this Section may be used only with the consent of the Municipal Utility Board or the Water Superintendent.

All newly constructed service lines will be required to be directly connected from the water main when the building is complete. At no time will a service line be permitted to be connected to two or more separate buildings. This includes all fire suppression lines. Contractors may be included in the repairs of water lines for future development, with the Water department's oversight of the construction. It will be the responsibility of the contractor to adhere to all state plumbing, local, and MUB plumbing codes on the service lines. The City water department will not be responsible for any contractor errors on service line contraction. All new construction and major remodels will have a minimum one inch (1") line service size.

The smallest residential or commercial that will be allowed is a (1") service line. The MUB reserves the right to exceed South Dakota Department of Plumbing Standards.

Other utilities will not be permitted in the same ditch as the water service lines or mains within the public right of way.

Temporary water services to undeveloped land will not be allowed without review and approval of the Municipal Utility Board at a public meeting.

All service lines, including private lines, must run parallel or at right angles to the street, if practical.

Connections to Accessory Buildings: A one inch (1") water line maybe permitted from a dwelling to an accessory building provided the line is at least 6' deep. The accessory building cannot be used for human habitation at any time. The line must be fed from the dwelling, after the meter. The supply line of record to the dwelling must be of sufficient size to supply water to all the fixtures including the accessory building.

SECTION 3.05 - Owner to Pay Costs

All costs and expenses incident to the installation and connection of the building service line shall be borne by the owner. The owner shall indemnify the City for any loss or damage that may directly or indirectly be occasioned by the installation of the building service line.

SECTION 3.06 - Curb Stops

There shall be a brass curb stop in each service line and the same shall be under the exclusive control of the Municipal Utility Board and Water Superintendent. Said curb stop is to be placed in the pipe within the public right-of-way and within three feet (3') of the owner's property line or within the sidewalk if in the public right-of-way and no person that is not a direct employee of the Municipal Utility Board shall open or close or otherwise interfere with said curb stop.

Such curb stop shall be provided with a telescoping box or tube of Minneapolis pattern and the top of each box or tube shall be placed on a level with the existing grade and no premises will be supplied without said box being in good order. Curb stops up to and including one inch (1") shall be Mueller H15150 or approved equal. Curb stops for sizes over one inch (1") shall be 0" ring type such as Mueller Orissel valves. Curb stops shall not be the drain back type where water and sewer services are in the same ditch except where special permission shall be obtained. In all cases, the curb stop and box shall be placed within three feet (3') of the owner's property line or within the sidewalk line if in the public right-of-way, in such a manner that the top of the curb stop box and trace wire box shall be flush with the existing grade. Proper compaction must be done around curb boxes or main valve boxes. If located in a concrete sidewalk or concrete or asphalt driveway, the top of curb boxes or valve boxes must be located ¼" to ½" below the finished surface of the concrete or asphalt before water service will be provided. If not located in a concrete sidewalk or concrete or asphalt driveway, the property owner shall provide an 18" x 18" concrete pad around the curb boxes/valve boxes and trace wire boxes, and the top of the curb boxes or valve boxes must be ¼" to ½" below the finished surface of the concrete pad before water service will be provided.

When a building is being served with a service line through a manhole and the line has no separate curb stop and only a gate valve or ball valve for a shut off valve, when the valve needs to be repaired or replaced the owner must replace it with a curb stop pointed up for access from the top of the manhole.

SECTION 3.07 - Building Valve

Each building's water service shall be provided with a readily accessible gate valve or other non-restricting flow valve located inside the building near the point where the water service enters. This valve shall be a threaded type that is easily removed without soldering. Soldered type valves will not be permitted.

SECTION 3.08 - Water Meters

When any new water services are requested, the applicant shall pay for the water meter at the time of request as part of the tap fee.

All service lines except those laid for fire purposes only, shall be supplied with a meter placed in a horizontal position safe from frost and other damage and accessible to examination. In case of breakage or stoppage of any meter, the consumer shall immediately give notice thereof to the Sturgis Water Department.

The Meter shall be accessible for examination and repair. Accessibility will be determined by the Water Department. No repairs to the meter will be done by the Water Department if the meter is wrapped with insulation or heat tape and the owner of the service line will be responsible for the repairs.

1" meters or smaller that are approved for installation outside of a house, basement, or approved crawl space must be in an approved meter pit. Meters larger than 1" must be in a concrete vault no smaller than 4 foot wide by 8 foot long by 6 foot deep with an approved lid no larger than 18" diameter.

SECTION 3.09 - Backflow Prevention and Pressure Reducers

The Water Superintendent shall require that a dual check valve for backflow prevention be installed in accordance with South Dakota State Plumbing Code Section 20:54:10:52 in any new plumbing system or any system existing prior to the adoption of these Rules and Regulation if any remodeling or changes are made to the same. The backflow preventer must be after the meter. Pressure reducers must be installed before the meter on all newly constructed structures. The PR valve must be installed before the meter where pressure is 80 pounds or higher

SECTION 3.10 - Separate Taps

A separate and independent water tap shall be required for every building except as permitted in Section 3.04.

SECTION 3.11 - Distinct Premises

Any existing service lines supplying two (2) or more separate buildings or two (2) or more separate businesses within the same building or in separate buildings, when a change is made to the water service, must be altered to provide an independent water tap with a separate corporation stop and curb stop box for each building or business.

SECTION 3.12 - Replacing Service Line or Repair of Service Line

In case of a leak in any private service line, the city will give notice of the leak to the property owner and the owner shall begin repair of the leak within five (5) days after the Notice to Repair is provided,

whether in person or by mail. If clear evidence cannot be observed that repair to the service line has begun within five (5) days after Notice has been provided, the city may shut off the service line, or if it determines that it is in the public interest that the service line be repaired immediately, do the required repair or hire a contractor to do the required repair on an emergency basis. If at any time a private service line leak is determined by the city to be a public health or safety hazard, the service line may be turned off at the curb stop immediately.

Revised, October 28, 2014

SECTION 3.13 - Excavations

All excavations required for the installation of a building service line shall be open trench work unless otherwise approved by the MUB or its authorized representative. Pipe laying and backfilling shall be performed in accordance with Municipal Utility Board specifications and City Ordinances, except that no backfill shall be placed until the work has been inspected.

SECTION 3.14 - Guarding Excavation

All excavation for building service shall be adequately guarded with barricades and lights as to protect the public from hazard. All guard barricades and lights shall be furnished and installed by the Contractor. Streets, sidewalks, parkways and other public property disturbed in the course of the work shall be restored as per City specifications. All excavation within the public right-of-way, streets or alleys shall require the owner to obtain a digging permit prior to excavation operations.

SECTION 3.15 - Inspection and Turning on Water

After the service line and curb stop have been installed, the Municipal Utility Board or its authorized representative shall inspect the exposed line and turn on the corporation stop. Any adjustments that may be required shall be made by the installer. If all joints are not exposed for inspection, a pressure test of 150 psi for two hours will be conducted by the installer and verified by Sturgis Water Department employees.

On water service lines of three inches or greater, the line will be flushed for 10 to 40 minutes then the attached structure will be tested by the water department for the correct disinfectant residue levels. Testing for bacteria in the service line is the responsibility of the property owner. The length of flushing time is dependent on the length and size of the water line.

The Water Department will determine the flushing time. All water lines that have been recharged with water will have a disinfection residual test performed by the water department after the line has been charged with water. The service line will then be turned over to the property owner after proper disinfection has been established.

The curb stop shall not be turned on except for testing purposes until the meter has been installed and work inspected by the Water Superintendent or his authorized representative and deemed satisfactory and in conformance with all rules. Only authorized Water Department employees shall operate the curb stop.

SECTION 3.16 - Responsibility of Contractor

Adequate bond shall be furnished by all licensed plumbers so that workmanship and materials can be guaranteed for two (2) years.

If a leak should develop in a new water service line within two (2) years of its installation, the plumber installing the same shall be notified by the Water Superintendent to make the repair within five (5) days, unless the leak is so extensive to require the service line to be shut off in which case the contractor must respond within 24 hours after notification. If the repairs are not made by the specified date, the Municipal Utility Board shall make the necessary repairs or cause the same to be done and the original contractor shall be billed the costs of labor, material, and fifteen percent (15%) overhead and a \$50.00 administrative fee.

Revised February 12, 2002

SECTION 3.17 - Repairing and Cleaning Mains

The Municipal Utility Board reserved the right at any time to shut off the water on the main pipe for the purpose of repairing the same, making connections or extensions to the same, or for the purpose of cleaning the same, and it is expressly understood that no claim shall be made against the City by reason of the breaking of the service line, curb stop, or from any damage arising from shutting off the supply of water for the repairing, laying or replacing mains, or for hydrants, or other connections or from any damage arising from the cleaning of the mains. The MUB or its designee may give such reasonable notice as shall be practical.

SECTION 3.18 - Water Main Extension - Application

Any owner or owners of real estate in the City of Sturgis desiring to have the water mains of said City extended to their respective property, shall be required to make written application to the Municipal Utility Board or to the Water Superintendent, which application shall set forth the area to be served and the length of the proposed water main extension and such other information as may be required by the Municipal Utility Board or the Water Superintendent or the South Dakota Department of Water and Natural Resources. Each applicant for such water main extension shall, as part of such application, be required to pay for the cost of such water main extension, including all labor and materials except as outlined below.

The Municipal Utility Board will pay for material costs of constructing a main from the closest source of City water to the property line of the developer within the discretion of the Municipal Utility Board up to a maximum contribution by the Municipal Utility Board in an amount as benefits the City as determined by the Board, on the condition that the developer provide and pay for the acquiring of all easements and rights of way and for the installation of the water main for the Municipal Utility Board and further that the main be installed at the direction and supervision of the Water Superintendent or other designee of the Water Department and that the main be at proper level at finished grade.

If a water main larger than eight inches (8") in diameter is required for such water main extension, the Municipal Utility Board shall pay the difference in the cost of construction over and above the cost of the eight inch (8") water main.

The developer shall furnish fire hydrants with valve and valve box, gasket and bolts, to make a fire hydrant installation. The make and model of the fire hydrant shall be approved by the MUB or its designee. The contractor shall excavate and backfill for the hydrant, line, dry well and support block, and install the same at no cost to the Municipal Utility Board. The contractor shall install one (1) cubic yard of properly graded gravel or crushed gravel or crushed stone to serve as a dry well for the fire hydrant.

The Developer shall furnish all water main shut off valves, valve boxes, thrust blocks, tees and all other necessary fittings as required by the Municipal Utility Board at no cost to the Municipal Utility Board. A

12 gauge solid copper insulated wire shall be installed, for location purposes, with all mains and services and properly terminated in valve boxes and fire hydrants at a location wire terminal box.

Any extension to the Sturgis Water System shall be looped lines with no dead end mains permitted without prior approval from the Municipal Utility Board.

The Municipal Utility Board shall require hydrants at approved dead end mains and shall be installed by the developer/contractor according to Municipal Utility Board specifications.

All such applications shall be submitted to the Municipal Utility Board for approval, together with the recommendations of the Water Superintendent at the regular meeting following the filing of such application with the Water Superintendent. The Municipal Utility Board shall determine the size of the water main that is to be used in such water main extension on the basis of the estimated future water requirements of the area to be served by such water main extension.

SECTION 3.19 - Interconnection and Extension by the City

Whenever it is desirable or necessary in the judgment of the Municipal Utility Board to interconnect existing segments or extensions of the water system, and no application for such interconnection or extension has been made to the Water Superintendent, the Municipal Utility Board may order and authorize such interconnection and extension of the existing water mains and the Municipal Utility Board shall be reimbursed for such interconnection and extension, including all labor and materials, as provided in Section 3.18 of this regulation, by the adjacent property owners, by each of said property owner paying his/her proportionate share of said cost at the time he/she makes application to use and connect to said interconnection and extension.

SECTION 3.20 - Water Main Installation

Plans and specification for each water main extension project shall be submitted to the Municipal Utility Board and South Dakota Department of Water and Natural Resources for approval. In general, the installation procedure shall conform to the standards established by the American Water Works Association.

Pressure and leakage tests shall be made by the Contractor on all new water main extensions. The mains shall be tested at 150 psi for two (2) hours. Allowable leakage per 1000 feet of six inch (6") pipe is 0.50 gallons per hour.

Chlorination of the water mains shall conform to the AWWA Standard for Disinfecting Water Mains. Chlorination material shall provide a dosage of no less than 50 parts per million. The retention time shall be at least 24 hours and shall produce not less than 25 parts per million of chlorine at the end of the retention period.

No water main less than six inches (6") in diameter shall be installed. Water mains shall be installed with a minimum of six feet (6') of cover.

ARTICLE IV – ADMINISTRATION

SECTION 4.01 - Information

The Water Superintendent shall prescribe the form and detail of all applications, permits and reports required by these Rules and Regulations, may determine the frequency of such items except where a frequency is specified, and may provide interpretations or determine the application of these Rules and Regulations where their meaning or application is requested.

SECTION 4.02 - Application for Permit

Owners of property seeking to obtain water, either directly or indirectly from the Sturgis water distribution system, within or without the corporate limits of the City, shall make application or have a licensed Plumbing Contractor or licensed Pipe-Laying Contractor make application, in writing, to the Municipal Utility Board or their designated representative, said application to state name of owner, description of premises, the size of the tap, kind of service pipe to be used, and purpose for which it is to be used, and said application must be made at least two (2) days before the work is to be commenced. After the application for a new water service or distribution system has been approved by the Water Department, and after payment of the fees pursuant to the TAP FEE SCHEDULE, a Tap Permit will be issued to the applicant based on size of the water service line.

SECTION 4.03 - Access to Consumer's Premises

The Water Department shall have the right to enter the water user's premises at all reasonable times for the purpose of reading meters, inspecting and keeping them in repair, and/or installing or removing any or all of its apparatus used in connection with the supply of water or for the following reasons:

- a) To make necessary or desirable repairs, or because of leaks, alterations or extensions;
- b) For non-payment, of any bills;
- c) For failure to provide proper security when requested to do so;
- d) For fraudulent use of the water;
- e) For misrepresentation in the application to the City for water service;
- f) When the water user has vacated the premises;
- g) For tampering with the City's meter or meter connections, or to safeguard the City's property from damage or further damage;
- h) For reasons of health and/or safety;
- i) During the periods of water shortage;
- j) For the purpose of securing compliance with orders issued by civil or military authority;
- k) For any violation of law or contract;
- l) For annual Inspection of water meter;

If the water user fails to allow admittance of the Sturgis Water Department employee for the purpose of reading the meter or any other above stated reason, water service may be discontinued. The Municipal Utility Board of Sturgis will cause to be installed a remote reader on every water users service in order that Water Department employees will not have to enter the premises for the purpose of reading the meter.

Revised February 13, 1995

SECTION 4.04 - Account Owner Liability for Repair Expenses

Property owners must keep their service lines and fixtures connected therewith in good repair and protected from frost at their own expense and must prevent all unnecessary waste, or the water will be turned off. No abatement shall be allowed from the prices charged or agreed upon by reason of the breaking of the service line or corporation stop, and no claim shall be made against the Municipal Utility Board, the City or any of its officers, by reason of the breaking; nor will the City, its Municipal Utility Board or the Superintendent of said Sturgis Water Department be responsible for the damage growing out of the stoppage of said water or any insufficient supply of the same or as to quantity or quality of the water. Property owners using the water from said Sturgis Water Department for whatever purpose shall use the same at their own risk. The property owner or owners shall be responsible for their service line including maintenance and expenses of repairs from their curb stop or master shut-off in the case of more than one building on a service line. The City of Sturgis Municipal Utility Board will assume the responsibility for the service line from the corporation stop at the water main to the curb stop or master shut-off; which ever come first.

Revised, October 28, 2014

SECTION 4.05 - Notice to Inspector

Any plumber or person doing work under the provisions of this regulation shall, when work is prepared for inspection as provided in this regulation, notify the Municipal Utility Board or its authorized representative that such inspection is requested, giving the location of the premises and the time such work will be ready for inspection. The Sturgis Water Department employee shall inspect such work within the same day the inspection is requested, if said request is made before 12:00 noon of that day.

SECTION 4.06 - Abandonment of Service

In the case any water service line should have to be abandoned, the property owner of the water service to be abandoned shall properly excavate and expose the old service line and disconnect the line at the water main within thirty (30) days after the water service has been abandoned. If the service line being abandoned is supplying two (2) or more distinct premises, the property owner will be responsible to excavate and properly disconnect and backfill the private portion of the service line to the point determined by the Water Department. There shall be no back filling of the trench at the point which the water service has been turned off until the point of disconnect has been inspected by the Water Department.

When a building is demolished and the service line is smaller than 1", the service line must be abandoned and cut off at the corporation stop and if a new service line is installed it must be 1" or larger. A service line is considered to be abandoned when a building is demolished and the existing service line is smaller than 1". A service line that is smaller than 1" and has previously been used yearly but has not been used in the past five years, it is considered to be abandoned. If a service line is considered abandoned and not shut off and disconnected at the water main within 30 days, then the property owner shall be responsible for the cost of all repairs to the service line all the way to the main, including any damages that may occur as the result of said line developing any leaks.

Revised 10/28/14

SECTION 4.07 - Discontinuation

Any property owner desiring to discontinue using water must notify the Water Department to that effect. Charges will be prorated to the disconnect date.

SECTION 4.08 - Water for Fire Purposes

Whenever proprietors of lumber yards, manufacturing, halls, stores, hotels or public buildings (regular customers from the waterworks) wish to lay larger pipe with hydrants and hose couplings, to be used only in case of fire, they will be permitted to connect with the street main at their own expense upon application for a permit and payment of any required Tap Fee according to the schedule for such purpose set forth in Section 3.01 of these regulations to be allowed the use of water for fire purposes only, free of charge. Such pipes must be provided with a suitable valve which must be sealed by the Water Superintendent or his authorized representative and stopcock and waste cock attached to the bottom or inside of the building. In case the seal is broken for the extinguishment of fire, the party shall immediately give notice to the Water Superintendent. No stand pipe or water tank will be allowed on the premises for any use other than fire purposes

SECTION 4.09 - Use of Hose during Fire

Whenever there is an alarm of fire, the use of any hydrant fire hose for any purpose is positively prohibited except in the immediate vicinity of the fire or on the premises of the fire or on premises in danger of ignition.

SECTION 4.10 - Taking Water From or Meddling with Public Hydrants

No person shall unscrew or take off any cap on any water hydrant, or in any way meddle or interfere with such hydrant, or take or carry away any water from any public hydrant, except the Water Superintendent or authorized agents and the Chief of the Sturgis Volunteer Fire Department or authorized agents when in the line of duty, without permission of the Water Superintendent or his designee. Please refer to Article V for fees and fines that apply to noncompliance with this section.

SECTION 4.11 - Restricting Use

The Municipal Utility Board reserves the right at any time to restrict the use of said water.

SECTION 4.12 - Impurities

No person shall cast or throw, or suffer to be cast or thrown, any impure or unwholesome substance into any drinking fountain or any appurtenance of the Sturgis Water System.

SECTION 4.13 - Yard Fountains

The Water Department shall inspect all new yard fountains for cross connections and to make sure the line is tied in before the water meter.

The Municipal Utility Board may suspend the use of water for fountains and sprinkling whenever, in its opinion, public necessity may require it.

SECTION 4.14 - Engineering Fees

Any person or persons making such application shall agree as a part of such application to pay the Municipal Utility Board a fee or charge for engineering approval and inspection of such proposed water

main into the water system according to a price schedule determined at the start of the construction season. The initial charge at the date of the adoption of these Rules and Regulations shall be on the basis of \$.30 per lineal foot. The payment of such charge or fee is to be made upon approval of said application and before said connection is made.

SECTION 4.15 - Fluoridation of Water

The Municipal Utility Board for the City of Sturgis, South Dakota, is hereby authorized and directed to provide the means and to proceed with the introduction of approximately nine tenths (0.9) to one and seven-tenths (1.7) to maintain optimum of one and two-tenths (1.2) parts of fluoride-ion to every million parts of water being distributed in the water supply system of the City of Sturgis, South Dakota.

Revised February 12, 2012

SECTION 4.16 – Damages

No person shall uncover or maliciously, willfully or negligently break damage, destroy, deface or tamper with any structure appurtenance or equipment which is part of the municipal water system. If any person is found responsible for the above they will be legally responsible for all cost, and will be prosecuted for any crimes committed.

SECTION 4.17 - Private Water Systems

No private water systems except those operating in full compliance with all state and federal laws and regulations on February 1, 2002, shall be permitted within the city limits of Sturgis or within 1 mile thereof.

Revised February 12, 2002; Rev. 02-09-2011

SECTION 4.18 - Enforcement

The Water Superintendent shall administer and enforce these Rules and Regulations except that no proceedings for the imposition of a penalty and cost recovery due to violations shall be instituted without prior approval of the Municipal Utility Board.

SECTION 4.19 - Responsibility

The Water Superintendent may delegate to his employees the responsibility for administering under his supervision, any part of these Rules and Regulations where such delegation is deemed to be in the best interest of the Municipal Utility Board and the City.

SECTION 4.20 - Sewer User and Garbage User Fee Enforcement

The Municipal Utility Board will enforce the collection of the sewer use fee and garbage use fee ordinances by having the water service disconnected as provided for in the ordinances pertaining thereto, and acts amendatory to said ordinances. A fee will be required to reconnect the water service according to the following schedule: 8:00 a.m. - 5:00 p.m. Monday - Friday \$66.00; after hours an additional \$125.00.

ARTICLE V - PENALTIES

Any person who shall violate any of the Rules and Regulations contained in these chapters, except those sections wherein a specific penalty has been stated, shall, upon conviction thereof, in addition to having the water service discontinued, be subject to a fine of not more than two hundred and no/100 (\$200.00) dollars, or imprisonment for a period of not more than thirty (30) days, or both such fine and imprisonment, at the discretion of the Court.

Any plumber or other person who shall violate the above provisions other than those for which penalties have been provided, shall upon conviction thereof, be fined in a sum of not more than two hundred and no/100 (\$200.00) dollars, and the City Council may revoke the license of such plumber.

Revised 2/12/2002

MUB Regulations revised in entirety, 11/2013.



Utility Plans

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3200	Construction Staking	Lump Sum	LS
110E0370	Remove Curb Stop	73	Each
110E1950	Remove Contaminated Water	10	Mgal
110E1960	Remove Valve Box	18	Each
110E1965	Remove Gate Valve	18	Each
110E1970	Remove Water Main	299	Ft
110E5740	Salvage Fire Hydrant	5	Each
250E0010	Incidental Work	Lump Sum	LS
260E6010	Granular Material	5	Ton
451E0301	Pipe Encasement	15	Each
451E0406	1 1/2" High Density Polyethylene Pipe	39	Ft
451E0408	2" High Density Polyethylene Pipe	41	Ft
451E0604	4" PVC Water Main	240	Ft
451E0606	6" PVC Water Main	180	Ft
451E0608	8" PVC Water Main	1968	Ft
451E0802	1" Copper Pipe	2100	Ft
451E2212	8"x4" Pipe Tee	8	Each
451E2213	8"x6" Pipe Tee	5	Each
451E2214	8"x8" Pipe Tee	5	Each
451E2412	8"x4" Pipe Reducer	1	Each
451E2413	8"x6" Pipe Reducer	5	Each
451E2802	1" Corporation Stop with Tapping Saddle	70	Each
451E2806	1.5" Corporation Stop with Tapping Saddle	1	Each
451E2808	2" Corporation Stop with Tapping Saddle	1	Each
451E2902	1" Curb Stop with Box	70	Each
451E2906	1.5" Curb Stop with Box	1	Each
451E2908	2" Curb Stop with Box	1	Each
451E3008	8" Pipe Bend	17	Each
451E3204	4" Pipe Coupling	9	Each
451E3206	6" Pipe Coupling	5	Each
451E3208	8" Pipe Coupling	1	Each
451E4204	4" Gate Valve with Box	8	Each
451E4208	8" Gate Valve with Box	16	Each
451E4400	Pipe Insulation	208	SqFt
451E4585	Fire Hydrant with Auxiliary Valve & Box	6	Each
451E4610	Thrust Block	46	Each
451E4750	Meter Pit	7	Each
451E4904	Type 3 Foundation Material	15	Ton
451E4918	Imported Trench Backfill	90	CuYd
451E6100	Reconnect Water Service	72	Each
451E6101	Abandon Water Main	1	Each
451E6105	Connect to Existing Water Main	7	Each
451E7500	Locate Utilities	10	Each
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
900E2090	AASHTO T-180 Soil Test	5	Each

SPECIFICATIONS

Standard Specifications for utilities shall be, **Development and Construction Standards for the City of Sturgis**, except as modified herein via plans, plan notes, and special provisions included in the contract/bid documents.

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

Encasement and Pipe Insulation Specifications and details shall be City of Rapid City Standard Specifications for Public Works Construction, 2007 Edition.

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance.

Action Taken/Required:

The DENR and the US Environmental Protection Agency (EPA) have issued separate general permits for the discharge of storm water runoff. The DENR permit applies to discharges on state land and the EPA permit applies to discharges on federal or reservation land. The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior to project start by the DOT Environmental Office. A letter must be received from DENR that acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

A major component of the storm water construction permits is development and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which is a joint effort and responsibility of the SDDOT and the Contractor. Erosion control measures and best management practices will be implemented in accordance with the SWPPP. The SWPPP is a dynamic document and is to be available on-site at all times.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT:

<http://sddot.com/transportation/highways/environmental/stormwater/Default.aspx>

DENR: <http://www.denr.sd.gov/des/sw/stormwater.aspx>

EPA: http://cfpub.epa.gov/npdes/home.cfm?program_id=6

Contractor Certification Form:

The "Department of Environmental and Natural Resources – Contractor Certification Form" (SD EForm – 2110LDV1-ContractorCertification.pdf) shall be completed by the Contractor or their certified Erosion Control Supervisor after the award of the contract. Work may not begin on the project until this form is signed.

The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the Surface Water Discharge General Permit for Storm Water Discharges Associated with Construction Activities for the Project.

The online form can be found at:

<http://denr.sd.gov/des/sw/eforms/E2110LDV1-ContractorCertification.pdf>

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor shall furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Project Engineer.



INCIDENTAL WORK

Water Meter Pits to be salvaged for future use and hauled to the City of Sturgis Maintenance Yard as directed by the Engineer. Contractor to salvage only the existing pit lids and rings, pit probes and wires, and the existing meters. Care shall be taken not to damage the structural properties of the items during dismantling and transporting. All broken concrete and materials not salvaged shall be disposed of in accordance with the Specifications.

Station	L/R	Quantity (Each)	Description
102+83.59	L	1	Remove and salvage water meter pit
105+29.94	R	1	Remove and salvage water meter pit
105+92.98	R	1	Remove and salvage water meter pit
106+30.59	R	1	Remove and salvage water meter pit
107+02.39	R	1	Remove and salvage water meter pit
109+91.71	R	1	Remove and salvage water meter pit
110+10.75	R	1	Remove and salvage water meter pit
110+83.76	R	1	Remove and salvage water meter pit
111+44.73	L	1	Remove and salvage water meter pit
112+82.18	R	1	Remove and salvage water meter pit
113+55.85	L	1	Remove and salvage water meter pit
114+10.32	L	1	Remove and salvage water meter pit
115+15.36	L	1	Remove and salvage water meter pit
115+19.12	L	1	Remove and salvage water meter pit
117+52.56	L	1	Remove and salvage water meter pit

GRANULAR MATERIAL

Existing private utilities are buried on Main Street prior to this contract. It will be necessary to dig under and expose the private utilities in order to install water services under this contract. It is anticipated that as backfill operations proceed and the level of the trench backfill nears the exposed utilities, compaction by conventional methods using material from the trench may become impractical. Granular Material shall then be used to backfill the trench to the spring line of the utility at the highest elevation. Existing trench material shall then be used to continue backfill operations.

Granular material shall conform to the South Dakota Department of Transportation Standard Specifications, 2015 Edition with current updates and revisions as specified in the proposal. However, payment shall be incidental to the contract unit price per Ton of Granular Material. The Contractor shall be responsible to take all weight delivery tickets as materials arrive at the job site and provide copies to the Engineer at the end of each work day.

PROOFROLLING TRENCH

In addition to backfill compaction testing by the Engineer, the Contractor shall perform proof rolling on the trench subgrade at the bottom of the DOT proposed undercut depth. Proof rolling shall be performed with a loaded wheel loader or other approved equipment which can travel within the trench line without damage to adjacent work. Any areas of instability shall be stabilized with Type 2 or 3 foundation material as directed by the Engineer.

Proof rolling of the trench will not be paid for directly but will be considered to be incidental to pipe installation

TRENCH EXCAVATION AND BACKFILL

Trench excavation, backfill, and granular materials shall conform to Article II of the City of Sturgis standard Specifications except as modified herein. Compaction of trench backfill under the roadways shall conform to the South Dakota Department of Transportation Standard Specifications, 2015 Edition with current updates and revisions as specified in the proposal.

It is anticipated that in some areas special foundations may be required to provide adequate support for the pipe. Such foundation will consist of sub-excavation to a depth as required by the Engineer and placement of Type 3 foundation material. The granular foundation material or trench stabilization material will be paid for at the contract unit price per ton if authorized by the Engineer.

For trench backfill above the Type 1 Bedding, the Contractor shall be responsible for either drying the wet but otherwise suitable material or hauling in drier material at no additional cost to the city. Due to the compressed sequence of operations and short construction duration, it is assumed that the Contractor will be importing materials rather than drying. It is not recommended that the Contractor use imported backfill for the top section of the trench that will be removed by DOT during undercut operations. The undercut of Main Street is approximately 1 foot, verify with roadway plans.

Payment for the use of imported backfill will only be authorized by the Engineer; if in the Engineer's opinion, there is insufficient quantity of suitable backfill material, including material that can be dried. Imported backfill quantities will be determined by counting truck loads. The quantity of material each truck holds shall be agreed upon by the Engineer and the Contractor prior to any hauling operations. The Contractor shall not be paid for trench widths greater than four feet or the maximum trench width, whichever is greater. Imported backfill will not be paid for when the Contractor fails to perform proper dewatering techniques per the Engineer's request.

Imported Trench Backfill shall be furnished by the Contractor and shall be uniform in texture and free from organic material. The liquid limit shall not exceed 45 and the plastic index shall not exceed 25. The Contractor shall be responsible to provide AASHTO T-99 test results on the material to confirm its suitability for the project.

WATER FOR COMPACTION

The Contractor is responsible for providing water for compaction of embankments, granular materials and trench backfill as required. There will be no separate payment for compaction. The cost of loading, transporting, and applying water shall be considered incidental to the various items where water is required.

MUCK EXCAVATION

Muck Excavation within this project shall be considered incidental to the item being installed and no additional payment will be made.



TRENCH DEWATERING

The Contractor has the option to treat sediment laden water trapped within the project limits with a dewatering and sediment collection system, or the Contractor may elect to transport sediment laden water off the project. The dewatering and sediment collection System shall be pre-approved by the Engineer prior to the start of trench dewatering. All costs for the dewatering and sediment collection system including but not limited to the system, labor, materials, and disposals shall be incidental to the utility being installed.

If the Contractor elects to transport sediment laden water off the project, no additional payment for loading, transporting, and labor costs will be made. Water transported off the project limits shall not be disposed of in an area where it can enter a waterway. The disposal site must be approved by the Engineer. All costs for loading, transporting, and disposal shall be incidental to the utility being installed.

Trench dewatering shall be necessary when the ground water level is higher than the bottom of the water trench and is needed to facilitate water main installation.

DISPOSAL OF CHLORINATED WATER

The contractor shall provide a plan to the Engineer on how he intends to neutralize chlorinated water from water main disinfection and flushing operations two weeks prior to flushing operations. The Contractor shall both neutralize the chlorinated water with specifically manufactured products and ascorbic acid or discharge the water into a truck and haul the water to an Engineer approved location for disposal. No separate payment will be made for neutralization of the super chlorinated water and it shall be considered incidental to the respective water main bid item.

PIPE ENCASEMENT

Pipe encasement shall be installed in accordance with Section M of the Recommended Design Criteria Manual, Wastewater Collection and Treatment Facilities, South Dakota Department of Environment and Natural Resources. Concrete encasement for water mains shall be controlled low strength material conforming to Section 200 of the City of Rapid City Standard Specifications and shall be paid for at the contract unit price per each.

TABLE OF WATER MAIN ENCASEMENTS

Station	to	Station	L/R	Description	Quantity Each
100+51.35		100+93.87	L/R	Main Street	1
100+97.48		101+19.95	R	Main Street	1
103+85.58		104+07.54	R	Main Street	1
104+58.67		104+84.63	R	Main Street	1
107+48.33		107+70.28	R	Main Street	1
108+08.79		108+47.48	R	Main Street	1
110+20.37		110+42.33	R	Main Street	1
111+27.16		111+49.12	R	Main Street	1
111+95.37		112+21.33	R	Main Street	1
114+26.06		114+48.02	R	Main Street	1
117+45.90		117+55.86	R	Main Street	1



TABLE OF WATER MAIN ENCASEMENTS (CONTINUED)

201+09.54	201+40.52	L	4th Street	1
401+90.23	402+12.23	L	3rd Street	1
500+53.28	501+11.55	L	2nd Street	1
600+78.16	600+86.06	L	1st Street	1
Total:				15

TRENCH BOX

Due to anticipated limited construction work area widths, the Contractor shall utilize moveable trench box or shoring trenching. Benching or sloping trench sidewalls is prohibited. The maximum allowable trench width and pavement removal limits shall be as shown on the plan details and typical sections. Use of trench box or shoring for trenching operations shall be incidental to the project.

AS-BUILT PLANS

The Contractor shall measure and record any horizontal or vertical deviations for the contract drawings. The changes shall be recorded in as accurate neat fashion on the drawings and furnished to the Engineer upon completion of the project. Specifically, all service taps, connections, anodes and buried fittings shall be recorded for the work. The As-Built Drawings shall be on-site and available for review by the Engineer upon request.

TEMPORARY APPURTENANCES

The existing mains must remain in-service until the new water main is complete, disinfected, and pressure tested. Temporary plugs, valving, connections, hydrants, etc. may be needed to maintain service to existing services and shall be considered incidental work.

WATER PIPE

All water pipe mains, services, appurtenances, etc. shall conform to the City of Sturgis Standard Specifications.

PVC Water Mains and 4" PVC water services shall be AWWA Specification C900, DR18.

Water Services 1" through 2" shall be Type K soft copper tubing per the specifications.

WATER MAIN & FITTINGS

- All high deflection pipe couplings shall be mechanical joint sleeves or repaired couplings allowing 4 degree deflections.
- Ductile iron fittings shall be epoxy coated per Article III of the Standard Specifications.
- Fittings shall be mechanically restrained where restraint is required by the plans or the specifications. Cost of restraint shall be incidental to the associated fitting or pipe.
- Bolts for mechanical joints shall be Series 300 Stainless Steel.

- Testing and disinfection shall be per Standard Specifications. The Contactor is responsible for all testing, disinfection and water sampling.
- Tracer wire is required on all water mains as per Standard Specifications.

AASHTO T-180 SOIL TEST

In order to match and correlate with the SDDOT specifications, the Contractor shall provide T-99 soil test results under the bid item AASHTO T-180 Soil Test. Payment will be made for only those Proctor tests required by the Engineer.

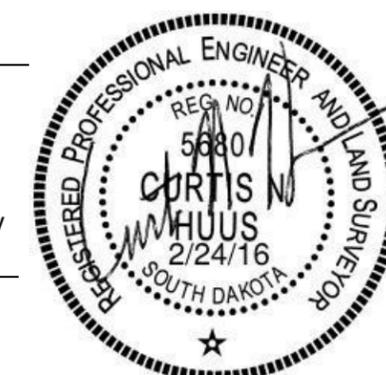
TABLE OF 1" CURB STOP WITH BOX

Station	L/R	Description	Quantity (Each)
100+49.39	L	Main Street	1
101+32.09	R	Main Street	1
101+85.09	R	Main Street	1
102+07.70	L	Main Street	1
102+83.34	L	Main Street	1
103+24.79	L	Main Street	1
103+55.48	L	Main Street	1
103+91.66	L	Main Street	1
104+95.97	R	Main Street	1
105+02.89	L	Main Street	1
105+21.62	L	Main Street	1
105+30.25	R	Main Street	1
105+96.48	L	Main Street	1
106+47.86	L	Main Street	1
106+30.57	R	Main Street	1
107+02.39	R	Main Street	1
107+45.33	L	Main Street	1
108+76.21	R	Main Street	1
108+83.97	L	Main Street	1
109+20.52	L	Main Street	1
109+37.12	L	Main Street	1
109+41.13	R	Main Street	1
109+53.30	L	Main Street	1
109+66.27	R	Main Street	1
109+91.56	R	Main Street	1
110+02.57	L	Main Street	1
110+06.94	R	Main Street	1
110+14.94	R	Main Street	1
110+32.10	L	Main Street	1
110+36.69	R	Main Street	1
110+68.25	L	Main Street	1
110+80.46	L	Main Street	1
110+83.92	R	Main Street	1

111+14.01	L	Main Street	1
111+19.82	R	Main Street	1
111+34.67	R	Main Street	1
111+44.81	L	Main Street	1
111+59.00	L	Main Street	1
112+30.85	L	Main Street	1
112+42.08	R	Main Street	1
112+62.48	R	Main Street	1
112+71.71	L	Main Street	1
112+82.19	R	Main Street	1
113+12.87	L	Main Street	1
113+15.83	R	Main Street	1
113+42.04	R	Main Street	1
113+55.63	L	Main Street	1
113+76.18	L	Main Street	1
113+86.04	R	Main Street	1
114+10.32	L	Main Street	1
114+36.05	L	Main Street	1
114+80.21	R	Main Street	1
114+84.36	L	Main Street	1
114+86.92	R	Main Street	1
115+10.22	L	Main Street	1
115+11.50	R	Main Street	1
115+15.51	L	Main Street	1
115+26.32	R	Main Street	1
115+49.42	L	Main Street	1
115+58.45	R	Main Street	1
115+75.50	R	Main Street	1
115+97.12	R	Main Street	1
116+37.46	R	Main Street	1
116+40.46	R	Main Street	1
116+66.58	R	Main Street	1
116+77.75	L	Main Street	1
117+10.09	R	Main Street	1
117+13.09	R	Main Street	1
117+52.38	L	Main Street	1
124+99.88	R	Main Street	1
Total:			70

TABLE OF 1 1/2" CURB STOP WITH BOX

Station	L/R	Description	Quantity (Each)
112+03.99	L	First Street	1



REVISED 2-24-16 JM

TABLE OF 2" CURB STOP WITH BOX

Station	L/R	Description	Quantity (Each)
101+05.13	L	Fourth Street	1

TABLE OF 8" X 6" REDUCER

Station	L/R	Description	Quantity (Each)
100+35.91	L	Main Street	1
201+12.68	L	Fourth Street	1
402+31.95	L	Third Street	1
500+57.78	L	Second Street	1
600+82.40	L	First Street	1
Total:			5

TABLE OF 8" X 4" REDUCER

Station	L/R	Description	Quantity (Each)
402+41.34	L	Third Street	1
Total:			1

TABLE OF 8" GATE VALVE WITH BOX

Station	L/R	Description	Quantity (Each)
100+39.93	L	Main Street	1
201+46.24	L	Fourth Street	1
100+96.85	R	Main Street	1
104+31.51	R	Main Street	1
402+28.60	L	Third Street	1
402+38.31	L	Third Street	1
104+99.25	R	Main Street	1
107+96.70	R	Main Street	1
500+61.94	R	Second Street	1
108+25.42	R	Main Street	1
108+79.48	R	Main Street	1
111+68.46	R	Main Street	1
601+20.08	R	First Street	1
112+48.81	R	Main Street	1
114+65.53	R	Main Street	1
117+53.87	R	Main Street	1
Total:			16

TABLE OF 6" GATE VALVE WITH BOX (INCIDENTIAL TO FIRE HYDRANT)

Station	L/R	Description	Quantity (Each)
100+45.09	L	Main Street	1
104+81.43	R	Main Street	1
108+58.19	R	Main Street	1
112+27.52	R	Main Street	1
114+70.53	R	Main Street	1
124+27.63	L	Main Street	1
Total:			6

TABLE OF 4" GATE VALVE WITH BOX

Station	L/R	Description	Quantity (Each)
102+61.70	R	Main Street	1
103+31.23	R	Main Street	1
402+35.28	L	Third Street	1
110+02.61	R	Main Street	1
110+61.10	R	Main Street	1
113+85.12	R	Main Street	1
116+75.80	R	Main Street	1
117+49.73	L	Main Street	1
Total:			8

TABLE OF 8" X 4" TEE

Station	L/R	Description	Quantity (Each)
102+61.70	R	Main Street	1
103+31.23	R	Main Street	1
402+35.28	L	Third Street	1
110+02.61	R	Main Street	1
110+61.10	R	Main Street	1
113+85.12	R	Main Street	1
116+75.80	R	Main Street	1
117+49.73	L	Main Street	1
Total:			8

TABLE OF 8" X 6" TEE

Station	L/R	Description	Quantity (Each)
100+45.06	L	Main Street	1
104+81.43	R	Main Street	1
108+58.19	R	Main Street	1
112+27.52	R	Main Street	1

114+70.53	R	Main Street	1
Total:			5

TABLE OF 8" X 8" TEE

Station	L/R	Description	Quantity (Each)
100+92.76	R	Main Street	1
104+49.74	R	Main Street	1
402+24.49	L	Third Street	1
108+15.56	R	Main Street	1
111+91.90	R	Main Street	1
Total:			5

TABLE OF 8" BEND

Station	L/R	Description	Quantity (Each)
100+72.76	L	Main Street 90°	1
100+72.70	R	Main Street (90°)	1
402+24.53	L	Third Street (90°)	1
117+37.05	R	Main Street (90°)	1
117+37.12	L	Main Street (90°)	1
104+54.18	R	Main Street (22.5°)	1
104+58.67	R	Main Street (22.5°)	1
108+06.12	R	Main Street (45°)	1
108+08.87	R	Main Street (45°)	1
108+29.58	R	Main Street (45°)	1
108+32.13	R	Main Street (45°)	1
111+82.07	R	Main Street (45°)	1
111+85.16	R	Main Street (45°)	1
112+21.46	R	Main Street (45°)	1
112+24.30	R	Main Street (45°)	1
201+26.32	L	Fourth Street (45°)	1
201+16.00	L	Fourth Street (45°)	1
Total:			17



TABLE OF 6" PIPE COUPLINGS

Station	L/R	Description	Quantity (Each)
100+32.99	L	Main Street	1
201+09.49	L	Fourth Street	1
402+35.00	L	Third Street	1
500+54.63	L	Second Street	1
600+79.50	L	First Street	1
Total:			5

TABLE OF 4" PIPE COUPLING

Station	L/R	Description	Quantity (Each)
102+61.63	R	Main Street	1
103+31.23	R	Main Street	1
402+35.04	L	Third Street	1
402+44.78	L	Third Street	1
110+02.61	L	Main Street	1
110+61.10	R	Main Street	1
113+85.13	R	Main Street	1
116+75.82	R	Main Street	1
117+49.73	R	Main Street	1
Total:			9

TABLE OF 8" PIPE COUPLING

Station	L/R	Description	Quantity (Each)
117+55.31	L	Main Street	1
Total:			1

TABLE OF FIRE HYDRANT

Station	L/R	Description	Quantity (Each)
100+45.09	L	Main Street	1
104+81.43	L	Main Street	1
108+58.19	L	Main Street	1
112+27.51	L	Main Street	1
114+70.52	L	Main Street	1
124+27.64	L	Main Street	1
Total:			6

TABLE OF METER PIT

Station	L/R	Description	Quantity (Each)
106+30.57	R	Main Street	1
109+91.60	R	Main Street	1
110+06.94	R	Main Street	1
110+14.94	R	Main Street	1
110+83.96	R	Main Street	1
112+82.23	R	Main Street	1
115+49.46	R	Main Street	1
Total:			7

PIPE INSULATION

Pipe insulation is needed on the water main at the location listed in the table below. All cost for insulation material, Type 1 Bedding, and sand cushion will be incidental to the contract unit price for Pipe Insulation.

TABLE OF PIPE INSULATION

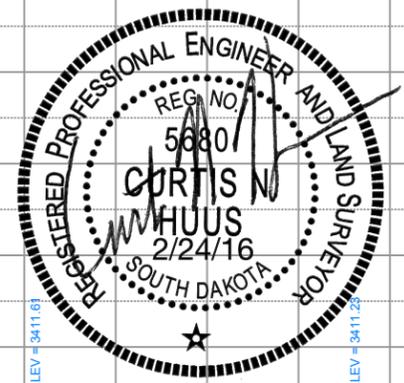
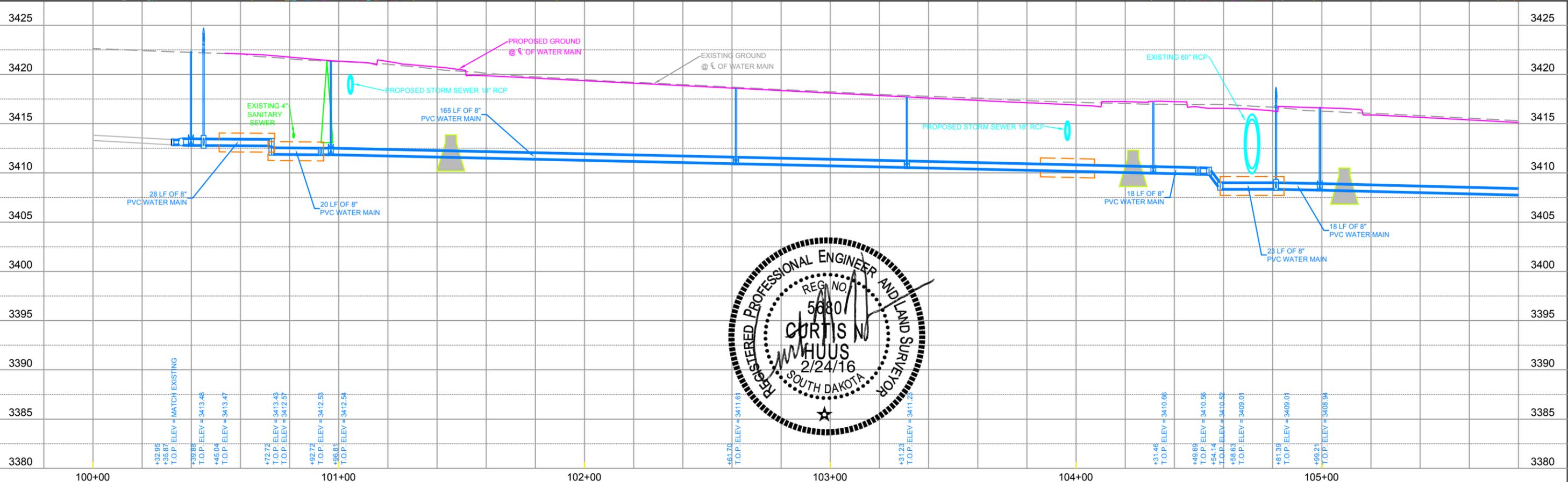
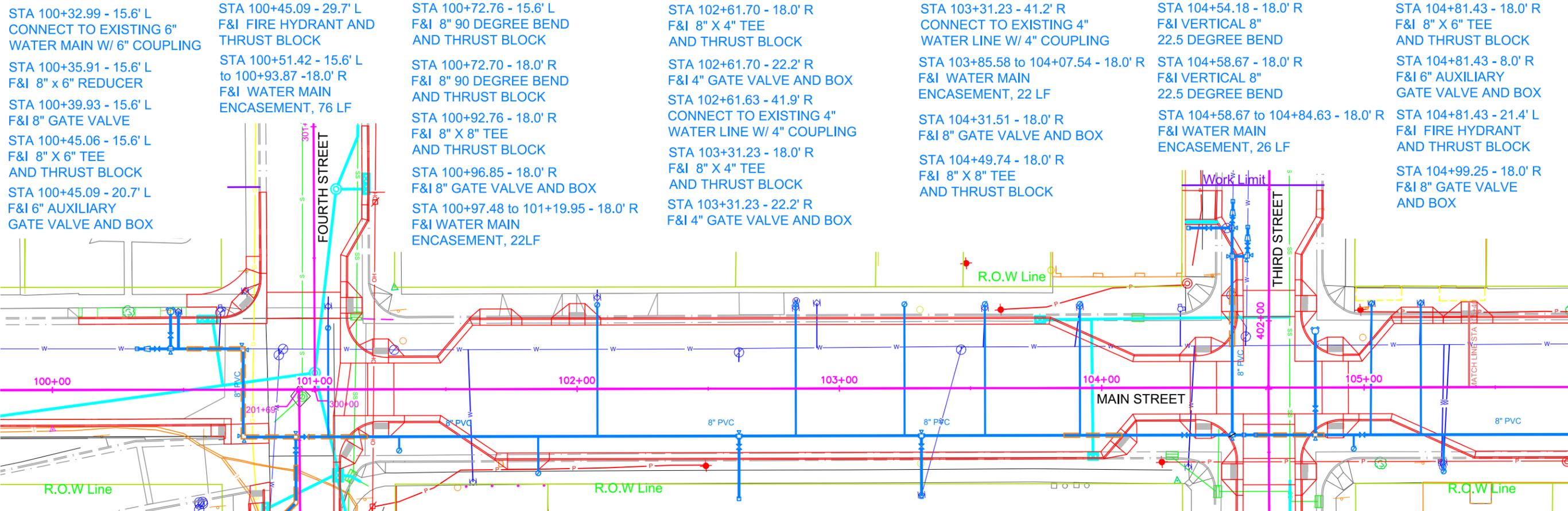
Station	to	Station	Quantity SqFt
112+01.77		112+14.77	104.0
104+65.18		104+78.18	104.0
Total:			208.0

PROPOSED LEGEND

	CURB STOP
	CONNECT TO EXISTING
	90 DEG. BEND
	TEE
	GATE VALVE
	FIRE HYDRANT
	METER PIT
	VERTICAL BEND
	REDUCER
	ENCASEMENT
	WATER MAIN
	WATER SERVICE



WATER MAIN PLAN AND PROFILE



L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 2/24/2016 2:01:17 PM

WATER MAIN PLAN AND PROFILE

STA 106+30.57 - 34.0' R
F&I WATER METER PIT

STA 107+48.33 to 107+70.28 - 18.0' R
F&I WATER MAIN
ENCASEMENT, 22 L

STA 107+96.70 - 18.0' R
F&I 8" GATE VALVE AND BOX

STA 108+06.12 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND

STA 108+08.87 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND

STA 108+08.79 to 108+47.48 - 18.0' R
F&I WATER MAIN
ENCASEMENT, 39 LF

STA 108+15.56 - 18.0' R
F&I 8" X 8" TEE
AND THRUST BLOCK

STA 108+25.42 - 18.0' R
F&I 8" GATE VALVE AND BOX

STA 108+29.58 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND

STA 108+32.13 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND

STA 108+58.19 - 18.0' R
F&I 8" X 6" TEE
AND THRUST BLOCK

STA 108+58.19 - 8.0' R
F&I 6" AUXILIARY
GATE VALVE AND BOX

STA 108+58.19 - 20.0' L
F&I FIRE HYDRANT
AND THRUST BLOCK

STA 108+79.48 - 18.0' R
F&I 8" GATE VALVE AND BOX

STA 109+91.60 - 34.0' R
F&I WATER METER PIT

STA 110+02.61 - 8.0' R
F&I 4" GATE VALVE AND BOX

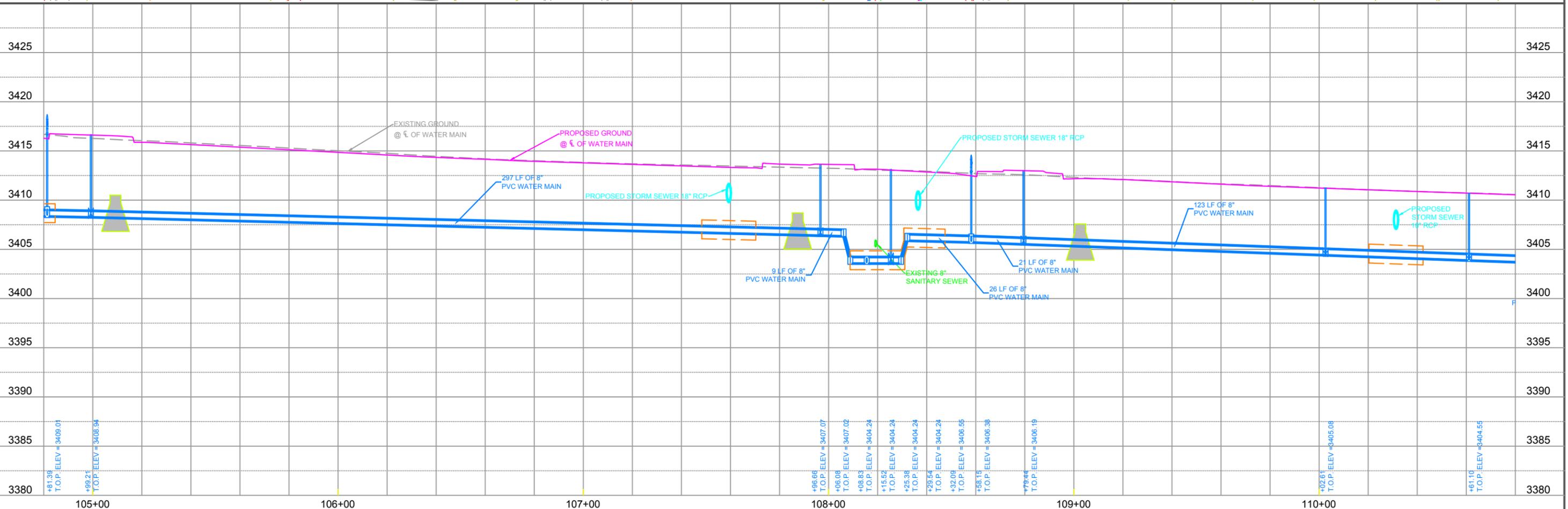
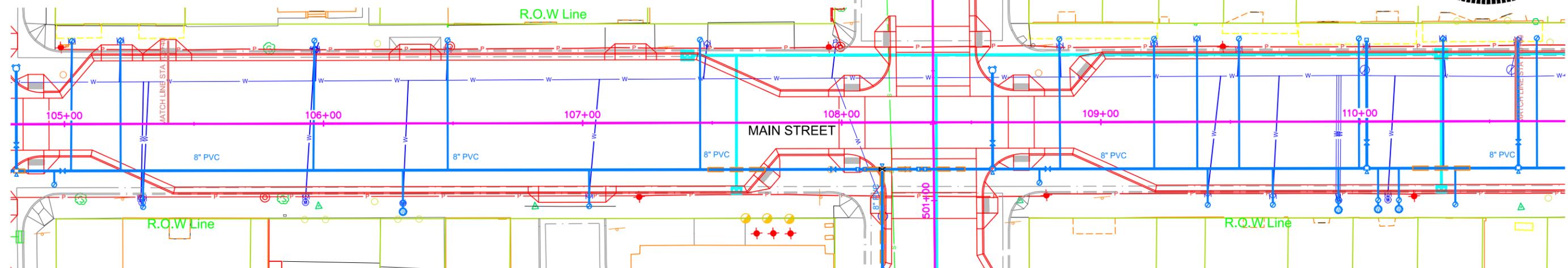
STA 110+02.61 - 18.0' R
F&I 8" X 4" TEE
AND THRUST BLOCK

STA 110+02.61 - 31.4' L
CONNECT TO EXISTING FIRE LINE
W/ 4" COUPLING

STA 110+06.94 - 33.7' R
F&I WATER METER PIT

STA 110+14.94 - 33.7' R
F&I WATER METER PIT

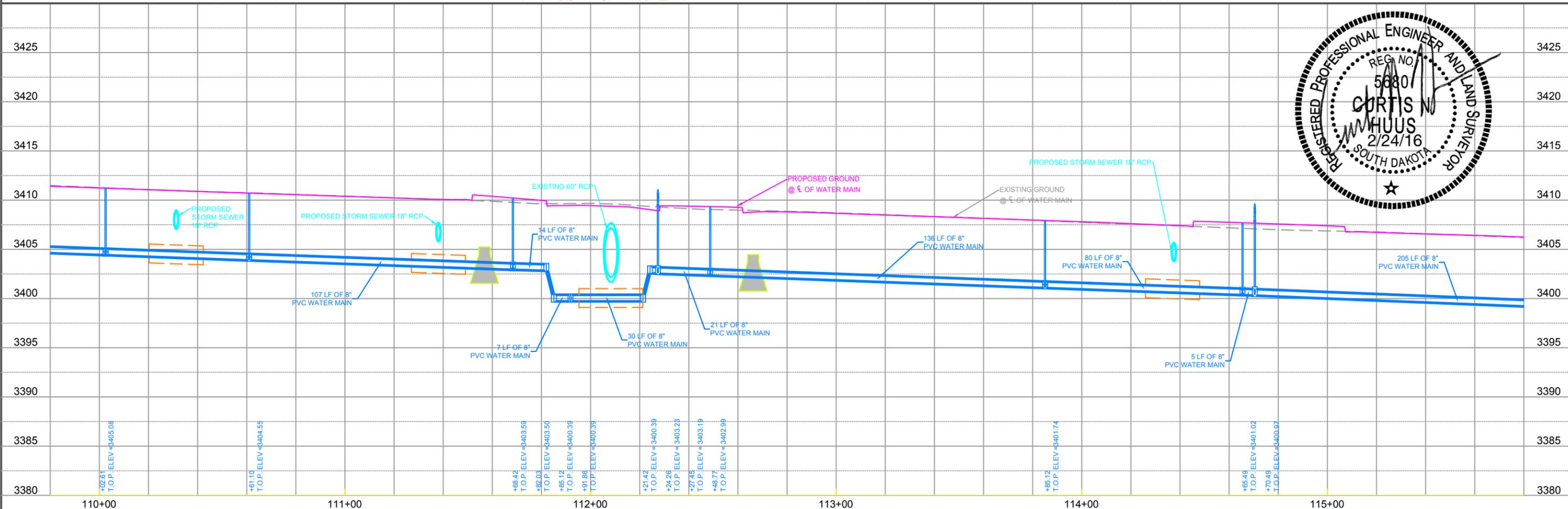
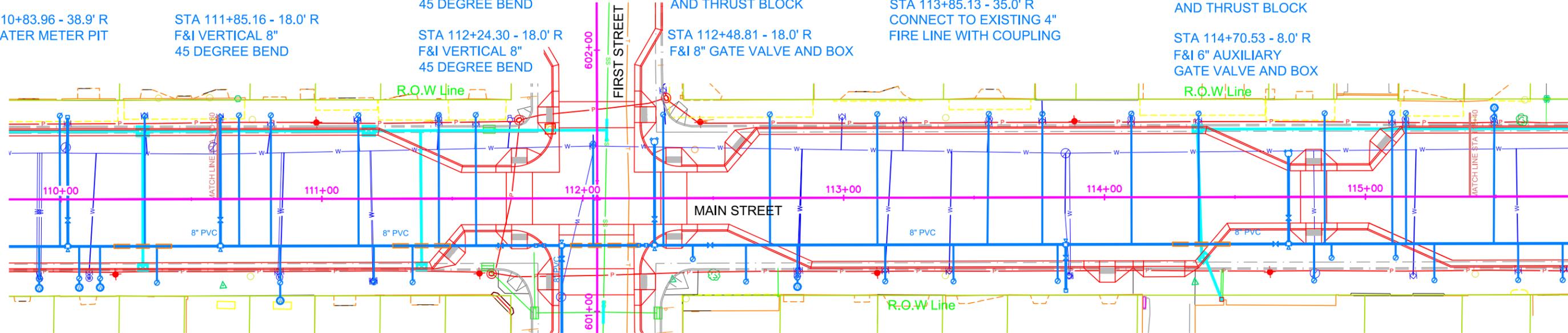
STA 110+20.37 to 114+42.33 - 18.0' R
F&I WATER MAIN
ENCASEMENT, 22 LF



L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 2/24/2016 1:50:44 PM

WATER MAIN PLAN AND PROFILE

- | | | | | | | |
|--|---|---|--|--|---|---|
| STA 110+61.10 - 18.0' R
F&I 8" X 8" X 4" TEE
AND THRUST BLOCK | STA 111+27.16 to 111+49.12 - 18.0' R
F&I WATER MAIN
ENCASEMENT, 22 LF | STA 111+91.90 - 18.0' R
F&I 8" X 8" TEE
AND THRUST BLOCK | STA 112+27.52 - 18.0' R
F&I 8" X 6" TEE
AND THRUST BLOCK | STA 112+82.23 - 34.0' R
F&I WATER METER PIT | STA 114+26.06 to 111+48.02 - 18.0' R
F&I WATER MAIN
ENCASEMENT, 22 LF | STA 114+70.52 - 16.5' L
F&I FIRE HYDRANT
AND THRUST BLOCK |
| STA 110+61.10 - 8.0' R
F&I 4" GATE VALVE AND BOX | STA 111+68.46 - 18.0' R
F&I 8" GATE VALVE AND BOX | STA 111+95.37 to 112+21.33 - 18.0' R
F&I WATER MAIN
ENCASEMENT, 26 LF | STA 112+27.52 - 8.0' R
F&I 6" AUXILIARY
GATE VALVE AND BOX | STA 113+85.12 - 18.0' R
F&I 8" X 4" TEE
AND THRUST BLOCK | STA 114+65.53 - 18.0' R
F&I 8" GATE VALVE AND BOX | |
| STA 110+61.10 - 30.8' L
CONNECT TO EXISTING 4"
FIRE LINE WITH COUPLING | STA 111+82.07 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND | STA 112+21.46 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND | STA 112+27.51 - 21.5' L
F&I FIRE HYDRANT
AND THRUST BLOCK | STA 113+85.12 - 23.2' R
F&I 4" GATE VALVE AND BOX | STA 114+70.50 - 18.0' R
F&I 8" X 6" TEE
AND THRUST BLOCK | |
| STA 110+83.96 - 38.9' R
F&I WATER METER PIT | STA 111+85.16 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND | STA 112+24.30 - 18.0' R
F&I VERTICAL 8"
45 DEGREE BEND | STA 112+48.81 - 18.0' R
F&I 8" GATE VALVE AND BOX | STA 113+85.13 - 35.0' R
CONNECT TO EXISTING 4"
FIRE LINE WITH COUPLING | STA 114+70.53 - 8.0' R
F&I 6" AUXILIARY
GATE VALVE AND BOX | |



L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 0114-2030 WATER PP.dwg 2/24/2016 2:02:33 PM

WATER MAIN PLAN AND PROFILE



- | | | | |
|--|--|--|---|
| STA 115+49.46 - 34.0' L
F&I WATER METER PIT

STA 116+75.80 - 18.0' R
F&I 8" X 8" X 4" TEE
AND THRUST BLOCK

STA 116+75.80 - 8.0' R
F&I 4" GATE VALVE AND BOX | STA 116+75.82 - 35.8' L
CONNECT TO EXISTING 4"
FIRE LINE

STA 117+37.05 - 18.0' R
F&I 8" 90 DEGREE BEND
AND THRUST BLOCK

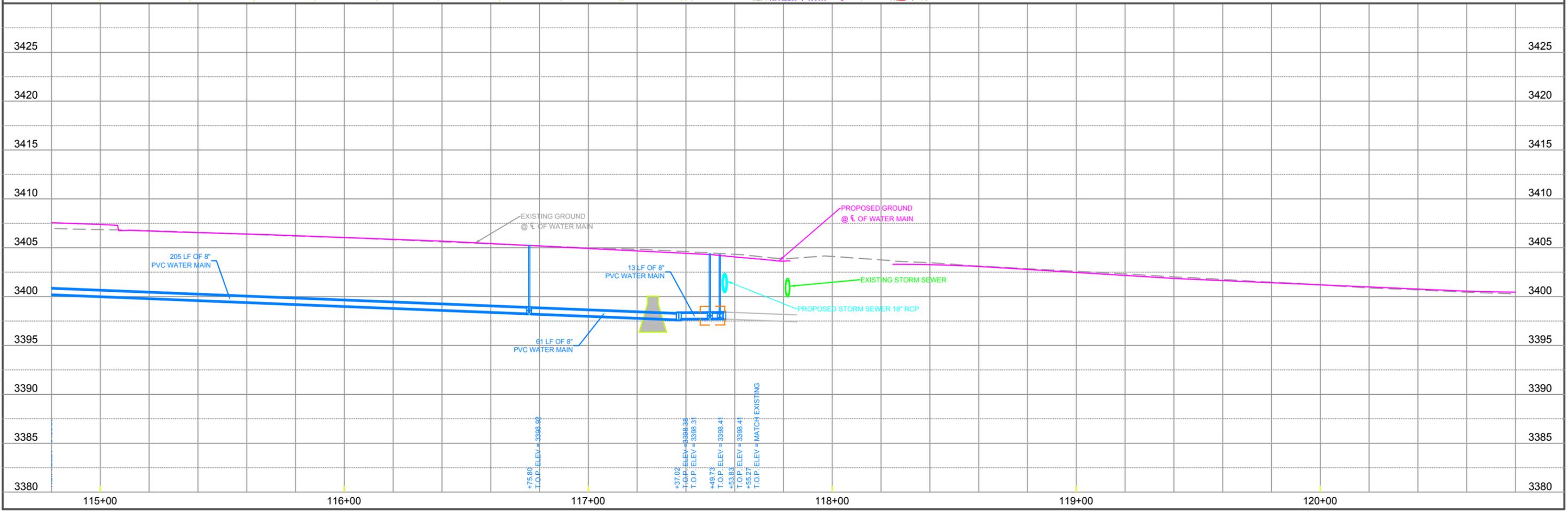
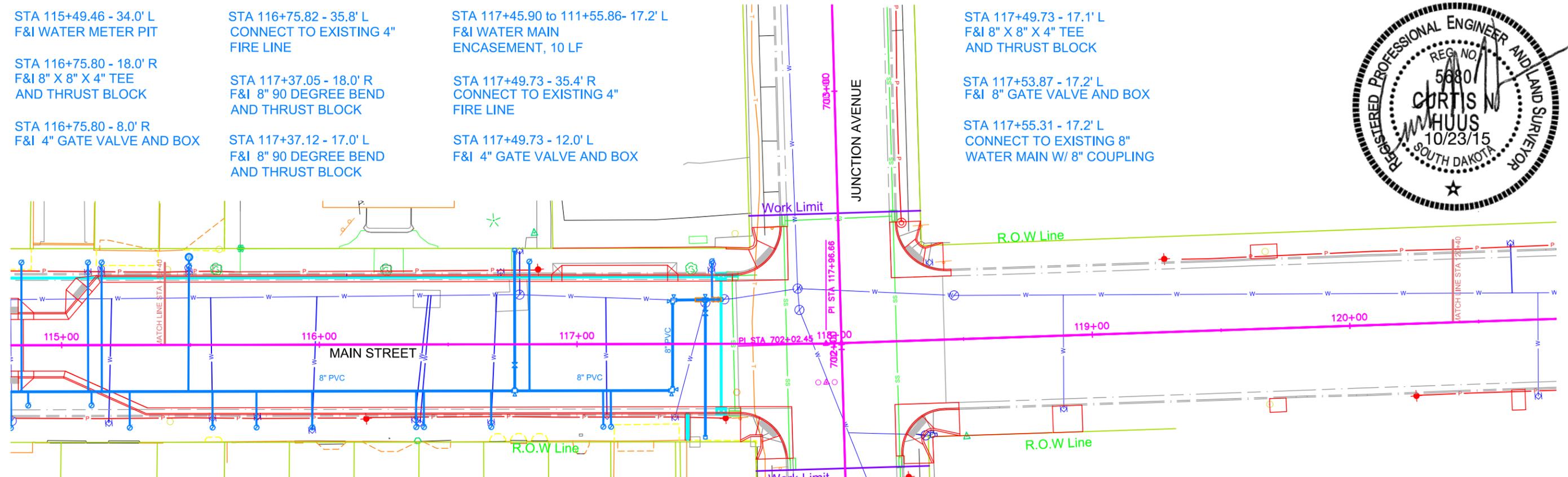
STA 117+37.12 - 17.0' L
F&I 8" 90 DEGREE BEND
AND THRUST BLOCK | STA 117+45.90 to 111+55.86- 17.2' L
F&I WATER MAIN
ENCASEMENT, 10 LF

STA 117+49.73 - 35.4' R
CONNECT TO EXISTING 4"
FIRE LINE

STA 117+49.73 - 12.0' L
F&I 4" GATE VALVE AND BOX | STA 117+49.73 - 17.1' L
F&I 8" X 8" X 4" TEE
AND THRUST BLOCK

STA 117+53.87 - 17.2' L
F&I 8" GATE VALVE AND BOX

STA 117+55.31 - 17.2' L
CONNECT TO EXISTING 8"
WATER MAIN W/ 8" COUPLING |
|--|--|--|---|



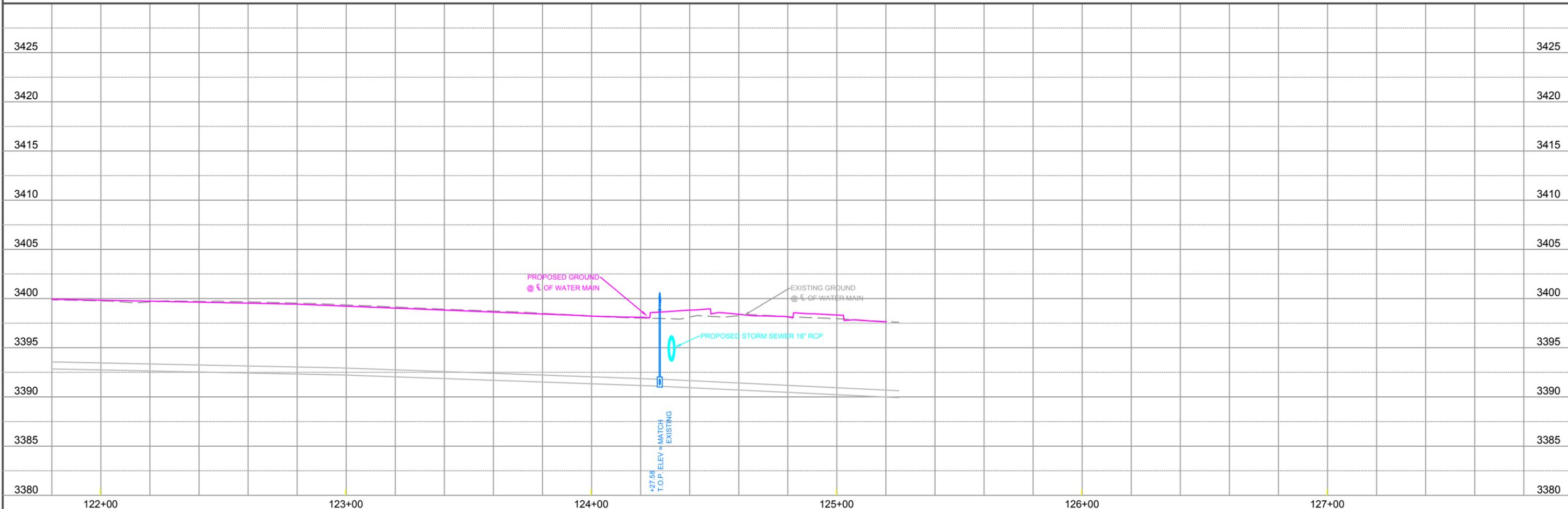
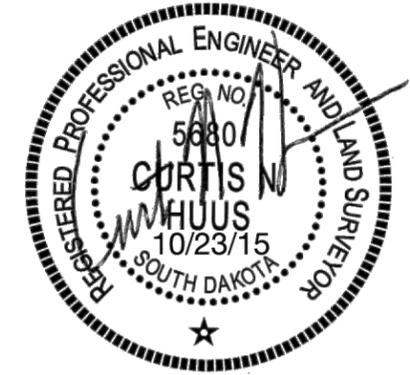
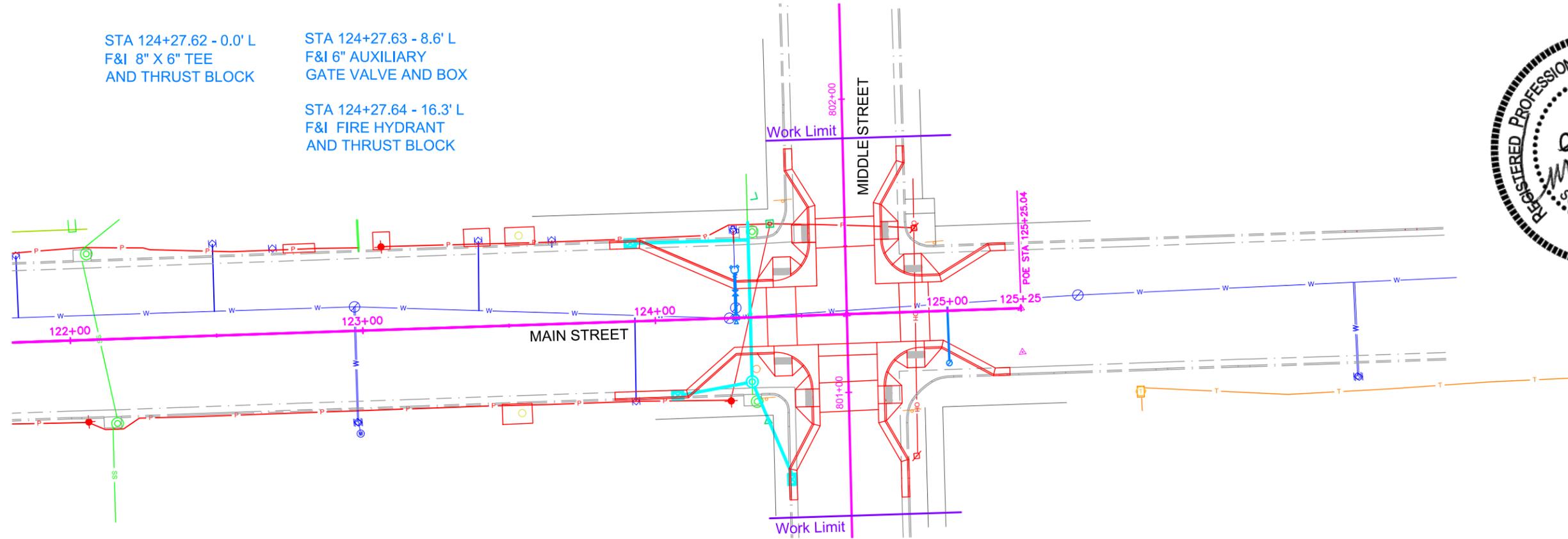
L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 10/15/2015 4:06:43 PM

WATER MAIN PLAN AND PROFILE

STA 124+27.62 - 0.0' L
 F&I 8" X 6" TEE
 AND THRUST BLOCK

STA 124+27.63 - 8.6' L
 F&I 6" AUXILIARY
 GATE VALVE AND BOX

STA 124+27.64 - 16.3' L
 F&I FIRE HYDRANT
 AND THRUST BLOCK



WATER MAIN PLAN AND PROFILE

STA 201+40.52 - 1.5' L
to 201+09.54 - 12.4' L
F&I WATER MAIN
ENCASEMENT - 35 LF

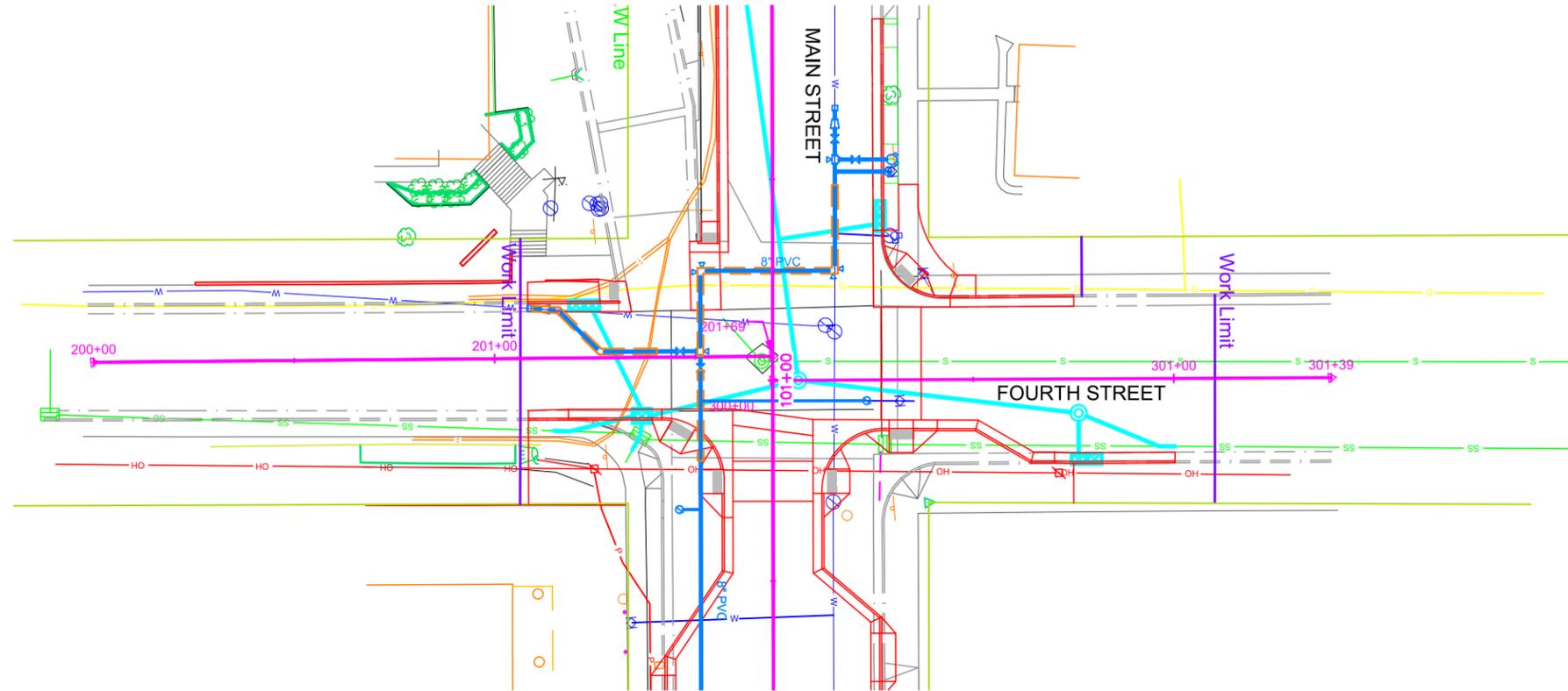
STA 201+26.32 - 1.5' L
F&I 8" 45 DEGREE BEND
AND THRUST BLOCK

STA 201+16.00 - 11.9' L
F&I 8" 45 DEGREE BEND
AND THRUST BLOCK

STA 201+12.68 - 12.2' L
F&I 8" X 6" REDUCER

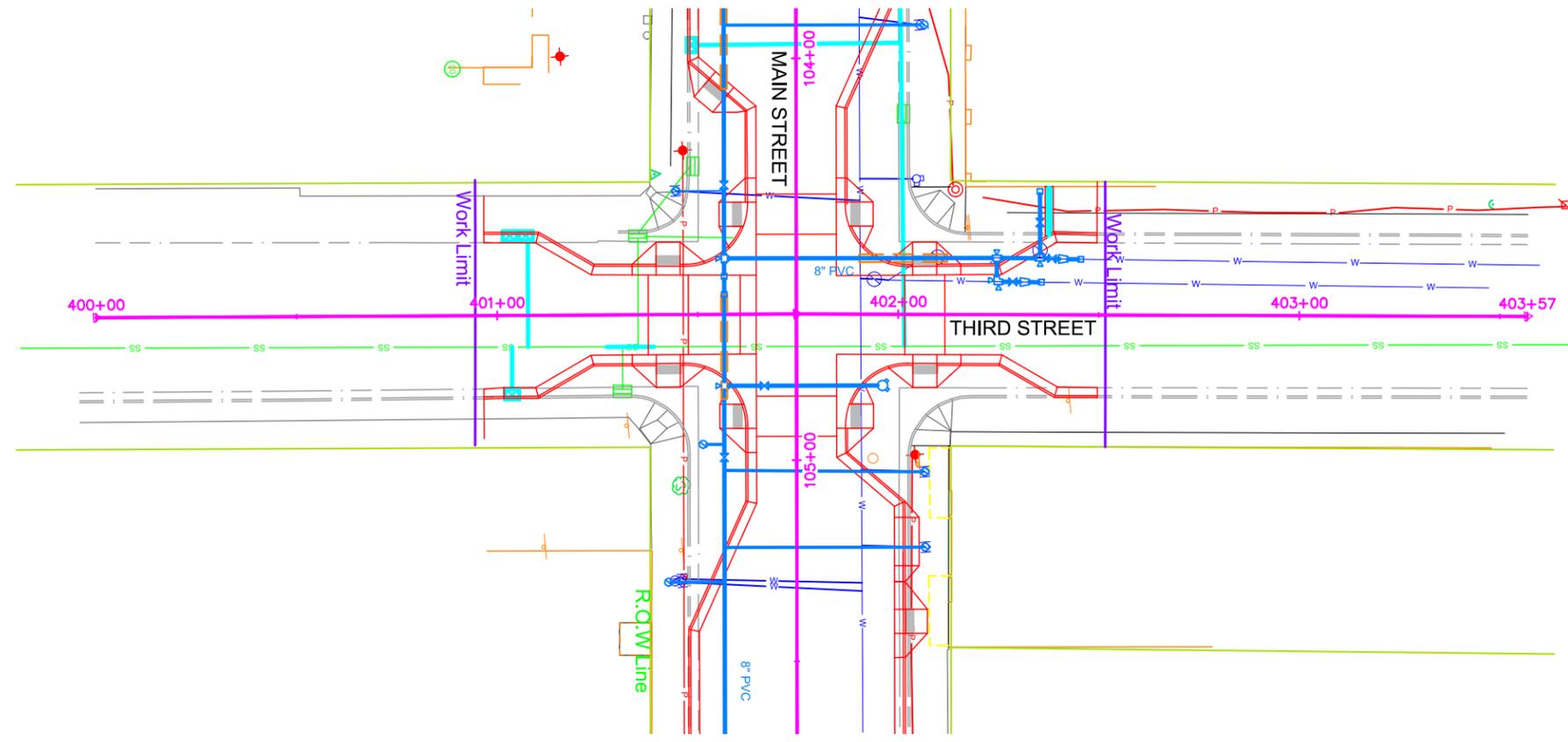
STA 201+09.49 - 12.4' L
CONNECT TO EXISTING 6"
WATER MAIN WITH COUPLING

STA 201+46.24 - 1.4' L
F&I 8" GATE VALVE AND BOX



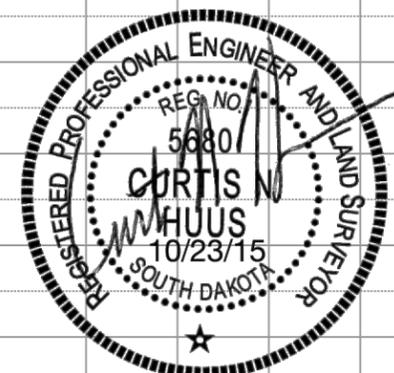
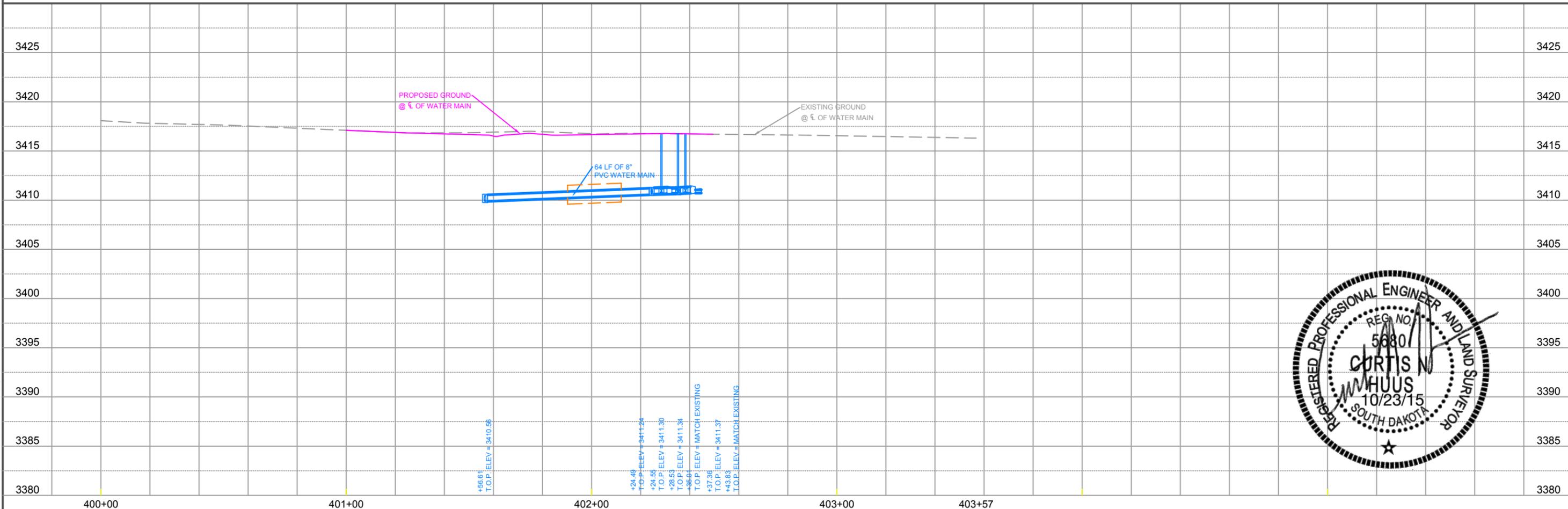
L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 2/24/2016 2:03:56 PM

WATER MAIN PLAN AND PROFILE



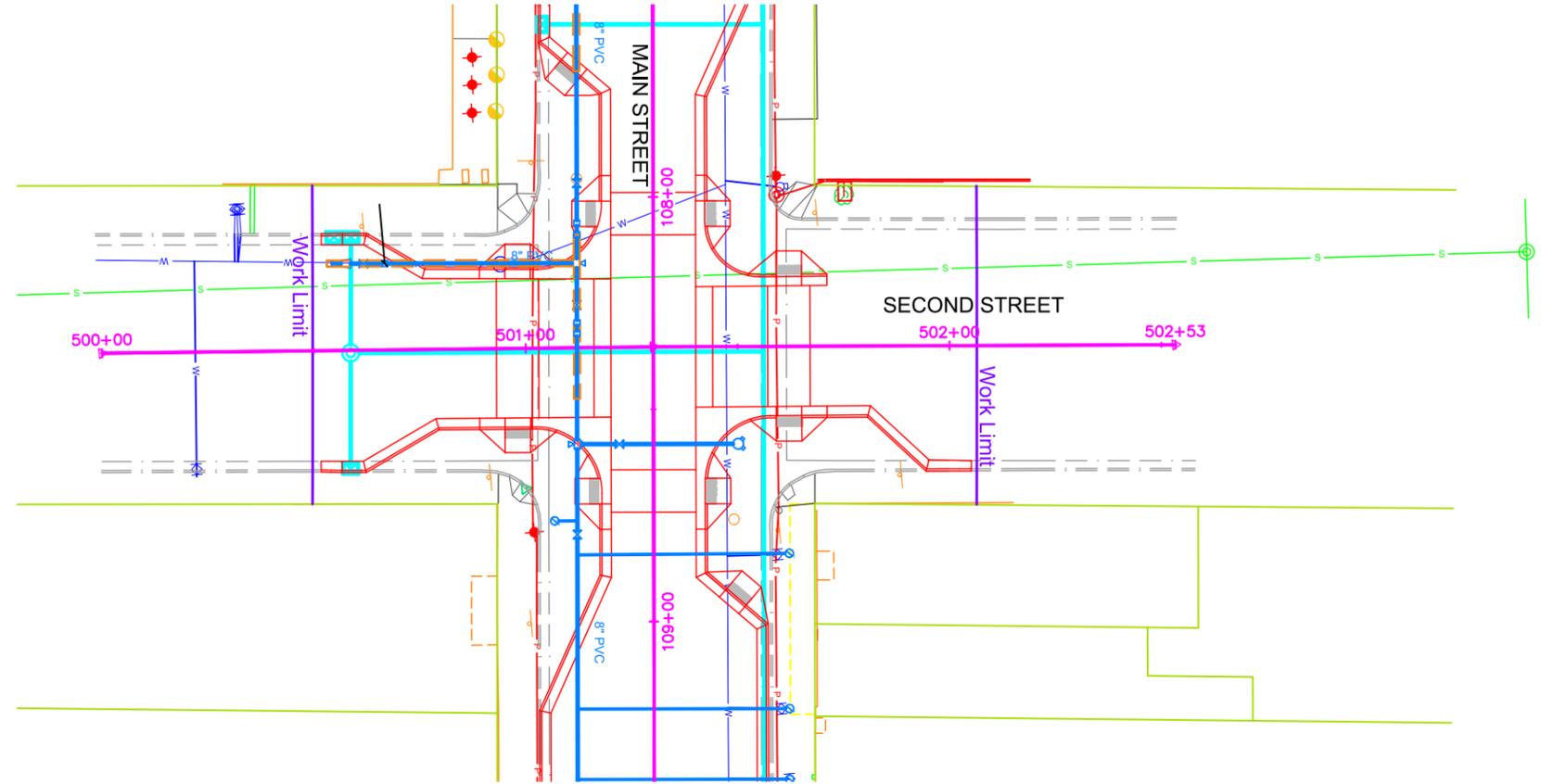
- STA 401+90.23 to 402+12.23 - 14.0' L
F&I WATER MAIN
ENCASEMENT, 22 LF
- STA 402+24.49 - 14.1' L
F&I 8" x 8" TEE
AND THRUST BLOCK
- STA 402+24.53 - 8.2' L
F&I 8" 90° BEND
- STA 402+28.60 - 8.2' L
F&I 8" GATE VALVE AND BOX
- STA 402+31.95 - 8.1' L
F&I 8" X 6" REDUCER
- STA 402+35.00 - 8.1' L
CONNECT TO EXISTING 6"
WATER MAIN WITH COUPLING

- STA 402+35.04 - 30.0' L
CONNECT TO EXISTING 4"
FIRE LINE
- STA 402+35.28 - 23.0' L
F&I 4" GATE VALVE AND BOX
- STA 402+35.32 - 14.1' L
F&I 8" X 8" X 4" TEE
- STA 402+38.31 - 14.0' L
F&I 8" GATE VALVE AND BOX
- STA 402+41.34 - 13.9' L
F&I 8" X 4" REDUCER
- STA 402+44.78 - 13.8' L
CONNECT TO EXISTING 4"
WATER MAIN WITH COUPLING



L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 10/15/2015 4:07:27 PM

WATER MAIN PLAN AND PROFILE

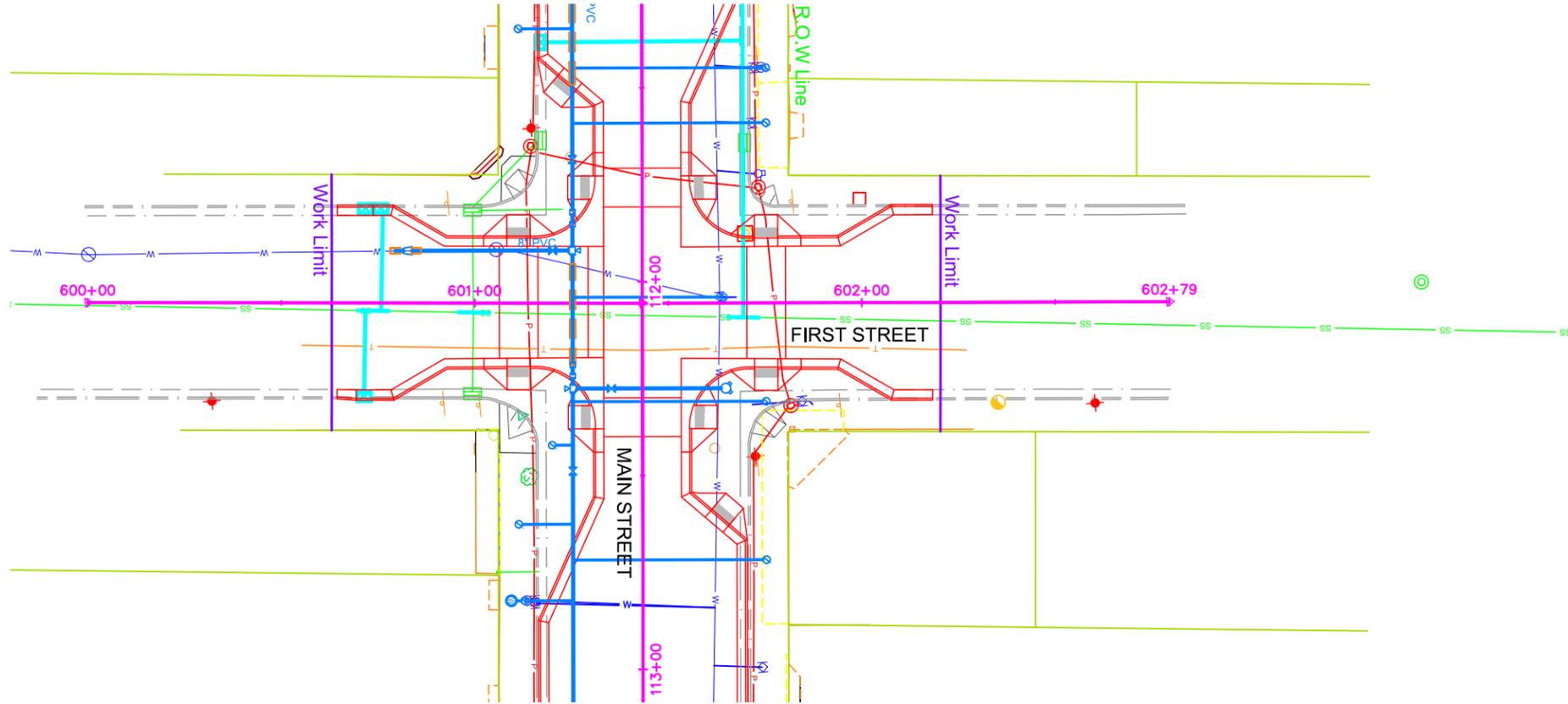


- STA 500+54.63 - 20.5' L
CONNECT TO EXISTING 6"
WATER MAIN WITH COUPLING
- STA 500+57.78 - 20.4' L
F&I 8" X 6" REDUCER
- STA 500+61.94 - 20.4' L
F&I 8" GATE VALVE AND BOX
- STA 500+66.97 - 20.3' L
F&I 8" HIGH DEFLECTION COUPLING
- STA 500+53.28 - 20.5' L
to 501+11.55 - 19.9' L
F&I WATER MAIN ENCASEMENT, 58 LF



L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 10/15/2015 4:07:37 PM

WATER MAIN PLAN AND PROFILE



STA 600+78.16 - 13.5' L to STA 600+86.06 - 13.5' L
F&I WATER MAIN
ENCASEMENT, 8 LF

STA 600+79.50 - 13.5' L
CONNECT TO EXISTING 6"
WATER MAIN WITH COUPLING

STA 600+82.40 - 13.5' L
F&I 8" X 6" REDUCER

STA 601+20.08 - 13.6' L
F&I 8" GATE VALVE AND BOX



L:\14-2030 Sturgis Main St Reconst\Drawings\Eng\Sheet Files\Section 014-2030 WATER PP.dwg 2/24/2016 2:04:36 PM