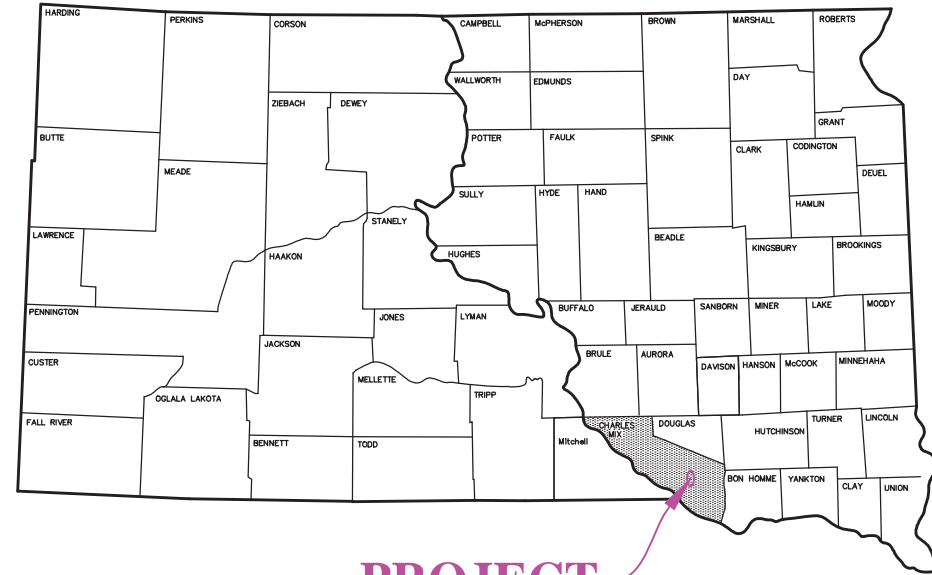


FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	1	57

REV 10/11/2024 RLA



STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED
SD HIGHWAY 50 & 46
CHARLES MIX COUNTY
 UTILITY REPLACEMENT
 CITY OF WAGNER
 PCN X06P

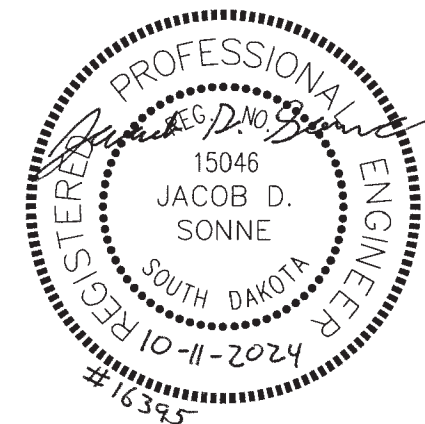
INDEX OF SHEETS

- 1 Cover
- 2 Estimate of Quantities
- 3 General Notes
- 4-5 Utility Legend
- 6-7 Erosion & Sediment Control Notes
- 8 Overall Map
- 9-44 Utility Plan and Profile Sheets
- 45 Pipe Bedding Details
- 46-49 Sewer Details
- 50-51 Water Details
- 52 Street Details
- 53-57 DOT Standard Plates



BEGIN 16395
Station 150+00

END 16395
Station 197+00



2

February 5, 2025

PLANS BY: SCHMUCKER, PAUL, NOHR AND ASSOCIATES
 SPN Project Number 15611

SPN & Associates
 Engineers, Planners and Surveyors
 2100 North Sanborn Blvd. - P.O. Box 398 Mitchell, South Dakota 57301
 Phone: (605) 996-7761 Fax: (605) 996-0015

SD 50 & 46	
Gross Length	4700.00 Feet 0.890 Miles
Length of Exemptions	0.00 Feet 0.000 Miles
Net Length	4700.00 Feet 0.890 Miles

Estimate of Quantities

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	2	57

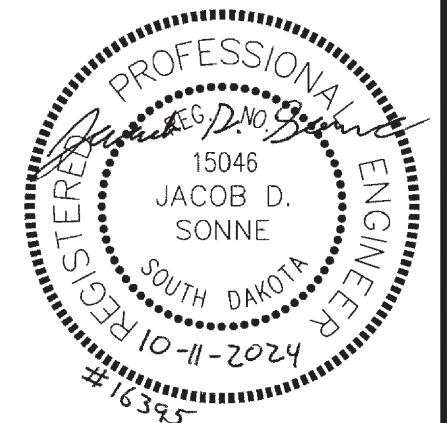
Non-Section Method

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	146	Ft
110E0460	Remove Manhole	6	Each
110E1010	Remove Asphalt Concrete Pavement	70.0	SqYd
110E1130	Remove Concrete Driveway Pavement	165.0	SqYd
110E1910	Remove Fire Hydrant	4	Each
110E1960	Remove Valve Box	3	Each
110E1965	Remove Gate Valve	3	Each
110E7150	Remove Sign for Reset	1	Each
260E1010	Base Course	79.9	Ton
260E3010	Gravel Surfacing	51.8	Ton
320E1200	Asphalt Concrete Composite	16.8	Ton
380E3020	6" PCC Driveway Pavement	145.1	SqYd
451E0012	12" PVC Encasement Pipe	1,069	Ft
451E0014	14" PVC Encasement Pipe	85	Ft
451E0604	4" PVC Water Main	11	Ft
451E0606	6" PVC Water Main	3,185	Ft
451E0608	8" PVC Water Main	23	Ft
451E0656	6" PVC Restrained Joint Water Main	1,628	Ft
451E0658	8" PVC Restrained Joint Water Main	143	Ft
451E0802	1" Copper Pipe	745	Ft
451E0808	2" Copper Pipe	24	Ft
451E0958	8" PVC Restrained Joint Sewer Main	300	Ft
451E0960	10" PVC Restrained Joint Sewer Main	59	Ft
451E0962	12" PVC Restrained Joint Sewer Main	10	Ft
451E0965	15" PVC Restrained Joint Sewer Main	122	Ft
451E1008	8" PVC Sewer Pipe	196	Ft
451E1204	4" Sewer Service	109	Ft
451E1550	Sanitary Sewer Video Inspection	687	Ft
451E2012	8"x4" Pipe Wye	1	Each
451E2207	6"x6" Pipe Tee	10	Each
451E2213	8"x6" Pipe Tee	2	Each
451E2307	6"x6" Pipe Cross	5	Each
451E2313	8"x6" Pipe Cross	1	Each
451E2406	6"x4" Pipe Reducer	3	Each
451E2600	Tapping Wye	3	Each
451E2802	1" Corporation Stop with Tapping Saddle	21	Each
451E2808	2" Corporation Stop with Tapping Saddle	2	Each
451E2902	1" Curb Stop with Box	21	Each
451E2908	2" Curb Stop with Box	2	Each
451E3006	6" Pipe Bend	9	Each
451E3106	6" Pipe Cap	2	Each
451E3108	8" Pipe Cap	1	Each

Non-Section Method

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
451E4204	4" Gate Valve with Box	1	Each
451E4206	6" Gate Valve with Box	26	Each
451E4208	8" Gate Valve with Box	1	Each
451E4380	Tracer Wire Access Box, Type 1	13	Each
451E4589	Install Fire Hydrant	7	Each
451E6080	Adjust Water Valve Box	38	Each
451E6095	Remove and Reset Valve and Box	3	Each
451E6100	Reconnect Water Service	23	Each
451E6105	Connect To Existing Water Main	15	Each
451E6515	Remove and Reset Fire Hydrant	2	Each
451E7010	Reconnect Sewer Service	2	Each
451E7016	Connect to Existing Sewer Main	11	Each
451E7020	Sewer Bypass Pumping	Lump Sum	LS
632E3500	Reset Sign	1	Each
650E2100	Special Concrete Curb and Gutter	146	Ft
671E1130	48" Manhole 0' to 6' Deep	7	Each
671E5510	Extra Depth for 48" Manhole	38.9	Ft
671E7010	Adjust Manhole	7	Each

REV 10/11/2024 RLA



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	3	57

SPECIFICATIONS

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

NOTE CONCERNING SANITARY SEWER AND WATER MAIN HIGHWAY CROSSINGS

Encasement pipe beneath highway crossings can have PVC encasement.

All encased carrier pipe joints for water and sanitary sewer main shall be restrained using spline locked joints, restraining gaskets, or AWWA fusible pipe.

NOTE CONCERNING SANITARY SEWER SERVICES

The locations of the sewer services shown on the plans are approximate locations. Contractor will verify locations during construction. Sanitary Service pipe shall be installed at a minimum 2% slope. Service lines shall have tracer wire installed per the plan detail. Temporary connections may be required based on project phasing. This work shall be considered incidental.

NOTE CONCERNING WATER SERVICES

The location of water services shown on the plans are approximate locations. Contractor will verify locations during construction. Water services that are located within 2 feet of storm sewer pipe or structures shall be insulate with 2" thick rigid insulation. This work shall be considered incidental. Temporary connections may be required based on project phasing. This work shall be considered incidental.

PROJECT CLEAN-UP AND SAFETY

The Contractor shall be responsible for and shall take all precautions necessary to avoid property damage to adjacent properties during construction activities.

The Contractor shall be solely responsible for job site conditions, including safety of all persons and property during performance of the work. The duty of the Engineer or Owner to conduct construction review of the Contractor's work is not intended to include the review or adequacy of the Contractor's safety measures in, on, or near the work site.

CONSTRUCTION EASEMENT AREAS

Care shall be taken by the Contractor to avoid damage to private property in and adjacent to the construction easement areas. All items for removal in the temporary easement areas are shown on the plans for the respective area. Care shall be taken by the Contractor to avoid damage to trees, fences, and other appurtenances in these areas. It shall be the responsibility of the Contractor to repair or replace any damage to the satisfaction of the property Owner and Engineer.

Damage to areas outside the work limits shall be the responsibility of the Contractor to repair or replace to the satisfaction of the property Owner and Engineer. No separate payment will be made for damage to property outside work limits.

STORM DRAINAGE MAINTENANCE

The Contractor shall maintain all storm drainage through the project during construction. The Contractor shall provide for and maintain drainage of storm waters away from existing buildings, homes, and exposed surfaces or provide immediate pumping of ponded areas on the work site. No compensation will be made for damage resulting from improper drainage during construction. All costs for maintaining storm water drainage through the project site will be considered incidental to the grading work.

WASTE DISPOSAL

It shall be the Contractor's responsibility to furnish a site(s) for the disposal of all other construction/demolition debris generated by this project. Construction/demolition debris may not be disposed of within the City 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 Engineer.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34a-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

SAWING IN EXISTING ASPHALT CONCRETE

Where new asphalt concrete composite meets existing asphalt concrete, the Contractor shall saw the asphalt concrete, to the full depth, to a true line with a vertical face. No separate payment will be made for sawing existing asphalt surfacing.

SAWING IN EXISTING CONCRETE

Where new PCC concrete surfacing meets existing concrete surfacing the Contractor shall saw the concrete, to the full depth, to a true line with a vertical face. No separate payment will be made for sawing existing concrete surfacing.

AGGREGATE BASE COURSE AND GRAVEL CUSHION

Base course shall be furnished by the Contractor and shall conform to the requirements of the Standard Specifications, Section 882, Aggregate Base Course.

WATER FOR COMPACTION OF GRANULAR MATERIALS

Water for compaction of granular materials shall be furnished by the Contractor. Water for compaction will not be measured for payment and will be incidental to the Granular Material.

GRAVEL SURFACING

Gravel surfacing shall meet the requirements of Section 882 of the Standard Specifications. Gravel surfacing shall be compacted to 95% standard proctor density (ASTM D-698) for the full depth of placement.

Gravel surfacing shall be measured to the nearest 0.1 ton and payment will be made at the unit price included in the proposal form.

PROJECT PHASING

To provide access to the public during construction, the project will be phased as shown in Section C of the NH-CR 0046(69)288 plan set. All temporary utility connections required to complete the work as shown on the plans will be considered incidental work.

ASPHALT CONCRETE

The Contractor shall furnish asphalt concrete. Mineral aggregate for asphalt concrete shall conform to the requirements of the 2015 Standard Specifications for Class E, Type 1. The asphalt cement shall be PG 64-22 or PG 64-28. The Contractor shall provide a job mix formula with the supporting mix design data prior to production.

Asphalt concrete shall be measured to the nearest 0.1 ton and payment will be made on the unit price per ton as provided in the proposal for "Asphalt Concrete Composite."

The asphalt concrete composite shall be placed in lifts not exceeding 3 inches. A bituminous tack coat (SS-1h or CSS-1h) shall be applied between each lift at a rate of 0.10 to 0.15 gallon per square yard. Bituminous tack coats will be incidental to the "Asphalt Concrete Composite."

BUY AMERICA

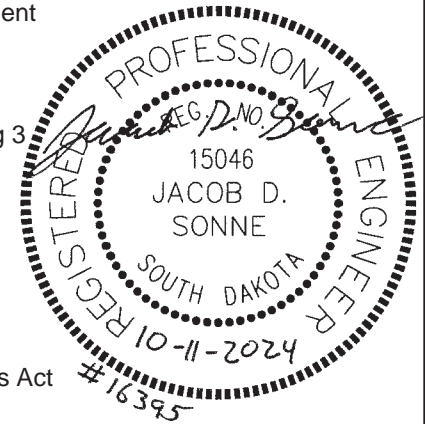
The work described in these plans is required to comply with the American Iron and Steel provision of the Consolidated Appropriations Act of 2014.

ADJUSTMENT OF MANHOLES AND WATER VALVE BOXES

The Contractor shall adjust manholes and water valve boxes to the extent necessary on this project.

Adjusting manholes may consist of removing the upper course of brick or removing the concrete walls, replacing the removed materials with brick or Class M6 concrete, placing adjusting rings if necessary, replacing the cone section with a shorter cone section, adding a barrel section, and resetting the manhole frame and lid. All manhole frames, lids, and rings that are cracked or broken due to carelessness of the Contractor shall be replaced with new manhole frames, lids, and rings that conform to the Specifications at the Contractor's expense.

Water valve boxes shall be adjusted by turning the riser section to increase or decrease height. This may require removal of base course and subgrade. Additional valve box extensions may also be required.

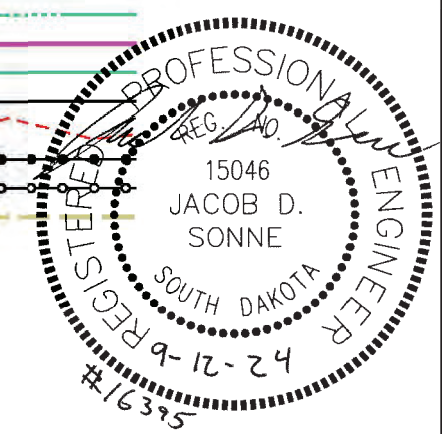


EXISTING TOPOGRAPHY SYMBOLOLOGY AND LEGEND

FOR BIDDING PURPOSES ONLY


















STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	4	57

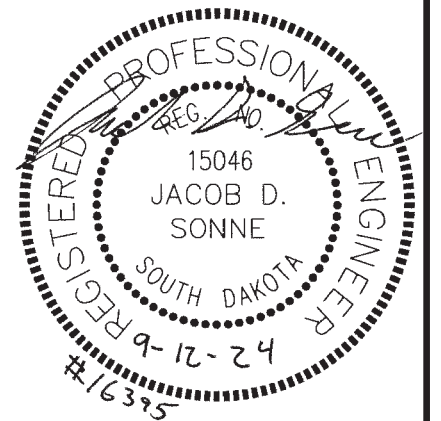
Anchor		Hedge		Shrub Tree	
Antenna		Highway R.O.W. Marker		Sidewalk	
Approach		Interstate Close Gate		Sign Face	
Assumed Corner		Iron Pin		Sign Post	
Azimuth Marker		Irrigation Ditch		Slough Or Marsh	
BBQ Grill/ Fireplace		Lake Edge		Spring	
Bearing Tree		Lawn Sprinkler		Stream Gauge	
Bench Mark		Mailbox		Street Marker	
Box Culvert		Manhole Electric		Subsurface Utility Exploration Test Hole	
Bridge		Manhole Gas		Telephone Fiber Optics	
Brush		Manhole Misc		Telephone Junction Box	
Buildings		Manhole Sanitary Sewer		Telephone Pole	
Bulk Tank		Manhole Storm Sewer		Television Cable Jct Box	
Cattle Guard		Manhole Telephone		Television Tower	
Cemetery		Manhole Water		Test Wells/Bore Holes	
Centerline		Merry-Go-Round		Traffic Signal	
Cistern		Microwave Radio Tower		Trash Barrel	
Clothes Line		Misc. Line		Tree Belt	
Commercial Sign Double Face		Misc. Property Corner		Tree Coniferous	
Commercial Sign One Post		Misc. Post		Tree Deciduous	
Commercial Sign Overhead		Overhang Or Encroachment		Tree Stumps	
Commercial Sign Two Post		Overhead Utility Line		Triangulation Station	
Concrete Symbol		Parking Meter		Underground Electric Line	
Creek Edge		Pipe With End Section		Underground Gas Line	
Curb/Gutter		Pipe With Headwall		Underground High Pressure Gas Line	
Curb		Pipe Without End Section		Underground Sanitary Sewer	
Dam Grade/Dike/Levee		Playground Slide		Underground Storm Sewer	
Deck Edge		Playground Swing		Underground Tank	
Ditch Block		Power And Light Pole		Underground Telephone Line	
Doorway Threshold		Power And Telephone Pole		Underground Television Cable	
Drainage Profile		Power Meter		Underground Water Line	
Drop Inlet		Power Pole		Warning Sign One Post	
Edge Of Asphalt		Power Pole And Transformer		Warning Sign Two Post	
Edge Of Concrete		Power Tower Structure		Water Fountain	
Edge Of Gravel		Propane Tank		Water Hydrant	
Edge Of Other		Property Pipe		Water Meter	
Edge Of Shoulder		Property Pipe With Cap		Water Tower	
Elec. Trans./Power Jct. Box		Property Stone		Water Valve	
Fence Barbwire		Public Telephone		Water Well	
Fence Chainlink		Railroad Crossing Signal		Weir Rock	
Fence Electric		Railroad Milepost Marker		Windmill	
Fence Misc.		Railroad Profile		Wingwall	
Fence Rock		Railroad R.O.W. Marker		Witness Corner	
Fence Snow		Railroad Signs			
Fence Wood		Railroad Switch		State and National Line	
Fence Woven		Railroad Track		County Line	
Fire Hydrant		Railroad Trestle		Section Line	
Flag Pole		Rebar		Quarter Line	
Flower Bed		Rebar With Cap		Sixteenth Line	
Gas Valve Or Meter		Reference Mark		Property Line	
Gas Pump Island		Regulatory Sign One Post		Construction Line	
Grain Bin		Regulatory Sign Two Post		R. O. W. Line	
Guardrail		Retaining Wall		New R. O. W. Line	
Guide Sign One Post		Riprap		Cut and Fill Limits	
Guide Sign Two Post		River Edge		Control of Access	
Gutter		Rock And Wire Baskets		New Control of Access	
Guy Pole		Rockpiles		Proposed ROW (After Property Disposal)	
Haystack		Satellite Dish			
		Septic Tank			



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	5	57

GENERAL LEGEND

-  = Existing Sanitary Sewer
-  = Existing Water Line
-  = Proposed Fire Hydrant
-  = Proposed Water Valve
-  = Proposed Curb Stop
-  = Proposed Water Saddle
-  = Proposed Water Line
-  = Proposed PVC Encasement Pipe
-  = Proposed Connect to Existing Water
-  = Proposed Sanitary Sewer Manhole
-  = Proposed Cleanout
-  = Proposed Sanitary Sewer Line
-  = Proposed Connect to Existing Pipe or Appurtenance
-  = Proposed Gravel Surfacing
-  = Remove Concrete Pavement
-  = Remove Concrete Curb and/or Gutter
-  = Remove Asphalt Concrete Pavement



STORM WATER POLLUTION PREVENTION PLAN CHECKLIST

(The numbers right of the title headings are reference numbers to the GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES)

SITE DESCRIPTION (4.2 1)

- Project Limits: See Title Sheet (4.2 1.b)
- Project Description: See Title Sheet (4.2 1.a.)
- Site Map(s): See Title Sheet and Plans (4.2 1.f. (1)-(6))
- Major Soil Disturbing Activities (check all that apply)
 - Clearing and grubbing
 - Excavation/borrow
 - Grading and shaping
 - Filling
 - Cutting and filling
 - Other (describe): Trenching and Backfilling
- Total Project Area 6.55 Acres (4.2 1.b.)
- Total Area To Be Disturbed 2.84 Acres (4.2 1.b.)
- Existing Vegetative Cover (5%)
- Soil Properties: AASHTO Soil or USDA-NRCS Soil Series Classification A-6 (4.2 1. d.)
- Name of Receiving Water Body/Bodies Choteau Creek (4.2 1.e.)

ORDER OF CONSTRUCTION ACTIVITIES (4.2 1.c.)

- (Stabilization measures shall be initiated as soon as possible, but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Initiation of final or temporary stabilization may exceed the 14-day limit if earth disturbing activities will be resumed within 21 days.)
- Install sediment control as necessary.
 - Remove street surfacing.
 - Install underground utilities.
 - Install inlet protection.
 - Grade the site.
 - Install concrete curb and gutter.
 - Install street surfacing.
 - Place topsoil and seed.

EROSION AND SEDIMENT CONTROLS (4.2 2.a.(1)(a)-(f))

(Check all that apply)

- Stabilization Practices (See Detail Plan Sheets)
 - Temporary Seeding (Cover Crop Seeding)
 - Permanent Seeding
 - Sodding
 - Planting (Woody Vegetation for Soil Stabilization)
 - Mulching (Grass Hay or Straw)
 - Hydraulic Mulch (Wood Fiber Mulch)
 - Soil Stabilizer
 - Bonded Fiber Matrix
 - Erosion Control Blankets or Mats
 - Vegetation Buffer Strips
 - Roughened Surface (e.g. tracking)
 - Dust Control (See Section F - Surfacing Plans)
 - Other: Hydro Mulch

➤ Structural Temporary Erosion and Sediment Controls

- Silt Fence
- Floating Silt Curtain
- Straw Bale Check
- Temporary Berm
- Temporary Slope Drain
- Straw Wattles or Rolls
- Turf Reinforcement Mat
- Rip Rap
- Gabions
- Rock Check Dams
- Sediment Traps/Basins
- Inlet Protection
- Outlet Protection
- Surface Inlet Protection (Area Drain)
- Curb Inlet Protection
- Stabilized Construction Entrances
- Entrance/Exit Equipment Tire Wash
- Interceptor Ditch
- Concrete Washout Facility
- Temporary Diversion Channel
- Work Platform
- Temporary Water Barrier
- Temporary Water Crossing
- Other:

➤ Wetland Avoidance

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes No If yes, the structural and erosion and sediment controls have been included in the total project wetland impacts and have been included in the 404 permit process with the USACE.

➤ Storm Water Management (4.2 2.b., (1) and (2))

Storm water management will be handled by temporary controls outlined in "EROSION AND SEDIMENT CONTROLS" above, and any permanent controls needed to meet permanent storm water management needs in the post construction period. Permanent controls will be shown on the plans and noted as permanent.

➤ Other Storm Water Controls (4.2 2.c., (1) and (2))

- Waste Disposal

All liquid waste materials will be collected and stored in sealed metal containers approved by the project engineer. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal, and notices stating proper practices will be posted in the field office. The general Contractor's representative responsible for the conduct of work on the site will be responsible for seeing waste disposal procedures are followed.
- Hazardous Waste

All hazardous waste materials will be disposed of in a manner specified by local or state regulations or by the manufacturer. Site personnel will be instructed in these practices, and the individual designated as the Contractor's on-site representative will be responsible for seeing that these practices are followed.
- Sanitary Waste

Portable sanitary facilities will be provided on all construction sites. Sanitary waste will be collected from the portable units in a timely manner by a licensed waste management Contractor or as required by any local regulations.

MAINTENANCE AND INSPECTION (4.2 3. and 4.2 4.)

- Maintenance and Inspection Practices
 - Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
 - All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.
 - Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches 1/3 of the height of the silt fence.
 - Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction.
 - Check dams will be inspected for stability. Sediment will be removed when depth reaches ½ the height of the dam.
 - All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations.
 - Inspection and maintenance reports will be prepared on form DOT 298 for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents.
 - The SDDOT Project Engineer and Contractor's Erosion Control Supervisor are responsible for inspections. Maintenance, repair activities are the responsibility of the Contractor. The SDDOT Project Engineer will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

NON-STORM WATER DISCHARGES (3.0)

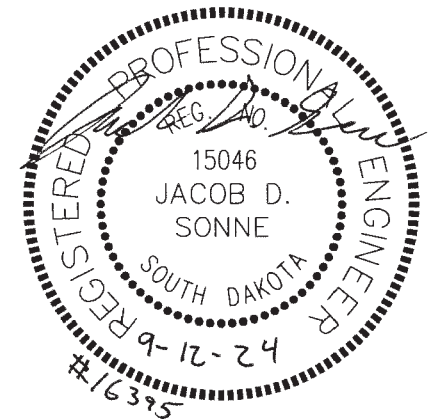
The following non-storm water discharges are anticipated during the course of this project (check all that apply).

- Discharges from water line flushing.
- Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.
- Uncontaminated ground water associated with dewatering activities.

MATERIALS INVENTORY (4.2. 2.c.(2))

The following materials or substances are expected to be present on the site during the construction period. These materials will be handled as noted under the headings "EROSION AND SEDIMENT CONTROLS" and "SPILL PREVENTION" (check all that apply).

- Concrete and Portland Cement
- Detergents
- Paints
- Metals
- Bituminous Materials
- Petroleum Based Products
- Cleaning Solvents
- Wood
- Cure
- Texture
- Chemical Fertilizers
- Other:



SPILL PREVENTION (4.2 2.c.(2))

➤ Material Management

▪ Housekeeping

- Only needed products will be stored on-site by the Contractor.
- Except for bulk materials the contractor will store all materials under cover and in appropriate containers.
- Products must be stored in original containers and labeled.
- Material mixing will be conducted in accordance with the manufacturer's recommendations.
- When possible, all products will be completely used before properly disposing of the container off-site.
- The manufacturer's directions for disposal of materials and containers will be followed.
- The Contractor's site superintendent will inspect materials storage areas regularly to ensure proper use and disposal.
- Dust generated will be controlled in an environmentally safe manner.
- Vegetation areas not essential to the construction project will be preserved and maintained as noted on the plans.

▪ Hazardous Materials

- Products will be kept in original containers unless the container is not resealable.
- Original labels and material safety data sheets will be retained in a safe place to relay important product information.
- If surplus product must be disposed of, manufacturer's label directions for disposal will be followed.
- Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, de-greasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants will be conducted on an impervious surface and under cover during wet weather to prevent the release of contaminants onto the ground.
- Wheel wash water will be collected and allowed to settle out suspended solids prior to discharge. Wheel wash water will not be discharged directly into any storm water system or storm water treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, residuals from concrete saw cutting (either wet or dry), and mixer washout waters will be collected on site and managed to prevent contamination of storm water runoff.

➤ Product Specific Practices (6.8)

▪ Petroleum Products

All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.

▪ Fertilizers

Fertilizers will be applied only in the amounts specified by the SDDOT. Once applied, fertilizers will be worked into the soil to limit the exposure to storm water. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.

▪ Paints

All containers will be tightly sealed and stored when not required for use. The excess will be disposed of according to the

manufacturer's instructions and any applicable state and local regulations.

▪ Concrete Trucks

Contractors will provide designated truck washout facilities on the site. These areas must be self-contained and not connected to any storm water outlet of the site. Upon completion of construction, the area at the washout facility will be properly stabilized.

➤ Spill Control Practices (4.2 2 c.(2))

In addition to the previous housekeeping and management practices, the following practices will be followed for spill prevention and cleanup if needed.

- For all hazardous materials stored on site, the manufacturer's recommended methods for spill cleanup will be clearly posted. Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
- Appropriate cleanup materials and equipment will be maintained by the Contractor in the materials storage area on-site. As appropriate, equipment and materials may include items such as brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for cleanup purposes.
- All spills will be cleaned immediately after discovery and the materials disposed of properly.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- After a spill a report will be prepared describing the spill, what caused it, and the cleanup measures taken. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, as well as clean up instructions in the event of reoccurrences.
- The Contractor's site superintendent, responsible for day-to-day operations, will be the spill prevention and cleanup coordinator. The Contractor is responsible for ensuring that the site superintendent has had appropriate training for hazardous materials handling, spill management, and cleanup.

➤ Spill Response (4.2 2 c.(2))

The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into storm water runoff and conveyance systems. If the release has impacted on-site storm water, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens storm water or surface water at the site, the spill response procedures outlined below must be implemented in a timely manner to prevent the release of pollutants.

- The Contractor's site superintendent will be notified immediately when a spill or the threat of a spill is observed. The superintendent will assess the situation and determine the appropriate response.
- If spills represent an imminent threat of escaping erosion and sediment controls and entering receiving waters, personnel will be directed to respond immediately to contain the release and notify the superintendent after the situation has been stabilized.
- Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the Contractor at the site.

If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The Contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed or repaired as necessary to prevent further releases.

- If a spill occurs the superintendent or the superintendent's designee will be responsible for completing the spill reporting form and for reporting the spill to SD DANR.
- Personnel with primary responsibility for spill response and clean up will receive training by the Contractor's site superintendent or designee. The training must include identifying the location of the spill kits and other spill response equipment and the use of spill response materials.
- Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response activities.

SPILL NOTIFICATION

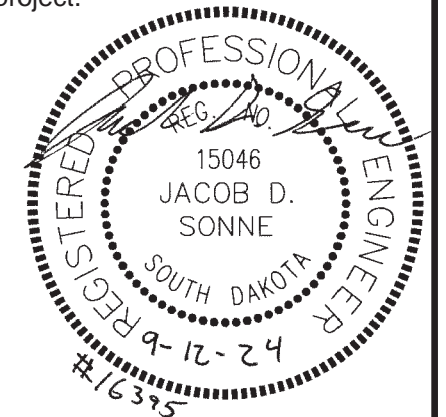
In the event of a spill, the Contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures:

- A release or spill of a regulated substance (includes petroleum and petroleum products) must be reported to DANR immediately if any one of the following conditions exists:
 - The discharge threatens or is in a position to threaten the waters of the state (surface water or ground water).
 - The discharge causes an immediate danger to human health or safety.
 - The discharge exceeds 25 gallons.
 - The discharge causes a sheen on surface water.
 - The discharge of any substance that exceeds the ground water quality standards of ARSD (Administrative Rules of South Dakota) chapter 74:51:01.
 - The discharge of any substance that exceeds the surface water quality standards of ARSD chapter 74:51:01.
 - The discharge of any substance that harms or threatens to harm wildlife or aquatic life.
 - The discharge of crude oil in field activities under SDCL (South Dakota Codified Laws) chapter 45-9 is greater than 1 barrel (42 gallons).

To report a release or spill, call DANR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central time). To report the release after hours, on weekends or holidays, call State Radio Communications at 605-773-3231. Reporting the release to DANR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, the responsible person must also contact local authorities to determine the local reporting requirements for releases. DANR recommends that spills also be reported to the National Response Center at (800) 424-8802.

CONSTRUCTION CHANGES (4.4)

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Pollution Prevention Plan (SWPPP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SDDOT Project Engineer will modify the SWPPP plan (DOT 298) and drawings to reflect the needed changes. Copies of changes will be routed per DOT 298. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.

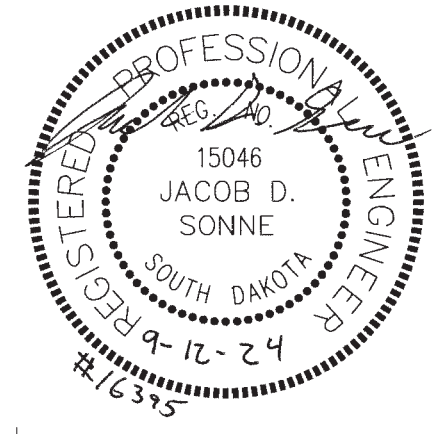


FOR BIDDING PURPOSES ONLY

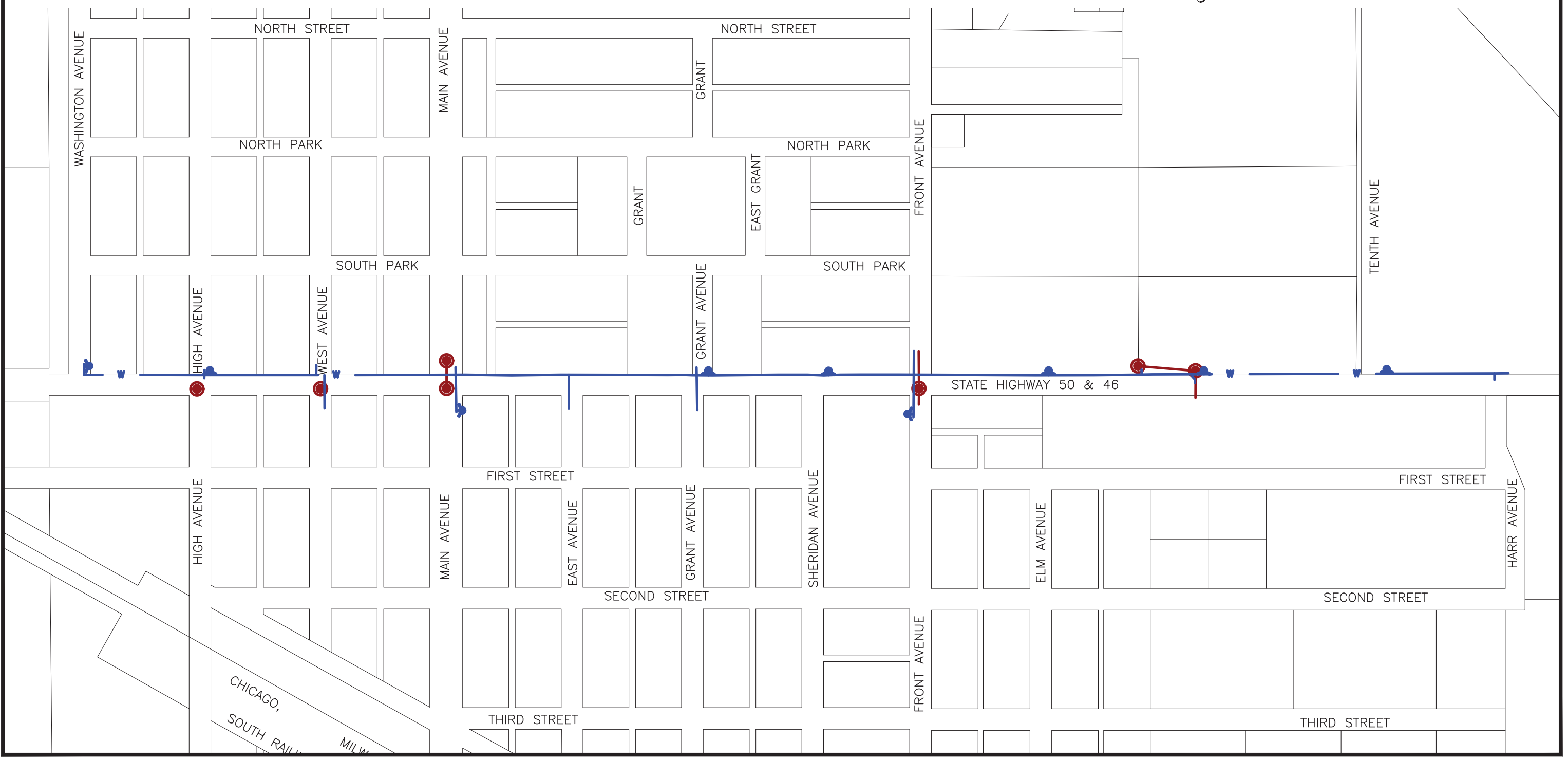
STATE OF SOUTH DAKOTA	PROJECT 16395	SHEET 8	TOTAL SHEETS 57
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Legend

- Proposed Sanitary Manhole
- Proposed Sanitary Pipe
- Proposed Fire Hydrant
- Proposed Water Pipe



Scale: 1" = 300'



Proposed Sanitary Sewer Notes:

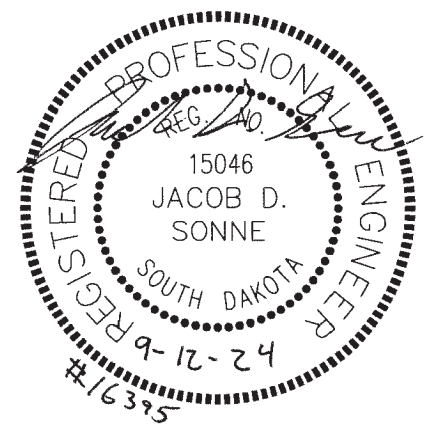
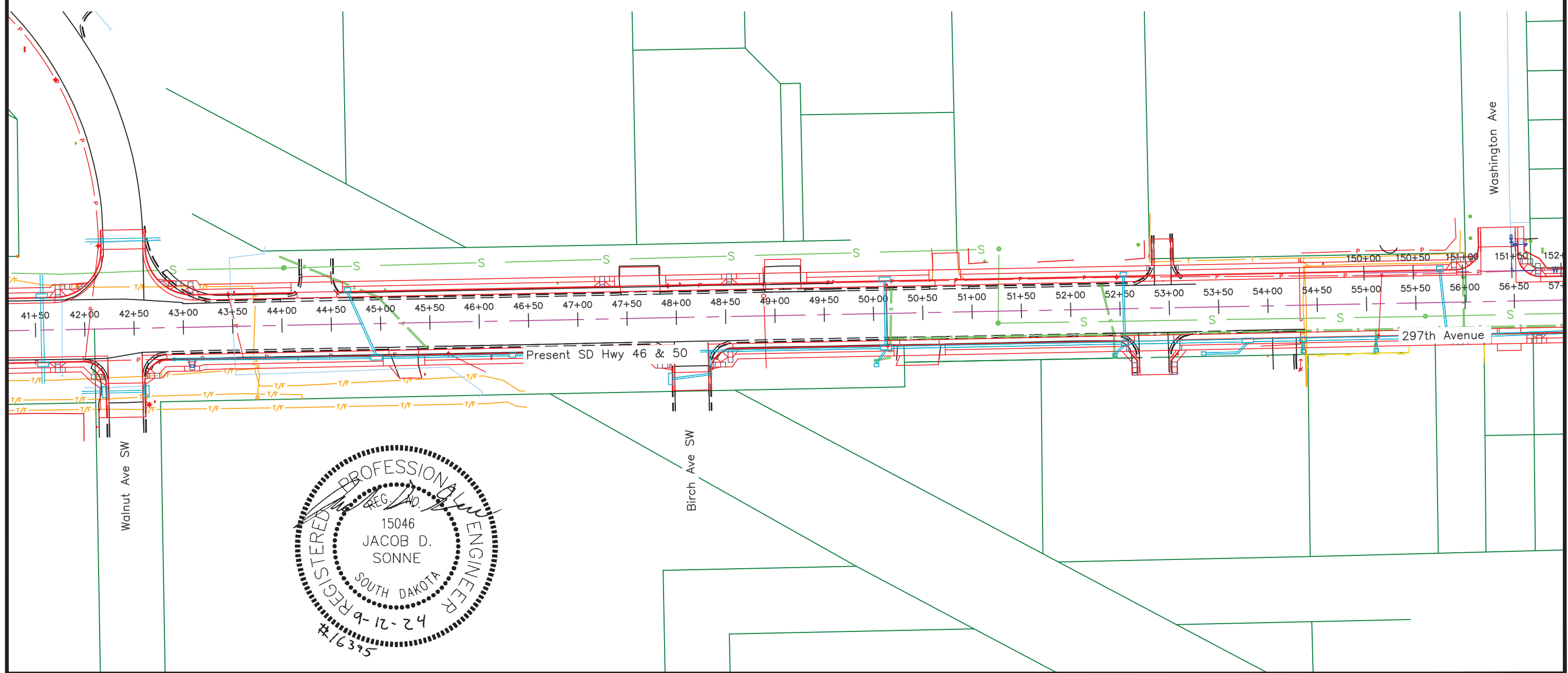
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	9	57

Install
Adjust Manhole
51+26-12' R (Lower 0.03')
55+60-14' R (Lower 0.31')



Scale: 1" = 100'



Proposed Sanitary Sewer Notes:

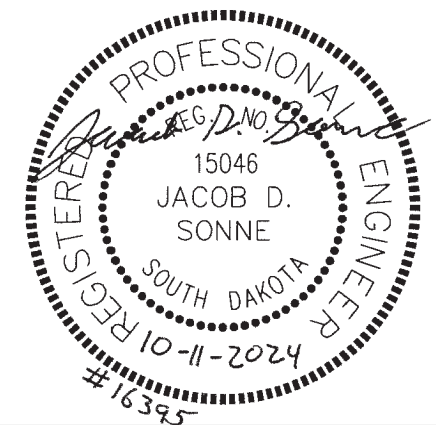
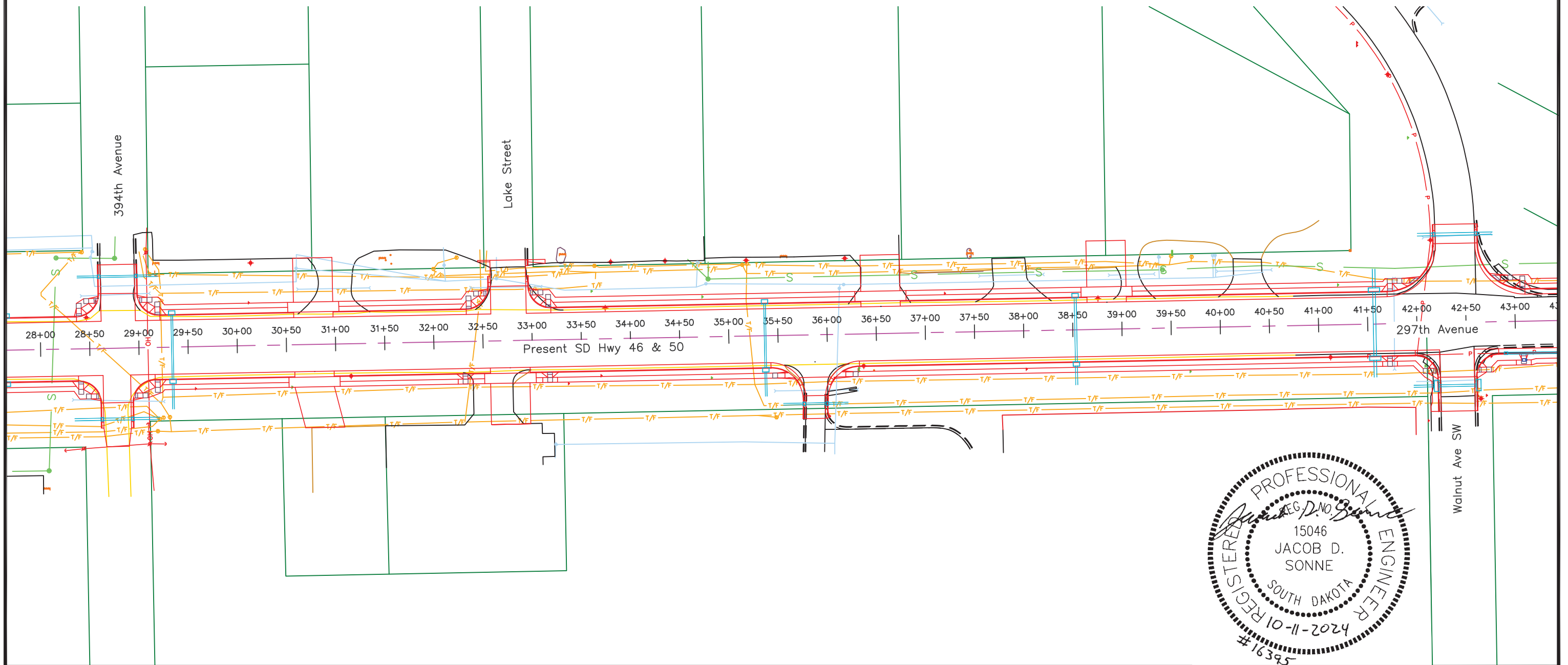
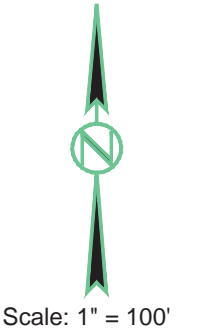
Install
Adjust Manhole
34+80-59' L (Lower 0.29')
39+42-59' L (Raise 0.25')

Proposed Water Main Notes:

Install
Adjust Water Valve Box
30+61-78' L (Lower 0.97')
32+12-78' L (Raise 0.09')
34+78-54' L (Raise 1.12')
35+65-63' L (Raise 0.70')
36+14-47' L (Raise 2.62')
36+18-50' L (Raise 1.57')
39+94-73' L (Lower 0.32')
39+96-73' L (Lower 0.24')

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	10	57

REV 10/11/2024 RLA



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	11	57

Remove and Dispose
Fire Hydrant
151+63-29' L

Install
Connect to Existing 6" PVC
151+50-33' L

Install
6" PVC Water Main
151+50-33' to \varnothing (33')
151+50-26' L to 151+65-27' L (15')
151+50 to 152+84- \varnothing (134')
153+11 to 153+86- \varnothing (75')

Install
6" PVC Restrained Joint Water Main
152+84 to 153+11- \varnothing (27')
153+86 to 155+15- \varnothing (129')

Install
6" Gate Valve With Box
151+50-31' L
151+54-26' L
155+09- \varnothing

Install
6"x6" Pipe Tee
151+50-26' L

Install
6" Pipe Bend (90°)
151+50- \varnothing

Install
Fire Hydrant
151+84-27' L

Install
Tracer Wire Access Box
151+84-27' L

Install
12" PVC Encasement Pipe
152+84 to 153+11- \varnothing (27')
153+86 to 154+68- \varnothing (82')

Install
1" Copper Pipe
154+71- \varnothing to 154+62-20' L (22')

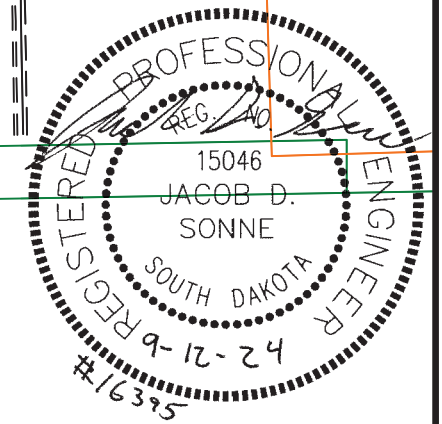
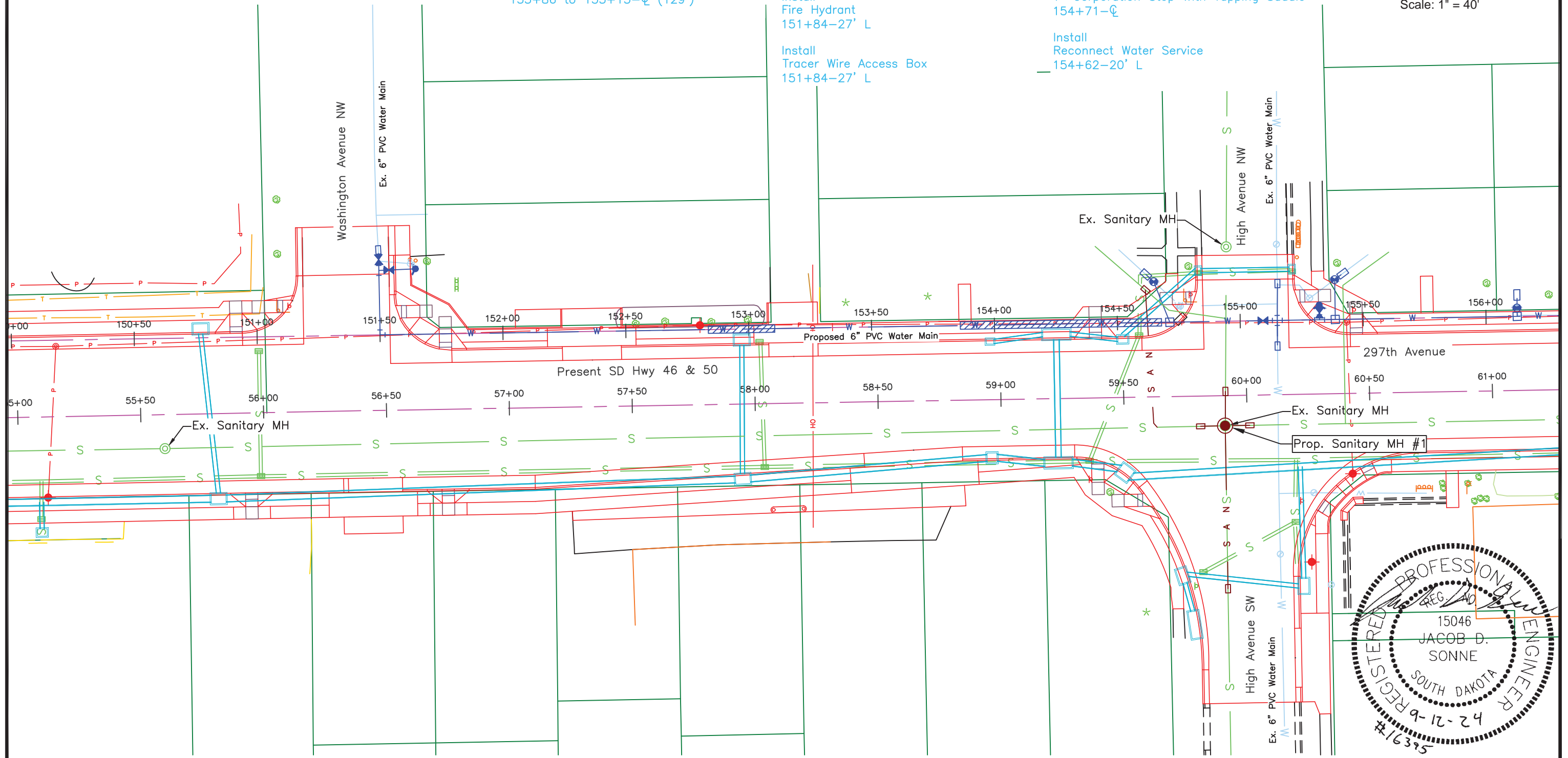
Install
1" Curb Stop With Box
154+65-17' L

Install
1" Corporation Stop With Tapping Saddle
154+71- \varnothing

Install
Reconnect Water Service
154+62-20' L



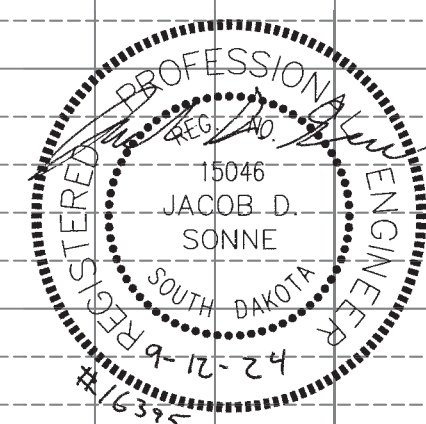
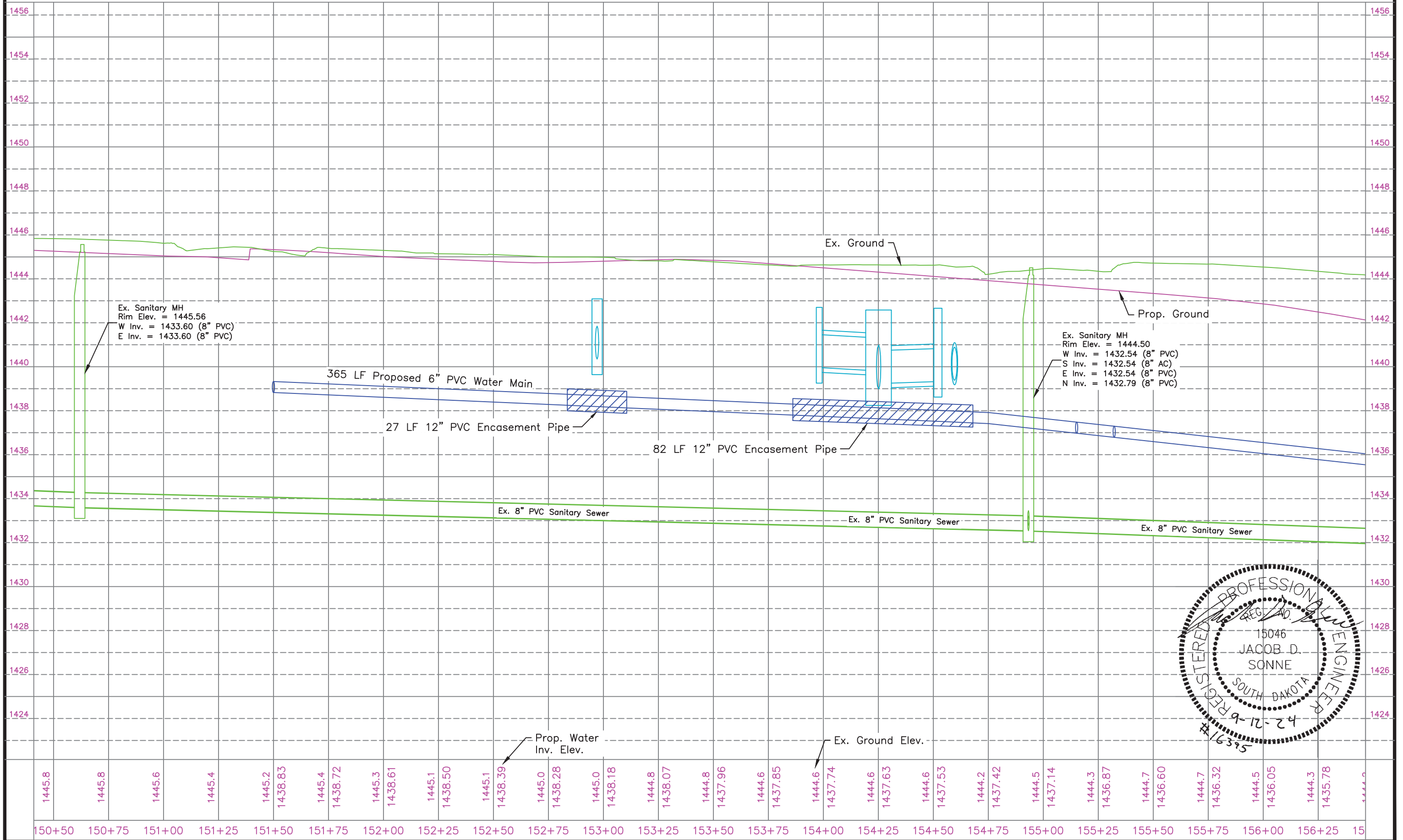
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	12	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Sanitary Sewer Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	13	57

Remove and Dispose
Manhole
203+60- ϕ

Install
Connect to Existing 8" PVC Sewer Main
202+94- ϕ
203+60-10' L
203+61-10' R
203+74- ϕ

Install
8" PVC Restrained Joint Sewer Main
202+94- ϕ to 203+60- ϕ (66')
203+60- ϕ to 203+74- ϕ (14')
203+60-10' to ϕ (10')
203+60- ϕ to 203+61-10' R (10')

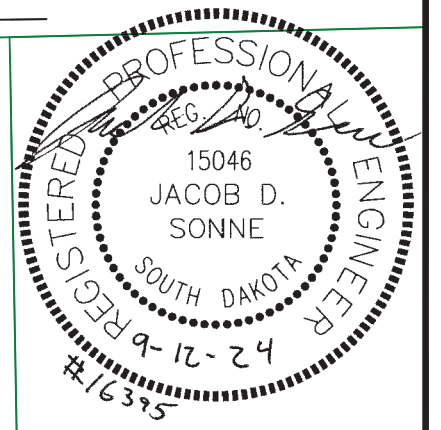
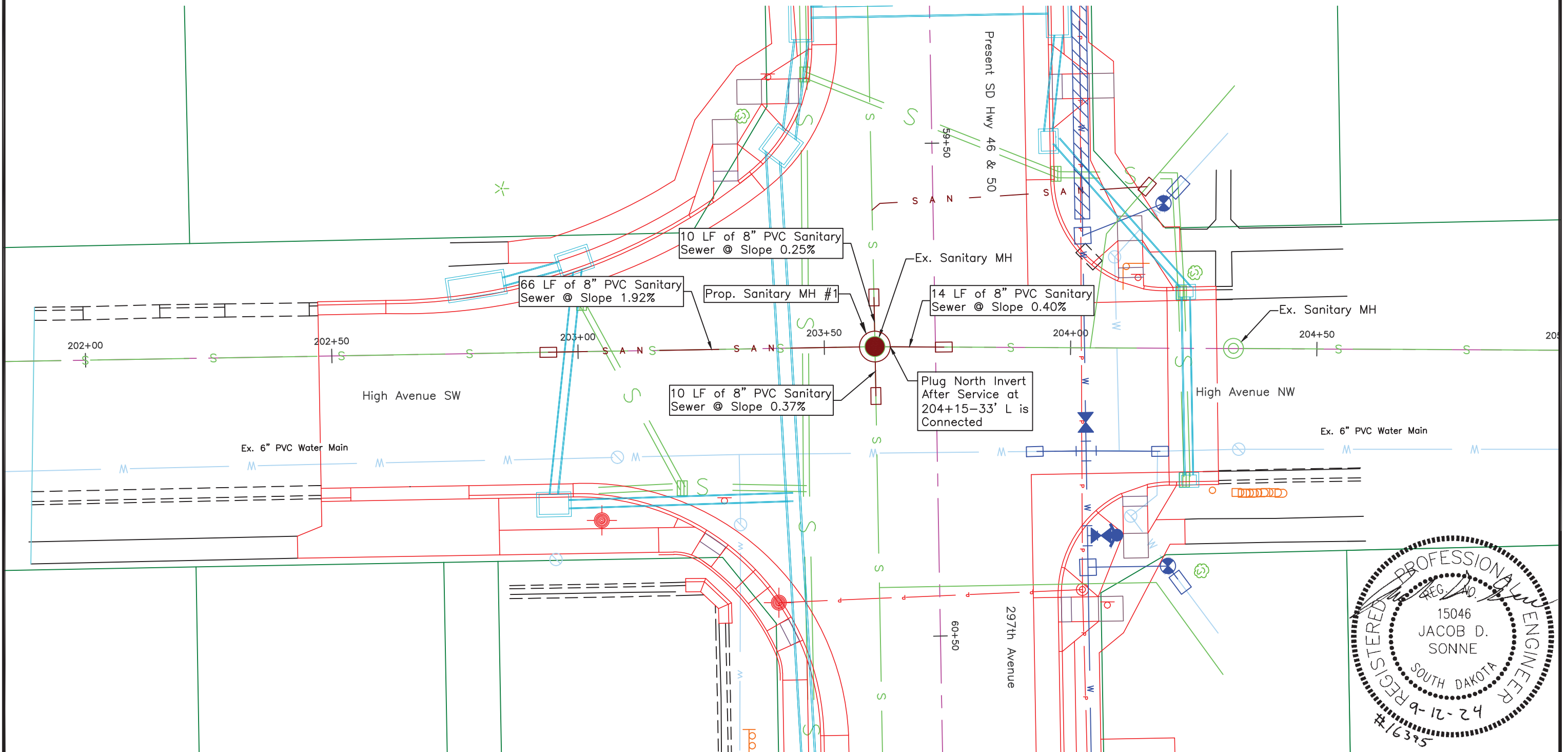
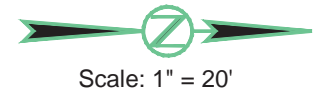
Install
48" Manhole
203+60- ϕ

Install
8"x4" Inserted Tee
203+60-29' L

Install
4" PVC Sewer Service
203+60-29' L to 204+15-33' L (56')

Install
Reconnect Sewer Service
204+15-33' L

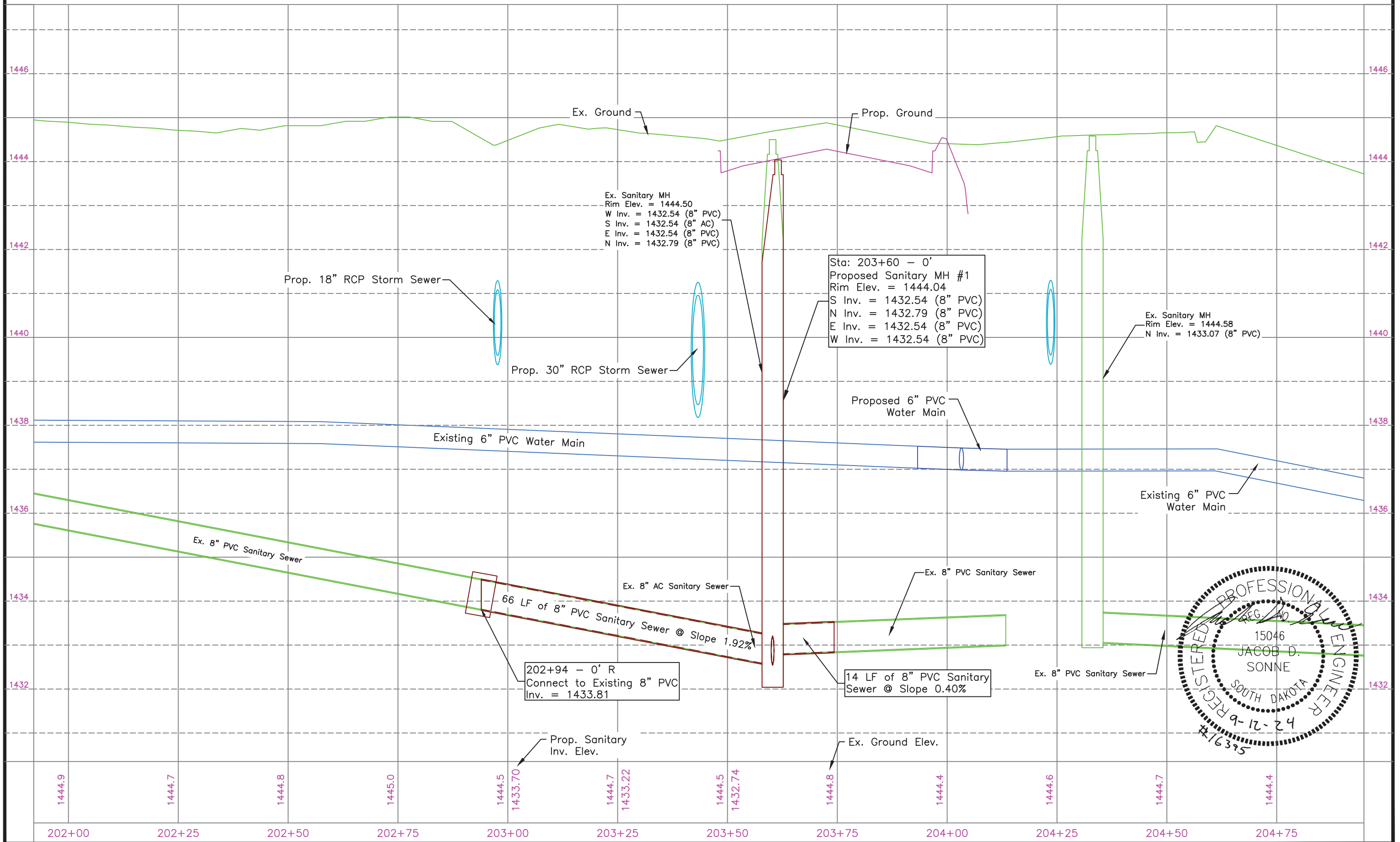
Install
Tracer Wire Access Box
204+15-33' L



High Avenue Profile View of Sanitary Sewer & Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	14	57
Horiz. Scale: 1" = 20'		Vert. Scale: 1" = 2'	



Ex. Sanitary MH
Rim Elev. = 1444.50
W Inv. = 1432.54 (8" PVC)
S Inv. = 1432.54 (8" AC)
E Inv. = 1432.54 (8" PVC)
N Inv. = 1432.79 (8" PVC)

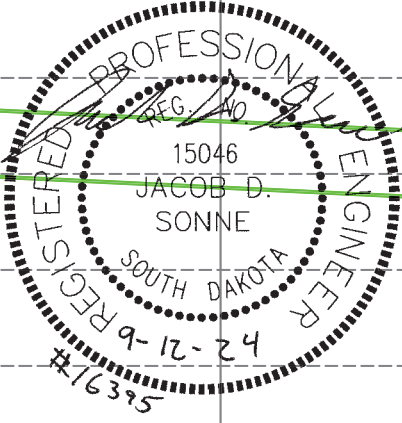
Sta: 203+60 - 0'
Proposed Sanitary MH #1
Rim Elev. = 1444.04
S Inv. = 1432.54 (8" PVC)
N Inv. = 1432.79 (8" PVC)
E Inv. = 1432.54 (8" PVC)
W Inv. = 1432.54 (8" PVC)

Ex. Sanitary MH
Rim Elev. = 1444.58
N Inv. = 1433.07 (8" PVC)

66 LF of 8" PVC Sanitary Sewer @ Slope 1.92%

202+94 - 0' R
Connect to Existing 8" PVC
Inv. = 1433.81

14 LF of 8" PVC Sanitary
Sewer @ Slope 0.40%



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	15	57

Install
Adjust Water Valve Box
115+15-95' R (Lower 0.44')
115+29-70' R (Lower 0.76')

Install
Connect to Existing 6" PVC
155+15-15' L
155+15-10' R

Install
6" Foster Adapter (Incidental)
155+32-CL

Install
1" Copper Pipe
155+39-CL to 155+41-18' L (20')
156+13-CL to 156+13-7' L (7')
158+31-CL to 158+21-13' L (17')

Install
6" PVC Water Main
155+15-15' L to 10' R (25')
155+32-CL to 6' L (6)
155+32-CL to 158+02-CL (270')
155+32-CL to 155+32-6'L (6')

Install
6"x6" Pipe Tee
155+32-CL

Install
1" Curb Stop With Box
155+39-16' L
156+13-3' L
158+23-11' L

Install
6" PVC Restrained Joint Water Main
155+15-CL to 155+32-CL (17')
158+02-CL to 158+55-CL (53')

Install
6"x6" Pipe Cross
155+15-CL

Install
1" Corporation Stop With Tapping Saddle
155+39-CL
156+13-CL
158+31-CL

Install
6" Gate Valve With Box
155+32-1' L
158+46-CL

Install
Fire Hydrant
155+32-6' L

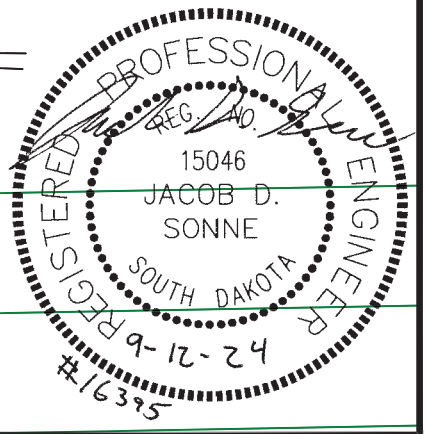
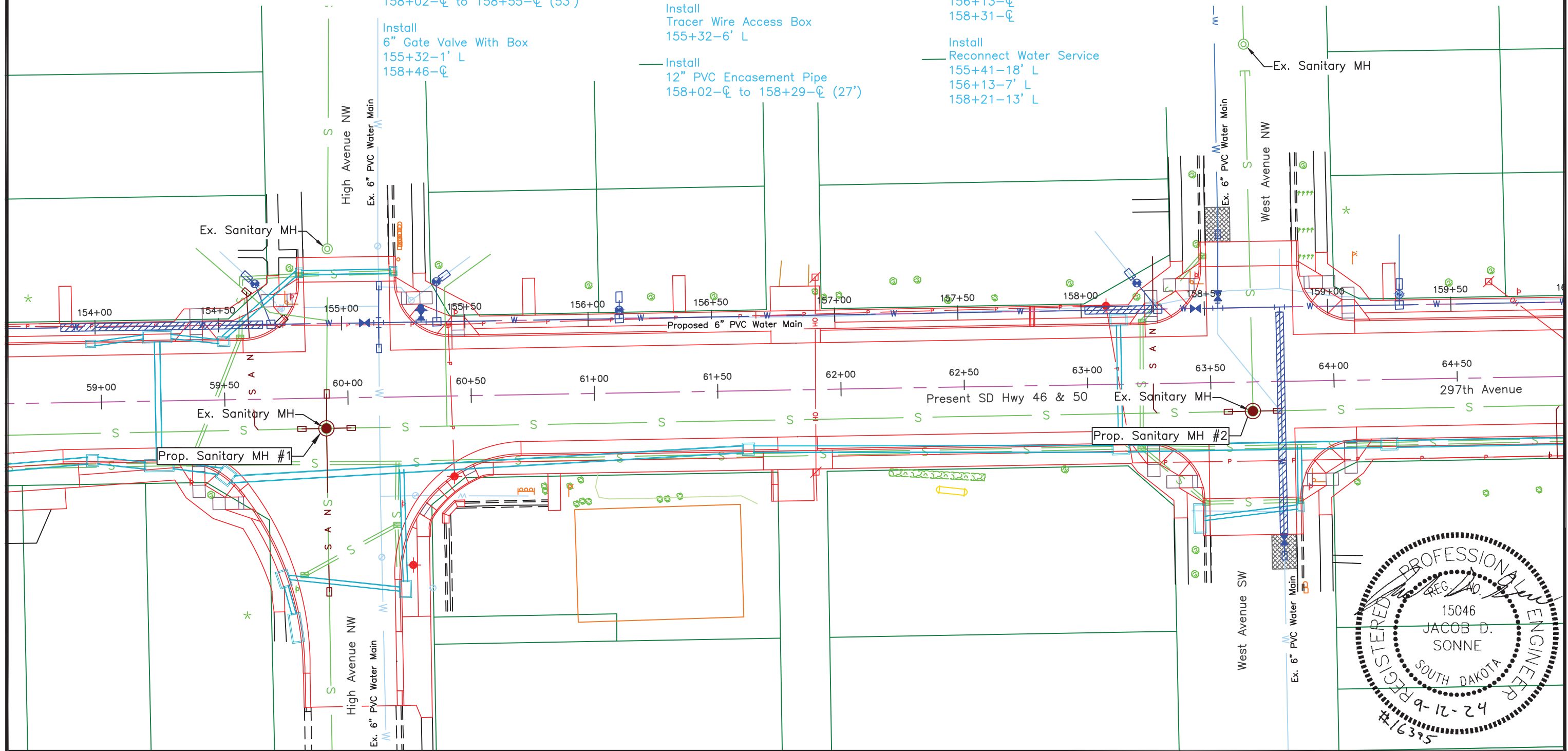
Install
Reconnect Water Service
155+41-18' L
156+13-7' L
158+21-13' L

Install
Tracer Wire Access Box
155+32-6' L

Install
12" PVC Encasement Pipe
158+02-CL to 158+29-CL (27')



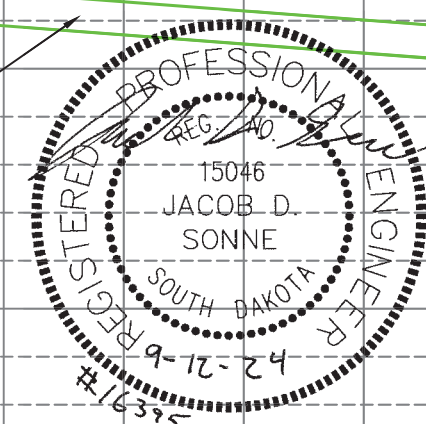
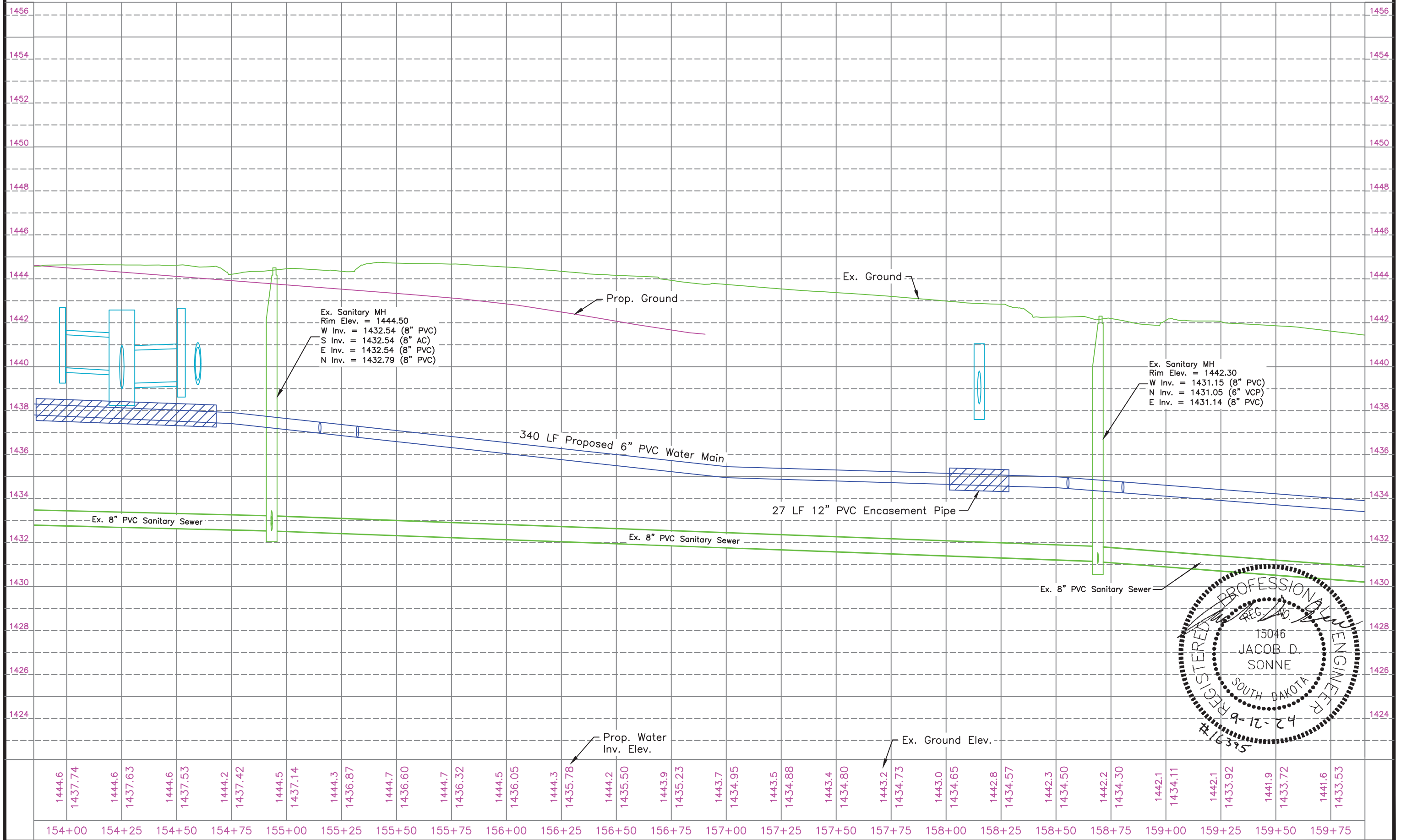
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	16	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	17	57

Remove and Dispose
Manhole
211+81-CL

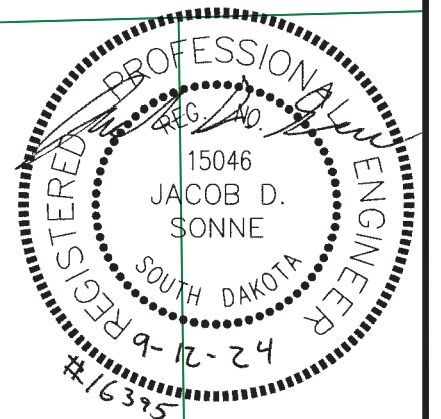
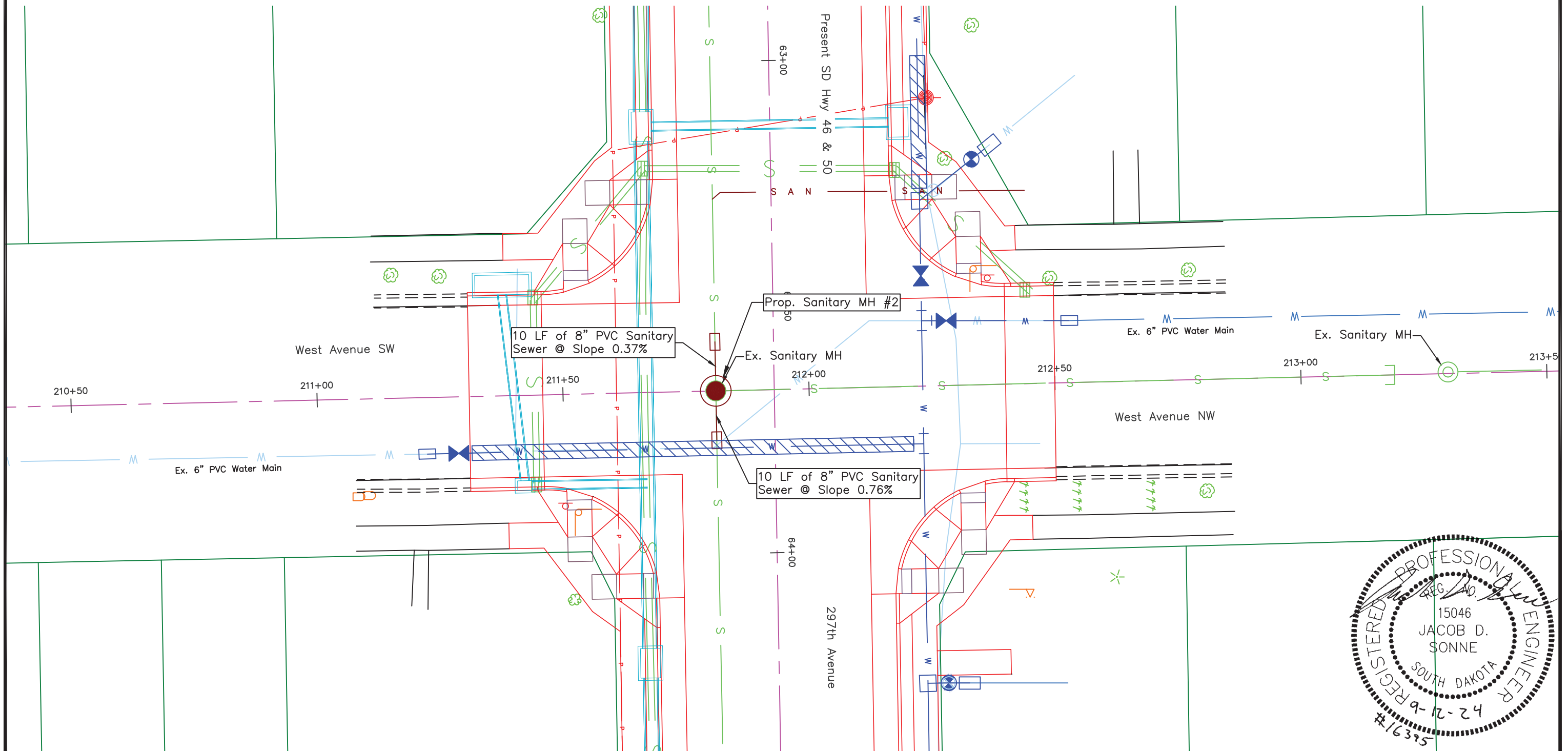
Install
Connect to Existing 8" PVC Sewer Main
211+71-CL
211+91-CL

Install
8" PVC Restrained Joint Sewer Main
211+71-CL to 211+81-CL (10')
211+81-CL to 211+91-CL (10')

Install
48" Manhole
211+81-CL



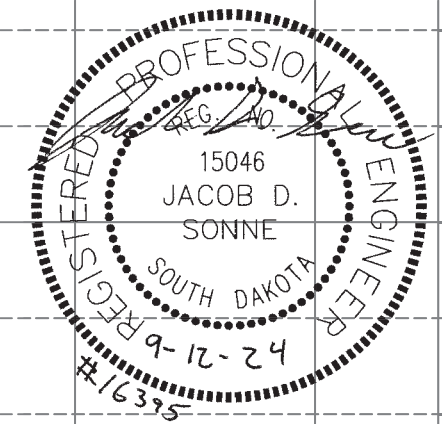
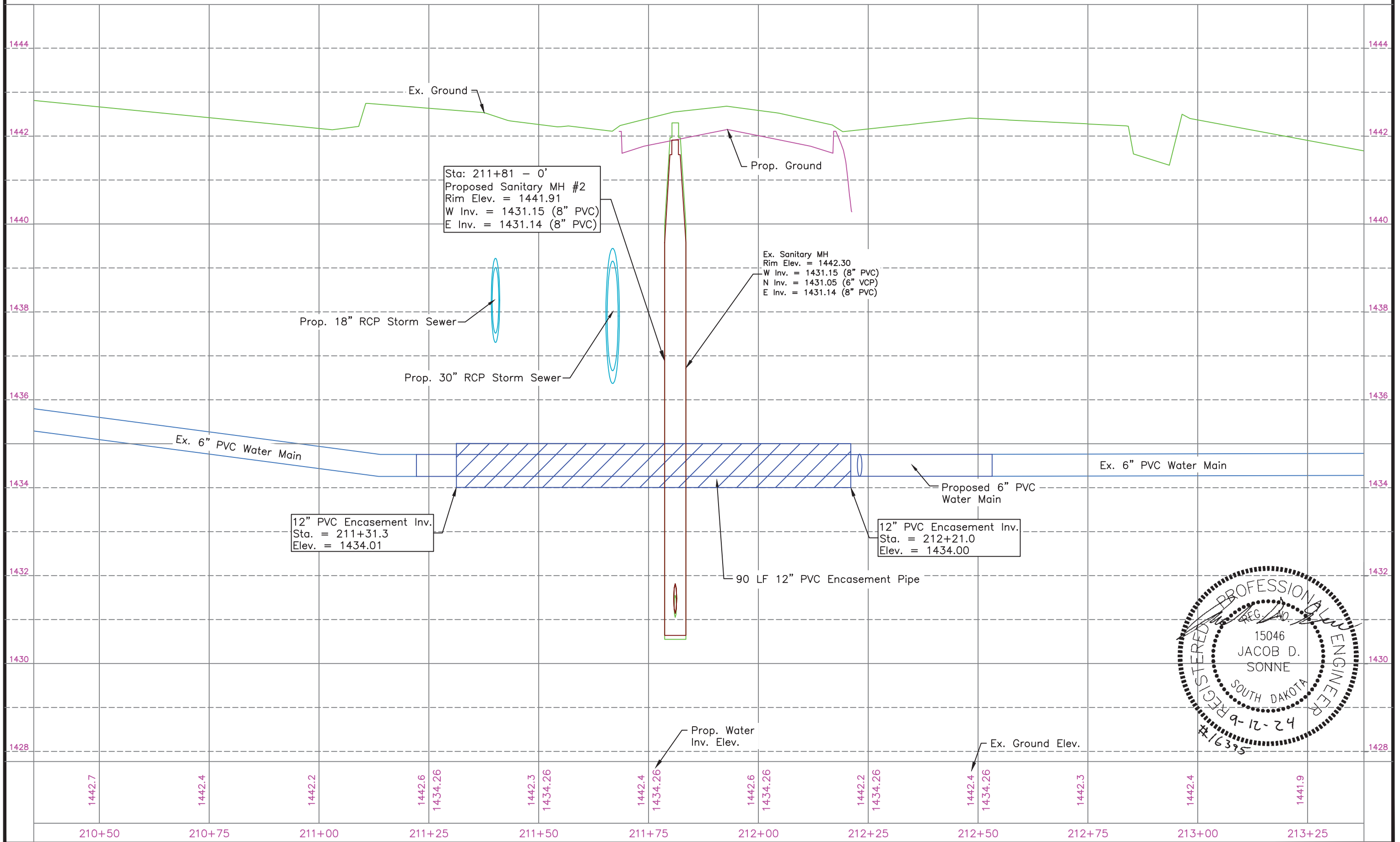
Scale: 1" = 20'



West Avenue
Profile View of Sanitary Sewer & Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	18	57
Horiz. Scale: 1" = 20'		Vert. Scale: 1" = 2'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

Remove and Dispose
Asphalt Surfacing
158+51 to 158+61-27' to 41' L (16 SqYd)
158+76 to 158+86-92' to 106' R (16 SqYd)

Install
Connect to Existing 6" PVC
158+56-30' L
158+81- 101' R

Install
6" PVC Restrained Joint Water Main
158+55- ϕ to 158+56-30' L (30')
158+55- ϕ to 158+96- ϕ (41')
158+80- ϕ to 158+81-101' R (101')
158+80- ϕ to 158+96- ϕ (16')
161+76- ϕ to 162+82- ϕ (106')

Install
6" Gate Valve With Box
158+56-5' L
158+81-94' R
162+76- ϕ

Install
6"x6" Pipe Tee
158+55- ϕ
158+80- ϕ

Install
1" Copper Pipe
159+29- ϕ to 9' L (9')
160+16- ϕ to 160+17-8' L (8')

Install
1" Curb Stop With Box
159+29-4' L
160+16-4' L

Install
1" Corporation Stop With Tapping Saddle
159+29- ϕ
160+16- ϕ

Install
6" PVC Water Main
158+96- ϕ to 161+76- ϕ (280')

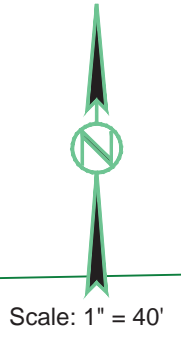
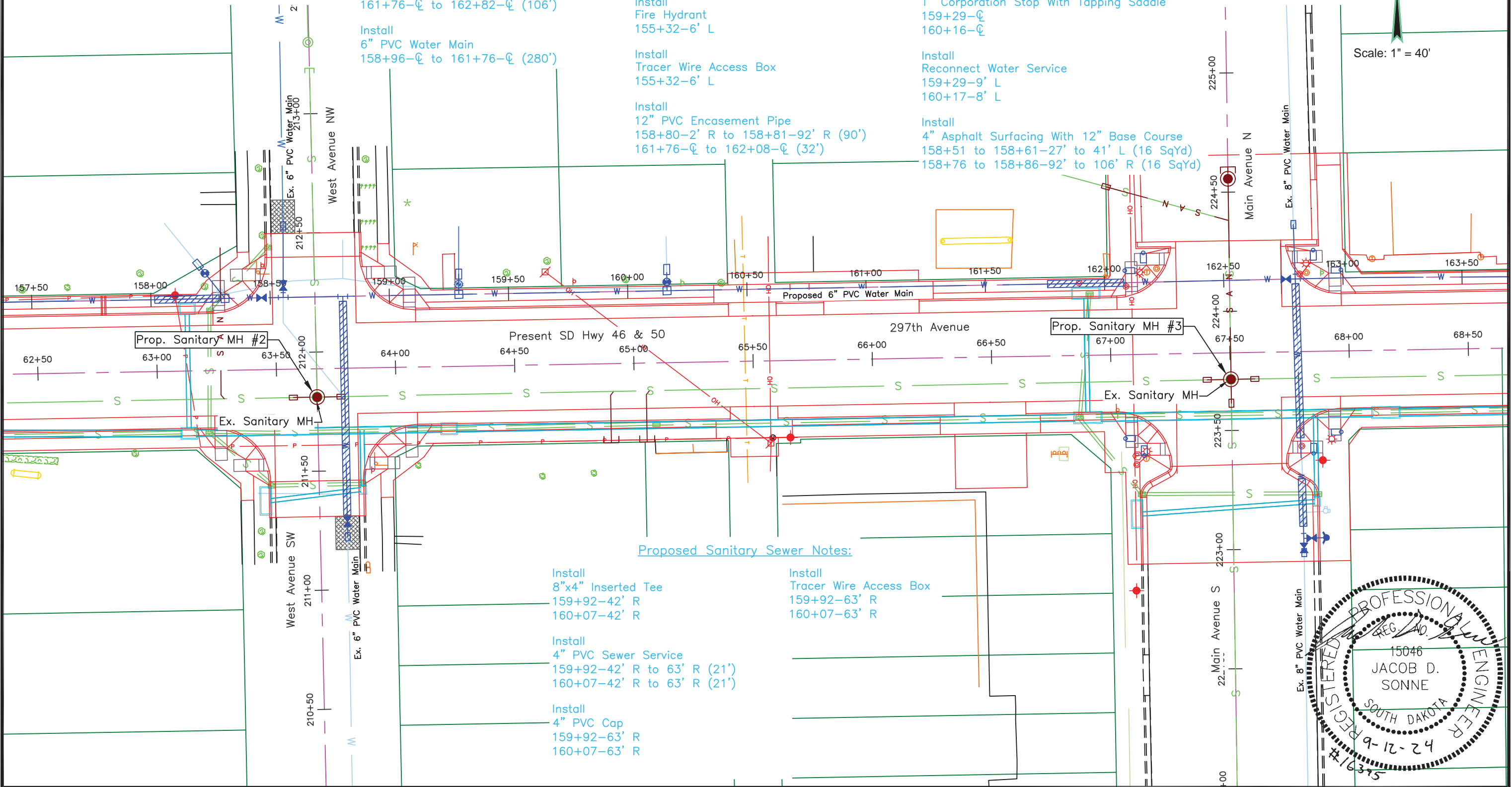
Install
Fire Hydrant
155+32-6' L

Install
Tracer Wire Access Box
155+32-6' L

Install
Reconnect Water Service
159+29-9' L
160+17-8' L

Install
4" Asphalt Surfacing With 12" Base Course
158+51 to 158+61-27' to 41' L (16 SqYd)
158+76 to 158+86-92' to 106' R (16 SqYd)

Install
12" PVC Encasement Pipe
158+80-2' R to 158+81-92' R (90')
161+76- ϕ to 162+08- ϕ (32')



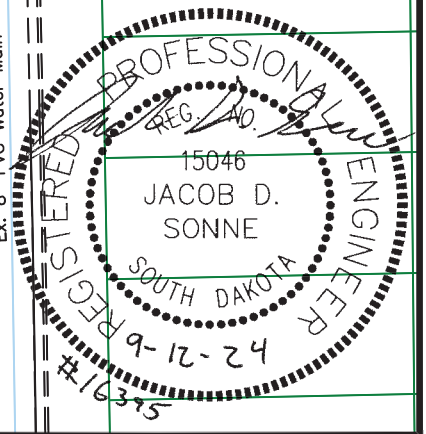
Proposed Sanitary Sewer Notes:

Install
8"x4" Inserted Tee
159+92-42' R
160+07-42' R

Install
4" PVC Sewer Service
159+92-42' R to 63' R (21')
160+07-42' R to 63' R (21')

Install
4" PVC Cap
159+92-63' R
160+07-63' R

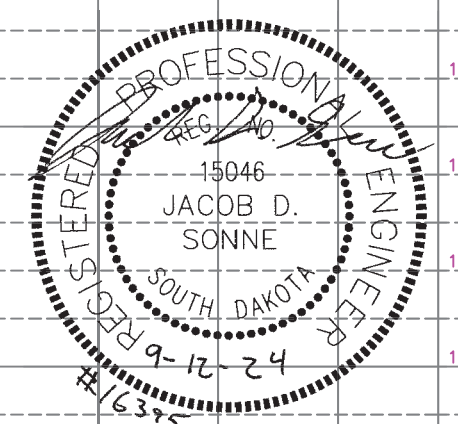
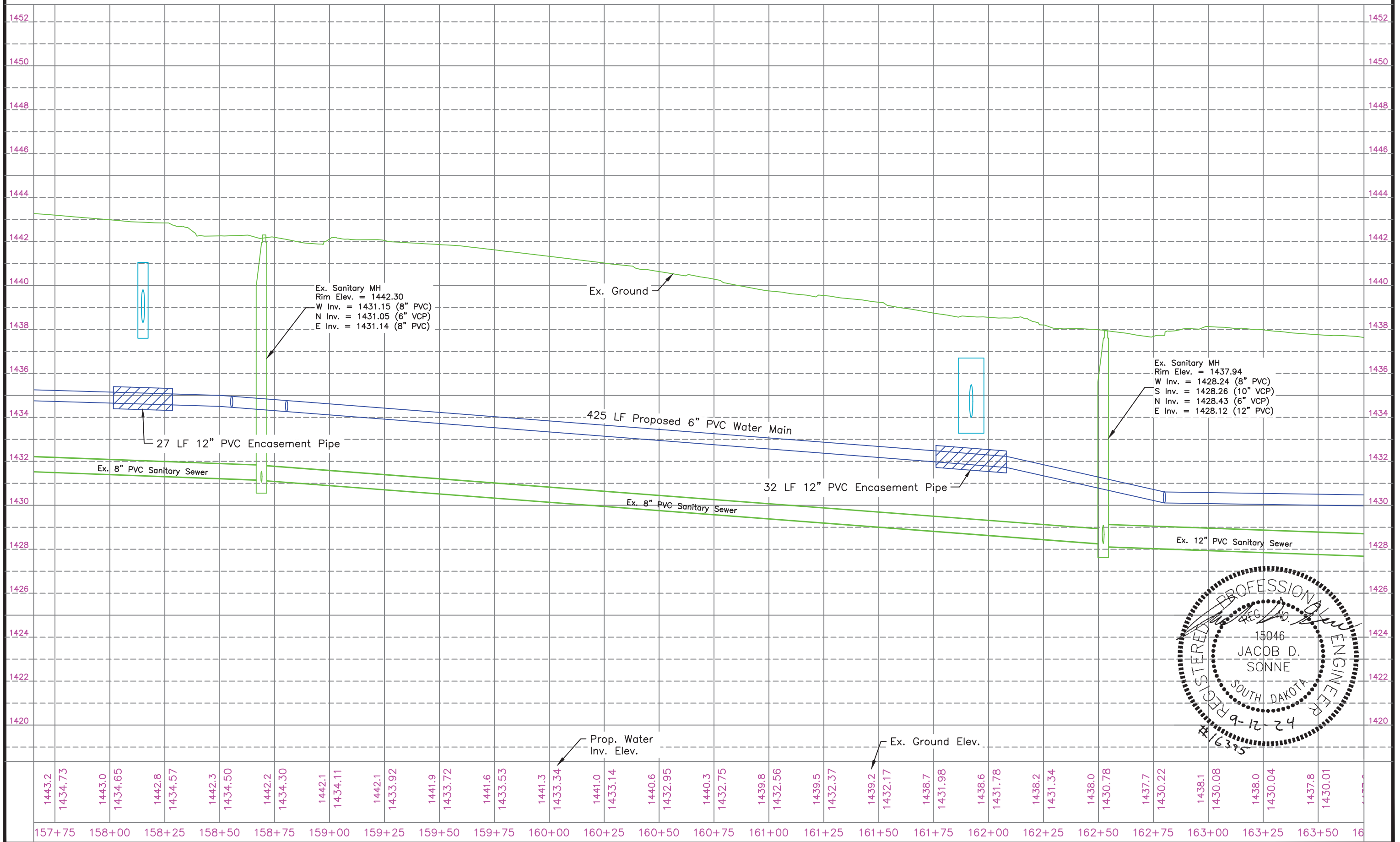
Install
Tracer Wire Access Box
159+92-63' R
160+07-63' R



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	20	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Sanitary Sewer Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	21	57

Remove and Dispose
Manhole
223+71-CL

Install
Connect to Existing 10" PVC Sewer Main
223+61-CL

Install
Connect to Existing 8" PVC Sewer Main
223+71-10' L

Install
Connect to Existing 12" PVC Sewer Main
223+71-10' R

Install
10" PVC Restrained Joint Sewer Main
223+61-CL to 223+71-CL (10')

Install
8" PVC Restrained Joint Sewer Main
223+71-10' L to 223+71-CL (10')
223+71-CL to 224+56-CL (85')
224+56-CL to 224+59-CL (3')

Install
12" PVC Restrained Joint Sewer Main
223+71-CL to 223+71-10' R (10')

Install
48" Manhole
223+71-CL
224+56-CL

Install
8" Pipe Cap
224+61-CL

Install
8"x4" Pipe Wye
224+38-CL

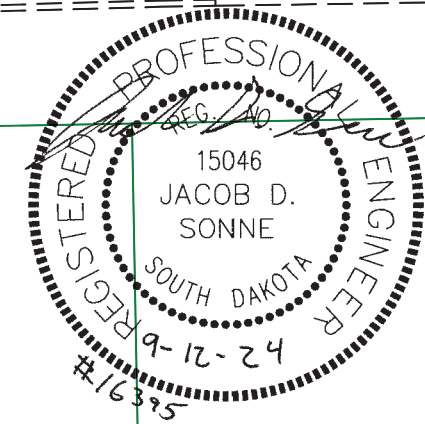
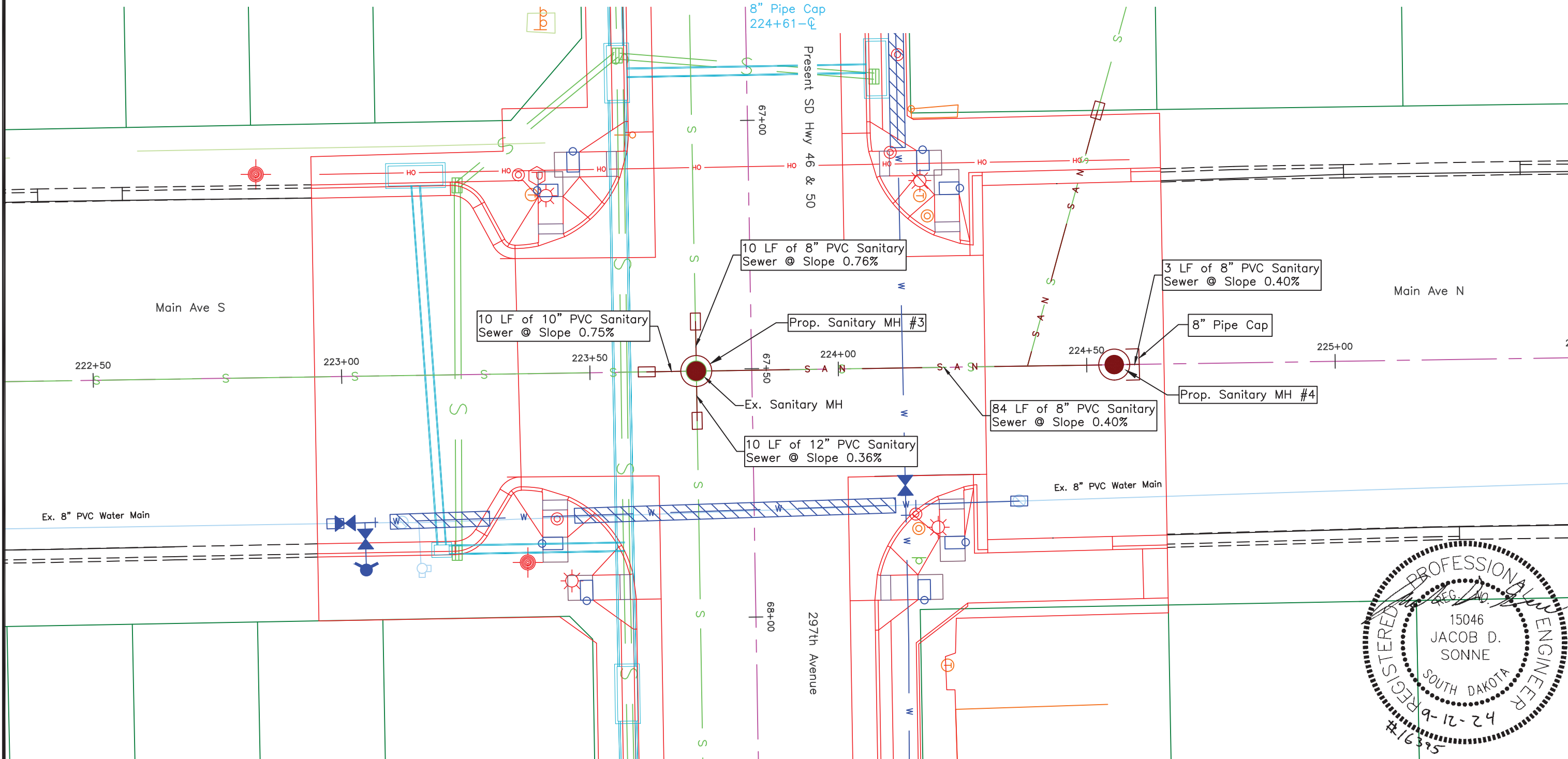
Install
4" PVC Sewer Service
224+38-CL to 224+53-51' L (53')

Install
Reconnect Sewer Service
224+53-51' L

Install
Tracer Wire Access Box
224+53-51' L



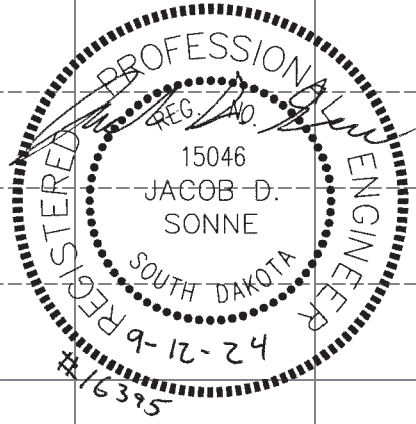
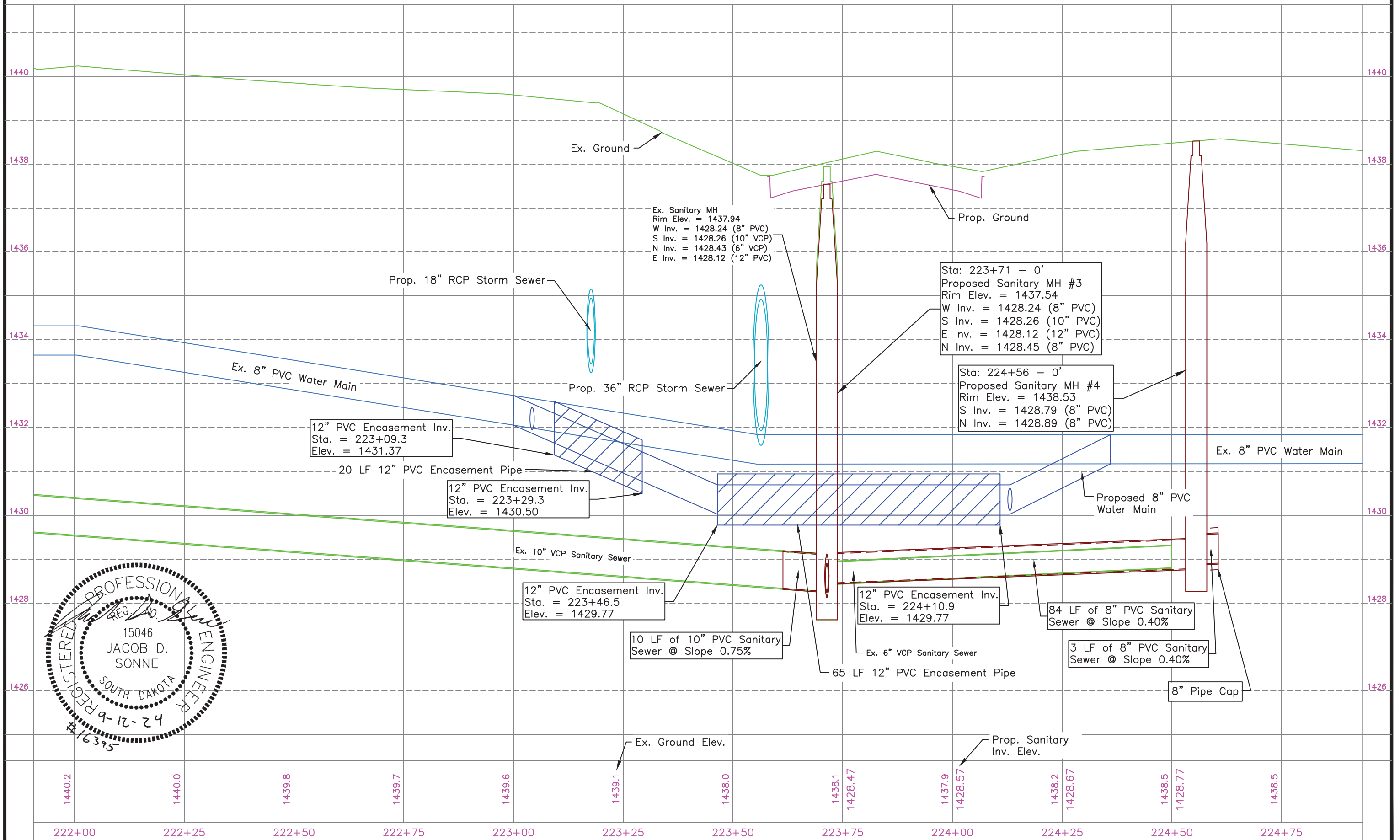
Scale: 1" = 20'



Main Avenue
Profile View of Sanitary Sewer

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	22	57
Horiz. Scale: 1" = 20'		Vert. Scale: 1" = 2'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	23	57

Remove
Fire Hydrant
162+91-98' R

Water Valve
162+81-101' R

Install
Connect to Existing 8" PVC
162+81-113' R

Install
Connect to Existing 8" Valve
162+80-23' L

Install
8" PVC Water Main
162+80-0 to 23' L (23')

Install
8" PVC Restrained Joint Water Main
162+80-0 to 162+81-113' R (113')

Install
6" PVC Restrained Joint Water Main
165+33-0 to 165+65-0 (32')

Install
6" PVC Water Main
162+80-0 to 165+33-0 (253')
162+81-109' R to 162+91-109' R (10')
165+65-0 to 166+24-0 (59')

Install
8"x6" Pipe Cross
162+80-0

Install
14" PVC Encasement Pipe
162+80-2' R to 162+81-67' R (65')
162+81-84' to 104' R (20')

Install
8"x6" Pipe Tee
162+81-109' R

Install
6" Gate Valve With Box
162+84-109' R

Install
12" PVC Encasement Pipe
165+33-0 to 165+65-0 (32')

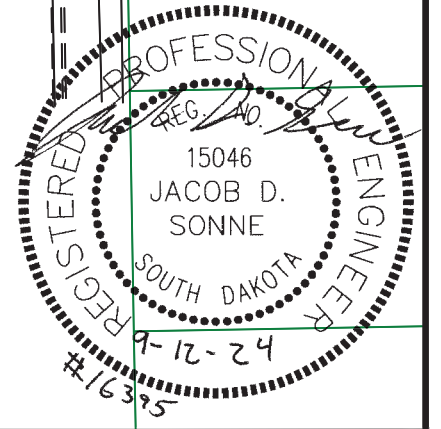
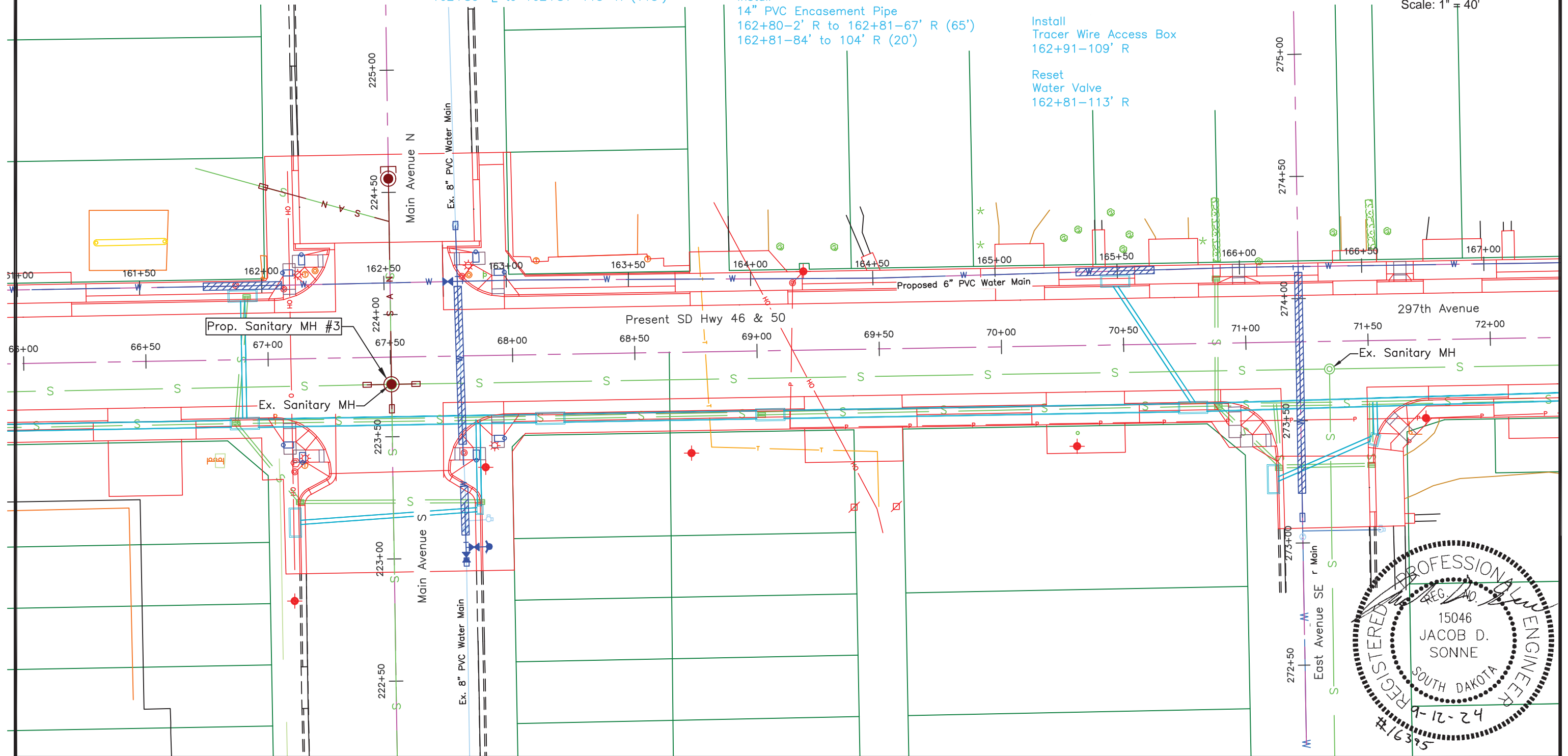
Reset
Fire Hydrant
162+91-109' R

Install
Tracer Wire Access Box
162+91-109' R

Reset
Water Valve
162+81-113' R



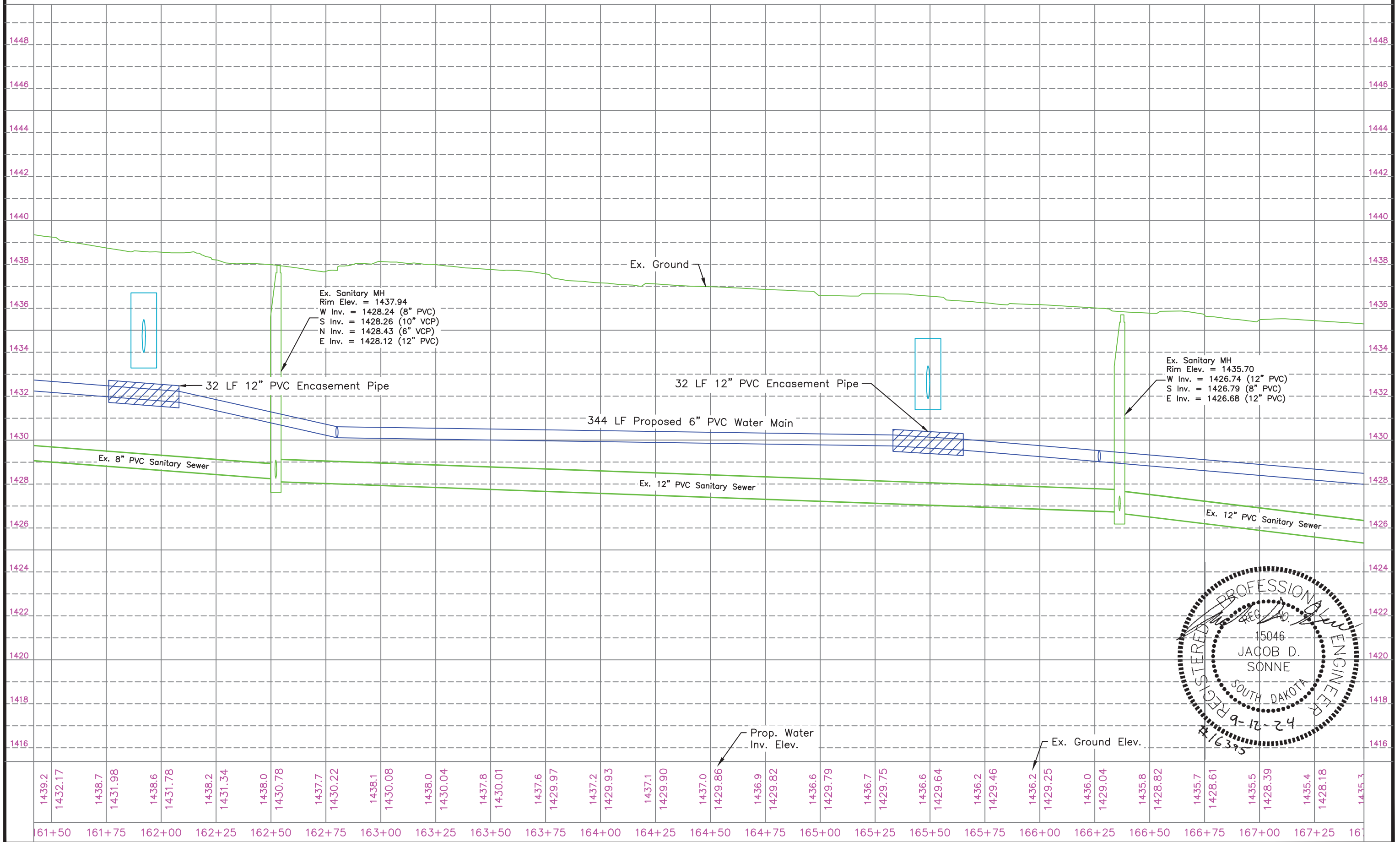
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	24	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Sanitary Sewer Notes:

Install
Adjust Manhole
166+36-42' R (Lower 0.37')
170+03-41' R (Lower 0.23')

Remove and Dispose
Fire Hydrant
169+82-6' L

Proposed Water Main Notes FOR BIDDING PURPOSES ONLY

Install
Connect to Existing 6" CIP
166+24-103' R

Install
6" Gate Valve With Box
170+08-CL

Install
6" PVC Restrained Joint Water Main
166+24-CL to 166+24-103' R (103')
169+35-CL to 170+13-CL (78')

Install
6"x6" Pipe Tee
166+24-CL

Install
6" PVC Water Main
166+24-CL to 169+35-CL (34')

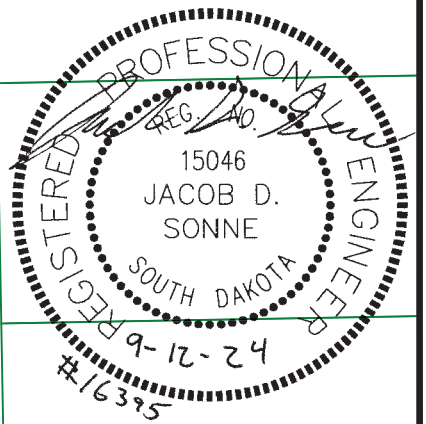
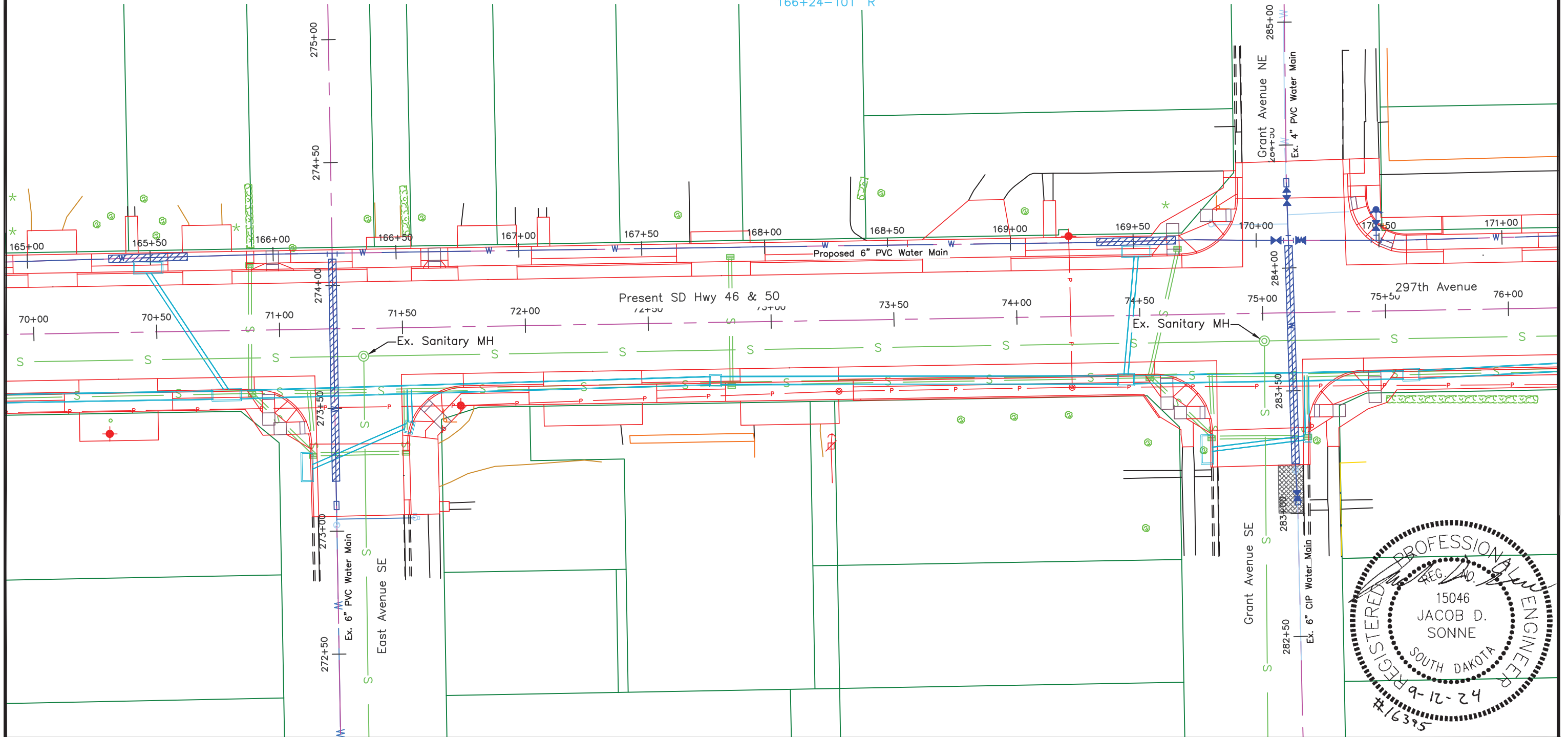
Install
12" PVC Encasement Pipe
166+24-2' R to
166+24-93' R (91')

Install
6" Pipe Bend (45') (Vertical)
166+24-95' R
166+24-101' R

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	25	57



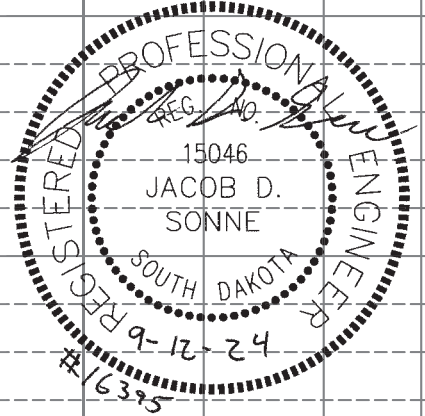
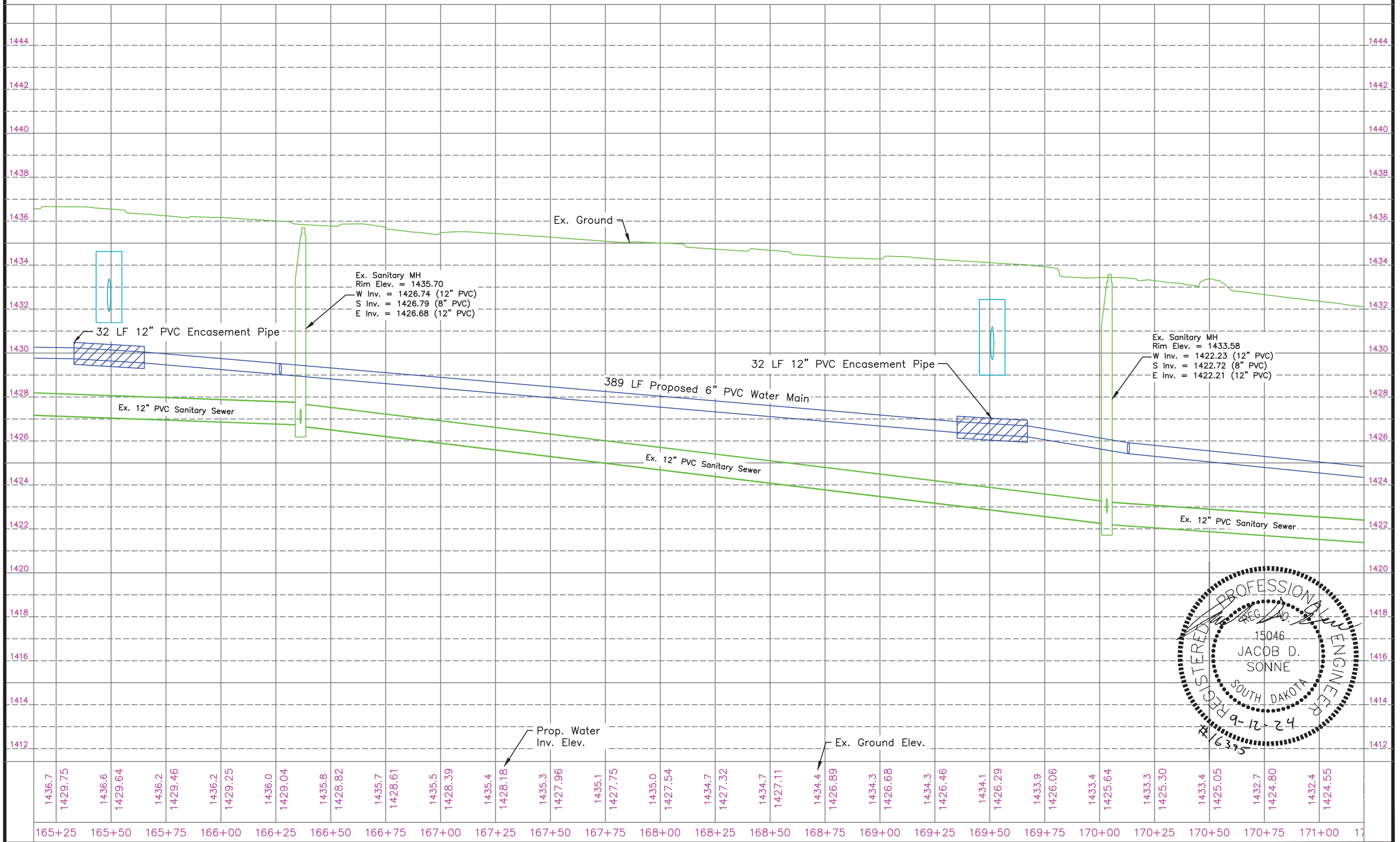
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

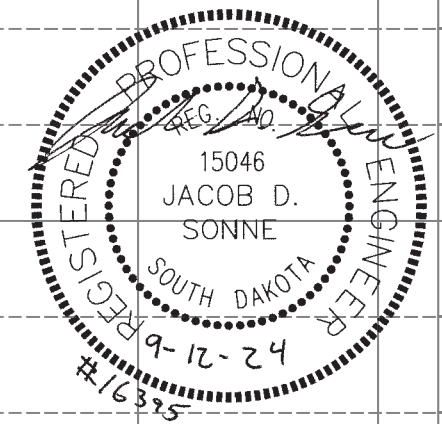
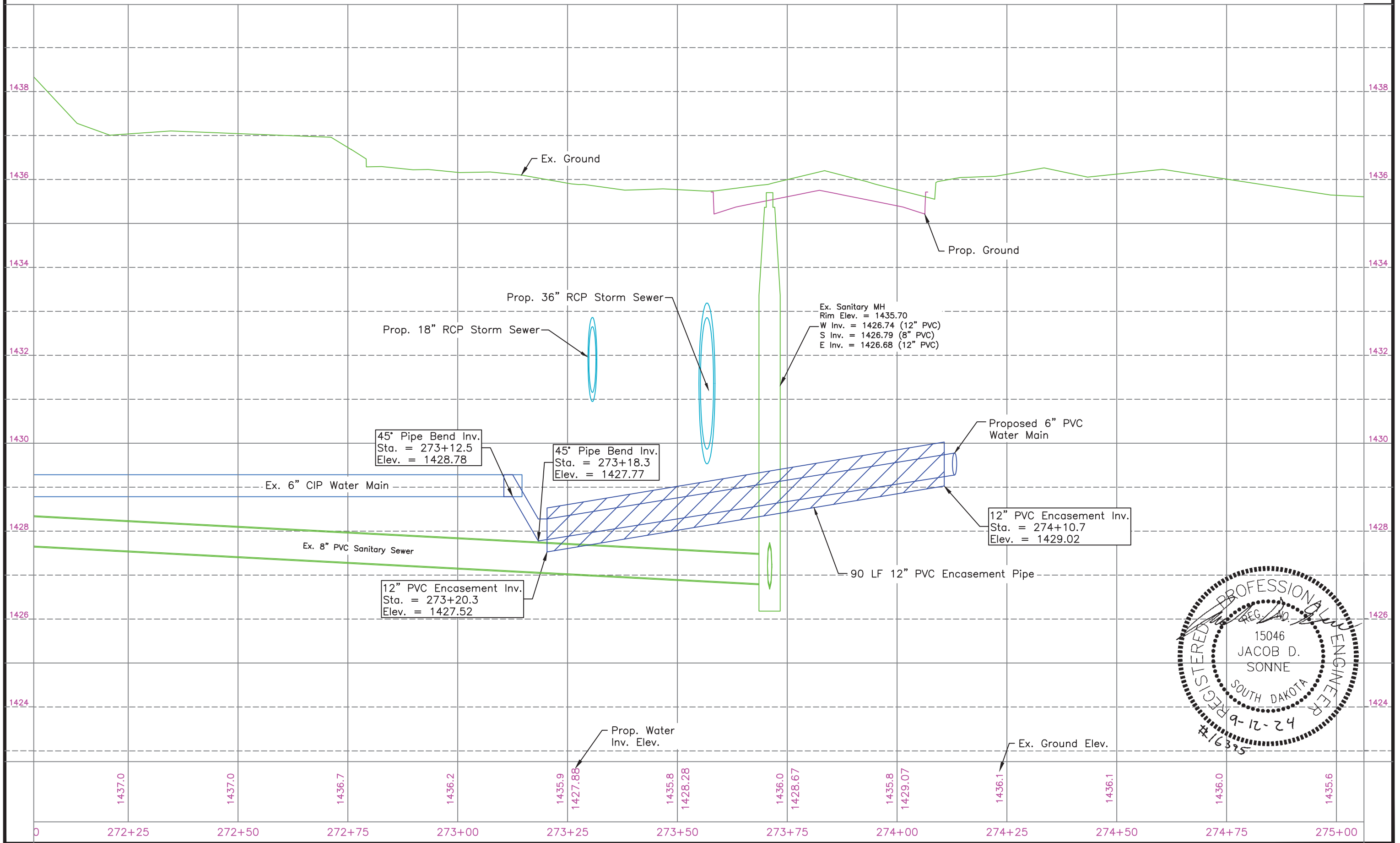
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	26	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



East Avenue
Profile View of Sanitary Sewer & Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	27	57
Horiz. Scale: 1" = 20'		Vert. Scale: 1" = 2'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	28	57

REV 10/11/2024 RLA

Remove and Dispose
Gate Valve and Box
170+16-94' R

Asphalt Surfacing
170+09 to 170+19-91' to 111' R (22 SqYd)
173+20 to 173+32-292' to 304' R (16 SqYd)
(Verify Location with City of Wagner)

Install
Connect to Existing 4" PVC
170+12-22' L

Install
Connect to Existing 6" CIP
170+16-106' R

Install
6" PVC Restrained Joint Water Main
170+12-21' L to 170+16-106' R (127')
170+13-0 to 170+49-0 (36')
172+45-0 to 172+77-0 (32')

Install
6" PVC Water Main
170+49-0 to 170+49-12' L (12')
170+49-0 to 172+45-0 (196')
172+77-0 to 174+15-0 (138')

Install
4" PVC Water Main
170+12-21' L to 170+12-23' L (2')

Install
6" Gate Valve With Box
170+13-16' L
170+17-104' R
170+18-0
170+49-6' L

Install
6"x6" Pipe Tee
170+49-0

Install
6"x6" Pipe Cross
170+13-0

Install
6" Pipe Bend (45°)
170+16-93' R
170+17-100' R

Install
6"x4" Pipe Reducer
170+12-21' L

Install
Fire Hydrant
170+49-12' L

Install
Tracer Wire Access Box
170+49-12' L

Install
12" PVC Encasement Pipe
170+13-2' R to 170+16-91' R (89')
172+45-0 to 172+77-0 (32')

Install
Turn Off Existing Corporation Stop (Incidental)
173+25-299' R

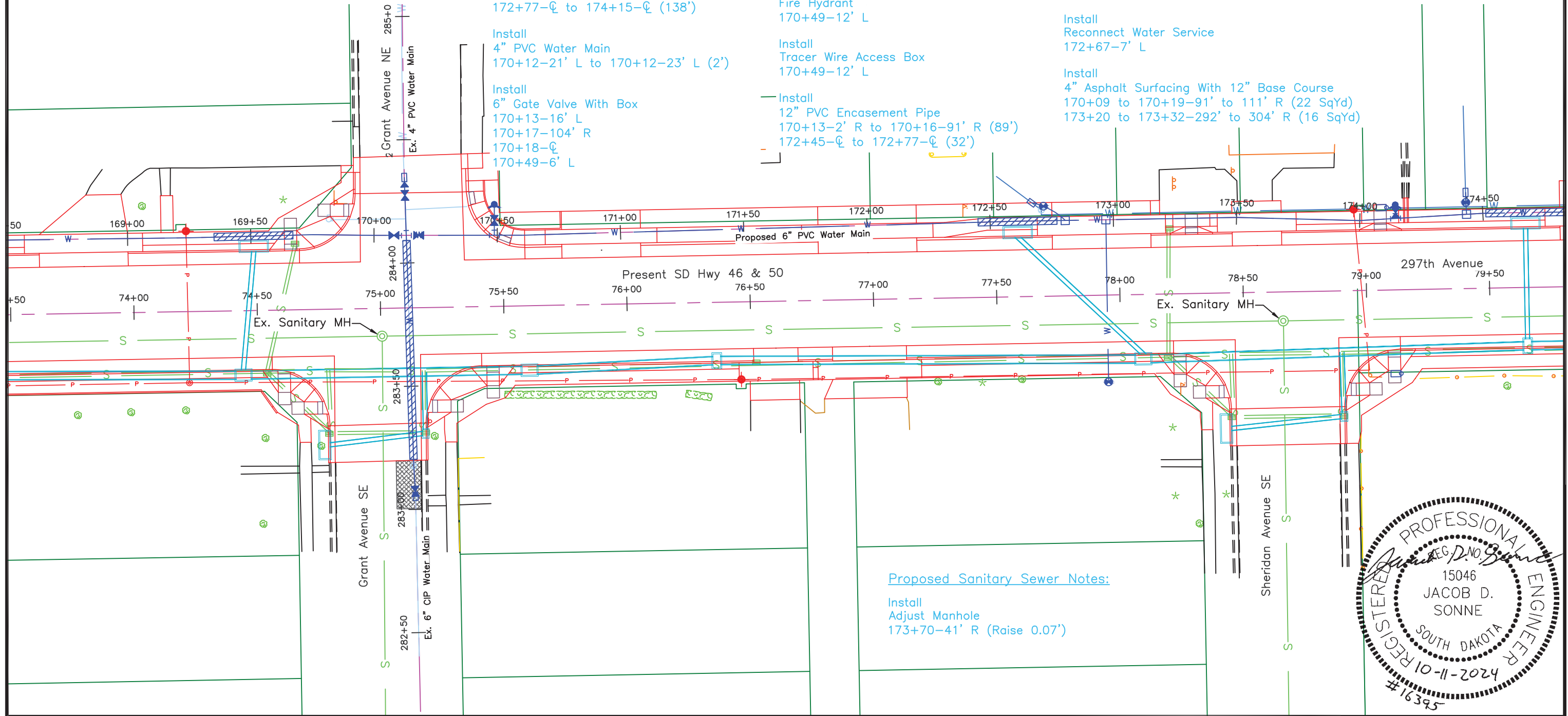
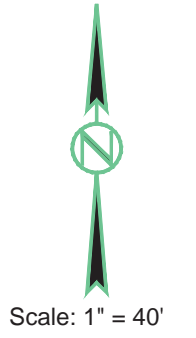
Install
1" Copper Pipe
172+67 to 172+80-0 to 7' L (16')
172+97-0 to 66' R (66')

Install
1" Curb Stop With Box
172+72-6' L
172+97-66' R

Install
1" Corporation Stop With Tapping Saddle
172+80-0
172+97-0

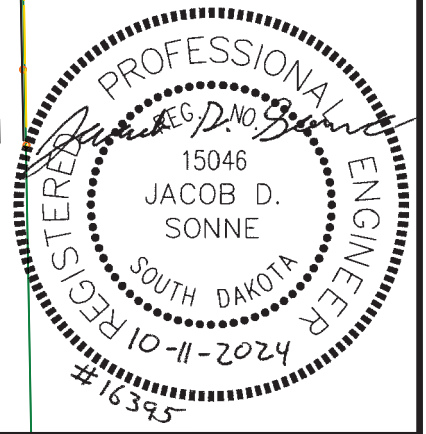
Install
Reconnect Water Service
172+67-7' L

Install
4" Asphalt Surfacing With 12" Base Course
170+09 to 170+19-91' to 111' R (22 SqYd)
173+20 to 173+32-292' to 304' R (16 SqYd)



Proposed Sanitary Sewer Notes:

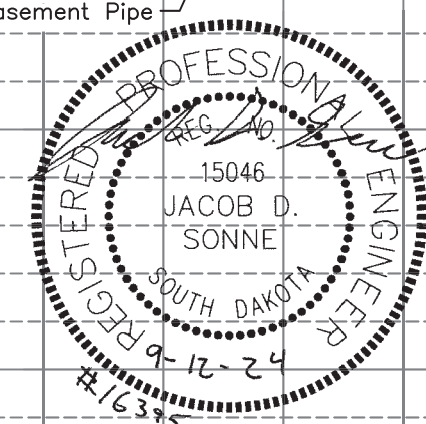
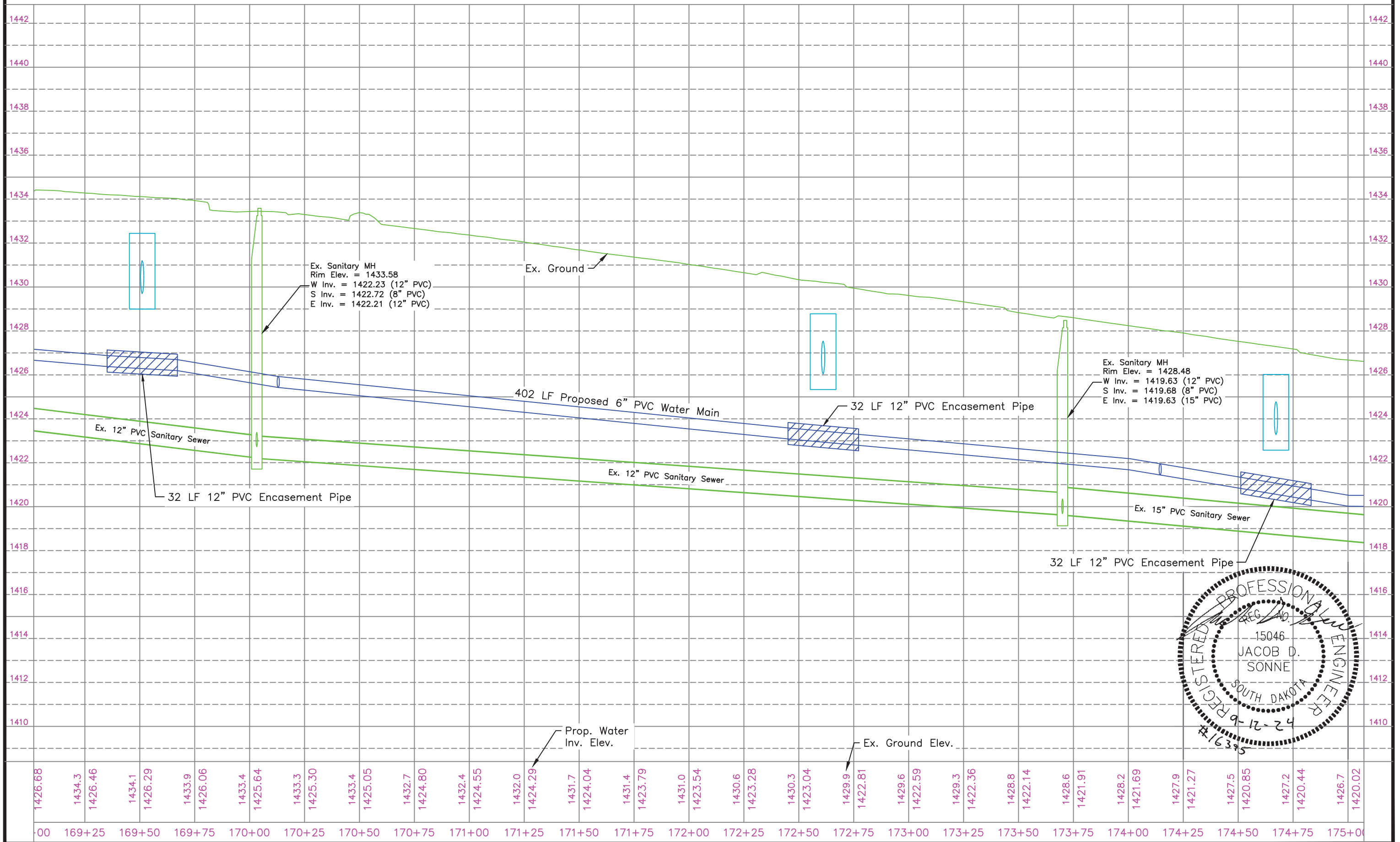
Install
Adjust Manhole
173+70-41' R (Raise 0.07')



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

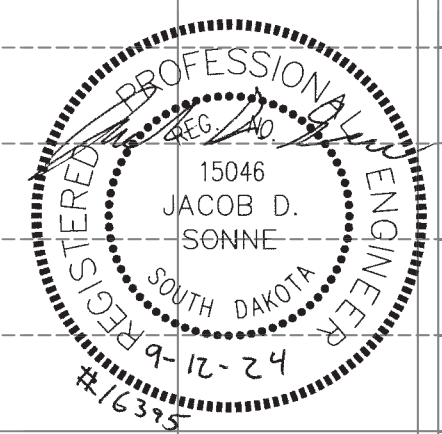
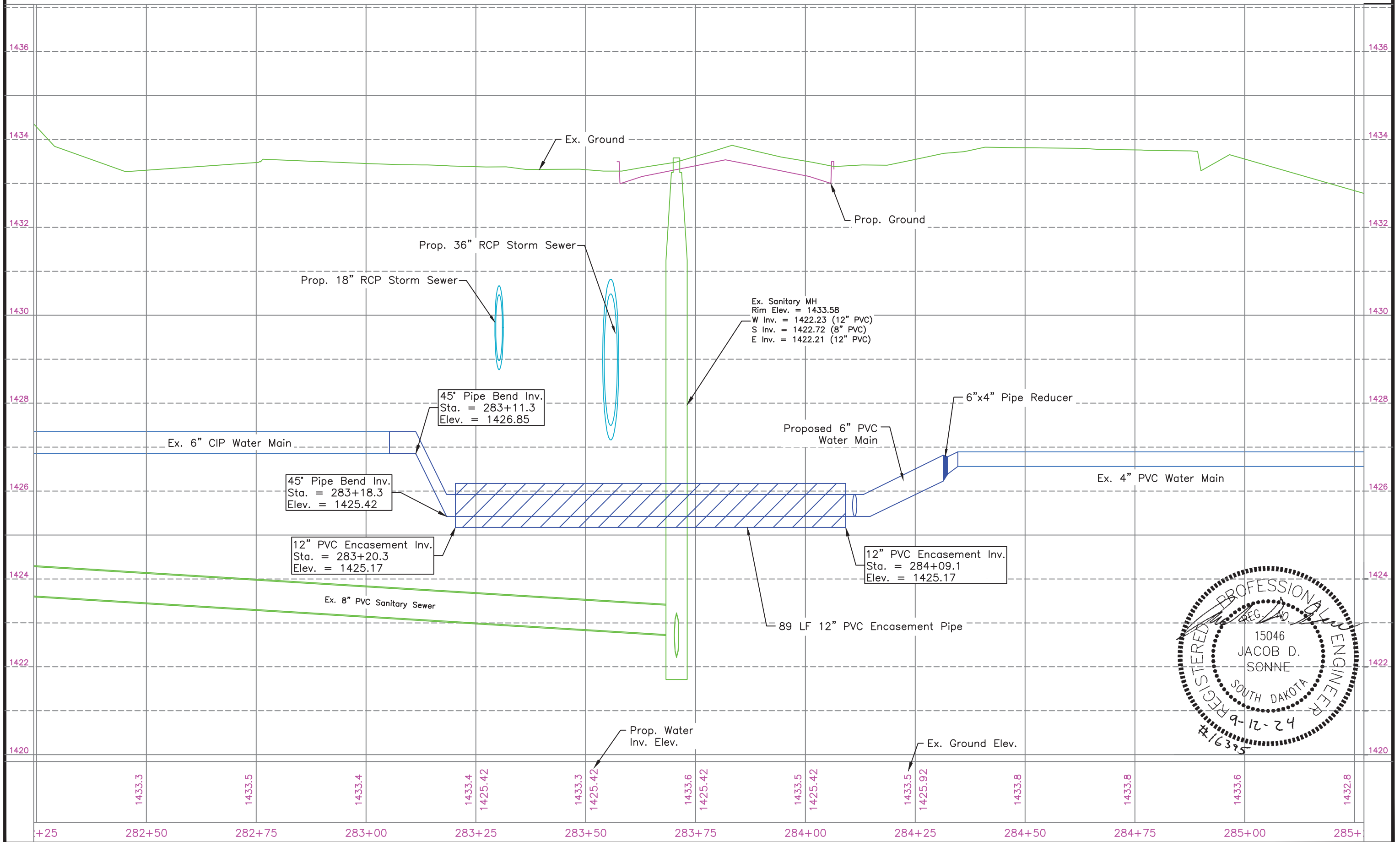
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	29	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Grant Avenue
Profile View of Sanitary Sewer & Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	30	57
Horiz. Scale: 1" = 20'		Vert. Scale: 1" = 2'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	31	57

Install
 6" PVC Restrained Joint Water Main
 174+51-CL to 174+83-CL (32')
 175+14-CL to 175+87-CL (73')
 176+22-CL to 176+74-CL (52')

Install
 6" PVC Water Main
 174+15-CL to 174+15-6' L (6')
 174+15-CL to 175+51-CL (36')
 174+83-CL to 175+14-CL (31')
 175+87-CL to 176+22-CL (35')

Install
 6"x6" Pipe Tee
 174+15-CL

Install
 6" Gate Valve With Box
 174+15-2' L
 176+69-CL

Install
 6" Foster Adapter (Incidental)
 174+15-2' L

Install
 Fire Hydrant
 174+15-6' L

Install
 Tracer Wire Access Box
 174+15-6' L

Install
 12" PVC Encasement Pipe
 174+51-CL to 174+83-CL (32')
 175+14-CL to 175+87-CL (73')

Install
 1" Copper Pipe
 174+43-CL to 9' L (9')
 175+11-CL to 175+37-9' L (30')

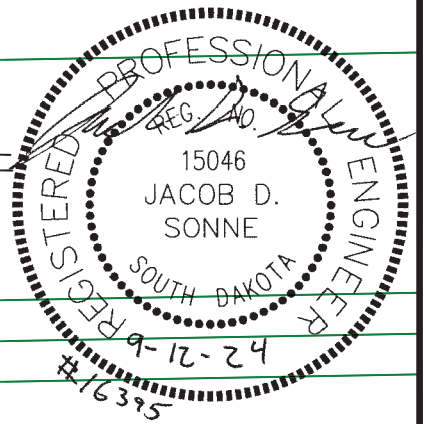
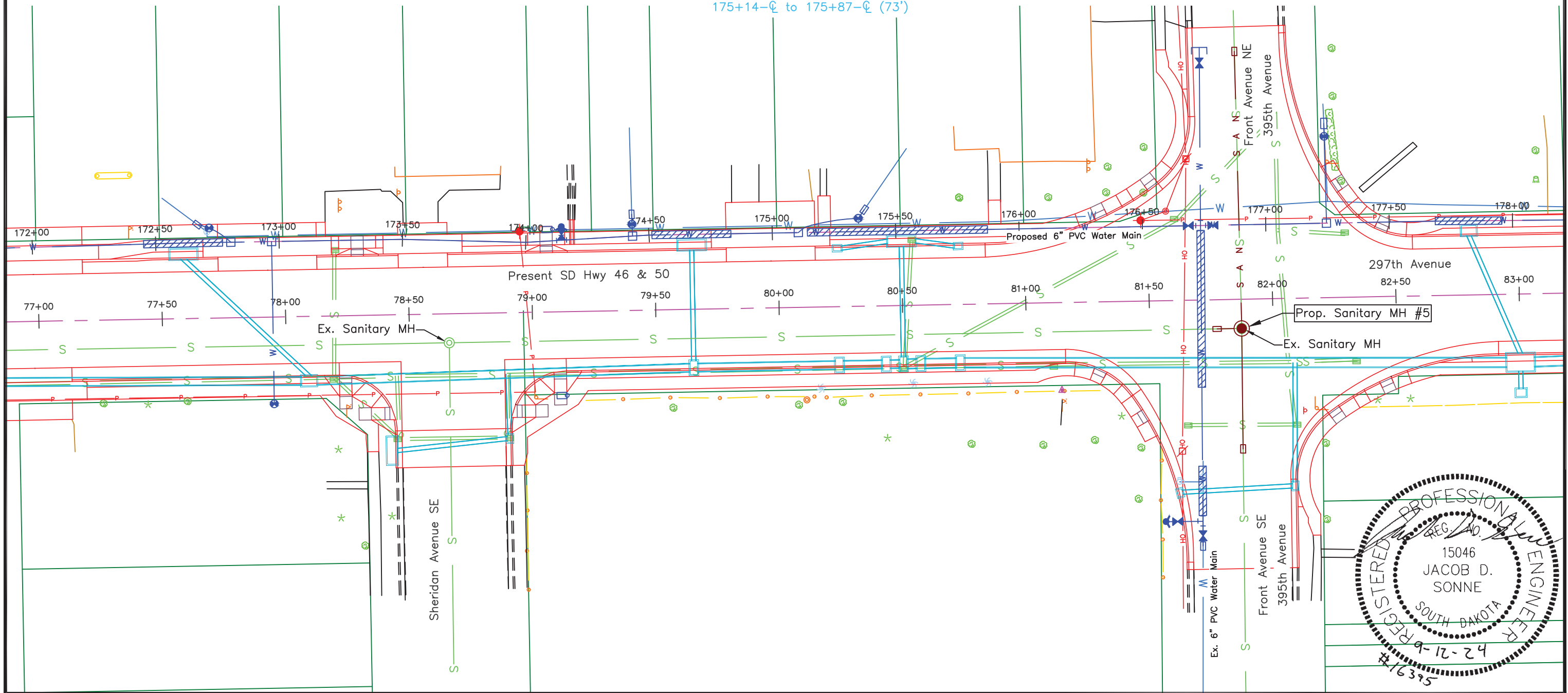
Install
 1" Curb Stop With Box
 174+43-5' L
 175+35-5' L

Install
 1" Corporation Stop With Tapping Saddle
 174+43-CL
 175+11-CL

Install
 Reconnect Water Service
 174+43-9' L
 175+37-9' L



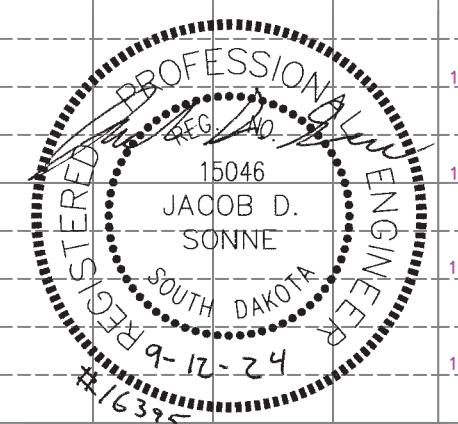
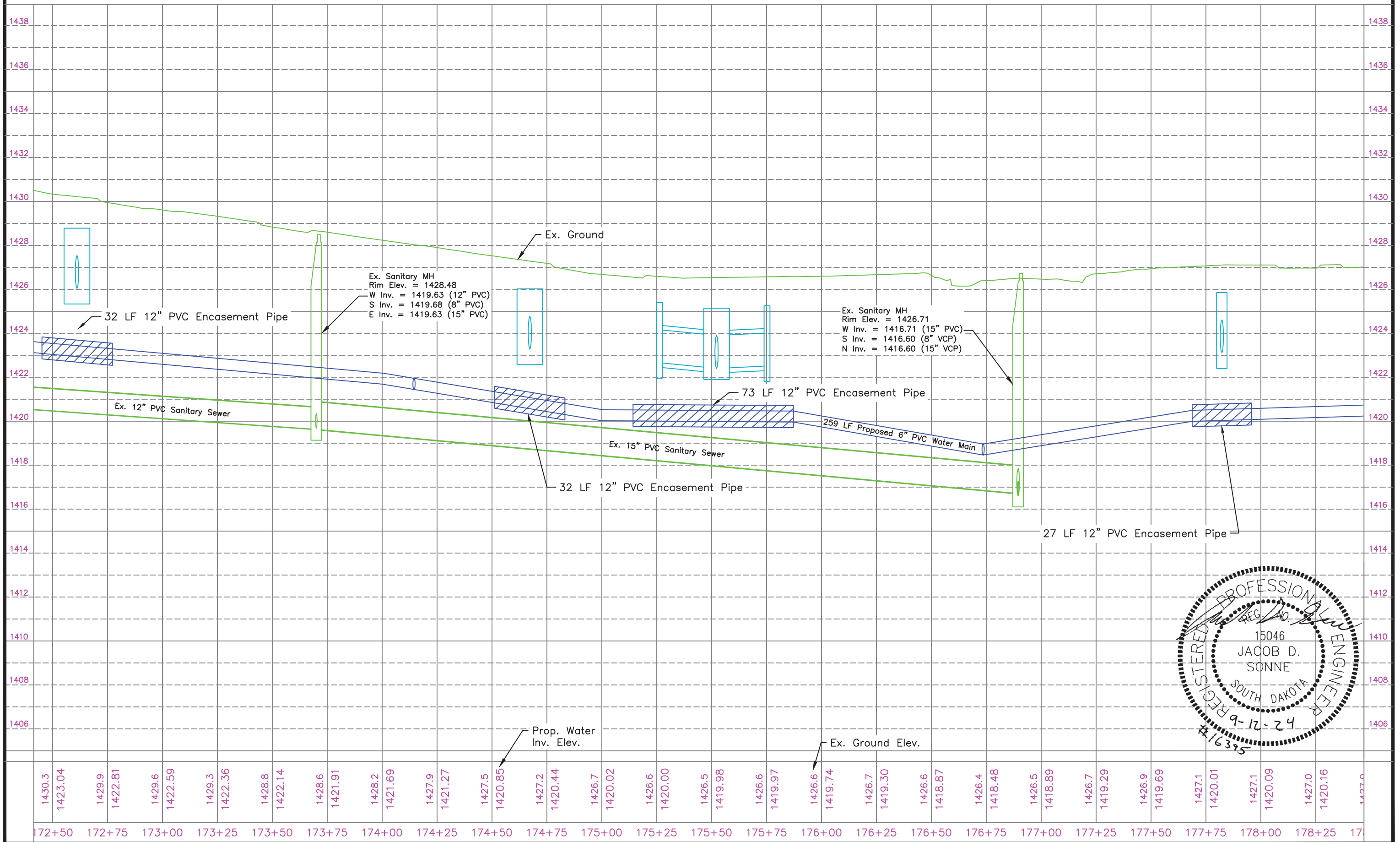
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	32	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Sanitary Sewer Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	33	57

Remove and Dispose
Manhole
252+42-CL

Install
Connect to Existing 10" PVC Sewer Main
251+93-CL

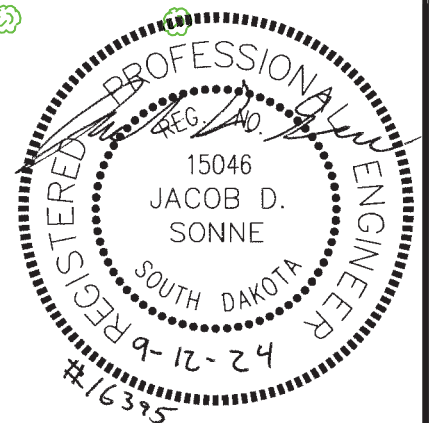
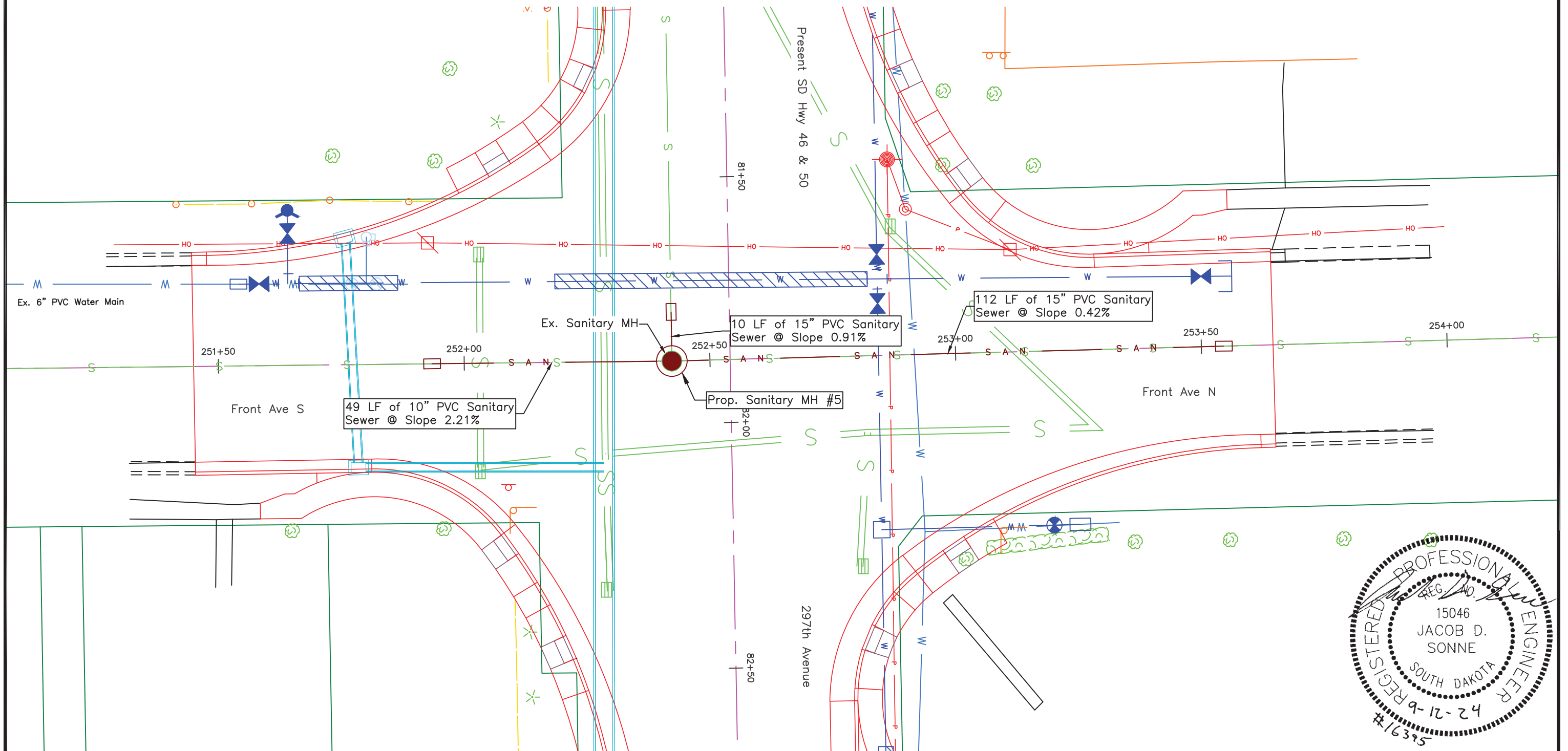
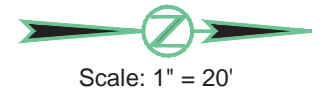
Install
10" PVC Restrained Joint Sewer Main
251+93-CL to 252+42-CL (49')

Install
48" Manhole
252+42-CL

Install
Connect to Existing 15" PVC Sewer Main
252+42-10' L

Install
15" PVC Restrained Joint Sewer Main
252+42-10' L to 252+42-CL (10')
252+42-CL to 253+54-CL (112')

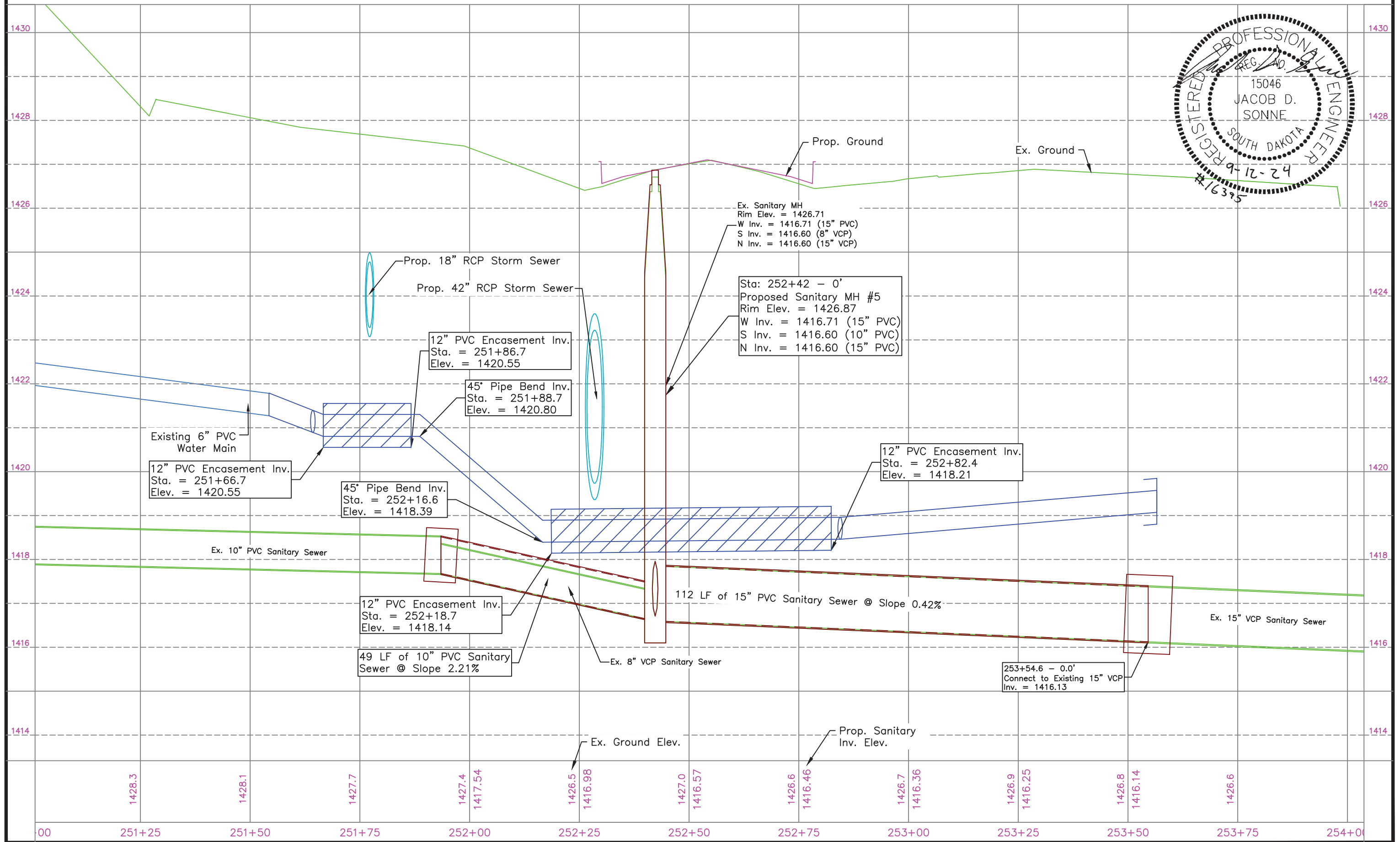
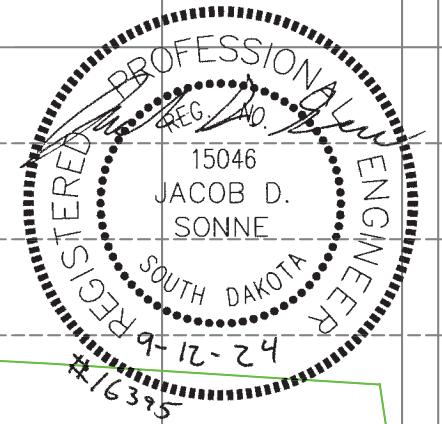
Install
Connect to Existing 15" VCP Sewer Main
253+54' R



Front Avenue
Profile View of Sanitary Sewer & Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	34	57
Horiz. Scale: 1" = 20'		Vert. Scale: 1" = 2'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	35	57

Remove
Fire Hydrant
176+63-104' R

Water Valve
176+73-102' R
176+73-107' R

Install
Connect to Existing 6" PVC Water Main
176+72-130' R

Install
6" PVC Restrained Joint Water Main
176+74-CL to 72' L (72')
176+74-CL to 176+74-130' R (130')
176+74-CL to 177+96-CL (122')
179+90-CL to 180+14-CL (24')

Install
6" PVC Water Main
176+57-120' R to 176+72-120' R (15')
177+96-CL to 179+90-CL (194')
180+14-CL to 180+84-CL (70')

Install
6" Gate Valve With Box
176+74-66' L
176+79-CL

Reset
Water Valve
176+62-120' R
176+73-126' R

Install
6"x6" Pipe Tee
176+75-120' R

Install
6"x6" Pipe Cross
176+74-CL

Install
6" Pipe Bend (45°)
176+73-68' R
176+73-96' R

Install
6" Pipe Cap
176+74-72' L

Reset
Fire Hydrant
176+57-120' R

Install
Tracer Wire Access Box
176+57-120' R

Install
12" PVC Encasement Pipe
176+73-98' R to 172+72-118' R (20')
176+74-2' R to 176+76-66' R (64')
177+69-CL to 177+96-CL (27')
179+90-CL to 180+14-CL (24')

Install
1" Copper Pipe
177+25-CL to 177+24-40' L (40')
178+90-CL to 178+91-66' R (66')
178+94-CL to 178+94-9' L (9')

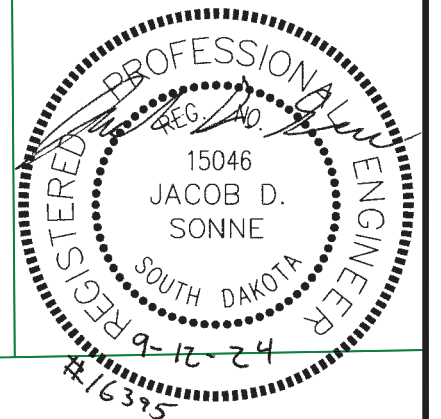
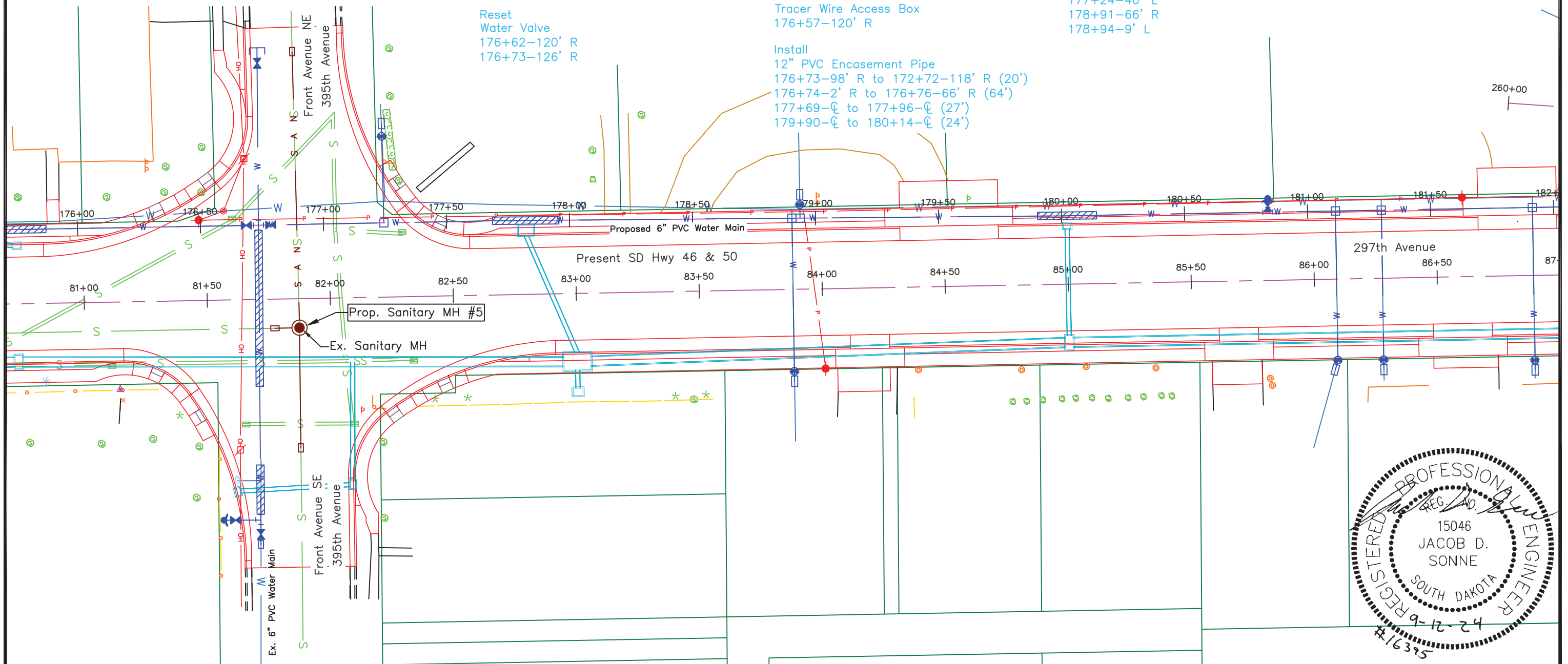
Install
1" Curb Stop With Box
177+24-35' L
178+91-62' R
178+94-5' L

Install
1" Corporation Stop With Tapping Saddle
177+25-CL
178+90-CL
178+94-CL

Install
Reconnect Water Service
177+24-40' L
178+91-66' R
178+94-9' L



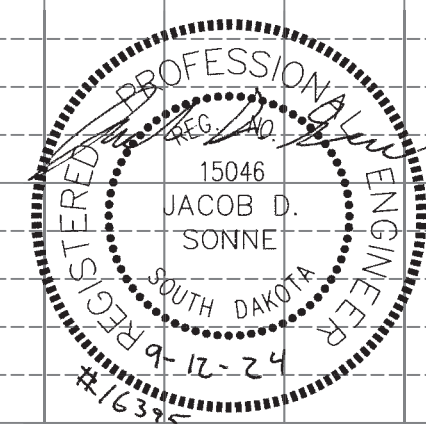
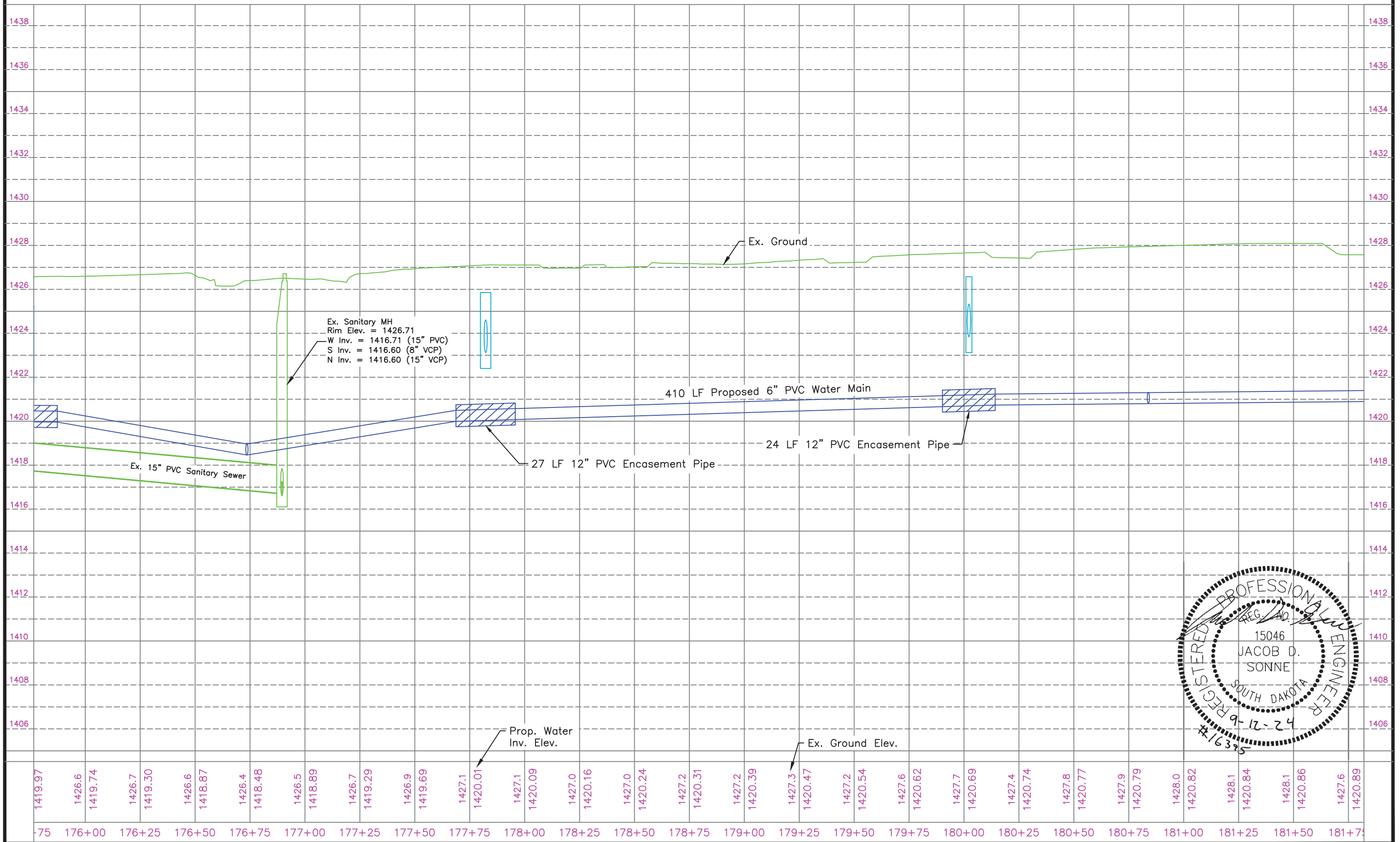
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	36	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	37	57

Remove and Dispose
Fire Hydrant
183+56-11' L

Gate Valve and Box
183+56-2' L
183+67-10' L

Install
Connect to Existing 4" PVC Water Main
183+67-15' L

Install
4" PVC Water Main
183+67-6' L to 183+67-15' L (9')

Install
6" PVC Water Main
180+84-CL to 185+21-CL (437')
180+84-CL to 180+84-6' L (6')
183+67-CL to 183+67-6' L (6')

Install
4" Gate Valve With Box
183+67-10' L

Install
6" Gate Valve With Box
180+84-2' Lt
183+62-CL
183+72-CL

Install
Foster Adapter (Incidental)
180+84-2' L

Install
6"x4" Pipe Reducer
183+67-6' L

Install
6"x6" Pipe Tee
180+84-CL
183+67-CL

Install
Fire Hydrant
180+84-6' L

Install
Tracer Wire Access Box
180+84-6' L

Install
1" Copper Pipe
181+11-CL to 181+10-65' L (65')
181+30-CL to 65' L (65')
181+91-CL to 66' L (66')
183+58-CL to 183+56-14' L (15')
184+52-CL to 64' L (64')
184+86-CL to 64' R (64')
185+13-CL to 185+21-70' R (71')

Install
2" Copper Pipe
183+48-CL to 183+45-7' L (9')
184+90-CL to 184+89-15' L (15')

Install
1" Curb Stop With Box
181+11-61' R
181+30-61' R
181+91-62' R
183+58-10' L
184+52-64' R
184+86-64' R
185+19-64' R

Install
2" Curb Stop With Box
183+48-6' L
184+90-9' L

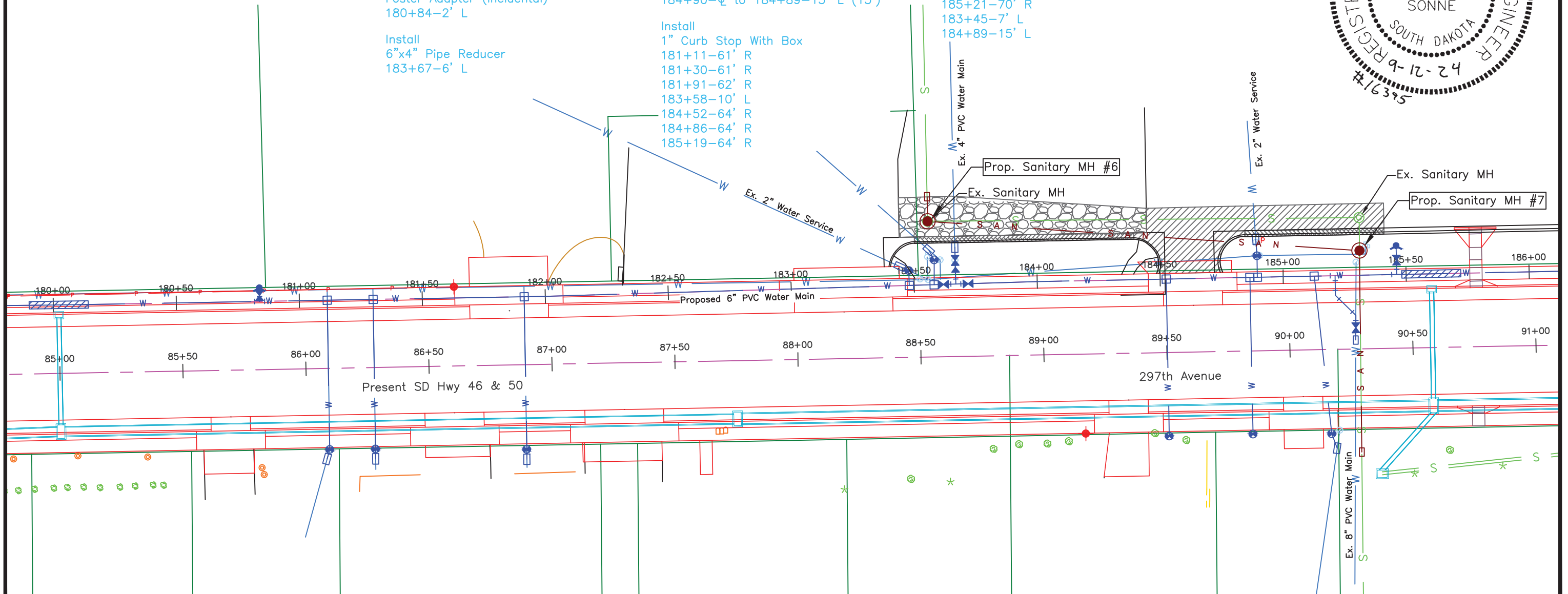
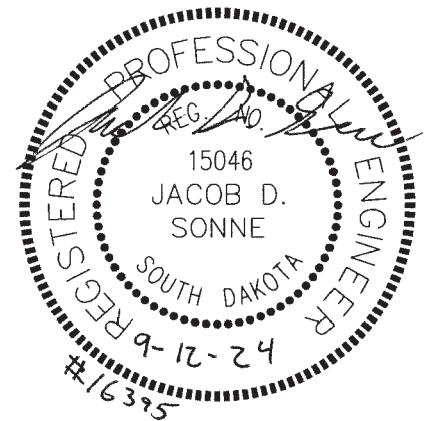
Install
1" Corporation Stop With Tapping Saddle
181+11-CL
181+30-CL
181+91-CL
183+58-CL
184+52-CL
184+86-CL
185+13-CL

Install
2" Corporation Stop With Tapping Saddle
183+48-CL
185+13-CL

Install
Reconnect Water Service
181+10-65' L
181+30-65' L
181+91-66' L
183+56-14' L
185+21-70' R
183+45-7' L
184+89-15' L



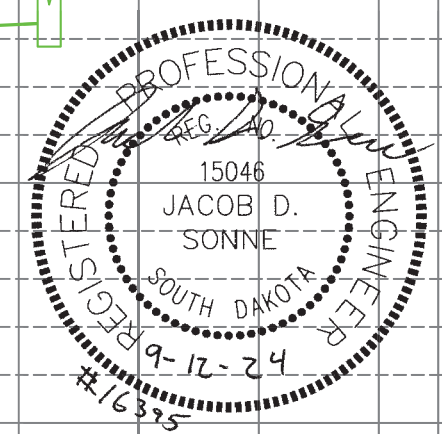
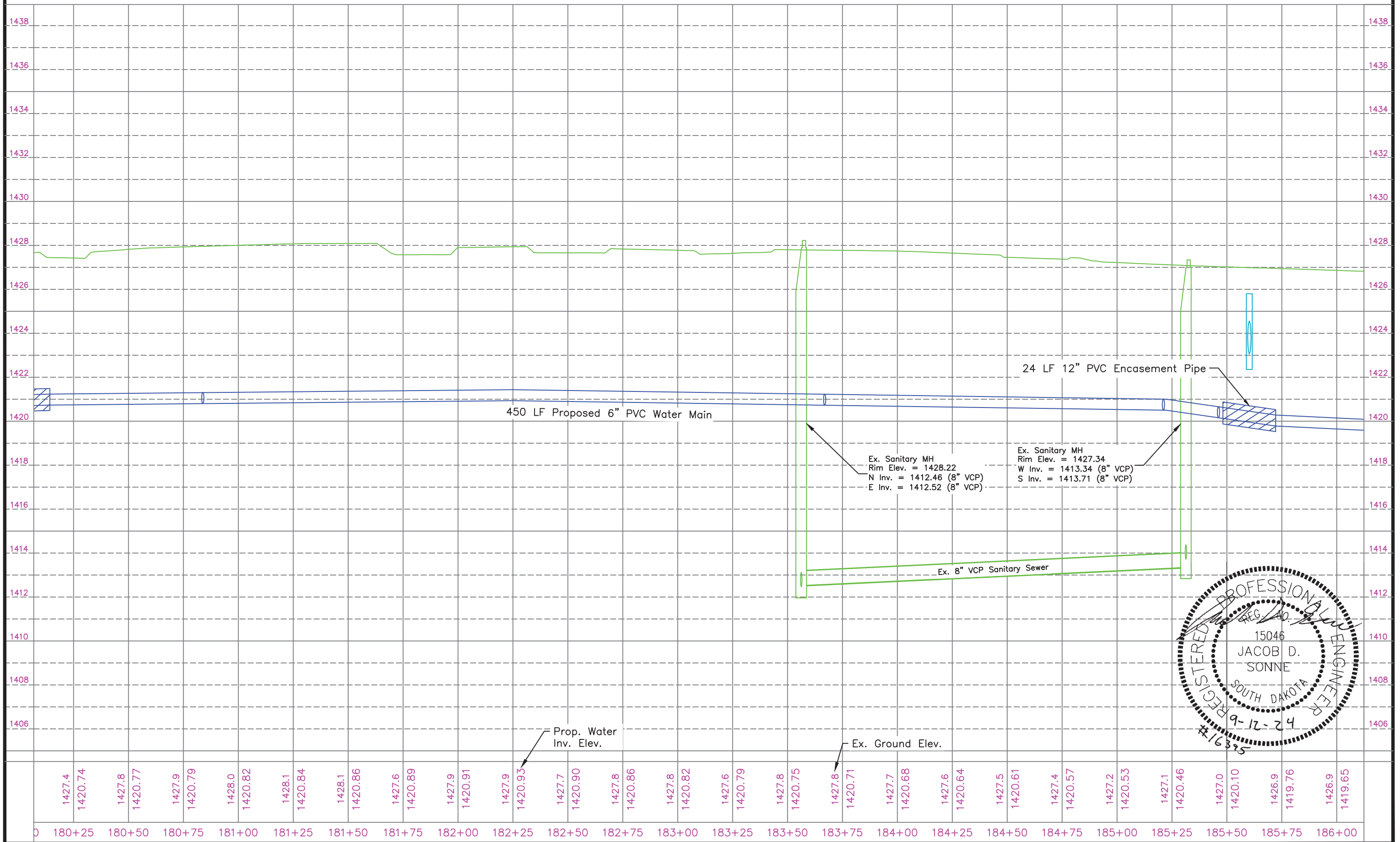
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	38	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Sanitary Sewer Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	39	57

Remove for Reset Sign
263+10-2' L

Remove and Dispose Manhole
261+75- ϕ
263+50- ϕ

Concrete Curb and/or Gutter
261+69 to 262+58-1' L to 9' R (89 LF)
263+03 to 263+60-3' to 10' L (57 LF)

Concrete Driveway Pavement
262+58 to 263+59-20' L to 15' R (165 SY)

Install Connect to Existing 8" VCP Sewer Main
261+73-10' L
264+45- ϕ

Install 8" PVC Sewer Main
261+73-10' L to 261+74- ϕ (10')
261+74- ϕ to 263+50- ϕ (176')

Install 8" PVC Restrained Joint Sewer Main
263+50- ϕ to 264+32- ϕ (82')

Install 48" Manhole
261+74- ϕ
263+50- ϕ

Install Special Concrete Curb and Gutter
261+69.15 to 262+58.18-0.98' L to 9.28' R (89.2 LF)
263+03.00 to 263+59.54-2.54' to 10.14' L (56.6 LF)

Install 6" PCC Driveway Pavement w/ 4" Base Course
262+62.41 to 263+59.29-19.92' L to 14.59' R (145.1 SY)

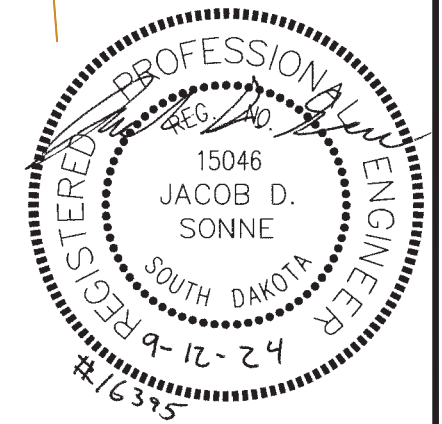
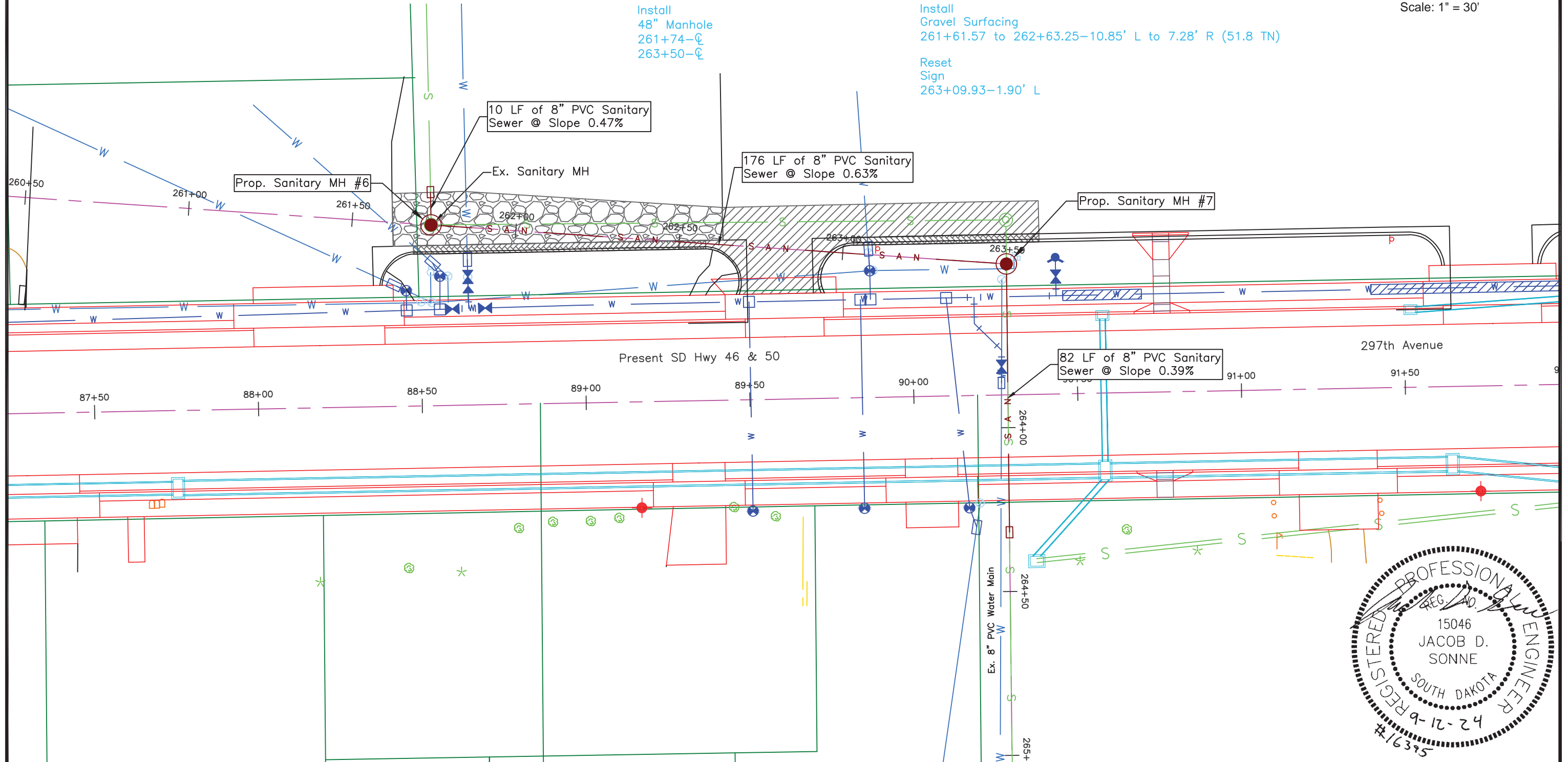
Install 6" PCC Fillet Section
262+57.97 to 262+71.82-2.02' L to 14.59' R (10.2 SY)
262.90.35 to 263+03.16-4.88' L to 12.85' R (9.8 SY)

Install Gravel Surfacing
261+61.57 to 262+63.25-10.85' L to 7.28' R (51.8 TN)

Reset Sign
263+09.93-1.90' L



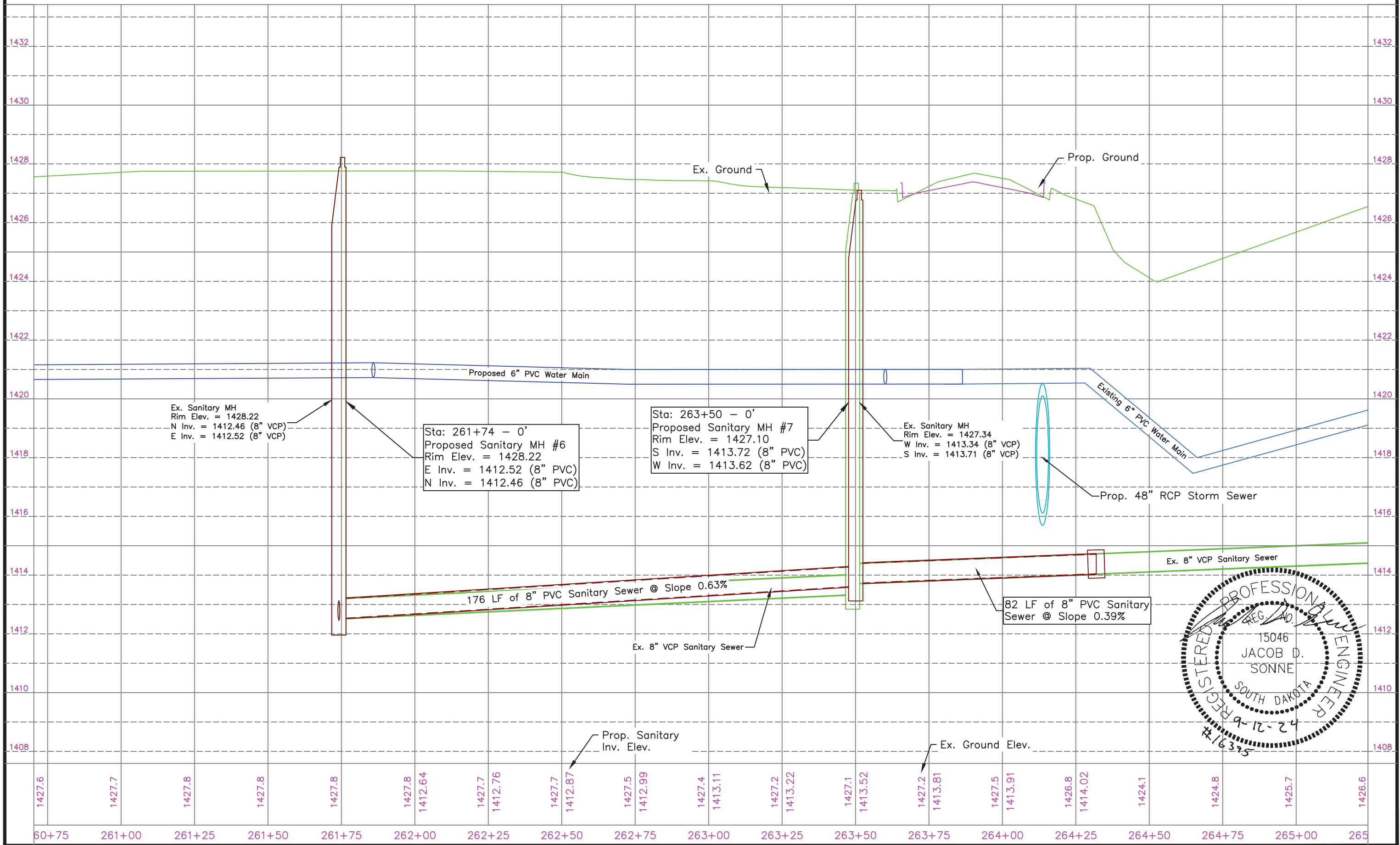
Scale: 1" = 30'



National Guard Armory
Profile View of Sanitary Sewer & Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	40	57
Horiz. Scale: 1" = 30'		Vert. Scale: 1" = 3'	



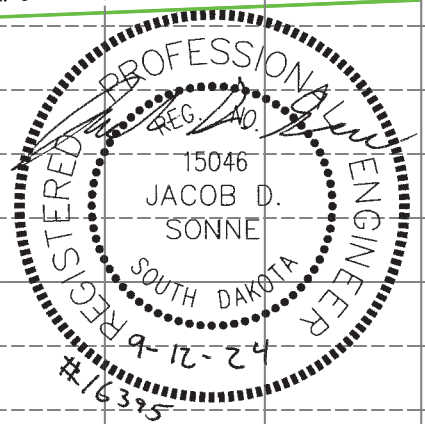
Ex. Sanitary MH
Rim Elev. = 1428.22
N Inv. = 1412.46 (8" VCP)
E Inv. = 1412.52 (8" VCP)

Sta: 261+74 - 0'
Proposed Sanitary MH #6
Rim Elev. = 1428.22
E Inv. = 1412.52 (8" PVC)
N Inv. = 1412.46 (8" PVC)

Sta: 263+50 - 0'
Proposed Sanitary MH #7
Rim Elev. = 1427.10
S Inv. = 1413.72 (8" PVC)
W Inv. = 1413.62 (8" PVC)

Ex. Sanitary MH
Rim Elev. = 1427.34
W Inv. = 1413.34 (8" VCP)
S Inv. = 1413.71 (8" VCP)

82 LF of 8" PVC Sanitary
Sewer @ Slope 0.39%



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	41	57

Remove and Dispose
Fire Hydrant
185+34-12' L

Install
Connect to Existing 8" PVC Water Main
185+29-26' R

Install
6" Gate Valve With Box
185+46-6' L
189+00-☐

Install
Fire Hydrant
185+46-12' L

Install
6" PVC Restrained Joint Water Main
185+48-☐ to 185+72-☐ (24')
186+43-☐ to 187+50-☐ (107')
188+53-☐ to 188+87-☐ (24')

Install
6"x6" Pipe Tee
185+46-☐

Install
Tracer Wire Access Box
185+46-12' L

Install
8" PVC Restrained Joint Water Main
185+21-☐ to 185+29-26' R (30')

Install
8"x6" Pipe Tee
185+21-☐

Install
12" PVC Encasement Pipe
185+48-☐ to 185+72-☐ (24')
186+43-☐ to 187+50-☐ (107')
188+53-☐ to 188+87-☐ (24')

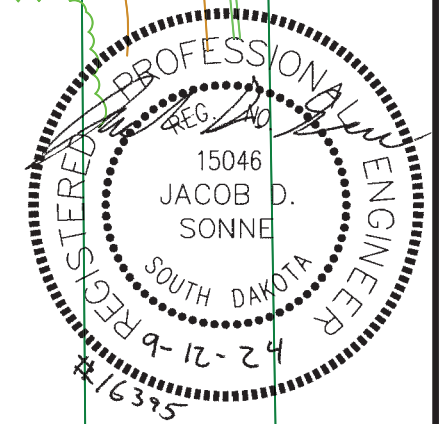
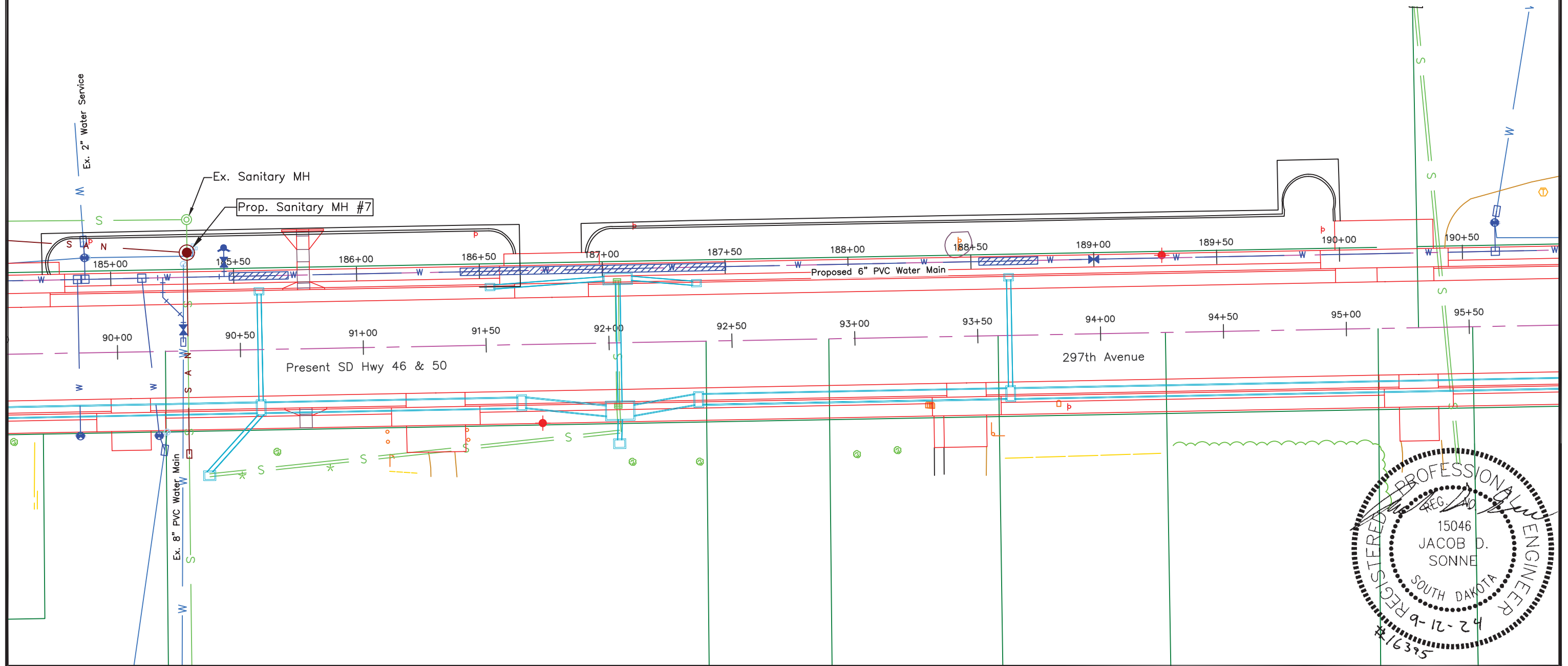
Install
6" PVC Water Main
185+21-☐ to 185+48-☐ (27')
185+46-☐ to 185+46-12' L (12')
185+72-☐ to 186+42-☐ (70')
187+50-☐ to 188+53-☐ (103')
188+70-☐ to 190+00-☐ (130')

Install
8" Gate Valve With Box
185+29-21' R

Install
6" Pipe Bend (45')
185+21-8' R
185+29-16' R



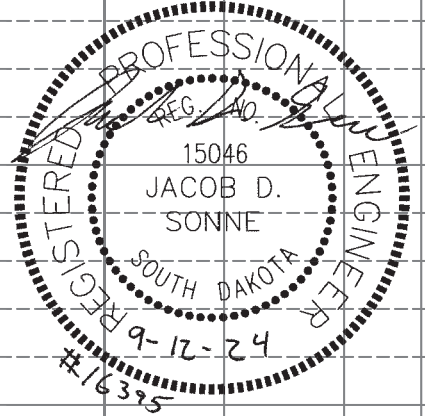
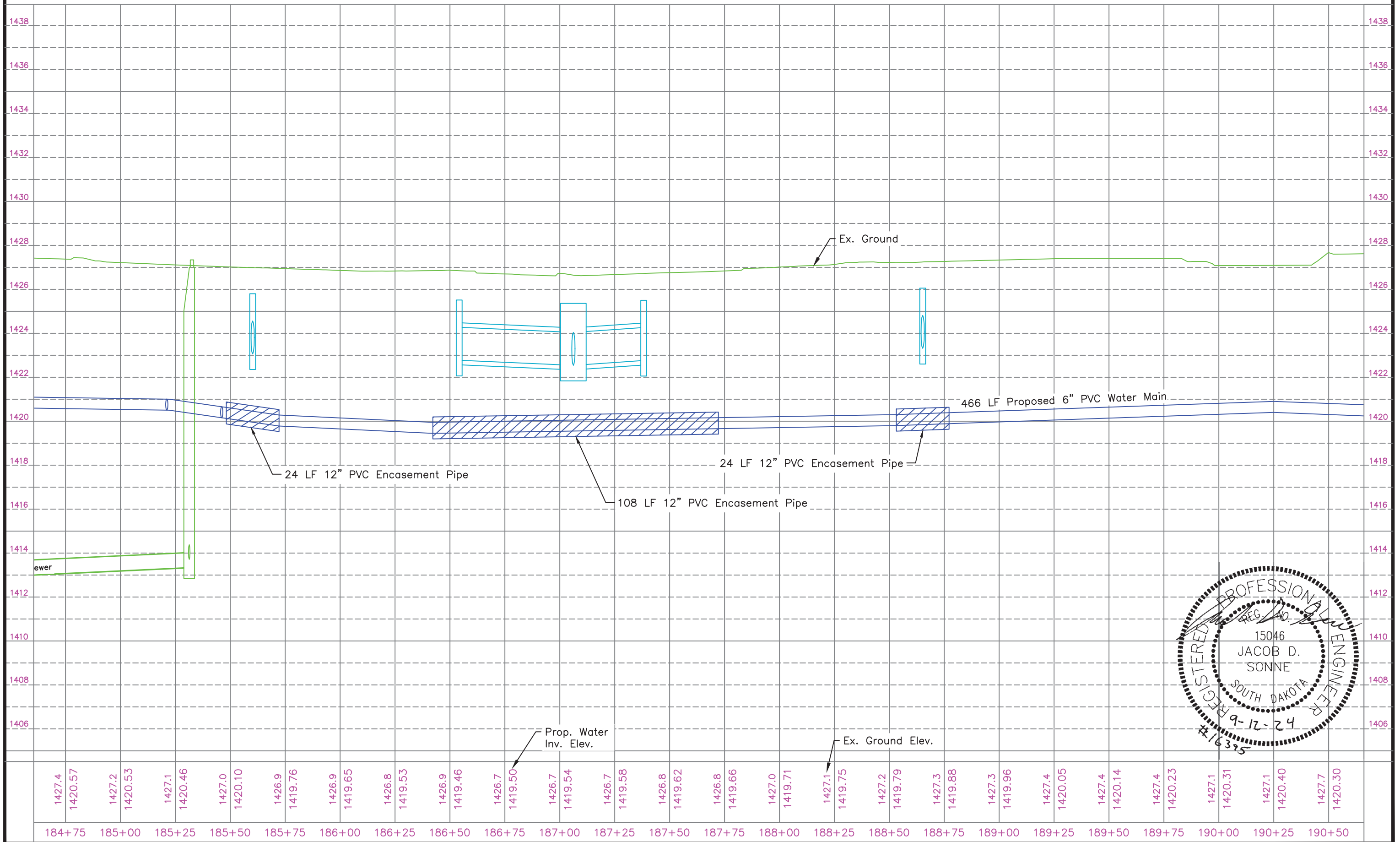
Scale: 1" = 40'



SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	42	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	



Proposed Water Main Notes:

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	43	57

Install
Connect to Existing 6" PVC Water Main
194+40-20' R
194+83-CL

Install
6" PVC Water Main
190+00-CL to 193+65-CL (365')
191+13-CL to 191+13-6' L (6')
193+92-CL to 194+42-CL (50')
194+40-CL to 194+40-20' R (20')
194+63-CL to 194+83-CL (20')

Install
6" PVC Restrained Joint Water Main
193+65-CL to 193+92-CL (27')
194+43-CL to 194+63-CL (20')

Install
6" Gate Valve With Box
191+13-3' L
194+40-15' R
194+68-CL

Install
6"x6" Pipe Tee
191+13-CL
194+40-CL

Install
Fire Hydrant
191+13-6' L

Install
Tracer Wire Access Box
191+13-6' L

Install
12" PVC Encasement Pipe
193+65-CL to 193+92-CL (27')
194+43-CL to 194+63-CL (20')

Install
1" Copper Pipe
190+63-CL to 190+64-16' L (16')

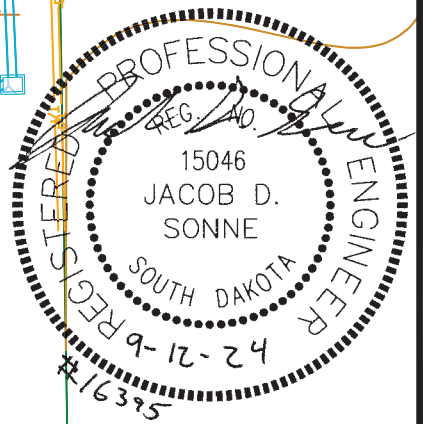
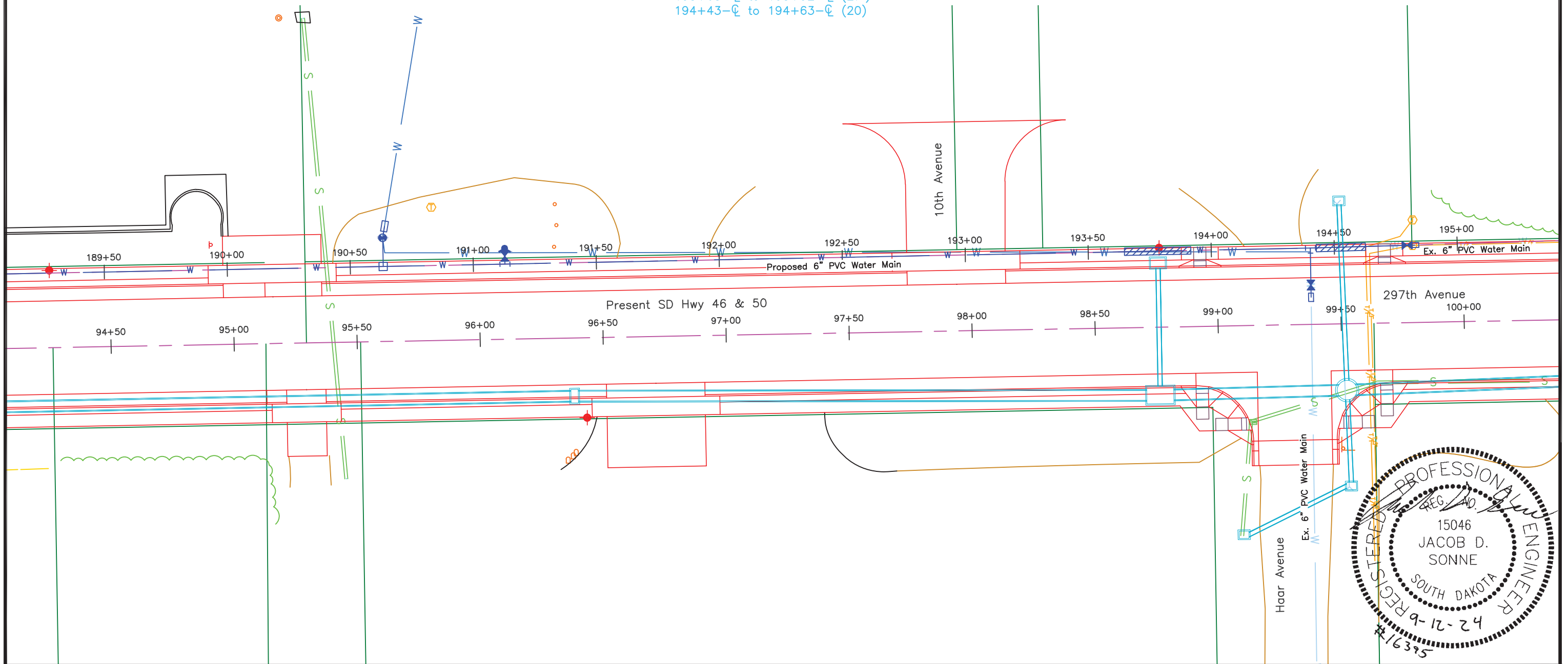
Install
1" Curb Stop With Box
190+63-12' L

Install
1" Corporation Stop With Tapping Saddle
190+63-CL

Install
Reconnect Water Service
190+64-16' L



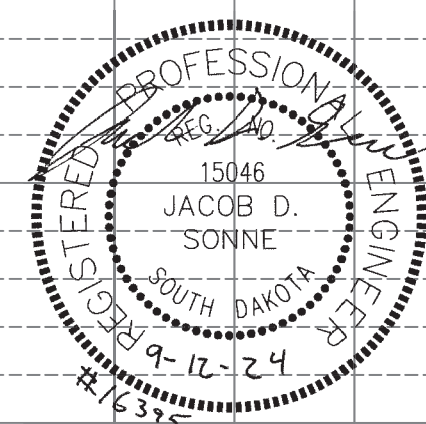
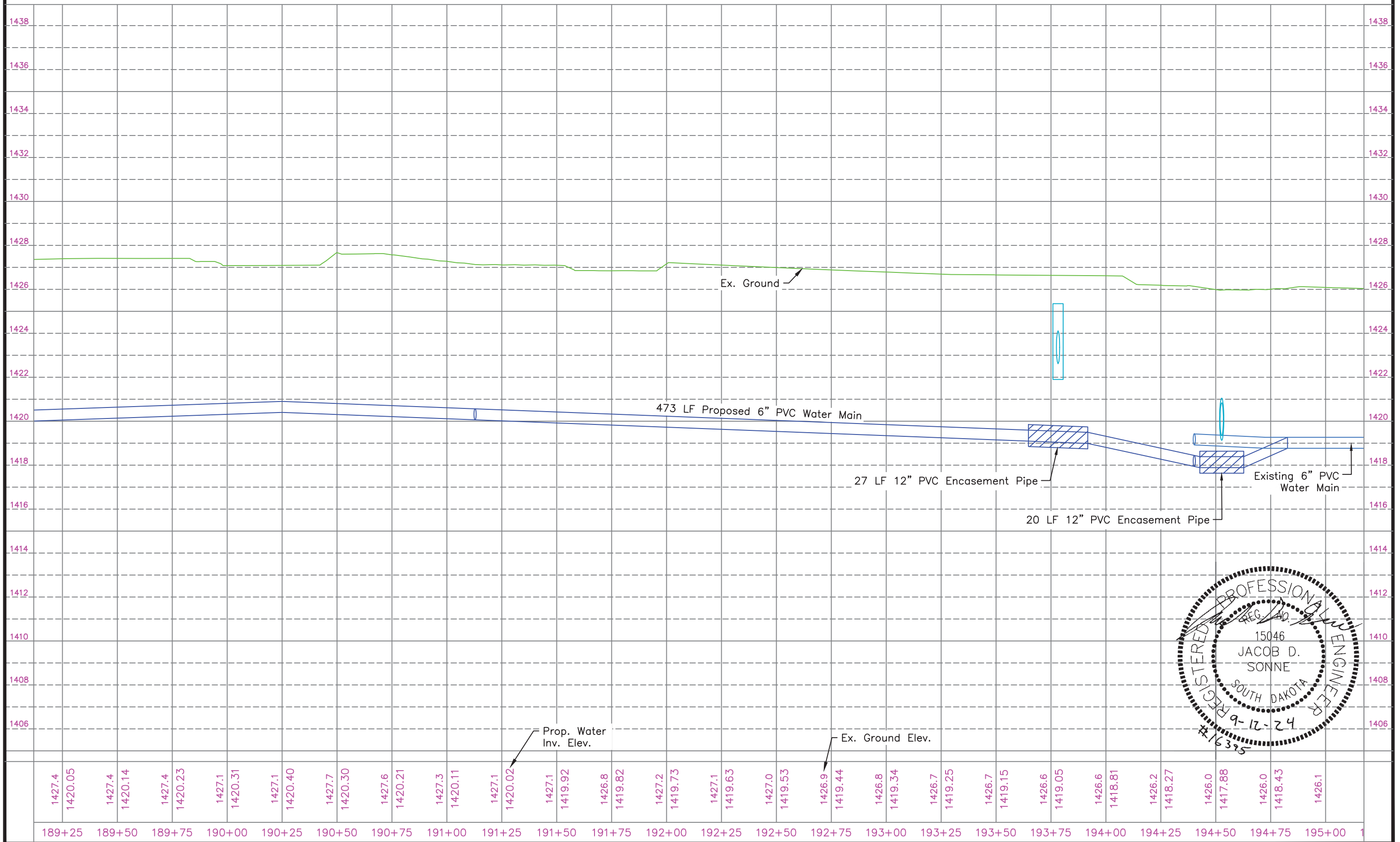
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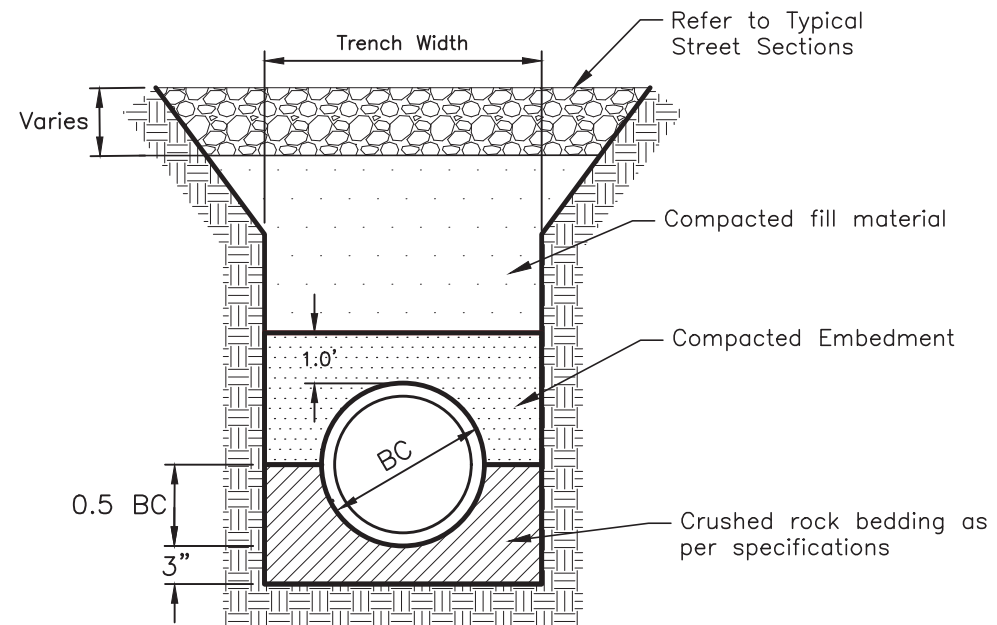


SD Hwy 46 & 50
Profile View of Water

FOR BIDDING PURPOSES ONLY

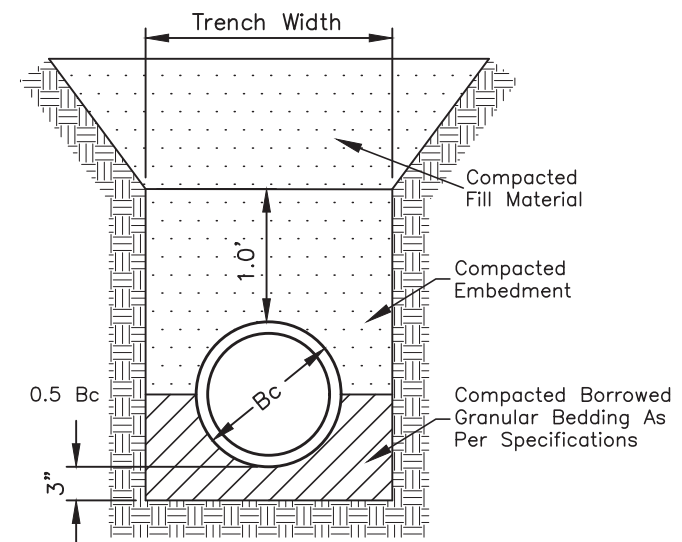
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	44	57
Horiz. Scale: 1" = 40'		Vert. Scale: 1" = 4'	





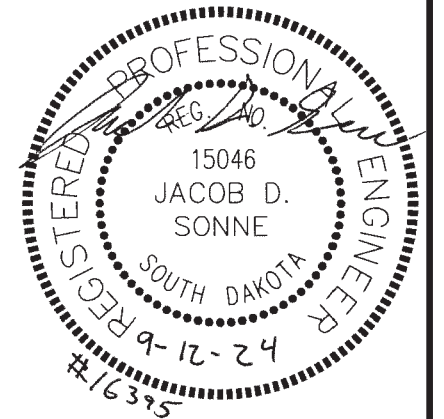
SANITARY PVC PIPE BEDDING DETAIL

SCALE: NONE

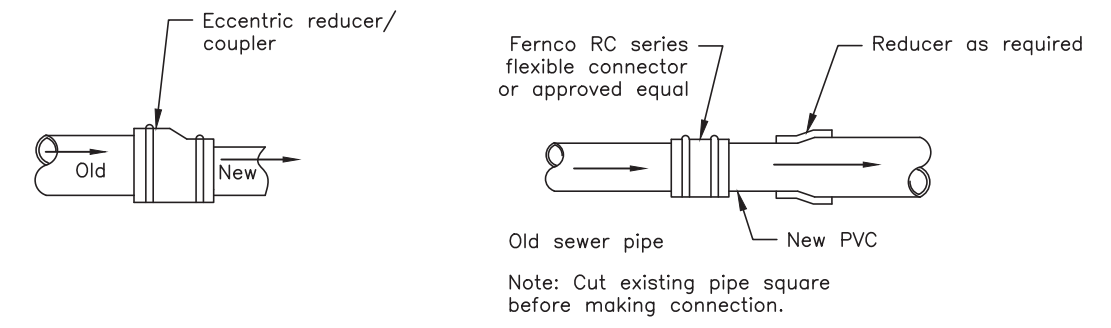
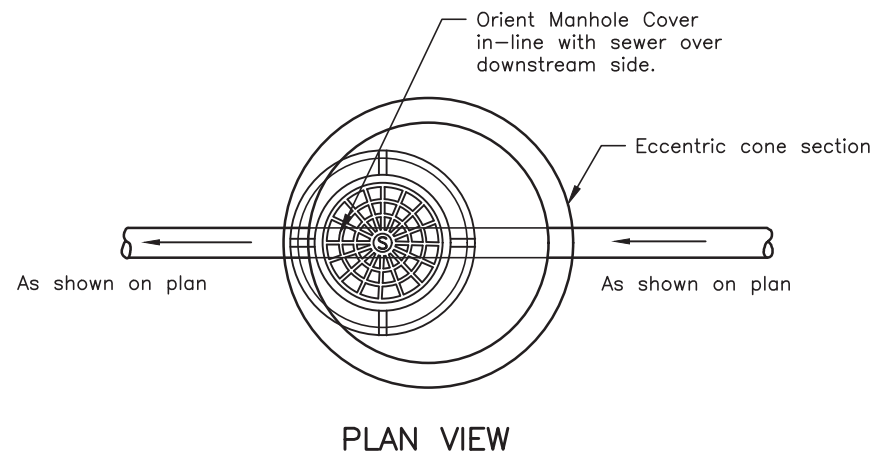


PVC WATER MAIN BEDDING DETAIL

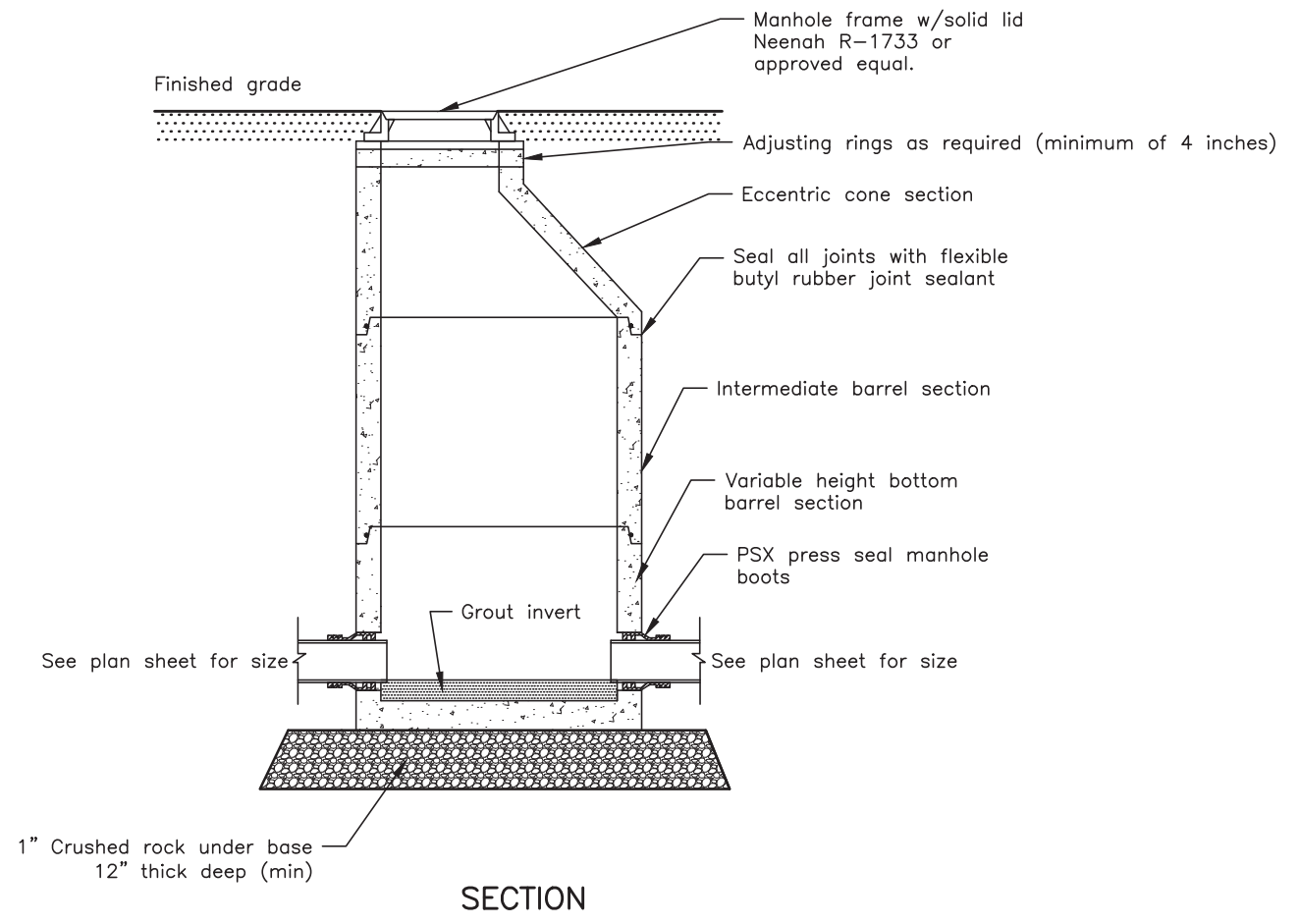
SCALE: NONE



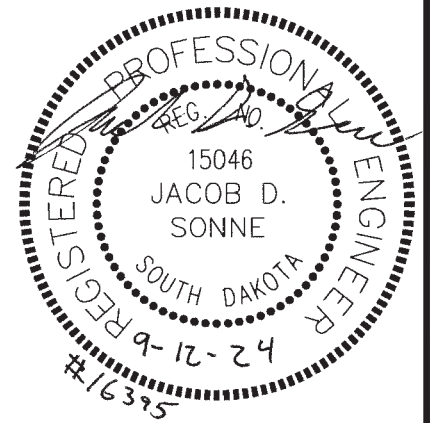
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	46	57



CONNECTION OF EXISTING TO NEW
SANITARY SEWER SERVICE
SCALE: NONE

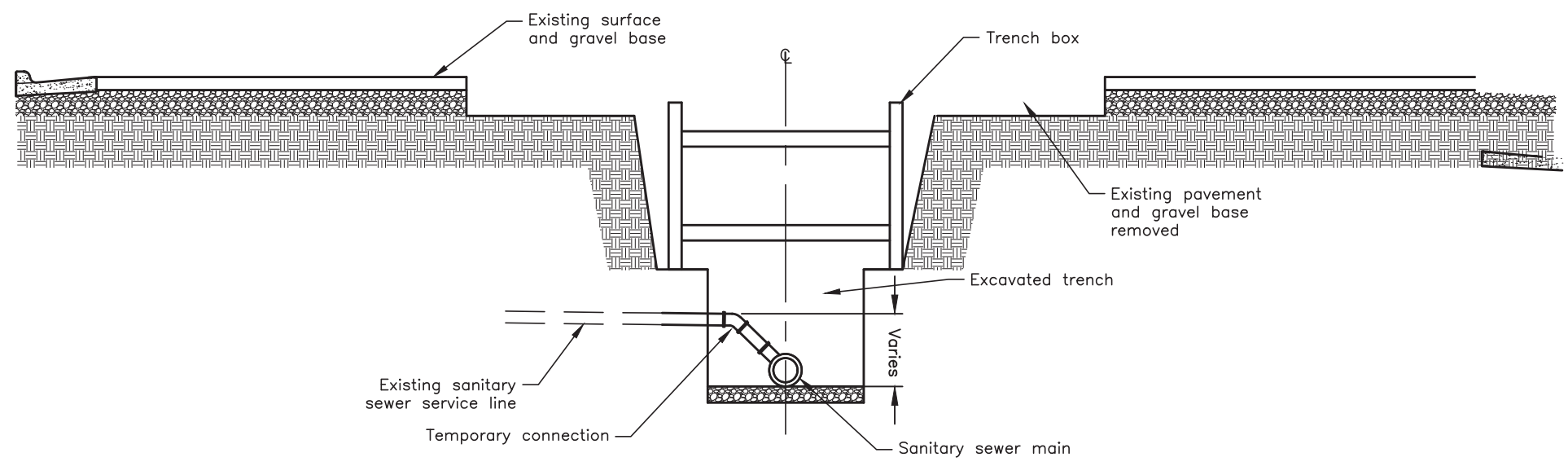


TYPICAL SANITARY MANHOLE DETAIL
SCALE: NONE



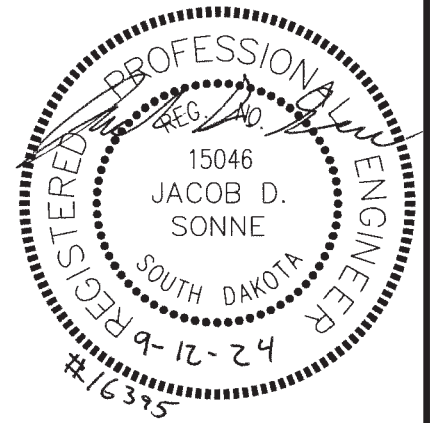
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	47	57



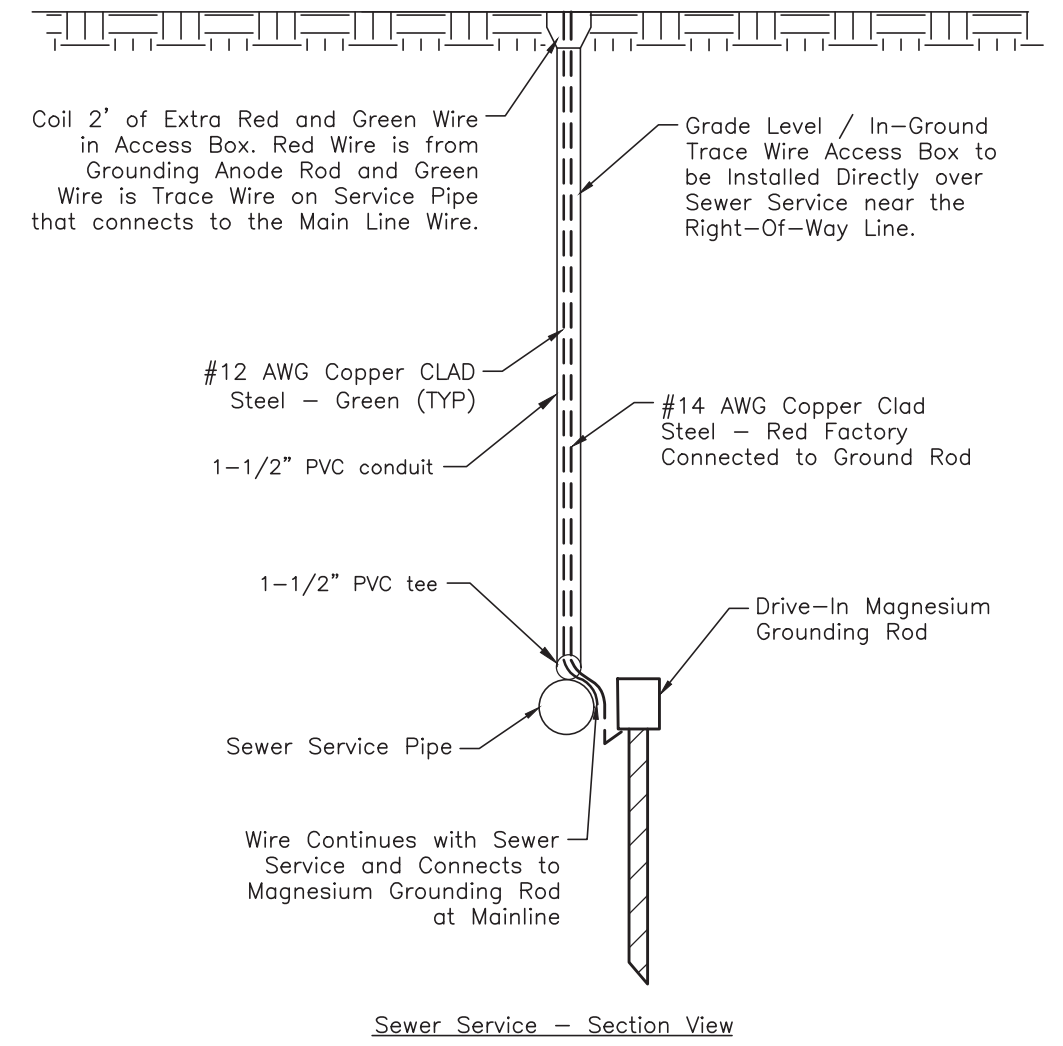
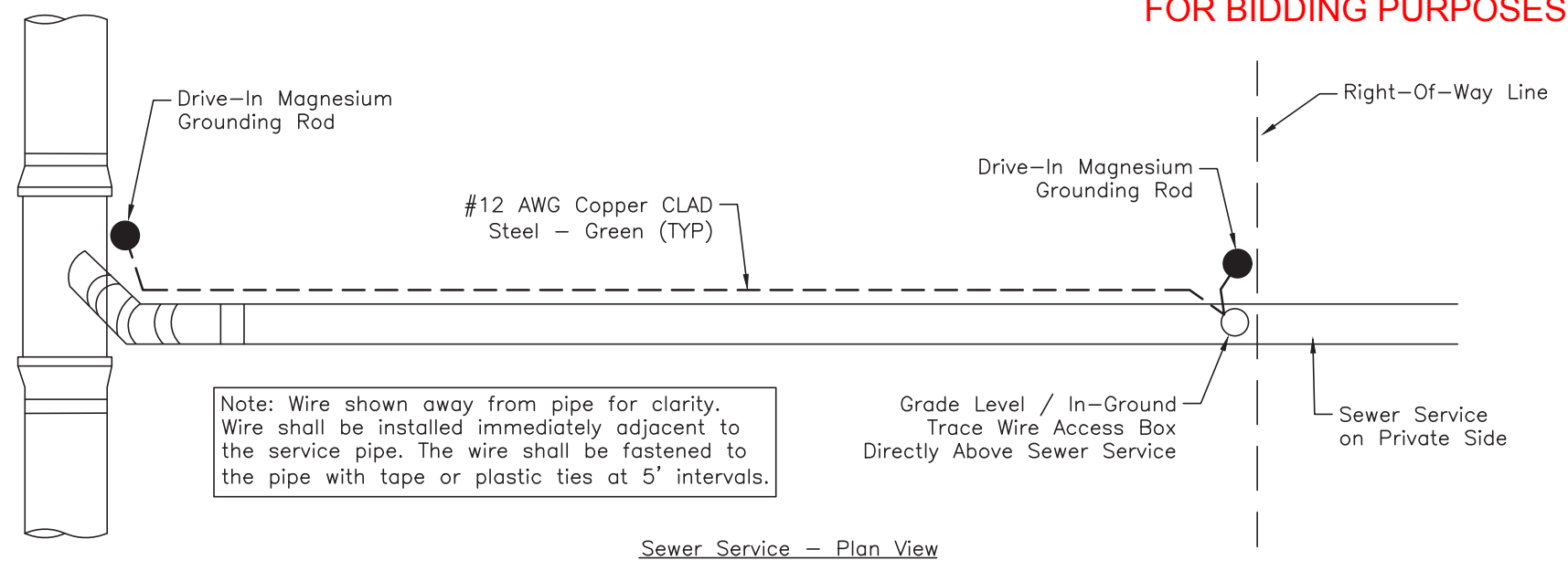
TEMPORARY SERVICE LINE CONNECTION DETAIL

SCALE: NONE

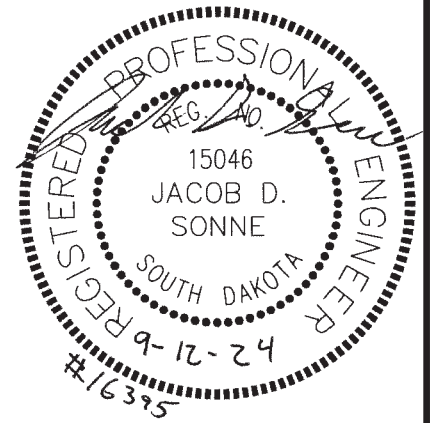


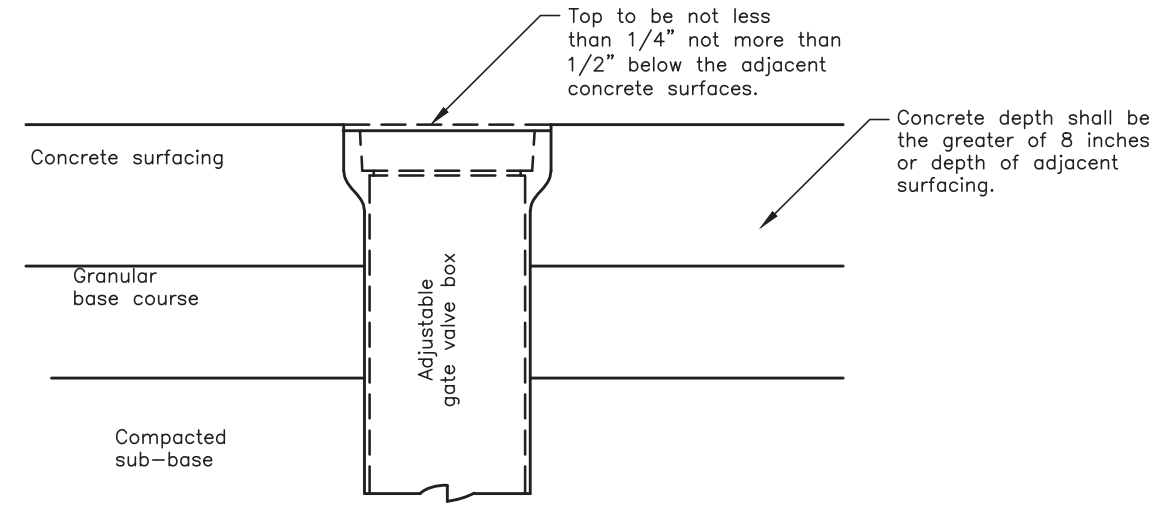
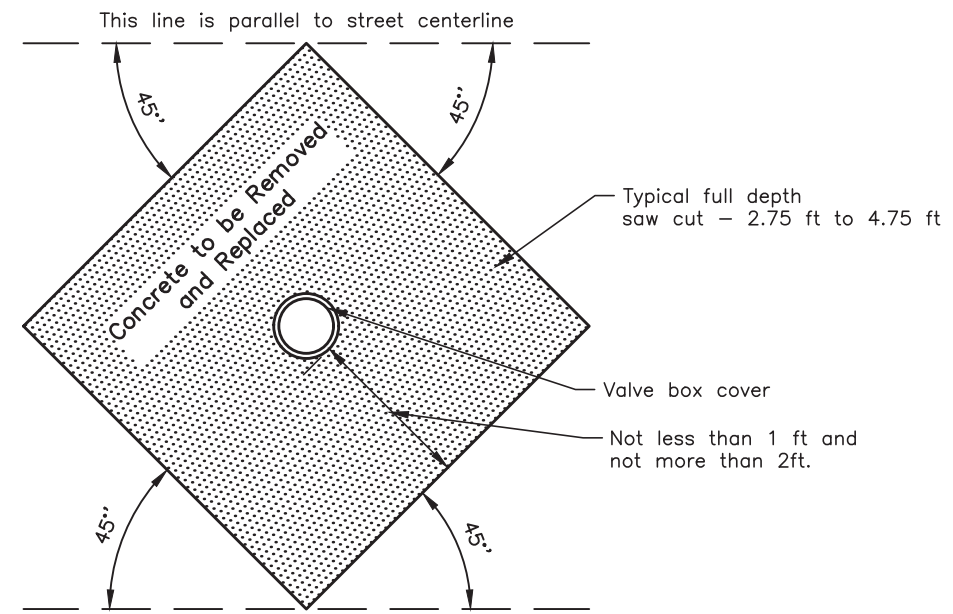
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	48	57

FOR BIDDING PURPOSES ONLY



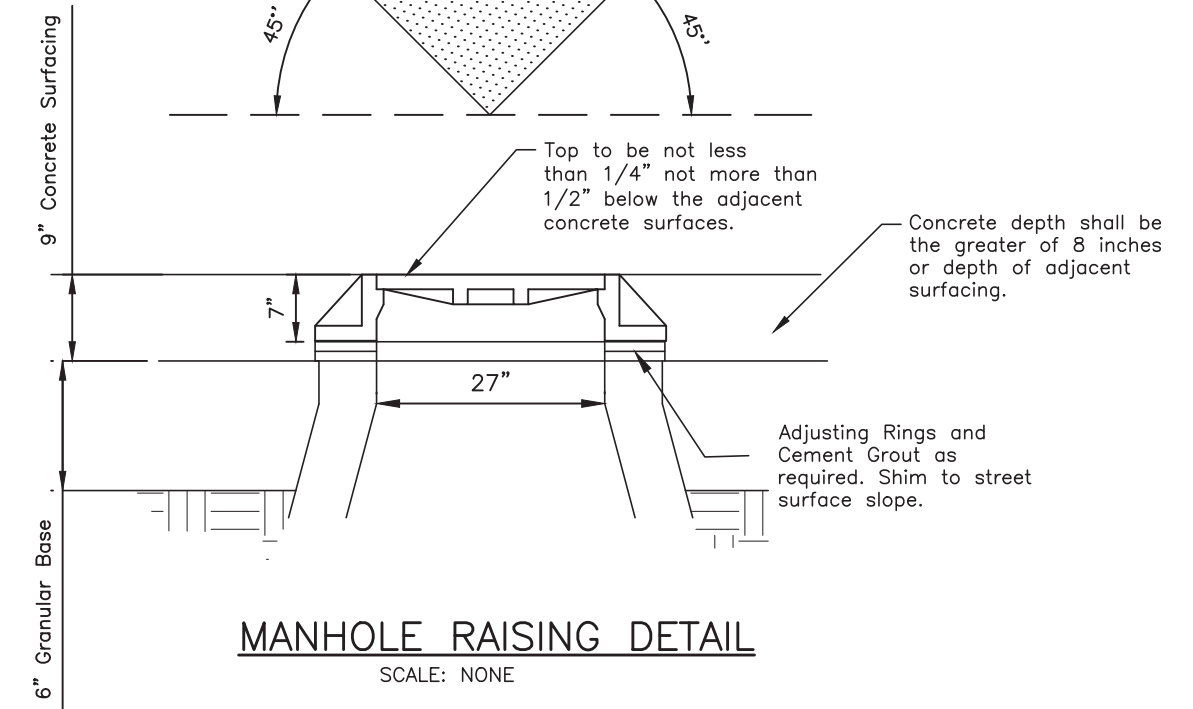
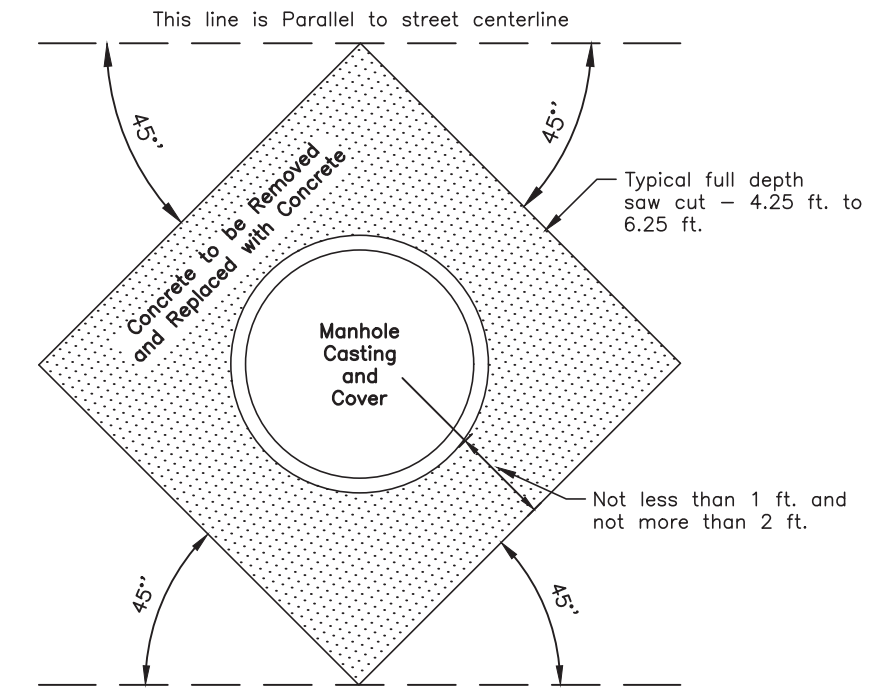
TRACER WIRE DETAIL
SCALE: NONE





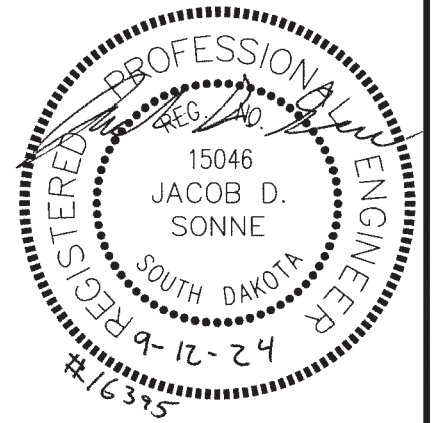
WATER VALVE RAISING DETAIL
SCALE: NONE

NOTE:
The valve boxes shall be installed such that the top of the valve box shall be at an elevation equal to the street granular base course material. After the base course material and the concrete surfacing has been placed, the valve box shall be exposed and raised to an elevation that is not less than 1/4 inch nor more than 1/2 inch below the surfaces of the adjacent concrete surfaces. The removal and replacement of the concrete surface shall be in conformance with the requirements of the specifications and the details as shown in these plans.

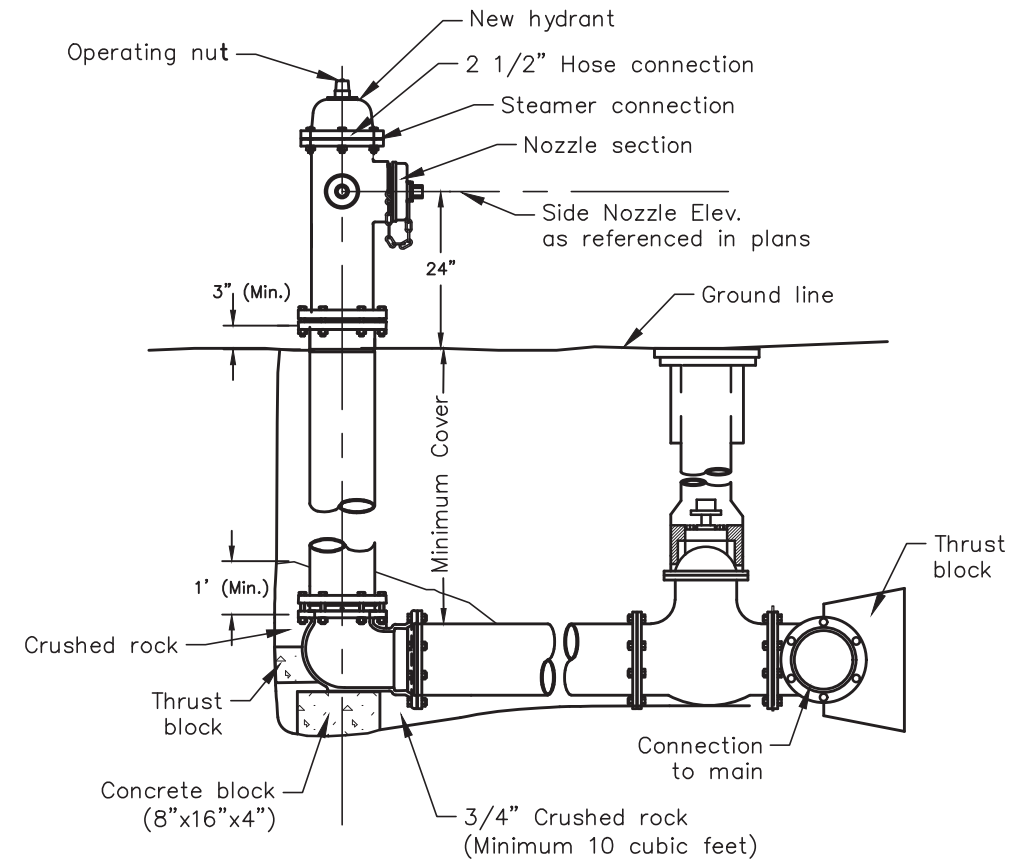


MANHOLE RAISING DETAIL
SCALE: NONE

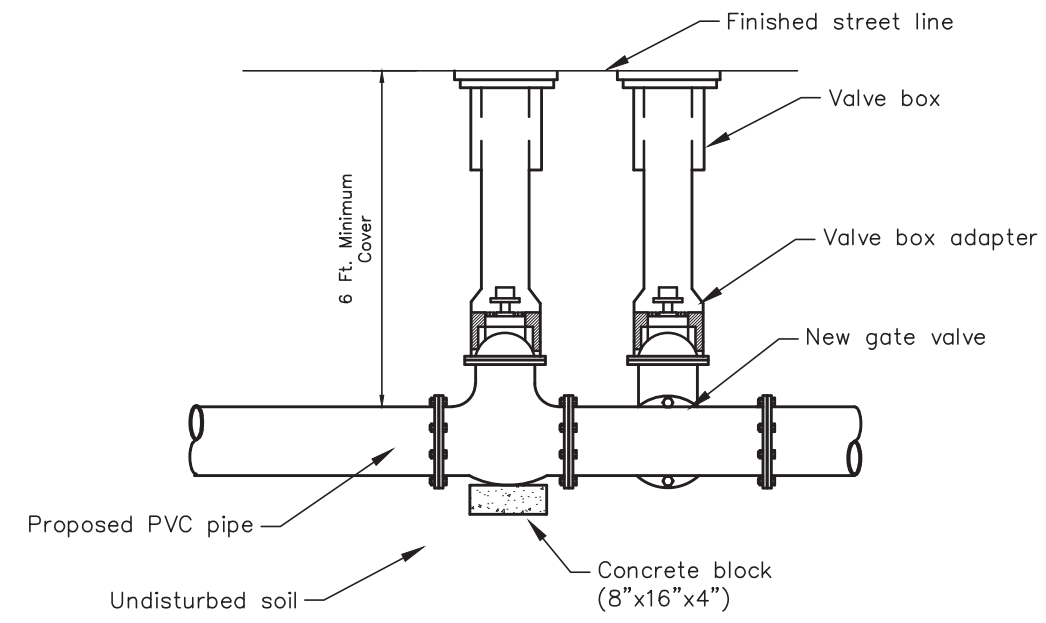
NOTE:
The existing concrete shall be cut to provide smooth vertical faces on all sides. Remove concrete and gravel base as required for installation of gravel base and concrete surfacing. Remove manhole casting. Reset the casting to the proper elevation with cement mortar and concrete adjusting rings. Recompact the gravel base and install concrete around the casting such that the top of the casting is not less than 1/4" nor more than 1/2" below the finished surface. The concrete shall be the same thickness as the existing and shall be placed flush with the surrounding concrete surface.



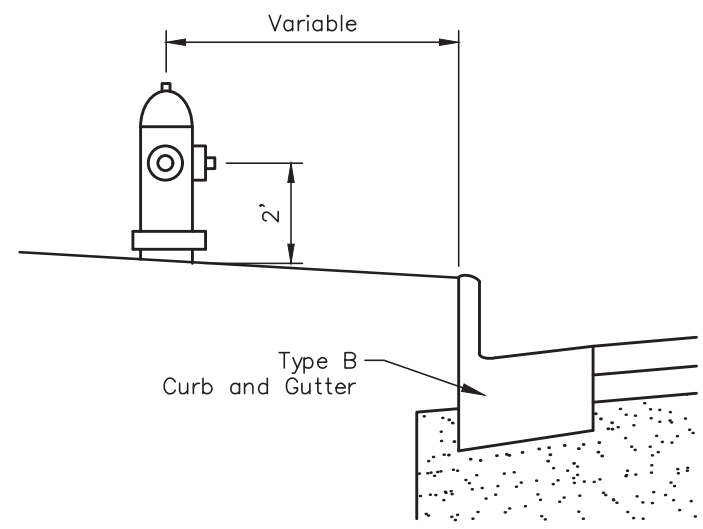
FOR BIDDING PURPOSES ONLY



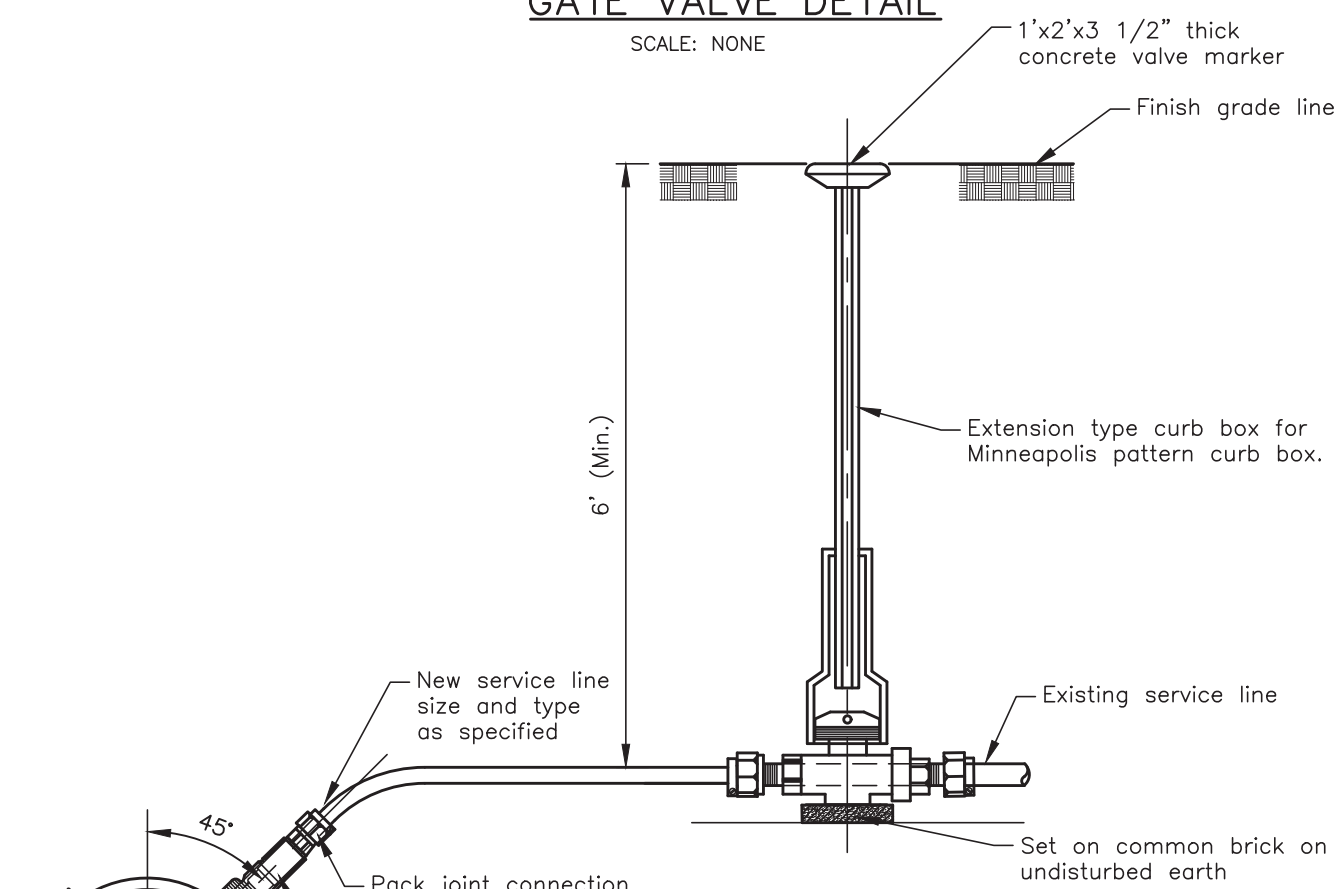
FIRE HYDRANT DETAIL
SCALE: NONE



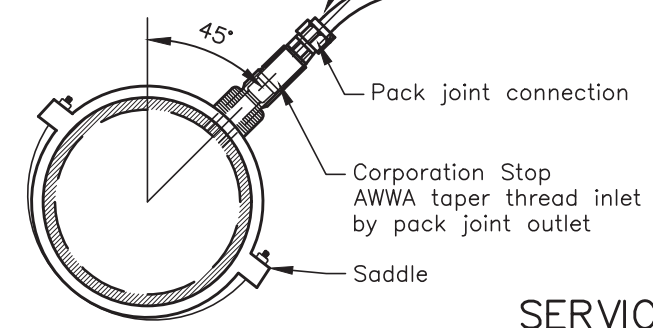
GATE VALVE DETAIL
SCALE: NONE



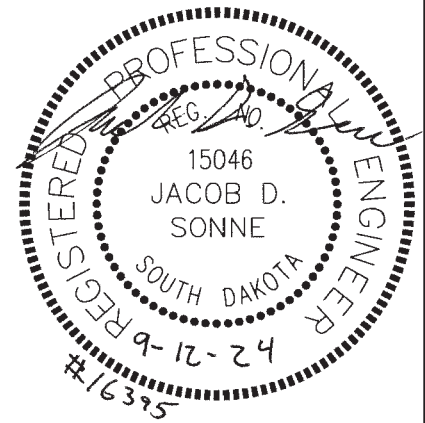
TYPICAL FIRE HYDRANT INSTALLATION
SCALE: NONE



CURB STOP INSTALLATION
SCALE: NONE

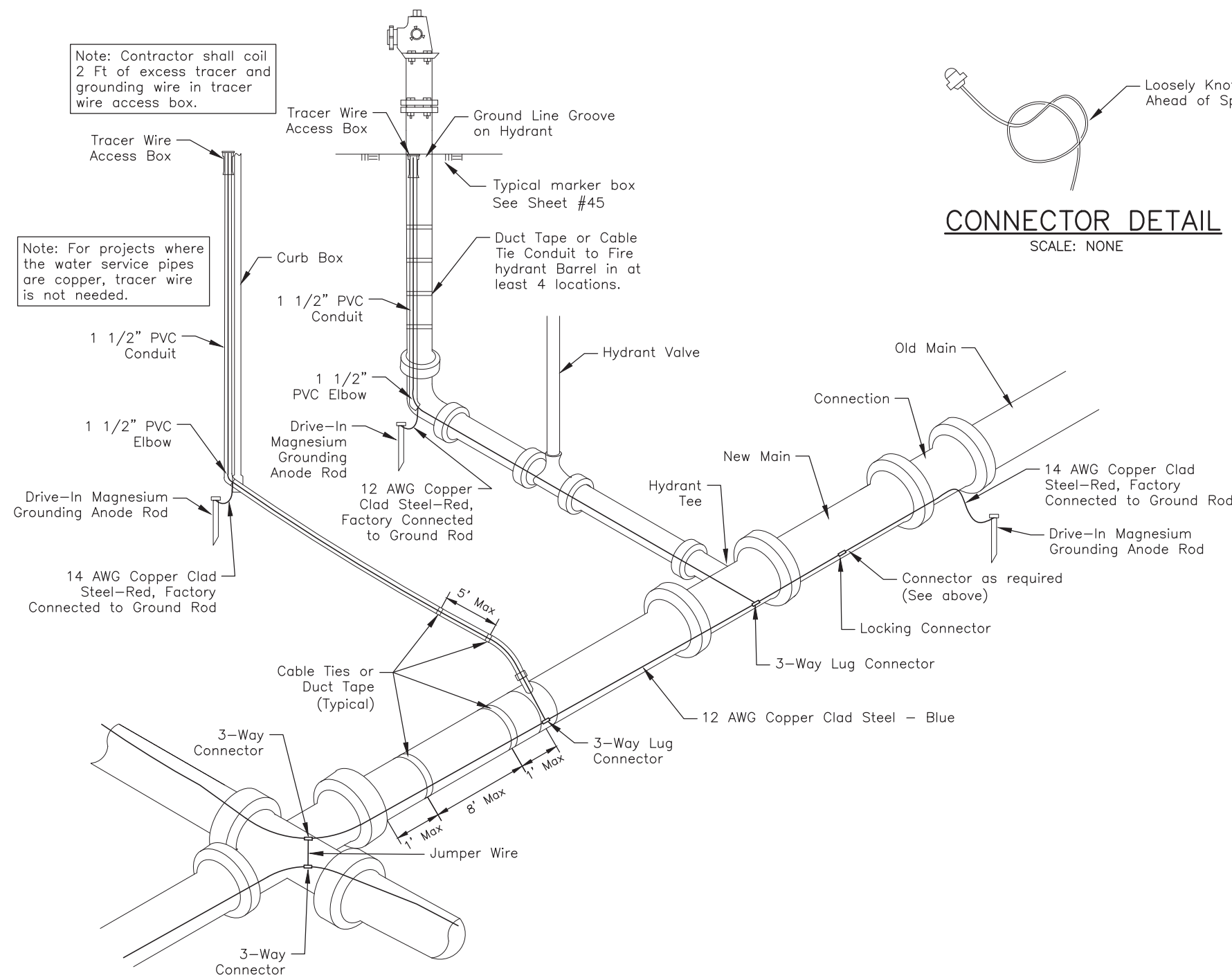


SERVICE LINE CONNECTION DETAIL
SCALE: NONE

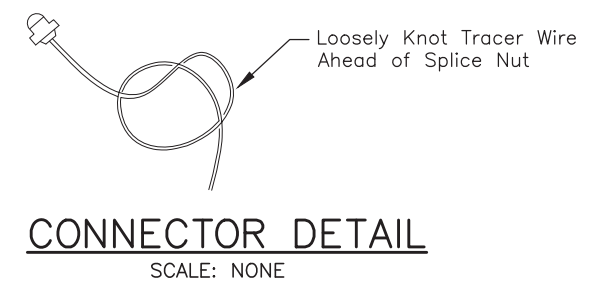


FOR BIDDING PURPOSES ONLY

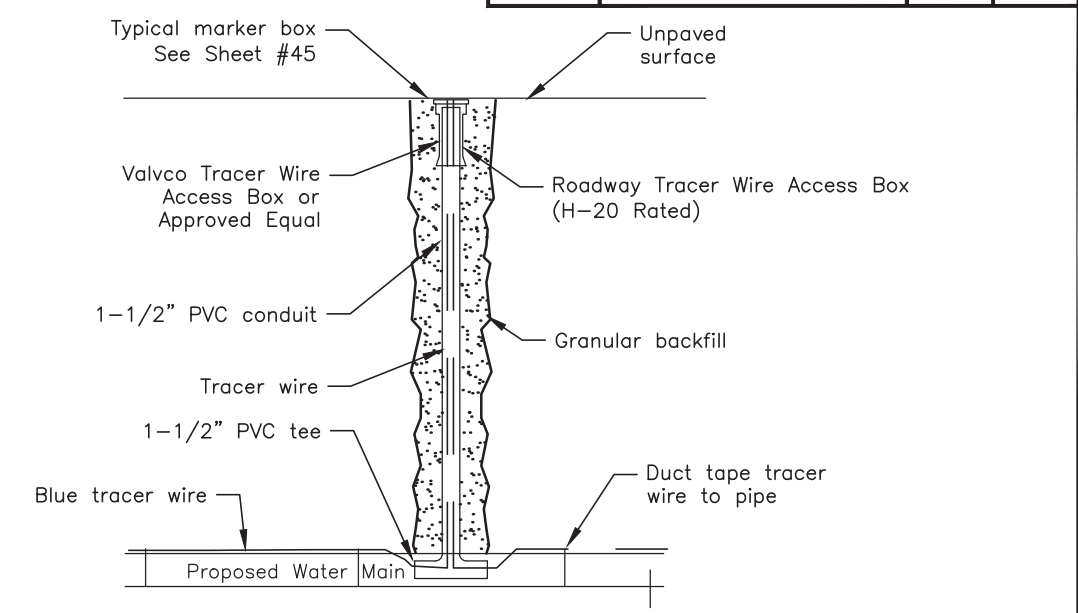
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	51	57



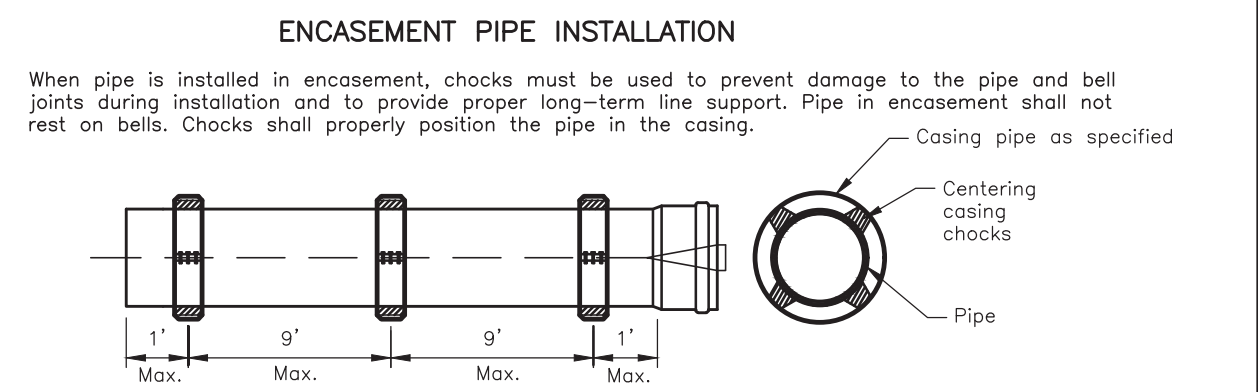
TRACER WIRE DETAIL
SCALE: NONE



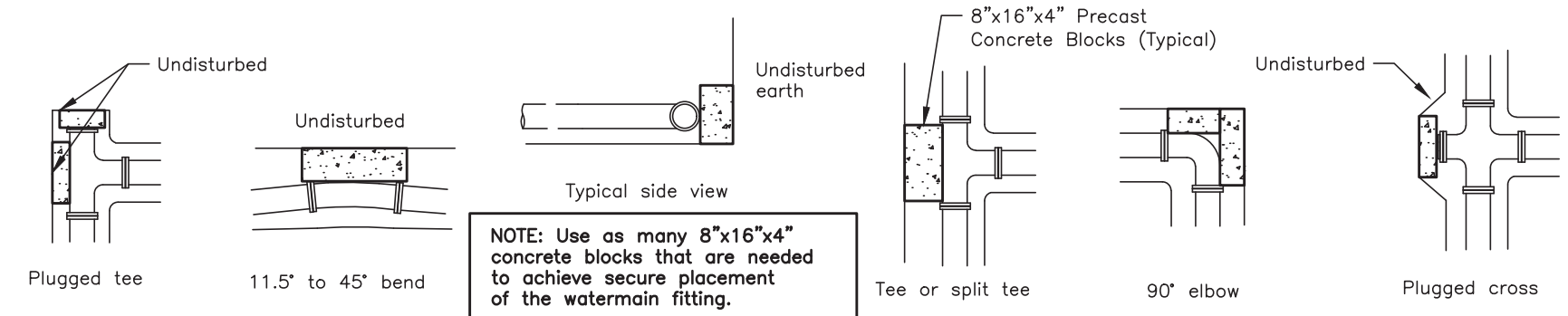
CONNECTOR DETAIL
SCALE: NONE



TRACER WIRE CONDUIT AND ACCESS BOX INSTALLATION
SCALE: NONE

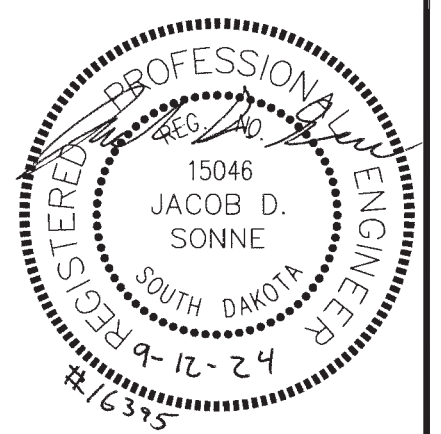


ENCASEMENT PIPE AND CHOCKS DETAIL
SCALE: NONE

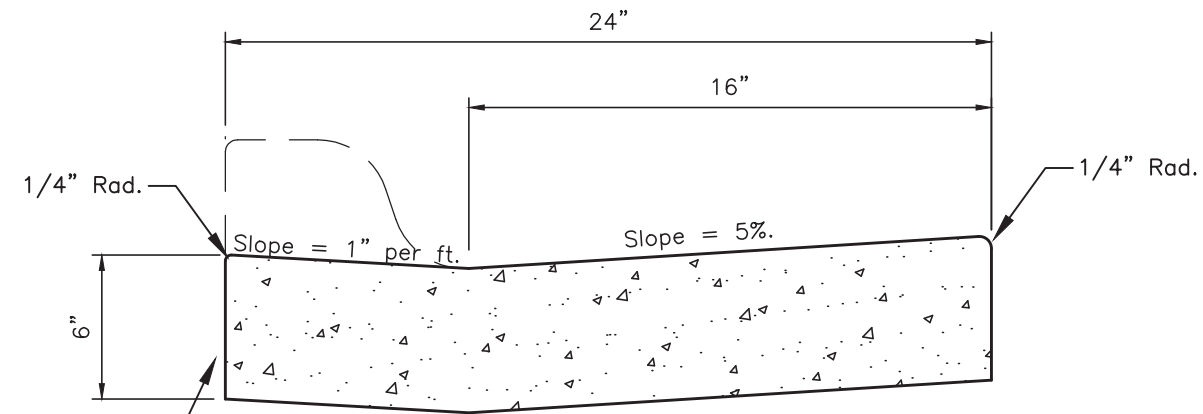


NOTE: Use as many 8"x16"x4" concrete blocks that are needed to achieve secure placement of the watermain fitting.

THRUST BLOCK LOCATIONS FOR WATERMAIN INSTALLATIONS
SCALE: NONE



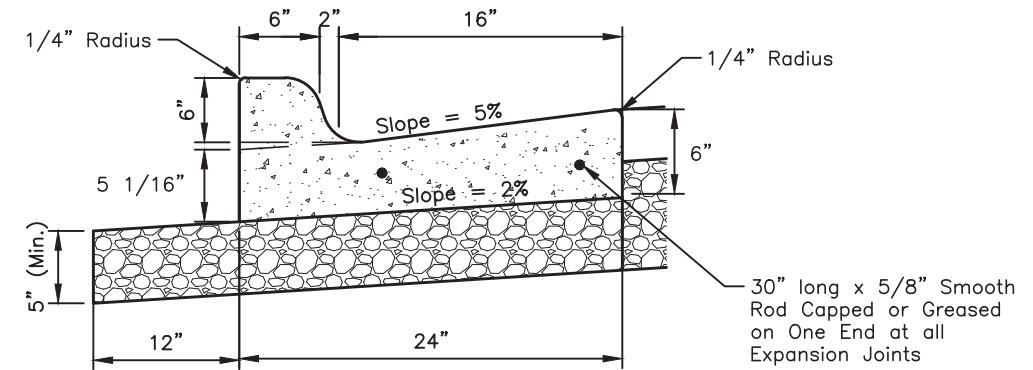
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	16395	52	57



The stated radii for fillet sections on the plans refer to this line, and it shall also be the basis for horizontal linear foot measurement and payment.

SPECIAL CONCRETE GUTTER DETAIL

SCALE: NONE



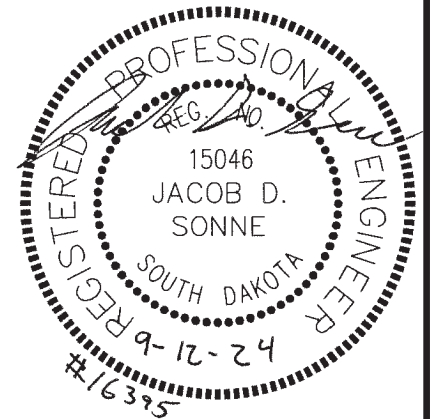
GENERAL NOTES:

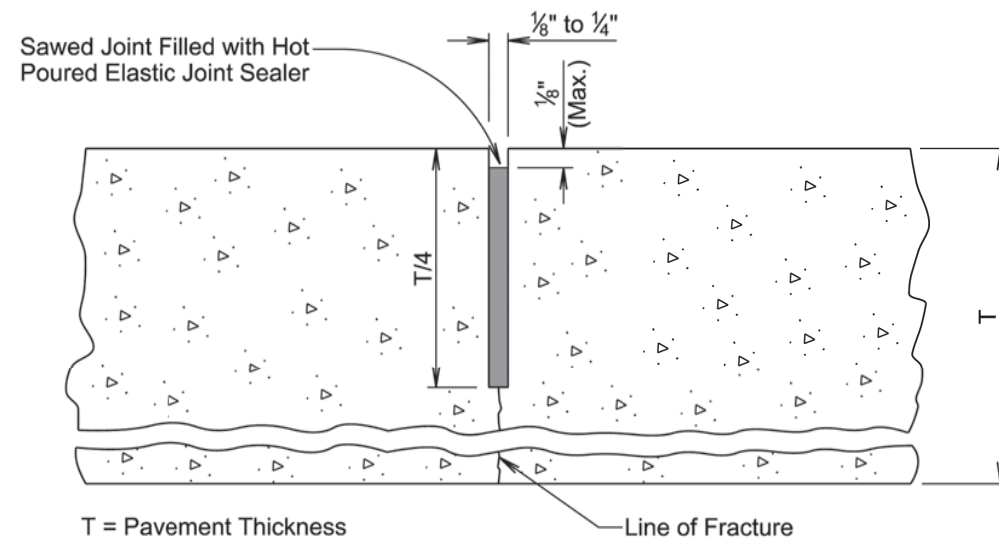
1/2" Preformed expansion joint fillers shall be placed transversely in the curb and gutter at each junction of radius return curb and gutter and curb and gutter which is parallel to the project centerline and at intervals not greater than 150'.

Weakened plane joints shall be constructed at a minimum of 10' intervals, when the curb and gutter is to be constructed adjacent to PCC pavement, then the joints shall coincide with the pavement's joints. The joints shall be constructed to a minimum depth of two inches by scoring with a tool which will leave the corners rounded and insure a free movement of concrete at the joint.

SPECIAL CONCRETE CURB AND GUTTER DETAIL

SCALE: NONE





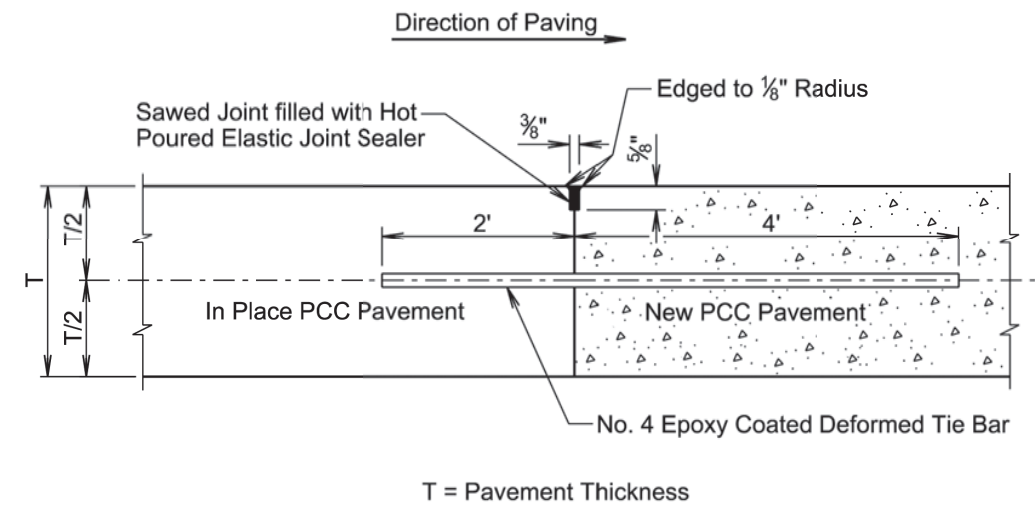
GENERAL NOTES:

If an early entrance saw cut does not develop the full transverse crack, then the saw cut to control cracking will be a minimum 1/4 of the thickness of the pavement.

All hot poured elastic joint sealer material spilled on the surface of the concrete pavement will be removed as soon as the material has cooled. The extent of removal of material will be to the satisfaction of the Engineer. All costs for removal of the spilled joint sealer material will be borne by the Contractor.

November 19, 2022

<i>Published Date: 2025</i>	S D D O T	PCC PAVEMENT TRANSVERSE CONTRACTION JOINT WITH OR WITHOUT DOWEL BAR ASSEMBLY	PLATE NUMBER 380.12
			Sheet 1 of 1



GENERAL NOTES:

No. 4 epoxy coated deformed tie bars will be spaced 12 inches center to center and will be a minimum of 3 inches and a maximum of 6 inches from the pavement edges.

The minimum distance between a transverse construction joint with tie bars and an adjacent transverse contraction joint will be 5 feet.

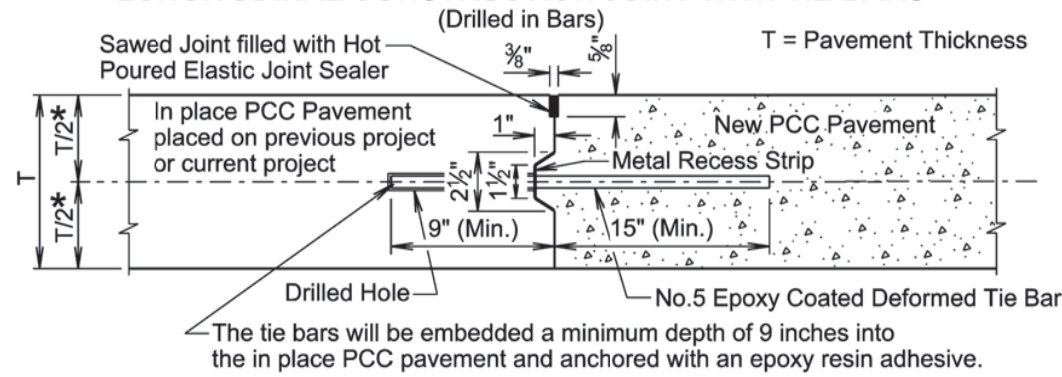
When a transverse construction joint is made, paving will not be allowed in this area for 12 hours.

The term "In Place PCC Pavement" in the above drawing indicates that the in place PCC pavement was placed on the current project.

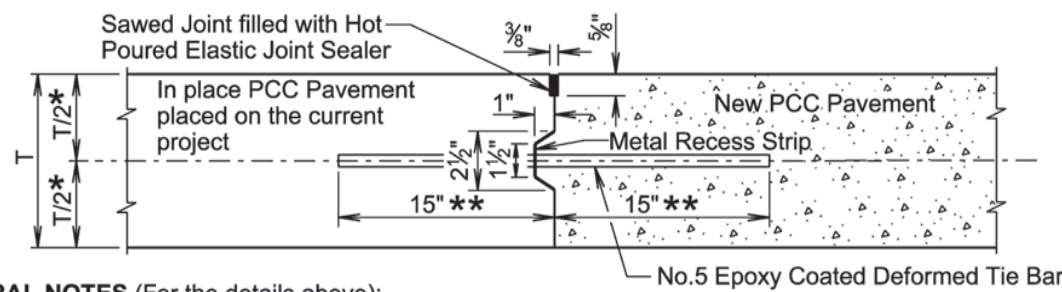
March 31, 2024

<i>Published Date: 2025</i>	S D D O T	PCC PAVEMENT MID PANEL TRANSVERSE CONSTRUCTION JOINT	PLATE NUMBER 380.14
			Sheet 1 of 1

LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS



LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS
(Inserted or Formed in Bars)



GENERAL NOTES (For the details above):

The epoxy coated deformed tie bars will be spaced in accordance with the following tables:

TIE BAR SPACING 48" MAXIMUM	
Transverse Contraction Joint Spacing	Number of Tie Bars
6.5' to 10'	2
10.5' to 14'	3
14.5' to 18'	4
18.5' to 22'	5

TIE BAR SPACING 30" MAXIMUM	
Transverse Contraction Joint Spacing	Number of Tie Bars
5' to 7'	2
7.5' to 9.5'	3
10' to 12'	4
12.5' to 14.5'	5
15' to 17'	6
17.5' to 19.5'	7
20' to 22'	8

The tie bars will be placed a minimum of 15 inches from transverse contraction joints.

The required number of tie bars as shown in the table will be uniformly spaced within each panel. The uniformly spaced tie bars will be spaced a maximum of 48 inches center to center for a female keyway and will be spaced a maximum of 30 inches center to center for a vertical face and male keyway. The maximum tie bar spacing will apply to tie bars within each panel.

The keyway illustrated in the above details depict a female keyway.

The keyway is optional and is not required. When concrete pavement is formed and a keyway is provided, a metal recess strip will be used. When concrete pavement is slip formed, a metal recess strip is not required.

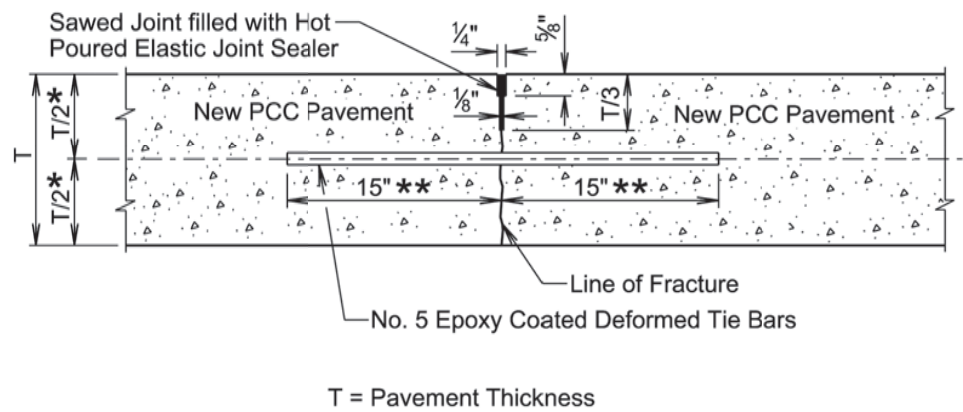
- * The vertical placement tolerance for any part of the tie bar will be $\pm T/6$.
- ** The transverse placement (side shift) tolerance will be ± 3 inches when measured perpendicular to the longitudinal joint line.

November 19, 2022

S D D O T	PCC PAVEMENT LONGITUDINAL JOINTS WITH TIE BARS	PLATE NUMBER 380.20
		Sheet 1 of 2

Published Date: 2025

SAWED LONGITUDINAL JOINT WITH TIE BARS
(Poured Monolithically)



GENERAL NOTES (For the detail above):

The epoxy coated deformed tie bars will be spaced in accordance with the following table:

TIE BAR SPACING 48" MAXIMUM	
Transverse Contraction Joint Spacing	Number of Tie Bars
6.5' to 10'	2
10.5' to 14'	3
14.5' to 18'	4
18.5' to 22'	5

The tie bars will be placed a minimum of 15 inches from the transverse contraction joints.

The required number of tie bars as shown in the table will be uniformly spaced within each panel with a maximum space of 48 inches center to center. The maximum tie bar spacing will apply to tie bars within each panel.

The first saw cut to control cracking will be a minimum of 1/3 the thickness of the pavement. Additional sawing for widening the saw cut to provide the width for the installation of the hot poured elastic joint sealer is necessary.

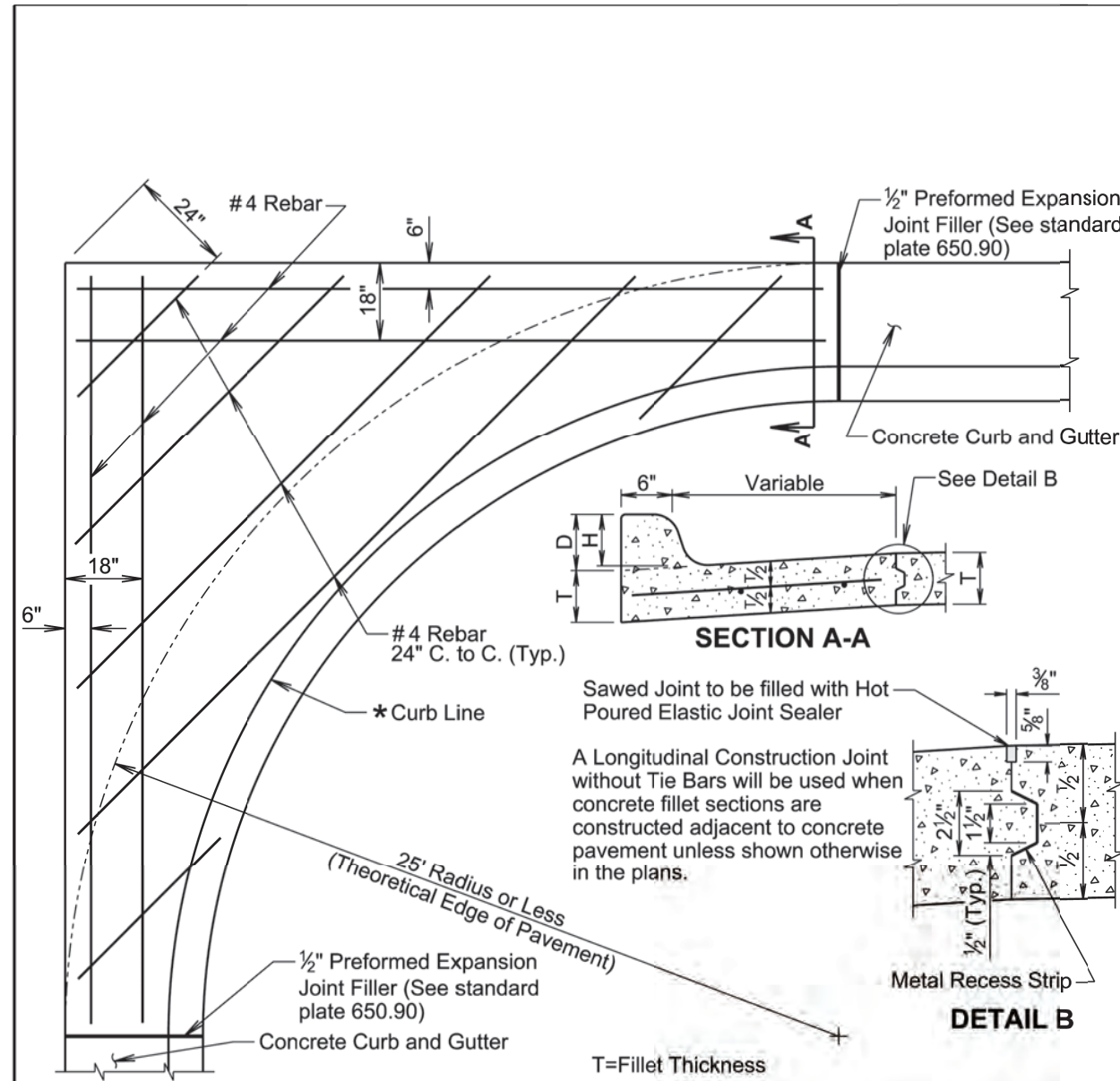
- * The vertical placement tolerance for any part of the tie bar will be $\pm T/6$.
- ** The transverse placement (side shift) tolerance will be ± 3 inches when measured perpendicular to the longitudinal joint line.

November 19, 2022

S D D O T	PCC PAVEMENT LONGITUDINAL JOINTS WITH TIE BARS	PLATE NUMBER 380.20
		Sheet 2 of 2

Published Date: 2025

NOTE: KEYWAY SHALL NOT BE USED.



* If a curb ramp is constructed adjacent to a PCC fillet section, the curb will need to be modified. Refer to the corresponding curb ramp standard plate or other special details in the plans for modification of the PCC fillet section.

March 31, 2024

Published Date: 2025	S D D O T	PCC FILLET SECTION WITH TYPE B CURB AND GUTTER	PLATE NUMBER 380.30
			Sheet 1 of 2

GENERAL NOTES:

For fillets with irregular shapes or bump outs:

- 1) The 6" and 18" offset #4 rebar will be included on any side next to pavement or driveways (not along the Curb and Gutter).
- 2) All remaining area will have #4 rebar spaced 24" center to center in a square pattern.

Dimensions D, H, and T will conform to those shown on the appropriate curb and gutter standard plate.

All rebar will be in conformance with Sections 480 and 1010 of the Specifications. All rebar will have a minimum of 3 inches of clear cover.

Class M6 Concrete will be used in construction of the fillets.

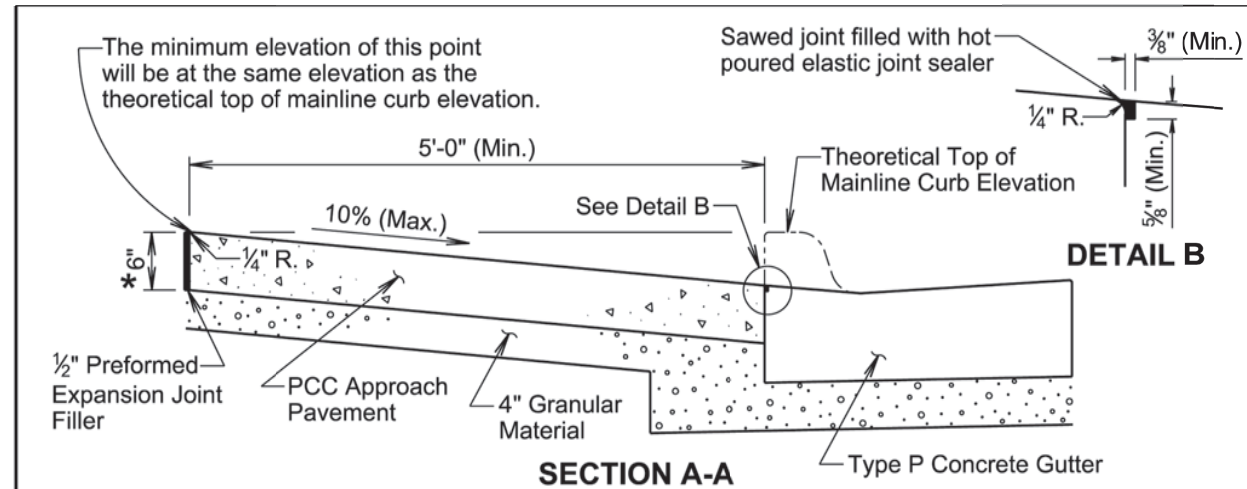
The concrete curb will be monolithic with the concrete fillet. No separate payment for this curb will be made as the curb is considered a part of the fillet.

Joints will be constructed at 10-foot intervals except when fillets are constructed adjacent to PCC Pavement. If there is adjacent PCC Pavement the joints will be extended from edge of pavement through the fillet section as directed by the Engineer.

The cost for all materials, labor, and incidentals necessary to construct the PCC fillet section with curb and gutter will be incidental to the contract unit price per square yard for the corresponding PCC fillet section contract item.

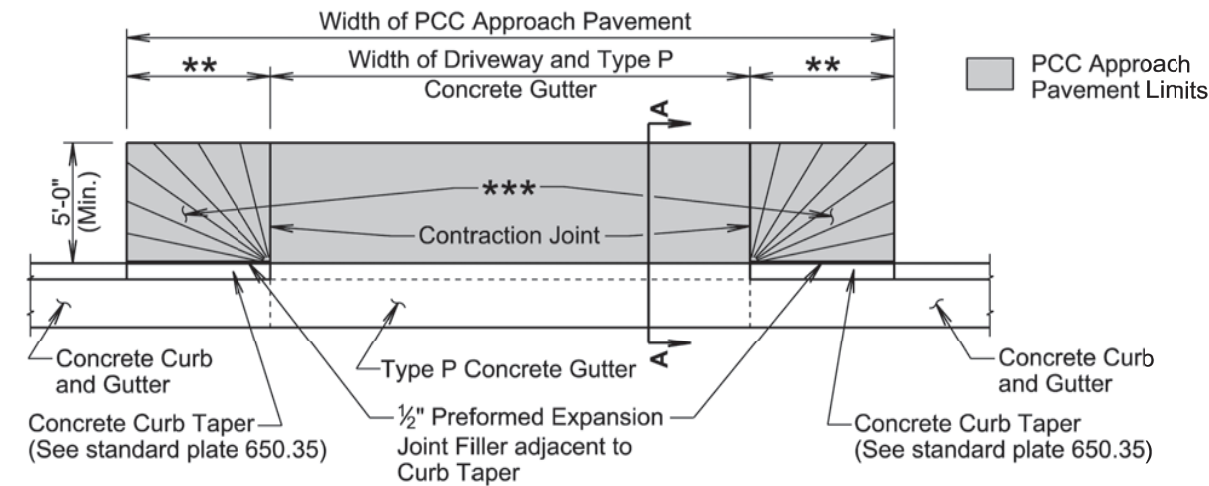
March 31, 2024

Published Date: 2025	S D D O T	PCC FILLET SECTION WITH TYPE B CURB AND GUTTER	PLATE NUMBER 380.30
			Sheet 2 of 2



SECTION A-A

* 8" at Commercial Approaches
 ** Width for 6" high curb is 6' (See standard plate 650.35)
 *** Within these areas, the surface of the type A PCC approach pavement will be sloped transitionally as approved by the Engineer.



PLAN VIEW

GENERAL NOTES:

The concrete for the type A PCC approach pavement and adjacent driveway will comply with the requirements of the Specifications for class M6 concrete unless otherwise stated in the plans.

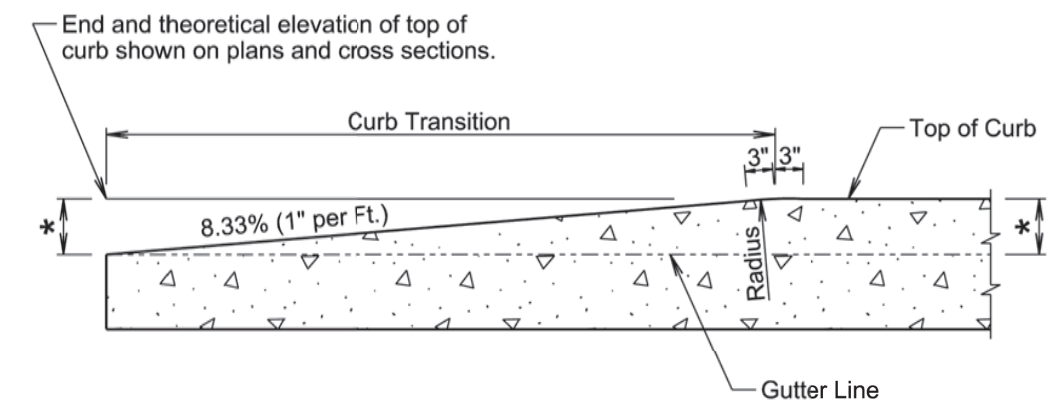
Contraction joints in the type A PCC approach pavement will be 1½ inches deep if formed in the fresh concrete using a suitable grooving tool. If a saw is used to cut the contraction joints, then the depth of the joint will be at least ¼ the thickness of the approach pavement. Additional contraction joints not shown in the Plan View will be spaced as follows:

One joint at the center of the approach for driveways 16 feet to 24 feet wide.
 Two joints spaced at equal intervals for driveways greater than 24 feet to 40 feet wide.

All costs for furnishing and placing the type A PCC approach pavement and constructing the expansion and contraction joints including labor, equipment, excavation, and materials including the earthen backfill and granular material, will be incidental to the contract unit price per square yard for the corresponding PCC Approach Pavement contract item.

June 26, 2019

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* Height of Curb

LONGITUDINAL SECTION
(Concrete Curb Taper)

December 23, 2019

Published Date: 2025	S D D O T	CONCRETE CURB TAPER	PLATE NUMBER 650.35
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