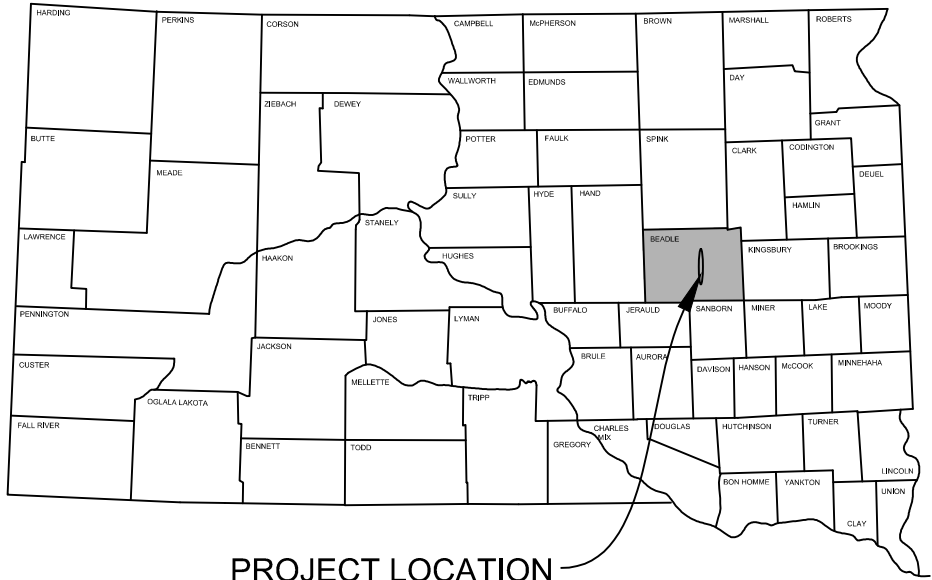




PROJECT LOCATION

CITY OF HURON

FOR BIDDING PURPOSES ONLY

PLANS FOR PROPOSED
DAKOTA AVENUE IMPROVEMENTS
9TH STREET S TO 21ST STREET S
SD HIGHWAY 37
BEADLE COUNTY

WATER MAIN, SANITARY SEWER, AND STORM SEWER

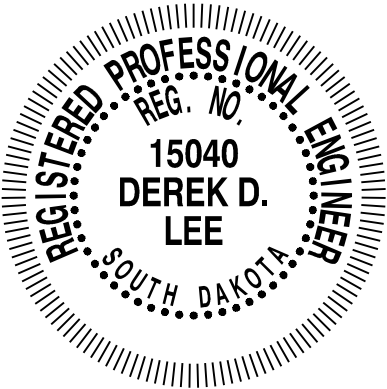
PCN X06T
CIP 2026-02

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	1	85

FILE: 674074_TITLE
PLOTING DATE: 4/23/2026
REVISED:

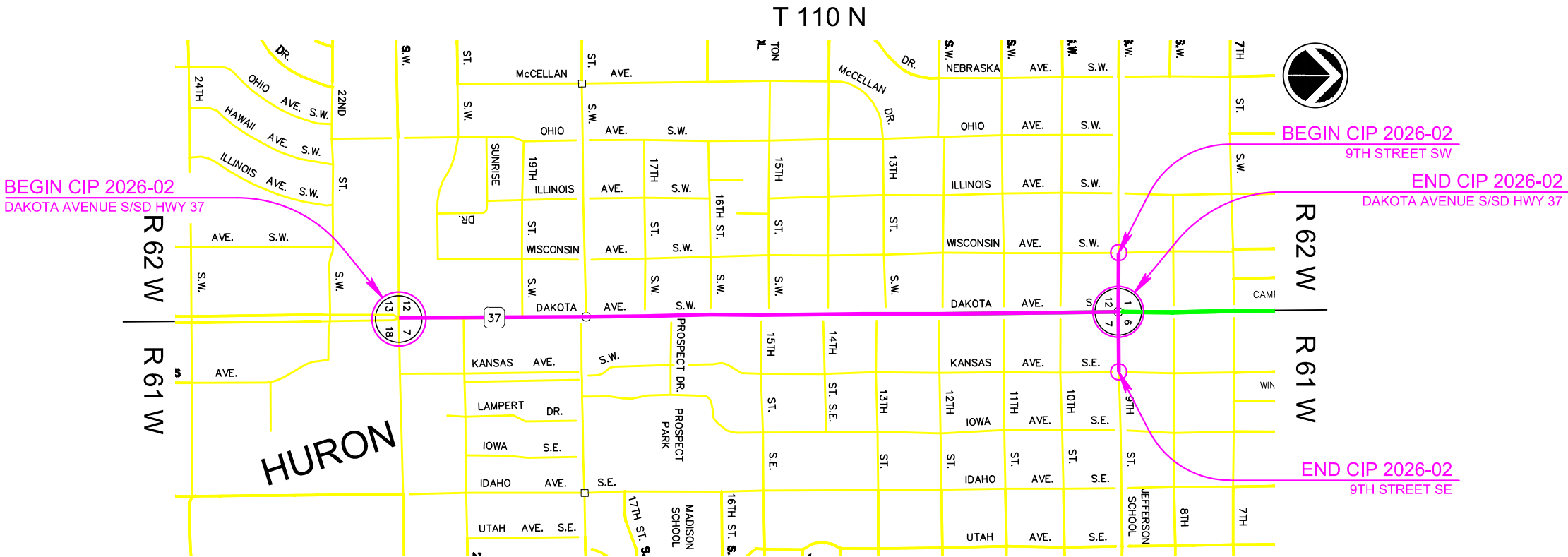
INDEX OF SHEETS

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I, Derek D. Lee, hereby certify that these plans were prepared by me, or under my direct supervision and that I am a duly registered professional engineer under the laws of the State of South Dakota.

Derek D. Lee 4/24/2026
Derek D. Lee S.D. No. 15040 Date



T 110 N
LOCATION MAP

DRAWING INDICATES GENERAL UTILITY LOCATIONS ONLY.
NEITHER THE CORRECTNESS OR COMPLETENESS OF
LOCATIONS ARE GUARANTEED. CONTACT SOUTH
DAKOTA ONE CALL PRIOR TO EXCAVATIONS.
(1-800-781-7474)
INFORMATION ON SECTION-TOWNSHIP-RANGE SHOWN ON
LOCATION MAP ON THIS SHEET.



Plans By:



DGR ENGINEERING
1300 S HIGHLINE AVENUE
SIOUX FALLS, SD 57110
(605) 339-4157 office
(605) 339-4175 fax
www.dgr.com

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4300	Construction Schedule, Category III	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	210	Ft
110E0460	Remove Manhole	17	Each
110E0520	Remove Sewer Pipe	2,394	Ft
110E0530	Remove Storm Sewer Pipe	860	Ft
110E1130	Remove Concrete Driveway Pavement	17.0	SqYd
110E1140	Remove Concrete Sidewalk	4.0	SqYd
110E1970	Remove Water Main	831	Ft
110E5740	Salvage Fire Hydrant	7	Each
250E0020	Incidental Work, Grading	Lump Sum	LS
260E1010	Base Course	850.0	Ton
380E3520	6" PCC Approach Pavement	17.0	SqYd
450E0203	48" RCP Class 3, Furnish	788	Ft
450E0210	48" RCP, Install	788	Ft
450E3053	48" RCP Arch Class 3, Furnish	58	Ft
450E3060	48" RCP Arch, Install	58	Ft
451E0606	6" PVC Water Main	102	Ft
451E0608	8" PVC Water Main	125	Ft
451E0610	10" PVC Water Main	63	Ft
451E0612	12" PVC Water Main	184	Ft
451E1008	8" PVC Sewer Pipe	147	Ft
451E1010	10" PVC Sewer Pipe	7	Ft
451E1012	12" PVC Sewer Pipe	5,305	Ft
451E1024	24" PVC Sewer Pipe	271	Ft
451E1204	4" Sewer Service	4,374	Ft
451E1206	6" Sewer Service	187	Ft
451E1275	1" Water Service	572	Each
451E1277	1.5" Water Service	78	Each
451E1278	2" Water Service	176	Each
451E2030	12"x4" Pipe Wye	120	Each
451E2031	12"x6" Pipe Wye	4	Each
451E2213	8"x6" Pipe Tee	2	Each
451E2221	10"x6" Pipe Tee	2	Each
451E2231	12"x6" Pipe Tee	4	Each
451E2232	12"x8" Pipe Tee	1	Each
451E2422	10"x8" Pipe Reducer	1	Each
451E2902	1" Curb Stop with Box	8	Each
451E2906	1.5" Curb Stop with Box	1	Each
451E2908	2" Curb Stop with Box	3	Each
451E3008	8" Pipe Bend	4	Each
451E3010	10" Pipe Bend	4	Each
451E3012	12" Pipe Bend	12	Each

ESTIMATE OF QUANTITIES

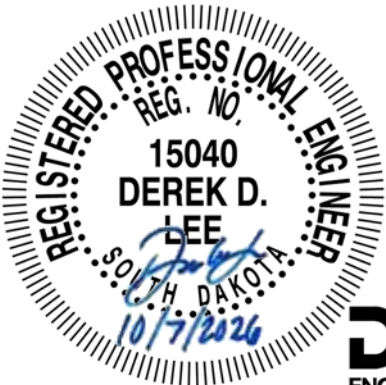
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
451E3208	8" Pipe Coupling	4	Each
451E3210	10" Pipe Coupling	1	Each
451E3212	12" Pipe Coupling	3	Each
451E3224	24" Pipe Coupling	8	Each
451E3308	8" Pipe Transition Coupling	6	Each
451E3310	10" Pipe Transition Coupling	3	Each
451E3606	6" Pipe Sleeve	2	Each
451E3608	8" Pipe Sleeve	3	Each
451E3610	10" Pipe Sleeve	1	Each
451E3612	12" Pipe Sleeve	6	Each
451E4206	6" Gate Valve with Box	9	Each
451E4208	8" Gate Valve with Box	4	Each
451E4210	10" Gate Valve with Box	1	Each
451E4212	12" Gate Valve with Box	3	Each
451E4360	Valve Box Extension	32	Each
451E4400	Pipe Insulation	1,376	SqFt
451E4506	6" Fire Hydrant Extension	1	Each
451E4580	Standard Fire Hydrant	7	Each
451E4905	Trench Stabilization Material	400.0	Ton
451E4945	8" Sewer Pipe Bedding Material	147	Ft
451E4946	10" Sewer Pipe Bedding Material	7	Ft
451E4947	12" Sewer Pipe Bedding Material	5,305	Ft
451E4951	24" Sewer Pipe Bedding Material	271	Ft
451E5051	Trench 6' to 8' Deep	136	Ft
451E5052	Trench 8' to 10' Deep	730	Ft
451E5053	Trench 10' to 12' Deep	2,142	Ft
451E5054	Trench 12' to 14' Deep	1,557	Ft
451E5055	Trench 14' to 16' Deep	1,165	Ft
451E6050	Temporary Water Service	6	Each
451E6075	Adjust Curb Stop Box	40	Each
451E6080	Adjust Water Valve Box	11	Each
451E6100	Reconnect Water Service	12	Each
451E6105	Connect To Existing Water Main	8	Each
451E6106	Cut and Tie to Existing Water Main	26	Each
451E7010	Reconnect Sewer Service	125	Each
451E7016	Connect to Existing Sewer Main	11	Each
451E7020	Sewer Bypass Pumping	Lump Sum	LS
451E7052	Temporary Sanitary Sewer Main Connection	2	Each
451E7500	Locate Utilities	2	Each
451E7510	Verify Utilities	7	Each
451E8000	PVC Pipe Deflection Test	5,730.0	Ft
462E0100	Class M6 Concrete	19.7	CuYd
480E0100	Reinforcing Steel	3,364	Lb

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	2	85
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ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
650E0060	Type B66 Concrete Curb and Gutter	170	Ft
650E4660	Type P6 Concrete Gutter	40	Ft
651E0060	6" Concrete Sidewalk	40	SqFt
651E7000	Type 1 Detectable Warnings	8	SqFt
671E1248	48" PVC Lined Manhole	14	Each
671E1260	60" PVC Lined Manhole	3	Each
671E2006	6" Manhole Boot	1	Each
671E2008	8" Manhole Boot	4	Each
671E2010	10" Manhole Boot	1	Each
671E2012	12" Manhole Boot	28	Each
671E2024	24" Manhole Boot	6	Each
671E4200	Manhole Drop Section	2	Each
671E4548	48" Manhole Cone Section	8.0	Ft
671E6000	Temporary Manhole Cover	17	Each
671E6035	Special Manhole Frame and Lid	20	Each
671E9000	Manhole Exfiltration/Vacuum Test	17	Each
734E0010	Erosion Control	Lump Sum	LS
734E5005	Dewatering	Lump Sum	LS
735E2220	2" Caliper Deciduous Tree, Furnish and Plant	60	Each



PROJECT SCOPE

The notes refer to sanitary sewer installation on SD Hwy 37/Dakota Avenue S from 9th Street S to 21st Street S, water main adjustments along the SD Hwy 37/Dakota Avenue S corridor, and storm sewer on 9th Street S from Wisconsin Avenue SW to Kansas Avenue SE as shown on the following sheets. For grading, surfacing, traffic control and project phasing, erosion control, signing, or other utility improvements, see the SDDOT plan sections for Project NH-CR 0037(156)125 PCN 06JA. This project consists of City of Huron sanitary sewer, water main, and storm sewer to be constructed in coordination with the SDDOT project.

SPECIFICATIONS TO BE USED

The most current edition of the City of Huron General Conditions, City of Huron Standard Specifications, "South Dakota Department of Transportation Standard Specifications for Roads and Bridges", and including revisions and supplements to date, if any, are all included with the Contract Documents by reference. Workmanship and materials shall conform to these SDDOT Specifications.

In the event of a conflict between Specifications, the following precedence will govern:

- (1) Notes on the plans;
- (2) Technical Specifications in the Special Provisions;
- (3) City of Huron General Conditions; and
- (4) SDDOT Standard Specifications.

The City of Huron General Conditions and Standard Specifications can be downloaded from the City of Huron website at <https://huronsd.gov/161/Engineering-Traffic>.

The South Dakota Department of Transportation Standard Specifications for Roads and Bridges with Supplemental Specifications and Errata can be downloaded from the SDDOT's website at <https://dot.sd.gov/>.

The SDDOT bid items are utilized in the estimate of quantities.

CONSTRUCTION LIMITS

The construction limits will be within the right-of-way and easement areas. Material storage and vehicle and equipment traffic will be limited to the construction limits. All paved streets adjacent to the project are to be cleaned at the end of each working day. All costs for cleaning the adjacent streets will be incidental to the contract unit price for "Incidental Work, Grading".

It will be the responsibility of the Contractor to coordinate with the property owners relating to access to their property and any subsequent damages.

CONSTRUCTION STAKES AND BENCHMARKS

All staking required for sanitary sewer, storm sewer, and water main will be completed by others and will not be part of this contract.

Reference points, lines, grade stakes, and benchmarks set by the Engineer in connection with the work will be carefully preserved by the Contractor and will not be disturbed or moved from the exact position and elevation as set by the Engineer. No excavated material will be placed over or against said stakes and, except where necessary to remove the stakes as the work progresses, stakes must be carefully preserved in the original position and elevation until the work has been accepted. Stakes which must be removed as the work progresses will be removed only upon concurrence by the Engineer.

Staking required to complete the work will be completed by the Engineer unless otherwise noted. Staking will be completed one time for each work item. Stakes disturbed or removed through the carelessness of the Contractor will be restaked by the Engineer and may result in a price adjustment to the contract.

SUBMITTALS

The following documents will be submitted by the Contractor. Documentation requirements elsewhere in the contract are not waived if not listed in the following table.

Submittals	Date Submitted
Water Main, Storm Sewer, and Sanitary Sewer Shop drawings	
Construction schedule	
South Dakota State sewer and water plumbing contractor's license	
Discharge chlorinated water plan	
Sanitary sewer temporary bypass plan	
Dewatering plan for groundwater	
Water Main Sequencing Plan	
Temporary water main layout (if needed)	

CONSTRUCTION SCHEDULE

The Contractor will prepare a construction schedule for approval by the Engineer that will ensure the completion of the project within the time frame specified and that fits in coordination with the proposed work on SDDOT Project NH-CR 0037(156)125 PCN 06JA. This schedule must be provided to the Engineer for review in coordination with the SDDOT project schedule and requirements. When applicable the schedule must include submission dates for shop drawings, manufacturing and installation of materials, supplies, equipment, and testing for various parts of the work.

The construction schedule must be updated as the schedule for the proposed SDDOT project is updated. If it appears the rate of progress is such that the contract will not be completed within the time frame allowed the Contractor will be required to provide written documentation as to what measures, they will take to complete the project within the specified time frame or to prosecute work in a satisfactory manner. Failure to submit the schedule will result in the City withholding the pay applications until the updated schedule is submitted.

CONTRACTOR SAFETY REQUIREMENTS

The Contractor is responsible for following all local, state, and federal rules and regulations regarding site safety. The Contractor is solely responsible for site safety from the issuance of the Notice to Proceed until Final Acceptance. The City will not be responsible for the Contractor's failure to follow all applicable rules and regulations.

PORTABLE TOILET FACILITIES

The Contractor will be responsible for providing portable toilet facilities for the project at no cost to the City. All costs for portable toilet facilities will be incidental to the project.

ACCEPTANCE TESTING

The City will be responsible for taking the first acceptance test and a backup test if required. All subsequent tests required, due to failures, will be paid by the Contractor by deducting the cost from the pay request unless otherwise specified.

The City reserves the right to require work or material that does not meet specifications, whether subject to acceptance testing or not, to be removed and replaced. The City also reserves the right to assess a price deduction in lieu of removal and replacement at the City's sole discretion. The method of assessing a price deduction for work not meeting specifications will be at the sole discretion of the City.

The Engineer and/or their representatives will always have access to all parts of the job. The Contractor must furnish them with such facilities and materials as are necessary for them to make whatever tests and inspections that the Engineer deems necessary.

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
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REVISED: 10/07/2026 DDL

UTILITIES

All utilities will be verified by the Contractor prior to starting work. Any time existing utilities impede the progress of work, the Contractor will immediately notify the Engineer.

All utilities, whether privately or publicly owned, will be moved, relocated, and/or replaced as necessary, by the respective utility company or companies except as noted in the plans. These modifications will take place in advance of construction when applicable or when advised by the Engineer. No payment will be made to the Contractor unless specified in the contract documents.

The Contractor will safeguard all utilities and coordinate his efforts to coincide with utility work by others in order to minimize inconvenience to the public and utility companies. When pipe utility installation crosses existing utilities, the Contractor will be responsible for supporting the utilities in a manner that is acceptable to the owner of the utility. Any damage caused to the utilities due to Contractor carelessness will be repaired at the Contractor's expense to the satisfaction of the utility owner.

Abandoned utilities (gas lines, telephone lines, etc.) encountered during construction will be removed and disposed of by the Contractor. Costs associated with this work will be incidental to the various bid items associated with work adjacent to the abandoned utility.

The Contractor will be responsible for the coordination of all work associated with the disturbance, removal, or replacement of unidentified metallic natural gas mains or services when encountered. The Contractor will, in advance and prior to proceeding with the work, coordinate with the City of Huron and all companies related to the associated work.

Existing utility locations shown on drawings are approximate. There is no guarantee that the utilities shown include all such utilities or that the locations indicated are exact. The Contractor will contact South Dakota One Call system, utility companies, and the City of Huron to verify locations of all existing utilities prior to excavation.

The Contractor will be responsible for notifying South Dakota One Call 1-800-781-7474 to have utilities field located.

See the SDDOT project for the list of utility companies and any planned utility adjustments.

Northwestern Energy has 2" steel gas main crossings at the alleys on 9th Street S between Wisconsin Avenue SW and Kansas Avenue SE and a 4" steel low-pressure gas main crossing Dakota Avenue near 14th Street. Contractor to coordinate with Northwestern Energy prior to the sanitary sewer and storm sewer installation for potential isolation of the gas lines and/or coordination for supporting the existing gas mains during the construction.

DRAINAGE

Drainage is the Contractor's responsibility. Contractor will be aware of existing drainage conditions and facilities and must provide for drainage during all phases of construction. Damage caused by improper temporary drainage facilities will be repaired at the Contractor's expense and to the satisfaction of the Engineer.

CONTRACTOR COORDINATION

The Contractor will coordinate work with potential construction work by others in the vicinity of the project area and/or private utility service (water and sanitary sewer) installation by adjacent landowners. Costs associated with the coordination will be incidental to the project.



CONTRACTOR INSTALLED UTILITIES

The Contractor will be responsible for locating City utilities installed with the project until final acceptance is granted. All costs associated with locating City utilities installed with the project until final acceptance will be incidental to the project.

PROTECTION OF EXISTING WATER MAIN, SANITARY SEWER, AND STORM SEWER SYSTEMS

For the protection of existing public underground utilities and the surrounding work area, consideration will be given to isolating portions of the existing water distribution system within the construction limits while maintaining fire protection. During underground utility installation such as, but not limited to, sanitary sewer, water main, storm sewer, sump pump drain, etc., in the proximity of existing water main and/or water services, the existing water main distribution will be isolated within the work area. Upon receiving notice from the Contractor 24 hours in advance of any work, City staff will operate designated water valves, where appropriate, to isolate the work area as much as reasonably possible. The Contractor must become aware of the location and status (open/closed) of any designated isolation valve(s). City of Huron Water Maintenance staff must be notified immediately in the event of a water service emergency or interruption. It will be permissible for the Contractor to operate the designated valve(s) in the event of a water main or water service failure within the construction area. The Contractor is required to have a valve operating key on site in the event of such a failure. City of Huron Water Maintenance must be notified immediately after the shutdown. City crews will operate the valves after repairs have been made and inspections have been completed.

Existing sanitary sewer lines and manholes within the construction limits must be protected at all times during construction. The upstream ends of existing sanitary sewer lines downstream from new sanitary sewer construction must be plugged at locations to be approved by the Engineer. Water, stone, dirt, gravel, asphalt, concrete or any other debris shall not be allowed to enter the City's sanitary sewer system during flushing operations or at any other time. Construction taking place in the vicinity of any existing City sanitary sewer lines or manholes must not cause any inflow of surface water, ground water, water from damaged water lines, or debris to enter the City's sanitary sewer system. The Contractor will be responsible for any damages or costs incurred to the City's sanitary sewer system, and/or private property, and any actions imposed by SDDANR due to spills, overflows, inflows, lift station surcharges, City Water discharge, sanitary sewer discharges to surface waters, sanitary sewer backups into homes, etc.

Existing storm sewer inlets and pipes within the construction limits will be protected from the entrance of stone, dirt, gravel, asphalt, concrete or any other debris during construction. The SWPPP must be followed at all times.

LOCATE UTILITIES

This work consists of excavating material to locate a utility line, (Private or Public), when the utility owner cannot find said line, or utility line is not within four (4) feet either side of markings established by the utility owner. Payment for this item will be at the contract unit price per each. 2 field determined locates are estimated for this project.

VERIFY UTILITIES

This work consists of excavating material to verify the depth of an existing utility line, (Private or Public), to avoid possible conflicts, when directed by the Engineer. Payment for this item will be at the contract unit price per each. 7 verifications are estimated for this project.

The Contractor will verify the depths/types of the following utilities:

- Sta. 158+99.45-0.00 – Depth of existing 8" PVC water main at proposed storm sewer crossing.
- Sta. 22+19.31-34.69' LT – Depth of existing water main at proposed storm sewer crossing.
- Sta. 35+77.79-50.55' LT – Elevation of existing 12" sanitary sewer at proposed connection to existing location.
- Sta.52+87.74-43.69' RT – Verify existing 10" HDPE water main connection at existing tee.
- Sta. 52+87.80-35.50' RT – Depth of existing 10" HDPE water main at proposed storm sewer crossing.
- Sta. 66+02.60-46.84' RT – Verify existing 8" HDPE water main connection at existing tee.
- Sta. 105+50.00' LT (9th Street) – Verify existing 12" PVC water main depth at proposed storm sewer crossing.

After verification, the Contractor will coordinate information with the Engineer and/or City of Huron.

ADJUSTMENT OF MANHOLE CASTINGS AND VALVE BOXES

The Contractor will adjust manholes and valve boxes to the extent necessary on this project. Under these items of work, the sanitary sewer manholes and castings, and water main valve boxes are to be adjusted in accordance with the applicable standard plate. Adjusting the manholes may consist of removing and/or placing adjusting rings, if necessary, and resetting the existing manhole frame and lid. The elevation of the lid of the manhole and/or valve boxes will be set at the proposed elevation of the adjacent new pavement or surrounding ground. All manholes and valve boxes will be adjusted to the satisfaction of the Engineer and City. Adjustment for manhole castings and valve boxes installed new on the project will be incidental to the contract unit price per each manhole and gate valve bid item. Adjustment of existing valve boxes will be paid at the contract unit price per each for "Adjust Water Valve Box".

All existing frames, lids, adjusting rings, and/or valve box tops and sections that are cracked or broken through the carelessness of the Contractor's forces will be replaced with new frames, lids, and/or adjusting rings that conform to the Specifications at the Contractor's expense.

WASTE DISPOSAL SITE

All material generated from this project for disposal must be disposed of at a state-permitted solid waste disposal site. Depending on what material is generated and whether it is contaminated or uncontaminated will determine which permitted facility can accept it. Permitted facilities include construction and demolition debris sites, restricted use sites, and regional landfills.

All costs associated with disposing of waste will be incidental to the various contract items.

FOR BIDDING PURPOSES ONLY

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REVISED:

DEWATERING

It is anticipated that groundwater may be encountered during excavation. Dewatering may be needed to perform the contract work. Dewatering will be paid for under the contract lump sum price for "Dewatering" and will be full compensation for all permits, materials, equipment, and labor needed to perform the work.

It will be the responsibility of the Contractor to discharge and dispose of the water in an approved manner. No water will be allowed to enter the sanitary sewer. The Contractor will dispose of water in a suitable manner without damage to adjacent property. The water must be filtered using an approved method to remove sand and fine-sized soil particles before disposal into any drainage system. Discharge from dewatering operations will be controlled to prevent erosion and scour.

The Contractor is responsible for obtaining a Temporary Water Use Permit from the SD DANR prior to commencing dewatering operations. Prior to excavating, the Contractor will submit for review a dewatering plan to be approved by the Engineer.

INCIDENTAL WORK, GRADING

The following items of work will be included in the contract lump sum price for the bid item "Incidental Work, Grading",

- Material and labor costs for plugging ends of utilities that are abandoned in place with concrete, grout, caps, or other Engineer approved methods.
- Additional work required for supporting and working around existing utilities (both public and private) when installing the proposed utilities.
- Street sweeping and cleaning of paved streets, sidewalks, and driveways adjacent to the project and within the project area during construction and prior to final completion of work. Sweeping will be performed as needed to remove tracked mud from the roadway and sediment/debris from paved areas. Daily sweeping may be necessary if project conditions warrant.
- Removal of existing water main valves and valve boxes.

REMOVALS

REMOVAL OF EXISTING PAVEMENT AND SAWCUTTING

The City of Huron will mill the asphalt street to a width of twelve feet (12') for the storm sewer installation on 9th Street. The City will leave the asphalt millings in place. The Contractor will remove, salvage and/or dispose of the asphalt millings and existing base course at the time of the storm sewer installation. Contractor will have the option to use the salvaged base course and millings for base material. No additional payment for handling the milled material and existing base course and will be incidental to the storm sewer contract items.

The Contractor will saw a neat, vertical, full depth, straight edge to the existing pavement surfacing prior to placing new paving adjoining existing paving. All saw cutting is incidental to the respective removal bid item.

The Contractor will exercise particular care to ensure that the adjacent surface is left intact and undamaged when removing the sawed-out portion. Additional sawing required to form neat edges prior to paving will be incidental to the respective removal bid item.

The removed concrete will be disposed of by the Contractor.

Payment for the sawing, removal, and disposal of the existing curb and gutter, sidewalk, and driveway approaches will be included at the contract unit price for each respective surfacing removal contract item.



SANITARY SEWER

SANITARY SEWER - GENERAL

1. Sanitary sewer work on the project consists of installation of sanitary sewer main, sanitary manholes, and sanitary sewer services along with the adjustment of manhole castings to final grade in coordination with the proposed SDDOT project work along SD Hwy 37/Dakota Avenue from 9th Street S to 21 Street S.
2. All sanitary sewer gravity pipe and fittings will be PVC ASTM D-3034, Type PSM, SDR 35 minimum, unless noted otherwise. All sanitary sewer installation will conform to the City of Huron Standard Specifications.
3. Contractors License. The Contractor will obtain a “South Dakota State Sewer and Water Plumbing Contractor’s License” prior to commencing construction.
4. The Contractor will notify the City Engineer’s office upon completion of the sanitary sewer work. An inspection of the sanitary sewer will be made by the City Engineer’s office with the Contractor and all discrepancies will be noted. If deficiencies are identified prior to paving, they will be corrected prior to paving. Final payment will not be made until all discrepancies have been corrected and the sanitary sewer work has been given final acceptance. The expense of the initial television inspection will be borne entirely by the City. The expense for any additional television inspections beyond the initial inspection will be borne entirely by the Contractor.
5. Standard bedding material for sanitary sewer pipe will be paid for by the lineal foot for the designated pipe size installed. Bedding material for sanitary services will be considered incidental to the bid item.

SANITARY SEWER MANHOLES

All sanitary sewer manholes will be lined per the City of Huron Standard Specifications for Sanitary Sewer Construction. All costs including the materials, equipment, labor, and all other necessary work for welding the manhole liners will be included in the contract unit price for the respective size of sanitary sewer manhole bid item.

The bench and invert of all lined manholes shall be covered with an epoxy coating. The coating shall be Novocoat SC1100 two-part epoxy penetrating concrete primer with Novocoat SP2000W two-part epoxy topcoat by Ergon Armor or approved equal. All costs including the materials, equipment, labor and all other necessary work for coating the bench and invert will be included in the contract unit price per each for the respective size of sanitary sewer manhole bid item.

The manhole frame and cover type will be Neenah R-1713 as stated in the details and City of Huron Standard Specifications for all new manholes installed.

MANHOLE EXTERNAL JOINT SEALS

Manhole external joints seals, meeting the requirements of ASTM C877 Type III, will be used on all manhole joints unless otherwise specified. Manhole external joint seals will be Infi-Shield Gator Wrap as manufactured by Sealing Systems Inc., WrapidSeal as manufactured by CANUSA-CPS, or an approved equal. The external joint seal materials must be compatible with City of Huron Standard 48-inch diameter RCP manholes and must be a minimum of 9 inches wide.

Manhole external joint seals will be considered incidental per manhole regardless of depth or number of joints.

MANHOLE EXTERNAL FRAME SEALS

Manhole external frame seals will be used on all new manholes and extend onto the casting and the cone section a minimum of 2-inches. Manhole external frame seals will be considered incidental per manhole.

TEMPORARY MANHOLE COVER

Temporary manhole covers will be one of the two types shown in the standard details and will be constructed in accordance with the details.

Temporary manhole covers will be installed on existing manholes immediately after construction surfacing removals have been completed and on new manholes immediately after installation. The Contractor will ensure that all manholes are secured, protected, and watertight at the end of each workday. Under no circumstances will an uncompleted or completed manhole be left uncovered, unprotected, or not watertight overnight.

Temporary manhole covers will be measured by each unit furnished and installed. Payment for manhole construction plate markers will be full compensation for furnishing, installing, and removing each manhole construction plate marker and all appurtenances necessary for the proper installation of the manhole construction plate marker. Temporary Manhole covers will be paid at the contract unit price per each for “Temporary Manhole Cover”.

SANITARY SEWER TEMPORARY BYPASS

Where existing flow cannot be maintained, interruption of service shall be minimized such that no discharge of sanitary sewage to any natural waterway, storm sewer, open trench, ground surface, streets or gutters occurs nor shall such interruption create a public health hazard from sewage backups or overflows. Bypass operations must be approved by the City before starting. Contractor shall provide a detailed written plan, including a drawing of how the bypass operation will be performed, for approval, before or at the preconstruction meeting and at least two weeks prior to the operation. Sewage bypassing shall comply with the requirements of subsections 3.3.8 and 4.34 of the City of Huron Supplemental Standard Specifications for Sanitary Sewer Construction.

The bypass system shall be of sufficient capacity to handle peak flow of the pipe. Contractor shall provide the necessary labor and supervision to set up and operate the bypassing system. If the peak flow is not directly called out in the bypass pumping plan sheets, the depth of flow in the pipe shall be measured in the field by the Contractor and correlated to a peak capacity using the table below.

Bypass Pumping System (Based on Minimum Pipe Slope)							
Pipe Flow with Peaking Factor (gpm)							
Depth of Flow (in)	Pipe Diameter (Inches)						
	8	10	12	15	18	21	24
1	40	40	40	40	40	40	40
2	150	150	160	150	160	160	150
3	260	290	310	320	330	340	340
4	350	430	480	520	550	580	580
5		530	640	720	800	860	870
6			750	910	1050	1150	1180
7				1070	1280	1440	1510
8					1480	1720	1840
9						1970	2150
10							2440
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Table Notes:

- The table above provides the estimated peak flow based on the depth of flow assuming the pipe has been placed at the minimum recommended slope per the Engineering design standards. Engineer to adjust flow assumptions accordingly based on slope.
- The Contractor shall provide a bypass pumping system capable of conveying the peak flow indicated in the table above.
- Bypass pumping system shall meet the requirements provided in the Engineering Design Standards.
- Plugging the sanitary sewer (rather than bypassing) must be approved by the Engineer prior to proceeding.
- The use of flow through plugs (rather than bypassing) must be approved by the Engineer prior to proceeding.
- Field Engineer shall document estimated peak flow, selected bypass pumping system (bypass pumps, plugs, or flow through plugs), selected pumps when applicable, and the capacity of selected pump at the time of construction.
- Engineer to verify the existence and approximate flow from upstream Pumping Stations with the City.
- Pipes with flows that fall into the grey areas should not normally operate in this range. City approval is required before proceeding.
- Engineer approval is required for overnight pumping operations. Additional requirements and restrictions may be required to minimize the risk of sanitary sewer overflows, back-ups and service interruption.

Contractor shall get approval of the Engineer and City, and provide notice to all nearby residences at least 24 hours in advance of any pumping that is required between the hours of 10:00 PM and 6:00 AM. Pumping equipment shall be manned continuously. During bypass pumping operations, the Contractor shall provide the necessary labor to continually monitor the operation and ensure uninterrupted and sufficient pumping at all times.

Bypass pumping equipment shall include pumps, conduits, engines, and related equipment necessary to divert the flow of sewage around the section in which the work is to be performed. In addition, the Contractor shall maintain at the same location and in operable condition, duplicate equipment to be used in case there is equipment failure.

In this event, the Contractor shall promptly repair or replace the failed equipment to the satisfaction of the Engineer.

The new sewer line may be used by the Contractor to carry the sanitary flows after the new pipe has passed inspection and testing. Any “temporary” connections to the new sewer are subject to City approval.

The planned SDDOT project phasing will require temporary connections to the existing sanitary sewer main in situations where temporary bypass pumping may not be feasible to maintain traffic. Contractor to refer to the “Sanitary Sewer Installation Special Conditions” and “Temporary Sanitary Sewer Main Connection” notes on the following pages.



SANITARY SEWER INSTALLATION SPECIAL CONDITIONS

The Contractor will review the traffic control/project phasing shown in the SDDOT project plans for Project NH-CR 0037(156)125 PCN 06JA.

9th Street to 15th Street Special Conditions

- The Contractor will sequence the sanitary sewer main work to complete the connections for the 12" PVC sanitary sewer main and 24" PVC sanitary sewer main at the SD Hwy 37/Dakota Avenue and 15th Street intersection as noted in the traffic control/project phasing plan.
- The proposed sanitary sewer flow direction between 12th Street and 13th Street will not be in the same direction as the existing sanitary sewer flow. The Contractor shall sequence the sanitary sewer work without requiring a temporary connection to the new sanitary sewer main and/or new manholes at this location, which will not be allowed without prior approval.

15th Street to 21st Street Special Conditions

- The Contractor will complete the sanitary sewer main work at the 15th Street intersection as noted in the traffic control/project phasing plan.
- Due to the project phasing, the Contractor will maintain sanitary sewer flow in the existing sanitary sewer main located on the east half of SD Hwy 37/Dakota Avenue while installing the new sanitary sewer main on the west half of SD Hwy 37/Dakota Avenue. A temporary connection to the newly installed 24" PVC sanitary sewer main at SD Hwy 37/Dakota Avenue and 15th Street will be required. Contractor will verify the appropriate temporary connection type to maintain sanitary sewer flows. Refer to "Temporary Sanitary Sewer Main Connection" note for additional information.
- Sanitary sewer services to the east side of SD Hwy 37/Dakota Avenue will be required to be stubbed out and temporarily capped. All materials, equipment, labor, temporary caps, and connecting to the pipe stub in the next project phase will be incidental to the sanitary sewer services bid items.
- After completion of all sanitary sewer main and sanitary sewer services, the Contractor will cap the temporary connection at 15th Street prior to final paving. See "Temporary Sanitary Sewer Main Connection" note.
- At the SD Hwy 37/Dakota Avenue S and 21st Street intersection, the Contractor will sequence the sanitary sewer main work to install SMH#1 and provide a temporary connection to the existing sanitary sewer main at SMH#1 for the planned SDDOT project phasing and traffic control details. Refer to "Temporary Sanitary Sewer Main Connection" note for additional information.

TEMPORARY SANITARY SEWER MAIN CONNECTION

Due to the project phasing, two locations require a temporary connection between existing sanitary sewer main to newly installed sanitary sewer main pipe and manholes.

A temporary connection to the newly installed 24" PVC sanitary sewer main at the SD Hwy 37/Dakota Avenue and 15th Street intersection will be required and completed during the Phase 3 -15th Street City Utility Work. The Contractor will make the temporary connection with a 24"x12" Sewer Wye Fitting. Due to the elevation of the existing 10" sanitary sewer main in relation to the proposed 24" sanitary sewer main, the sewer wye will be oversized to a 24"x12" Sewer Wye and an eccentric reducer will be used to temporarily connect to the existing 10" VCP sanitary sewer main. Contractor will verify the appropriate temporary connection type to maintain sanitary sewer flows.

After completion of all sanitary sewer main and sanitary sewer services, the Contractor will plug or cap the temporary connection at the sewer wye at the SD Hwy 37/Dakota Avenue and 15th Street intersection.

All materials, equipment, and labor including the fittings and plugging/capping the temporary sanitary sewer main connection at the 15th Street intersection to maintain sanitary sewer flows will be included in the contract unit price per each for "Temporary Sanitary Sewer Main Connection".

For the project phasing at 21st Street, SMH#1 will be installed prior to the remaining new sanitary sewer on SD Hwy 37/Dakota Avenue. SMH#1 will be installed, and connections to the existing sanitary sewer pipes to the southeast and southwest will be completed. The Contractor will install the proposed 12" PVC sanitary sewer to the northwest from SMH#1 and temporarily cap until remaining sanitary sewer work is completed. A temporary bench and invert will be poured inside the newly installed SMH#1 by temporarily plugging the outgoing pipe, filling the bottom with sand, and pouring a minimum 4" thick concrete bench and invert to allow for the sanitary sewer flows to utilize the existing sanitary sewer pipe on the east side of SD Hwy 37/Dakota Avenue. The Contractor will verify the existing elevations and required bench and invert to allow uninterrupted flow directed to the existing sanitary sewer pipe temporarily connected to SMH#1.

After completion of the remaining sanitary sewer on the west half of SD Hwy 37/Dakota Avenue allowing for sanitary sewer flows to utilize the newly installed sanitary sewer, the Contractor will remove the temporary concrete bench and invert, sand, and begin utilizing the precast bench and invert to the newly installed sanitary sewer pipe. The opening for the temporary connection to the existing pipe will be grouted. The Contractor will patch the sanitary sewer manhole liner across the opening and weld all seams per the City of Huron Standard Specifications for Sanitary Sewer Construction.

All materials, equipment and labor including temporary connection to the newly installed SMH#1 manhole, plugging pipes, installation of the sand base and temporary concrete bench and invert to maintain sanitary sewer flows at the 21st Street intersection to the existing sanitary sewer pipe and complete the necessary work per the Phase 2 NB temporary traffic control details will be included in the contract unit price per each for "Temporary Sanitary Sewer Main Connection".

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RECONNECT SEWER SERVICE

Approximate locations of the existing sanitary sewer services are shown on the plans. Actual locations will be determined by the Contractor during construction. Due to the age of the neighborhood, detailed records do not exist for the sewer service locations for some of the properties in the project area. The approximate locations of existing service wyes and /or taps are shown on the plans. Connections to the existing services shall be field verified prior to placing new sanitary sewer main. Some of the wyes and /or taps may be "inactive" or may have never been used. It shall be the responsibility of the Contractor to determine, as the sewer installation progresses the location of active services to be reconnected by dye testing, televising or running water from the property. City personnel will be available, when requested by the Contractor, to assist working with property owners in unique situations to investigate which services are active and need to be reconnected. Locating the sewer service, dye testing, and property owner coordination shall be included in the unit price bid per each for "Reconnect Sewer Service".

All fittings required to install and reconnect the sanitary sewer services to the existing sanitary sewer service, including bends and couplings, will be incidental to the contract unit prices for the sanitary sewer services and "Reconnect Sewer Service" bid items.



SANITARY SEWER COUPLINGS

The Contractor will furnish and install sewer couplings when making sewer connections to existing sanitary sewer mains or services lines at the locations shown on the plans. All sewer couplings will be the types as noted in the City of Huron Standard Specifications. All couplings will bear the manufacturer's identifying mark and size. Reducer couplings will not be allowed. Contractor will have couplings available which are designed for joining clay sewer pipe to plastic sewer pipe, as well as plastic sewer pipe to plastic sewer pipe.

At connections to the existing VCP sanitary sewer mains with existing interior CIPP liners, the Contractor will remove 6-inches of the outer VCP to expose the interior CIPP liner. The CIPP liner will not be damaged during removal of the outer VCP. Any damage to the existing CIPP liner during the removal will require the Contractor to remove the damaged section at no additional cost to the City. The new PVC pipe shall be connected directly to the existing CIPP liner using a 13.200-12.600R bushing and a 1051-1212RC coupling with a SRC-01 coupling shield all by Fernco or approved equivalent. All labor and materials for connecting the new PVC sanitary sewer pipe to the existing liner of the VCP will be incidental to the contract unit price per each "Connect to Existing Sewer Main".

In addition to the connection between the new PVC sanitary sewer pipe and existing CIPP liner described above, an additional 6-inches of the outer VCP will be removed to expose the interior CIPP liner to install a second Fernco between the interior CIPP liner and the existing outer VCP pipe. This will require two back-to-back Fernco connections at locations where the new PVC sanitary sewer pipe connects to the existing VCP pipe with interior CIPP liner. Contractor will refer to details for the PVC to CIPP lined VCP pipe connections shown on Sheet 81. The known locations of connections to interior CIPP lined existing VCP pipe are listed below:

- 24" Sanitary Sewer on 9th Street (both ends)
- 12" Sanitary Sewer on 15th Street
- 24" Sanitary Sewer on 15th Street (both ends)

Payment for furnishing and installing main line sewer couplings will be paid at the contract unit price per each for "8" Pipe Coupling", "10" Pipe Coupling", "12" Pipe Coupling", and "24" Pipe Coupling". All sewer couplings smaller than 8" size for service line connections will be incidental to the contract unit price per each for "Reconnect Sewer Service" bid item.

TRENCH X' TO X' DEEP

All work for excavating, backfilling and compacting for the installation of the sanitary sewer main pipe will be paid for at the contract unit price per foot for "Trench X' to X'". The "Trench X' to X'" bid items will only be paid for the sanitary sewer main and sanitary manholes.

All excavation, backfilling, and compacting for the proposed storm sewer pipe, storm junction boxes, water main, pipe, fittings, appurtenances, and all other excavation work will be incidental to the various bid items for which the excavation, backfilling, and compacting is required.

TRENCH STABILIZATION MATERIAL

The Contractor will notify the Engineer when material considered unstable for pipe foundations is encountered. When authorized, the Contractor may replace unstable material with trench stabilization material. The material for trench stabilization will consist of ¾" to 4-inch crushed angular, well-graded material. Trench stabilization material will be used as directed by the Engineer.

Payment for furnishing and installing the trench stabilization material will be paid for at the contract unit price per ton for "Trench Stabilization Material". For final measurement of the material, weigh tickets will be provided to the Engineer and/or City at the time of construction. For bidding purposes, a quantity of 400 tons is estimated.

STORM DRAINAGE

STORM SEWER – GENERAL

All reinforced concrete pipe will be the size(s) and classes(s) designated on the plan and profile sheets and in the estimate of quantities.

Standard bedding material will be considered incidental to the installation of the storm sewer pipe. No separate measurements or payment will be made for standard bedding material.

The Contractor will notify the City of Huron Engineer's office upon completion of the storm sewer work. Inspection of the storm sewer will be made by the City Engineer's office with the Contractor and all discrepancies will be noted. If deficiencies are identified, they will be corrected prior to paving. Final payment will not be made until all discrepancies have been corrected and the storm sewer work has been given final acceptance.

Due to the potential stormwater flow through the existing storm sewer pipe during rain events, the Contractor will maintain stormwater flow through the storm sewer system. This will require a temporary connection between the new RCP storm sewer and the existing CMP storm sewer for rain events and/or overnight. All costs including the temporary pipe section, if required, materials, equipment, and labor for maintaining the storm drainage and facilities will be incidental to the contract unit price per foot for the corresponding pipe contract item.

STORM SEWER INSTALLATION SPECIAL CONDITIONS

The Contractor will review the traffic control/project phasing shown in the SDDOT project plans for Project NH-CR 0037(156)125 PCN 06JA.

9th Street Special Conditions

- The Contractor will sequence the storm sewer work to complete the proposed junction box and connection to the existing storm sewer at the 9th Street and Kansas Avenue intersection as noted in the traffic control/project phasing plan prior to the SD Hwy 37/Dakota Avenue closure.
- A temporary connection between the existing storm sewer and proposed storm sewer outside of the 9th Street and Kansas Avenue intersection, to allow for surfacing the intersection prior to the SD Hwy 37/Dakota Avenue closure, will be incidental to the contract unit price per linear foot for "48" RCP, Install".

JUNCTION BOXES

Storm drainage junction boxes shall be paid for under the unit prices for "Class M-6 Concrete" and "Reinforcing Steel" as shown in the table of quantities. Plans quantity will be the basis for payment unless changes are ordered by the Engineer.

The manhole frame and cover type will be Neenah R-1772-A for JB#1 and JB#3 on 9th Street and Neenah R-1713 for JB#2 at the SD Hwy37/Dakota Avenue and 9th Street intersection as stated in the details and City of Huron Standard Specifications for all new junction boxes installed. Refer to Table of Storm Sewer Junction Boxes on Sheet 12.

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CONNECT EXISTING PIPE TO JUNCTION BOX

The Contractor will remove the existing concrete storm manhole at the 9th Street SW/Wisconsin Avenue SW and 9th Street SE/Kansas Avenue intersections. The Contractor will take caution to not damage the existing pipes during the storm manhole removal using methods that may require breaking the existing concrete manhole around the existing pipes during the removal process. The Contractor will cut the existing incoming pipes prior to removing the existing structure to prevent damage to the existing pipes. Existing pipes shall be cut flush with the inside walls of the proposed junction box and cast-in-place to connect to the proposed junction box. No additional payment will be made for needing to replace a section of the existing CMP and/or PVC pipe(s) for using a precast junction box and will be considered incidental to the contract unit prices for the junction box items.

The following pipes to remain in place at the existing storm manholes:

Wisconsin Avenue SW

- 42" CMP (West)
- 12" PVC (North)
- 12" PVC (South)
- 12" PVC (Southwest)

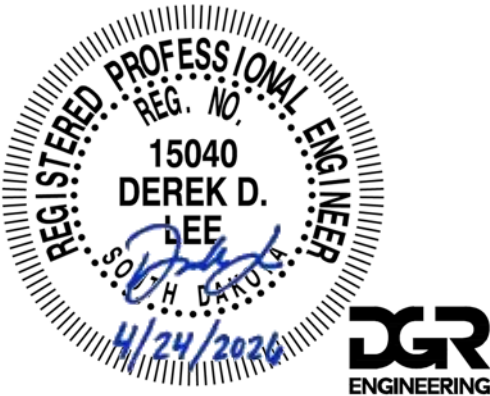
Kansas Avenue SE

- 54" CMP (East)
- 30" CMP (North)
- 12" PVC (Southwest)
- 12" PVC (Southeast)

Any damage to the existing pipes will be repaired or replaced at the Engineer's discretion, by the Contractor with no additional cost to the City. Payment for cutting, protecting, and connecting the existing pipes to the proposed junction box will be incidental to the contract unit prices for the junction box items.

EXISTING SANITARY SEWER INSIDE 54" RCP – 12TH STREET INTERSECTION

The existing sanitary sewer main at approximately Sta. 52+63 in the SD Hwy 37/Dakota Avenue and 12th Street intersection runs through the inside of the existing 54" RCP storm sewer pipe. The Contractor will abandon the existing sanitary sewer pipe in place. The Contractor will coordinate with the City of Huron at the time of abandoning the pipe and when all sanitary sewer flow is using the newly installed sanitary sewer mains. The City of Huron staff will remove the pipe from the inside of the existing 54" RCP storm sewer after the Contractor abandons the pipe and coordinates with the City of Huron.



WATER

WATER MAIN - GENERAL

1. Water main work on the project consists of water main adjustments, the salvaging of existing fire hydrants, and installation of new fire hydrants in conflict with the proposed SDDOT project work, adjustment of valve boxes, and existing curb stops along SD Hwy 37/Dakota Avenue from 9th Street S to 21 Street S.
2. Water main elevations at the water main adjustment locations shown on the plans will be verified during construction prior to completing the water main adjustment. Refer to the list of locations in “Verify Utilities” in the General Notes.
3. Contractors License. The Contractor will obtain a “South Dakota State Sewer and Water Plumbing Contractor’s License” prior to commencing construction.

WATER MAIN AND APPURTENANCES

All valve operations will be done by the City of Huron water department. All water main piping, fittings, and materials will conform to City of Huron Standard Specifications.

The Contractor will coordinate connections of the proposed water main to existing water main to minimize the time of shutoff and will plan to complete work at each location within one day. The Contractor will complete one location of water main work at a time to limit interruption in water service unless prior approval is coordinated with the Engineer and City of Huron. The Contractor will have all materials for the connection on the site and to the extent possible will have fittings assembled and tied prior to cutting the existing water main and making the connection.

The material for water main bedding will be minus 1 inch with not more than 10 percent passing the No. 200 sieve. Water main bedding will be placed to a depth of 6” below and above the pipe for both water main pipe and water service pipe installation per the standard details. All costs for supplying and placing water main bedding will be incidental to the various water main bid items.

All water main will be installed with a minimum depth of cover of six (6) feet from finished grade except at connection points to existing facilities where depth will be governed by existing pipe elevation or as shown on the plans. No additional payment will be made for existing water main that is deeper than six (6) feet.

- Foster adaptors may be required to adjust placement of valve boxes due to the proposed surfacing plans as noted on the plan sheets. Foster adaptors are anticipated to be installed in one location:
- Sta. 17+89.15 – 6” Gate Valve onto proposed MJ Tee
 - Sta. 52+91.33 – 10” Gate Valve onto existing MJ Tee

All costs for foster adaptors, where required, will be incidental to the contract unit price for the various “Gate Valve with Box” items.

All mechanical joints will be restrained. All materials, gaskets, bolts, and any additional items and labor for joint restraint will be incidental to the fittings, valves, hydrants and any other appurtenances. Restrained joint connections to existing HDPE pipe will be incidental to the various size “Pipe Transition Coupling” bid item.

All pipe connections to existing mechanical joint fittings will require new mechanical joint restraining devices and bolts. All costs for furnishing new mechanical joint restraining devices, bolts, and labor will be incidental to the contract per each price for “Connect to Existing Water Main”.

No additional payment will be made for water main adjustments. Water main adjustments will be paid for with the contract unit prices for the fittings and pipe required to make the water main adjustment.

All ductile iron pipe and fittings will be wrapped with polyethylene tube material to protect the pipe from any future corrosion. The poly material will be installed as detailed in the supplemental specifications and the ductile iron handbook from DIPRA and ANSI A21.5 (AWWA C105). Polyethylene will be V-bio as manufactured by DIPRA, or pre-bid approved equal. In addition, polyethylene encasement will consist of three layers of co-extruded linear low-density polyethylene (LLDPE), fused into a single thickness of not less than 8 mils. The inside surface of the polyethylene wrap to be in contact with the

pipe exterior will be infused with a blend of antimicrobial biocide to mitigate microbiologically influenced corrosion and a volatile corrosion inhibitor to control galvanic corrosion. Polyethylene encasement will be installed in accordance with AWWA C600 and ANSI/AWWA C105/A21.5 and also in accordance with all recommendations and practices of the AWWA M41, Manual of Water Supply Practices – Ductile Iron Pipe and Fittings. The Polyethylene encasement will extend 1 ft. beyond the fitting and all ends will be secured with adhesive tape. The polyethylene will be gathered and lapped to provide a snug fit and shall be secured at quarter points and each end with polyethylene tape. The polyethylene will prevent contact between the pipe and bedding material but is not intended to be a completely airtight and watertight enclosure. Damaged polyethylene must be repaired in a workmanlike manner using polyethylene tape or will be replaced. Polyethylene encasement is considered incidental with no separate measurement or payment to be made.

All water distribution materials must meet NSF / ANSI Standard 61 – Drinking Water System Components, Health Effects, NSF/ANSI 61, and NSF/ANSI 372.

Tracer wire will be placed on all new water mains as detailed in the plans. Payment to place tracer wire as detailed in the plans will be incidental to the water main installation.

PIPE TRANSITION COUPLING

- The project water main repairs and relocation of fire hydrants will consist of existing pipe material transitions between PVC and HDPE between 9th Street S and 13th Street S. The locations of the required pipe transition couplings are noted on the plans. An additional two locations will require the Contractor to verify the PVC to HDPE, and/or HDPE to ductile iron fitting connection. The Contractor will work with the City of Huron during the verification of the connections. If the existing connection type is determined to not be a restrained connection after verification and determined to need replacement, the Contractor will use a Romac Alpha restrained coupling to make the connection. The locations of verification are listed below:
- 52+87.74-43.53’ RT (12th Street S)
 - 66+02.60-46.84’ RT (9th Street S)

All transition couplings used for PVC to HDPE pipe connections shall be Romac Alpha/Alpha XL. All coupling adaptors shall be coated with a 12-mil nominal thickness fusion bonded epoxy conforming to the requirements of the latest revision of AWWA C213 section 4.5. Bolts and nuts shall be stainless steel. Gaskets shall be chloramine resistant and meet NSF/ANSI Standard 61: Drinking Water System Components.

WATER MAIN PARALLELING OR CROSSING SEWERS

Installation of water mains parallel to sanitary or storm sewer lines will be completed in a manner such that the water mains will be laid at least 10 feet horizontal distance when measured edge to edge from any existing or proposed sanitary sewer, storm sewer, or sewer manhole. Where water mains cross above storm sewers or sanitary sewers, there will be at least 18 inches vertical clearance between the bottom of the water main and the top of the sewer pipe and one full length of water pipe must be located so both joints will be as far from the sewer as possible.

A water main may cross below a non-perforated sewer main if minimum vertical separation of 18 inches is provided and the sewer main is of acceptable water main pipe material and is a continuous piece of at least 20 feet in length with the length of the water pipe located so both joints are as far as possible from the sewer main. A water main may cross either above or below a non-perforated sewer line with a vertical separation of less than 18 inches if either the water or sewer line is encased in PVC or steel for at least 10 feet each side of the crossing. If PVC or steel is used as encasement material, the ends will be adequately sealed with a rubber boot. Where water mains are to be installed in parallel with a sewer or a sewer manhole that is less than 10 feet away horizontally and is not at least 18 inches below the water main, the water main will be encased in PVC or steel for the entire distance that the sewer is too close to the water main. If PVC or steel is used as encasement material, the ends shall be adequately sealed with a rubber boot. PVC casing pipe will meet the requirements of restrained joint PVC pipe material in Section 300 Supplemental Standard specifications for Water Main Construction. Payment for crossings will be incidental to the contract unit prices for the water main items.

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WATER MAIN DISINFECTION

After disinfection and final flushing and before the new water main is connected to the distribution system, two consecutive sets of acceptable samples, taken 24 hours apart, will be collected from the new main. The samples must be submitted to a health laboratory acceptable to the state DANR. The samples must be free of coliform bacteria before the system can be placed into service.

When minor water main work occurs (i.e. tie-in connections of new water main to existing water main, water main adjustments, installation of new valves on existing main or any other work deemed minor by the Engineer) the existing main, prior to the completion of the bacteria testing, may be returned to service once the line has been flushed and a boil order has been issued. The boil order will be rescinded with the passing of the bacteria test.

Water that is discharged during water main flushing will not reach a stream, river or water way if the chlorine residual exceeds 0.05 mg/L.

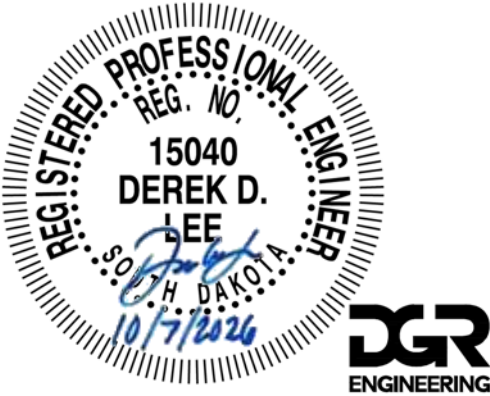
The City or its representative will notify all consumers affected by any interruption of water service at least 24 hours before the interruption of water service. Consumers will be verbally notified when possible. In the event a consumer cannot be verbally notified, a door hanger will be secured to the most frequently used entrance by the City or its representative.

WATER MAIN CONNECTIONS (4” OR LARGER)

Connect to Existing Water Main: The construction requirements and method of measurement and payment will be as stated in Section 300 of the City’s Standard Specifications for Water Main Construction.

When connecting the new PVC water main to existing fittings, a new restraining device will be required to be installed at the new pipe connection to the existing fitting. The costs for furnishing and installing the restraining device, labor and materials will be incidental to the contract unit price per each “Connect to Existing Water Main”.

Cut and Tie to Existing Water Main: The construction requirements and method of measurement and payment will be as stated in Section 300 of the City’s Standard Specifications for Water Main Construction.



DISCHARGE OF CHLORINATED WATER

Water from the City’s Water Distribution System that is drained into work areas or open trenches must be discharged without impact to the environment. The Contractor will review locations of discharge hydrants relative to open areas and will meet with property owners to discuss discharge locations and obtain property owner approval if water will be discharged across their private property. The following is a prioritized list for the disposition of chlorinated or heavily chlorinated water from the distribution system:

- a. If the discharge location is close to Waters of the State, discuss excavation of depressions or berms (BMP’s) with the City and property owner(s) to accommodate discharge volumes. Water from the distribution system will be pumped or flushed to these BMP’s and will be stored and discharged through infiltration.
- b. Water from the distribution system may be pumped into vactor trucks or septic tank trucks and hauled to the Water Reclamation Plant or other facility permitted by (DANR) to accept such discharge.
- c. Permission must be obtained by the City for the discharge of Water from the distribution system into City’s sanitary sewer system. Contractor is responsible for verifying hydraulic loading on existing sanitary sewer system during trench dewatering operations to ensure that sewer backups do not occur.

TEMPORARY WATER MAIN

It is anticipated that the proposed water main work for the project will be completed within one day at each location. The Contractor will complete one location of water main work at a time to limit interruption in water service without prior approval from the Engineer and City of Huron. If water service cannot be restored by the end of the day to the affected properties, the Contractor will be responsible for providing a temporary water connection until water service is restored at no additional cost to the project.

The Contractor will anticipate that water main connection work which would interrupt business operations will be required to be completed in coordination with all affected properties which may include after hours, night and/or weekends to limit disruption to the business operations. No interruption to service will be allowed until it is confirmed that all properties have been contacted and proper coordination with the affected properties has been made.

Businesses are anticipated to require additional coordination for interruption of water service. The following list of businesses will require coordination during the planning of water main work on the project include but not limited to: 2021 Dakota Avenue (Jimmy Johns), 1937 Dakota Avenue (Restaurant), 1900 Dakota Avenue (Burger King), 1265 Dakota Avenue (Prairie Smiles Family Dentistry), 1207 Dakota Avenue (James Valley Veterinary Clinic), and 1010 Dakota Avenue (Dakota Family Dentistry).

During coordination with affected businesses and Contractor scheduling, if a temporary water service connection will be required for the list of businesses above, this work will be paid under the bid item “Temporary Water Service”. Payment will include layout, pipe, appurtenances, and any additional items and labor necessary to complete the work. The Contractor will coordinate with the City of Huron for temporary water service connection locations.

The Contractor, with the approval of the inspector on site and City of Huron, will coordinate with all property owners when a disruption in water service is expected. Contractor will be expected to complete water main and water service reconnections to the existing and/or temporary water service either during the day (9 AM until 4 PM during the work week) or at other suitable times that meet the needs and requirements of the property owners.

The Contractor must provide a 24-hour contact person with adequate parts and equipment to make necessary repairs to temporary water service in a timely manner.

All temporary water piping and fittings will be NSF approved for potable water use. The Contractor is responsible for verifying all connections are water tight and functioning properly. Any damage by connection, equipment or part failures are the responsibility of the Contractor. Any damage to private property during the installation, usage and removal of the temporary water is the responsibility of the Contractor.

Temporary water service main will be minimum 2-inch diameter. No additional payment will be made for temporary water main larger than 2-inch diameter. Temporary water main and its appurtenances will meet the requirements of the City of Huron Standard Specifications for Water Main Construction. Temporary water main is required to be tested for pressure and coliform bacteria prior to any service connections. The temporary water main will be tested at static main pressure. The temporary water main shall be filled, disinfected, flushed and sampled. Two consecutive coliform bacteria testes will be required prior to the temporary water main being put into service.

Gravel Ramps shall be constructed over the temporary water main where necessary and at all driveway approaches and will be incidental to the contract unit price for “Temporary Water Service”. The Contractor shall be responsible for maintaining sidewalk ADA accessibility. Maintaining ADA accessibility shall be incidental to the temporary water main bid item(s).

Chlorination, testing, pipe, necessary isolation valves, bends, fittings, hydrants, all necessary appurtenances, gravel ramp construction, maintenance and removal, and all other materials and labor necessary to construct the temporary water main and flush each individual service before connection to the City water system will be considered incidental to bid item for temporary water main.

Submittals:
Contractor is to submit temporary water main layout, sequence of operations, schedule, material and fitting specifications to the project Engineer four days prior to the project preconstruction meeting. Any changes to the proposed temporary water service layout will be approved by the Project Engineer prior to the preconstruction submittal.

Approved Products: CertainTeed – Certa-Lok Yelomine or prebid Engineer approved equal.

PIPE INSULATION

The Contractor will furnish and install insulation board to insulate water main and services, and sanitary sewer services as indicated on the plans and details or as directed by the Engineer. All pipe insulation installed will be 2” thick and 48” wide unless shown otherwise on the plans or directed otherwise by the Engineer. “Pipe Insulation” will be paid per square foot of insulation per each 2” thick layer.

Insulation will be an extruded polystyrene board and meet the requirements of ASTM C578, Type IV. The minimum R-value will be 5.0 as determined by ASTM C518. The minimum compressive strength will be 25 psi as determined by ASTM D1621. The maximum water absorption will be 0.1 percent by volume as determined by ASTM C272. The maximum water vapor permeability will be 1.1 perm as determined by ASTM E96.

Water main insulation will be STYROFOAM™ Square Edge by the Dow Chemical Company, STYROFOAM™ Brand Scoreboard by the Dow Chemical Company, Owens Corning Foamular 400 Insulation Board, or prebid Engineer-approved equal.

Compensation for furnishing and installing pipe insulation will include all materials, equipment, and labor necessary to place insulation in the excavated trench as shown on the detail in the plans. Payment for furnishing and installing pipe insulation for water main will be paid for at the contract unit price per square foot for “Pipe Insulation”. An additional quantity of 320 square feet of “Pipe Insulation” is included in the estimated quantities for field determined areas during construction.

Contractor to refer to SDDOT plan Section B for installation of Styrofoam insulation underneath 2’x3’ Type B Drop Inlets near the existing water main. All costs for this installation underneath the drop inlets will be included in the SDDOT project.

VALVE BOX EXTENSIONS

Water service curb stops located in concrete or asphalt pavement (driveways, sidewalk, parking lots, and/or street surfacing) will be fitted with a valve box top extension with a length of 10” and a 5.25” drop lid. The curb stop will be centered within the valve box extension. The valve box extension will sit flush with the finish grade.

All costs for furnishing and installing the valve box extension in pavement surfacing areas will be paid for at the contract unit price per each for “Valve Box Extension”.

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ADJUST CURB STOP BOX

Due to grade changes proposed with the SDDOT surfacing project, existing curb stops along the project may require adjustment. All costs for the cutting, installing couplings for extension and adjusting the existing curb stops will be paid at the contract unit price per each “Adjust Curb Stop Box”.

Existing curb stops located in concrete or asphalt pavement will be fitted with a valve box top extension adjusted flush with the finish grade.

SALVAGE FIRE HYDRANT

The seven (7) existing fire hydrants located within the project area, as shown on the plans, will be removed and salvaged to the City of Huron. The Contractor will take care not to damage the existing fire hydrants during the removal and salvaging process. The hydrants will be delivered to the City in the same “as-is” condition as they were prior to removal. The Contractor will coordinate the delivery of the salvaged fire hydrants with the City of Huron. All costs for the removal, salvage, transporting and delivery of the existing fire hydrants to the City of Huron will be incidental to the contract unit price per each for “Salvage Fire Hydrant”.

SURFACING

BASE COURSE

Base Course shall be in accordance with SDDOT Standard Specifications Section 260. Material for base course shall meet requirements set forth in SDDOT Standard Specifications Section 882.

Base Course shall be compacted with pneumatic rollers and shall continue on each lift of the base course until the surface is firm and unyielding and attains a density of 97% of the maximum dry density as determined by SD 104, Method 4 and SD 105 or SD 114.

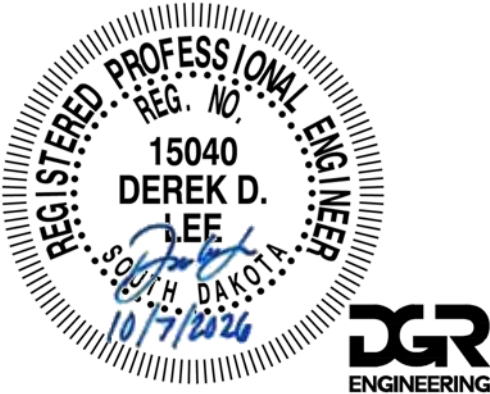
Water for compaction is estimated at 12 gallons per ton and will be incidental to the contract unit price per ton for “Base Course”.

Payment shall be made on a per ton basis. Any base course delivered to the site without a scale ticket will not be measured for payment.

MISCELLANEOUS CONCRETE

Concrete for inlets, curb and gutter, valley gutters, sidewalk, driveway approaches, and outlet structures will be Class M-6 as detailed in the SDDOT Standards Specifications Section 462.

Concrete will be cured using a curing compound in accordance with Section 821.1 of the SDDOT Standard Specifications for Roads and Bridges. A ½” preformed expansion material will be placed between the sidewalk and other concrete items (back of curb, driveways, existing sidewalks, etc.) except at curb ramps, where the expansion material will be placed on the back side of the landing area. Payment for this item will be incidental to the contract unit price for the respective bid item.



TYPE 1 DETECTABLE WARNINGS

Detectable warnings will be in compliance with the Americans with Disabilities Act regulations.

The detectable warnings will be installed according to the manufacturer's installation instructions to ensure a proper, flush installation with vertical separation or voids below the panels. Vent holes, if present, will be filled with grout as necessary. Any deficiencies will be repaired to the satisfaction of the Engineer.

A concrete thickness equal to the adjacent concrete sidewalk thickness and 2 inches of granular cushion material will be placed below the Type 1 Detectable Warnings. When concrete is placed below the detectable warnings then the concrete thickness will be transitioned at the rate of 1" per foot to match the adjacent concrete sidewalk thickness.

When Type 1 Detectable Warnings are specified, the Contractor will furnish and install only one of the products listed in the table below. Type 1 Detectable Warnings consist of only Cast Iron Plate products. Cast iron plates can be a natural patina (weathered steel).

Type A Detectable Warnings

Product	Manufacturer
Detectable Warning Plate Cast Iron Plate	Neenah Foundry Company Neenah, WI 800-558-5075 http://www.neenahfoundry.com/
Detectable Warning Plate Cast Iron Plate	Deeter Foundry Lincoln, NE 800-234-7466 http://www.deeter.com/
Detectable Warning Plate Cast Iron Plate(No Coating)	East Jordan Iron Works, Inc. 301 Spring Street East Jordan, MI 49727 800-626-4653 http://www.ejiw.com
Iron Dome Cast Iron Detectable Warning Tile	ADA Solutions, Inc. 323 Andover St., Suite 3 Wilmington, MA 01887 800-372-0519 https://adatile.com
TufTile (wet-set) Cast Iron Replaceable Tile	TufTile 1200 Flex Court Lake Zurich, IL 60047 888-960-8897 http://www.tuftile.com/

TREE PLANTING

The tree planting process must be coordinated with the City of Huron Parks and Recreation Director and must comply with the Division of Resource Conservation and Forestry Grant Standards. Compliance will be monitored by a South Dakota Department of Agriculture and Natural Resources Service Forester.

To meet the requirements of the Division of Resource Conservation and Forestry Grant Standards, the Contractor shall not commence any tree planting in Phase 3 before September 6, 2027, and no later than October 7, 2027. All Phase 3 tree planting, meeting compliance with the Division of Resource Conservation and Forestry Grant Standards, shall be fully completed on or before October 7, 2027.

All trees will conform to or exceed minimum quality standards as defined by the American Nursery and Landscape Association, current edition of American Standard for Nursery Stock, and will be purchased from a Licensed Landscape Nursery. Trees furnished will be of the same genus, species, cultivar and size as specified in the plans. Species and variety may be substituted only by the approval of the City and Engineer. Each tree will have an identification label.

Planting locations for each individual species will be identified prior to planting. Final tree locations will be approved by the City of Huron and Engineer prior to installation. The Contractor will coordinate with the City of Huron prior to the tree planting.

The Contractor will provide a one-year warranty for all trees.

Trees may not be stored on site for more than 24 hours prior to planting without prior approval. Within 2 hours after being planted, trees will be watered to thoroughly saturated backfill soil as this provides settlement and filling of voids in the backfill.

Trees located in lawn areas will receive a mulch ring with a minimum diameter of 4 feet and a minimum thickness of 4 inches placed around each individual tree.

Contractor will furnish and install a 20-gallon Treegator Slow Release Watering Bag with each tree. Each tree bag will be refilled at least once per week.

All costs for furnishing, handling, and placing the mulch rings and watering bags including the materials, equipment, labor, and incidentals necessary will be incidental to the contract unit price per each for "2" Caliper Deciduous Tree, Furnish and Plant".

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TABLE OF SANITARY SEWER PIPE															
Location			8" Sanitary Sewer Pipe	10" Sanitary Sewer Pipe	12" Sanitary Sewer Pipe				24" Sanitary Sewer Pipe		Pipe Coupling				
			Trench Depth	Trench Depth	Trench Depth				Trench Depth						
			8'-10' Deep	8'-10' Deep	6'-8' Deep	8'-10' Deep	10'-12" Deep	12'-14' Deep	14'-16' Deep	12'-14' Deep	14'-16' Deep	8"	10"	12"	24"
Station to Station			(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(Each)	(Each)	(Each)	(Each)	
SD Hwy 37/Dakota Avenue															
13+16	to	13+22		7								1			
13+22	to	13+93				75									
13+93	to	17+65				372									
17+65-RT			67								1				
17+65	to	22+01				436									
22+01	to	22+78				77									
22+78	to	26+18					340								
26+18	to	30+98					480								
30+98	to	33+07					209								
33+07	to	35+78						271							
35+77-LT							40						1		
35+78	to	39+47					369								
39+59-RT*							37						2		
39+59	to	42+57					298								
42+57	to	44+15					158								
44+15-LT			66								1				
44+15	to	46+23					208								
46+23	to	48+70				247									
48+70	to	49+86				116									
49+86	to	52+46			260										
52+79	to	54+15		136											
54+15	to	57+31			316										
57+31	to	61+38				407									
61+38	to	61+62					24								
61+62	to	61+89					17								
61+89	to	65+91				412									
65+91-LT/RT*								121						4	
65+91	to	65+97	7							1					
65+91	to	65+94	7							1					
15 Street S Crossing															
204+29*	to	204+42							13					2	
204+42	to	205+14							72						
205+14	to	205+69*							65					2	
Totals:			147	7	136	576	2142	1436	1015	121	150	4	1	3	8

* Indicates location of a connection to existing CIPP lined VCP sanitary sewer main

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TABLE OF SANITARY SEWER MANHOLES															
Location			48" Lined Manhole (Each)					60" Lined Manhole (Each)		Boots for Manhole					Special Manhole Frame and Lid
			Depth					Depth		6"	8"	10"	12"	24"	Neenah R1713
SMH#	Station	Alignment	6'-8' Deep	8'-10' Deep	10'-12' Deep	12'-14' Deep	14'-16' Deep	12'-14' Deep	14'-16' Deep	(Each)	(Each)	(Each)	(Each)	(Each)	(Each)
1	13+21.83	SD Hwy 37 Mainline			1					1		1	1		1
2	13+92.88	SD Hwy 37 Mainline			1								2		1
3	17+65.27	SD Hwy 37 Mainline			1						1		2		1
4	22+01.42	SD Hwy 37 Mainline			1								2		1
5	26+17.94	SD Hwy 37 Mainline				1							2		1
6	30+97.60	SD Hwy 37 Mainline				1							2		1
7	35+77.56	SD Hwy 37 Mainline					1						3		1
8	39+46.67	SD Hwy 37 Mainline							1				1	2	1
9	39+58.88	SD Hwy 37 Mainline					1						2		1
10	44+14.86	SD Hwy 37 Mainline				1					1		2		1
11	48+70.00	SD Hwy 37 Mainline			1								2		1
12	52+45.80	SD Hwy 37 Mainline		1									1		1
13	52+78.87	SD Hwy 37 Mainline	1										1		1
14	57+30.80	SD Hwy 37 Mainline			1								2		1
15	61+61.37	SD Hwy 37 Mainline			1								2		1
16	65+90.45	SD Hwy 37 Mainline						1			2		1	2	1
17	204+42.07	15th Street S							1					2	1
Totals:			1	1	7	3	2	1	2	1	4	1	28	6	17

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TABLE OF WATER MAIN																											
Location	Remove Water Main (Ft)	PVC Watermain				Gate Valve with Box				Salvage Fire Hydrant (Each)	Standard Fire Hydrant (Each)	Pipe Tee				Pipe Bend (45)			Pipe Reducer (Each)	Pipe Sleeve				Pipe Transition Coupling		Cut and Tie to Existing Water Main (Each)	Connect to Existing Water Main (Each)
		6"	8"	10"	12"	6"	8"	10"	12"			8"x6"	10"x6"	12"x6"	12"x8"	8"	10"	12"		10"x8"	6"	8"	10"	12"	8"		
SD Hwy 37/Dakota Avenue																											
Sta. 14+00 - Adjustment	36				31												4						1			2	
20th Street SE	91	50			43	3			1	1	1			3					2				1			4	
Sta. 22+01 - Fire Hydrant	33	11			18	1			1	1	1			1									1			1	1
19th Street SW - Adjustment	53				50				1								4						1			2	
Sta. 26+53 - Fire Hydrant	36	8		24		1				1	1		1									1				1	1
15th Street SE	25		25				1													1						1	1
Sta. 44+61 - Fire Hydrant	11	9				1				1	1																1
Sta. 48+58 - Fire Hydrant	14	6		10		1				1	1		1											2	2		
Sta. 52+87 to Sta. 52+97	10		6	6				1										1					1		1	1	1
Sta. 52+87 - 12th Street SE	23			23													4						1		1	1	1
Sta. 57+62 - Fire Hydrant	21	9	15			1	1			1	1	1											2		2		
Sta. 62+04 - Fire Hydrant	14	9	12			1	1			1	1	1											2		2		
9th Street SE	8		8				1																1		1	1	1
Sta. 66+00 to Sta. 66+25	29		24		5									1						1		1			3		
9th Street S																											
Sta. 105+32 to Sta. 105+68	35				37												4						1			1	1
26th Street S																											
Sta. 159+00 - Adjustment	32		35													4					1				2		
Totals:	471	102	125	63	184	9	4	1	3	7	7	2	2	4	1	4	4	12	1	2	3	1	6	6	3	26	8

TABLE OF STORM SEWER JUNCTION BOXES												
Location				Rim Elev	Top of Wall Elev	Floor Elev	H	Class M6 Concrete	Reinf Steel	Special Manhole Frame and Lid		Eccent Cone
										R1772-A	R1713	
JB#	Station	Alignment	Type				(ft)	(CY)	(lbs)	(Each)	(Each)	(Ft)
1	101+57.20	9th Street S	HURON 5'x5' JB	1279.14	1277.64	1264.96	14.18	6.49	444	1		
2	106+14.20	9th Street S	SDDOT 6'x6' JB	1276.89	1271.83	1263.83	8.00	6.72	1475		1	4
3	110+19.38	9th Street S	SDDOT 6'x6' JB	1275.33	1270.33	1263.42	6.91	6.52	1445	1		4
Totals:								19.73	3364	2	1	8

TABLE OF STORM SEWER JUNCTION BOXES NOTE:
Special Manhole Frame and Lid include both the Neenah R1772-A 7" casting and Neenah R1713 9" casting.



EROSION CONTROL

Areas along 9th Street disturbed outside of the SDDOT project limits for the removal and replacement of driveway approaches, curb and gutter, and sidewalk will be restored to the before construction conditions. This will include the placement of topsoil, fine grading, seeding, fertilizing, hydromulching, and replacement of landscaping as required. All costs for restoring the small, disturbed areas will be included in the contract lump sum price “Erosion Control”.

TEMPORARY AND FINAL STABILIZATION

For temporary and permanent sediment control items required for this project within the SDDOT working limits, see SDDOT Section D plan sheets. The Contractor will refer to the SDDOT plan sheets and install all temporary sediment control devices prior to beginning the work on the City of Huron project utility adjustments. Final stabilization and restoration will be completed per the SDDOT project plans. Interim stabilization may be required pending Contractor sequencing with the proposed work in the SDDOT project plans. All costs for temporary stabilization required for stockpiles or interim grading areas for the City of Huron project will be incidental to the project.

NOTICE OF INTENT

A Notice of Intent (NOI) for coverage under the General Permit for Storm Water Discharges Associated with Construction Activities has been submitted to the SD DANR and the permit number is pending. A copy of the permit may be downloaded from:

<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/swdpermitting/wwDBSearch.aspx>

PERMIT AND EROSION CONTROL CONTACT INFORMATION POSTING

The Contractor is required to post and maintain for public viewing a laminated copy of the Department of Agriculture and Natural Resources authorization letter. The authorization letter will be furnished to the Contractor by the City Engineer’s office. The Contractor is also required to post and maintain for public viewing an Erosion Control Contact Information Posting (ECCIP) sign. The sign will include the name and contact information of the Contractor. The ECCIP signs are available from the City Engineer’s office. The letter and ECCIP sign must be posted in a prominent location such as the project’s information board or the main entrance of the construction site. Multiple ECCIP signs should be posted on projects that have multiple entrances such as a street type project.

MULCH FOR STOCKPILES AND INTERIM GRADING AREAS

If the Contractor creates stockpiles or has other disturbed areas that will remain dormant for a period of longer than 21 days, then methods described in the Soil Surface Stabilization Practices note will be used. The Contractor will be required to grade the stockpiles in a manner to properly apply the soil stabilizer. Soil stabilization required for stockpiles and interim grading areas will be incidental to the project.

SOIL SURFACE STABILIZATION PRACTICES

After construction begins, soil surface stabilization will be applied within 14 days to all disturbed areas that may not be at final grade but will remain dormant (undisturbed) for periods longer than 21 calendar days. Within 14 days after final grade is reached on any portion of the site, permanent or temporary soil surface stabilization will be applied to disturbed areas and soil stockpiles. The following table lists the amount of time various erosion control measures are applicable.

Maximum Time Limits of Land Exposures for Selection of Erosion Controls

Erosion Control Method	Maximum Allowable Period of Exposure (Months)
Surface Roughening	1
Mulching	12
Temporary Revegetation	12 – 24
Permanent Revegetation	24 Or More
Soil Stockpile Revegetation	2
Early Application of Road Base	1

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STORMWATER POLLUTION PREVENTION PLAN CHECKLIST
*(The numbers left of the title headings are **reference numbers** to the **GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES** (Stormwater Permit))*

5.3 (2): STAFF TRAINING/SWPPP IMPLEMENTATION

To promote stormwater management awareness specific for this project, the Contractor's Erosion Control Supervisor should provide correspondence of how the SWPPP will be implemented. The Contractor's Erosion Control Supervisor is responsible for providing this information at the preconstruction meeting, and subsequently completing an attendance log, which should identify site-specific implementation of the SWPPP and the names of the personnel who attended the preconstruction meeting. Documentation of the preconstruction meeting will be filed with the SWPPP documents.

5.3 (3): DESCRIPTION OF CONSTRUCTION ACTIVITIES

- **5.3 (3a): Project Limits** (See Title Sheet)
- **5.3 (3a): Project Description** (See Title Sheet)
- **5.3 (4): Site Map(s)** (See Title Sheet and Plans)
- **Major Soil Disturbing Activities** (check all that apply)
 - ☐ Clearing and grubbing
 - ☒ Excavation/borrow
 - ☐ Grading and shaping
 - ☐ Filling
 - ☐ Other (describe):
- **5.3 (3b): Total Project Area** 3.08 Acres
- **5.3 (3b): Total Area to be Disturbed** 3.08 Acres
- **5.3 (3c): Maximum Area Disturbed at One Time** 3.08 Acres
- **5.3 (3d): Existing Vegetative Cover (%)** 5%
- **5.3 (3d): Description of Vegetative Cover** Existing vegetative cover consists of grasses
- **5.3 (3e): Soil Properties:** AASHTO Soil or USDA-NRCS Soil Series Classification. See SDDOT plans
- **5.3 (3f): Name of Receiving Water Body/Bodies** James River
- **5.3 (3g): Location of Construction Support Activity Areas** N/A

5.3 (3h): ORDER OF CONSTRUCTION ACTIVITIES

The Contractor will enter the Estimated Start Date.

Description	Estimated Start Date
Install stabilized construction entrance(s).	
Install perimeter protection where runoff may exit site.	
Install perimeter protection around stockpiles.	
Install channel and ditch bottom protection.	
Clearing and grubbing.	
Remove and stockpile topsoil.	
Stabilize disturbed areas.	
Install utilities, storm sewers, curb and gutter.	
Install inlet and culvert protection after completing storm drainage and other utility installations.	
Final grading.	
Final paving.	
Removal of protection devices.	
Reseed areas disturbed by removal activities.	

5.3 (5): DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES

All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report. Include the technical reasoning for selecting each control. (check all that apply)

Perimeter Controls (See SDDOT Project Detail Plan Sheets)	
Description	Estimated Start Date
☐ Natural Buffers (within 50 ft of Waters of State)	
☒ Silt Fence	
☐ Erosion Control Wattles	
☐ Temporary Berm / Windrow	
☐ Floating Silt Curtain	
☒ Stabilized Construction Entrances	
☐ Entrance/Exit Equipment Tire Wash	
☐ Other:	

Structural Erosion and Sediment Controls	
Description	Estimated Start Date
☒ Silt Fence	
☐ Temporary Berm/Windrow	
☒ Erosion Control Wattles	
☐ Temporary Sediment Barriers	
☐ Erosion Bales	
☐ Temporary Slope Drain	
☐ Turf Reinforcement Mat	
☐ Riprap	
☐ Gabions	
☐ Rock Check Dams	
☐ Sediment Traps/Basins	
☐ Culvert Inlet Protection	
☐ Transition Mats	
☐ Median/Area Drain Inlet Protection	
☒ Curb Inlet Protection	
☐ Interceptor Ditch	
☐ Concrete Washout Facility	
☐ Work Platform	
☐ Temporary Water Barrier	
☐ Temporary Water Crossing	
☐ Permanent Stormwater Ponds	
☐ Permanent Open Vegetated Swales	
☐ Natural Depressions to allow for Infiltration	
☐ Sequential Systems that combine several practices	
☐ Other:	

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Dust Controls	
Description	Estimated Start Date
☐ Tarps & Wind impervious fabrics	
☒ Watering	
☐ Stockpile location/orientation	
☐ Dust Control Chlorides	
☐ Other	

Dewatering BMPs	
Description	Estimated Start Date
☐ Sediment Basins	
☒ Dewatering bags	
☐ Weir tanks	
☐ Temporary Diversion Channel	
☐ Other:	

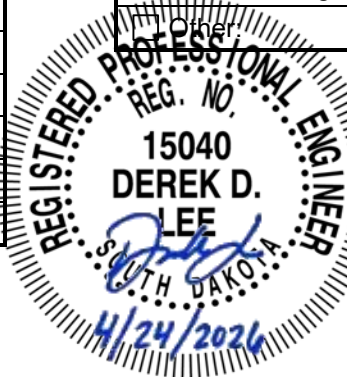
Stabilization Practices (See SDDOT Project Detail Plan Sheets)

(Stabilization measures will begin the following work day whenever earth disturbing activity on any portion of the site has temporarily or permanently ceased. Temporary stabilization will be completed as soon as practicable but no later than 14 days after initiating soil stabilization activities (3.18))

Description	Estimated Start Date
☐ Vegetation Buffer Strips	
☐ Temporary Seeding (Cover Crop Seeding)	
☒ Permanent Seeding	
☐ Sodding	
☐ Planting (Woody Vegetation for Soil Stabilization)	
☐ Mulching (Grass Hay or Straw)	
☐ Fiber Mulching (Wood Fiber Mulch)	
☐ Soil Stabilizer	
☐ Bonded Fiber Matrix	
☐ Fiber Reinforced Matrix	
☐ Erosion Control Blankets	
☐ Surface Roughening (e.g. tracking)	
☐ 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.



5.3 (6): PROCEDURES FOR INSPECTIONS

- Inspections will be conducted at least once every 7 days.
- 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 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 1/2 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 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 City of Huron and Contractor’s Erosion Control Supervisor are responsible for inspections. Maintenance and repair activities are the responsibility of the Contractor.

5.3 (7): POST CONSTRUCTION STORMWATER MANAGEMENT

Stormwater management will be handled by temporary controls outlined in “DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES” above, and any permanent controls needed to meet permanent stormwater management needs in the post construction period will be shown in the plans and noted as permanent.

5.3 (8): POLLUTION PREVENTION PROCEDURES

5.3 (8a): Spill Prevention and Response Procedures

- **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/or 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.
 - Hazardous Materials
 - Products will be kept in original containers unless the container is not resealable and provide secondary containment as applicable.
 - 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 stormwater system or stormwater 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 stormwater runoff.

➤ **Spill Control Practices**

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.

➤ **Spill Response**

The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into stormwater runoff and conveyance systems. If the release has impacted on-site stormwater, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens stormwater 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.

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- 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 SDDANR.
- Personnel with primary responsibility for spill response and cleanup 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.

5.3 (8b): WASTE MANAGEMENT PROCEDURES

➤ **Waste Disposal**

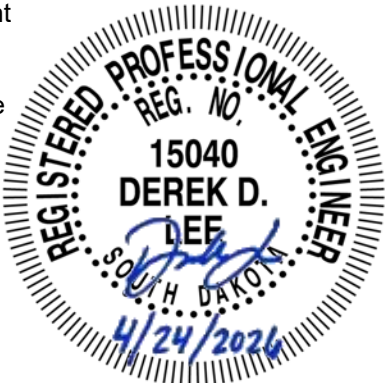
- All liquid waste materials will be collected and stored in approved sealed containers. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal and notices stating proper practices will be posted. The Contractor is responsible for ensuring 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 Contractor 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 which must be secured to prevent tipping and serviced in a timely manner by a licensed waste management Contractor or as required by any local regulations.



5.3 (9): CONSTRUCTION SITE POLLUTANTS

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 heading “POLLUTION PREVENTION PROCEDURES” (check all that apply).

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

Product Specific Practices

- **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 stormwater. 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 stormwater outlet of the site. Upon completion of construction, the area at the washout facility will be properly stabilized.

5.3 (10): NON-STORMWATER DISCHARGES

The following non-stormwater 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.

5.3 (11): INFEASIBILITY DOCUMENTATION

If it is determined to be infeasible to comply with any of the requirements of the Stormwater Permit, the infeasibility determination must be thoroughly documented in the SWPPP.

7.0: 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 SDDANR immediately if any one of the following conditions exists:
 - The release or spill threatens or is able to threaten waters of the state (surface water or ground water)
 - The release or spill causes an immediate danger to human health or safety
 - The release or spill exceeds 25 gallons
 - The release or spill causes a sheen on surface water
 - The release or spill of any substance that exceeds the ground water quality standards of ARSD Chapter 74:54:01
 - The release or spill of any substance that exceeds the surface water quality standards of ARSD Chapter 74:51:01
 - The release or spill of any substance that harms or threatens to harm wildlife or aquatic life
 - The release or spill is required to be reported according to Superfund Amendments and Reauthorization Act (SARA) Title III List of Lists, Consolidated List of Chemicals Subject to Reporting Under the Emergency Planning and Community Right to Know Act, US Environmental Protection Agency.
- To report a release or spill, call SDDANR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central Standard Time). To report the release after hours, on weekends or holidays, call South Dakota Emergency Management at 605-773-3231. Reporting the release to SDDANR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, you must also contact local authorities to determine the local reporting requirements for releases. A written report of the unauthorized release of any regulated substance, including quantity discharged, and the location of the discharge will be sent to SDDANR within 14 days of the discharge.

PRIME CONTRACTOR

The “Department of Agriculture and Natural Resources – Contractor Certification Form” (SD Form – 2110LD) is to be executed by the Prime Contractor or his representative after the award of the contract. Work may not begin on the project until this section is signed.

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

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FILE: SWPPP		REVISED:	
PLOTTING DATE: 4/23/2026			

5.4: SWPPP CERTIFICATIONS

➤ Certification of Compliance with Federal, State, and Local Regulations

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

➤ City of Huron

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature (See the General Permit, Section 7.4 (1))

➤ Prime Contractor

This section is to be executed by the General Contractor after the award of the contract. This section may be executed any time there is a change in the Prime Contractor of the project.

I certify under penalty of law that this document and all attachments will be revised or maintained under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature



CONTACT INFORMATION

The following personnel are duly authorized representatives and have signatory authority for modifications made to the SWPPP:

➤ **Contractor Information:**

- Prime Contractor Name: _____
- Contractor Contact Name: _____
- Address: _____
- _____
- City: _____ State: _____ Zip: _____
- Office Phone: _____ Field: _____
- Cell Phone: _____ Fax: _____

➤ **Erosion Control Supervisor**

- Name: _____
- Address: _____
- _____
- City: _____ State: _____ Zip: _____
- Office Phone: _____ Field: _____
- Cell Phone: _____ Fax: _____

➤ **Consultant Project Engineer**

- Name: Derek Lee, PE
- Business Address: 1300 S. Highline Avenue
- Job Office Location: DGR Engineering
- City: Sioux Falls State: SD Zip: 57110
- Office Phone: (605) 339-4157 Field: N/A
- Cell Phone: (507) 370-3783 Fax: (605) 339-4175

➤ **SDDANR Contact Spill Reporting**

- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231

➤ **SDDANR Contact for Hazardous Materials.**

- (605) 773-3153

➤ **National Response Center Hotline**

- (800) 424-8802.

➤ **SDDANR Stormwater Contact Information**

- SDDANR Stormwater (800) 737-8676
- Surface Water Quality Program (605) 773-3351

5.5: REQUIRED SWPPP MODIFICATIONS

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➤ **5.5 (1): Conditions Requiring SWPPP Modification**

The SWPPP must be modified, including the site map(s), in response to any of the following conditions:

- When a new operator responsible for implementation of any part the SWPPP begins work on the site.
- When changes to the construction plans, sediment and erosion control measures, or any best management practices on site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered by inspections.
- To reflect areas on the site map where operational control has been transferred (including the date of the transfer) or has been covered under a new permit since initiating coverage under this general permit.
- If inspections by site staff, local officials, SDDANR, or U.S. EPA determine that SWPPP modifications are necessary for compliance with the Stormwater Permit.
- To reflect any revisions to applicable federal, state, or local requirements that affect the control measures implemented at the site.
- If approved by the Secretary, to reflect any changes in chemical water treatment systems or controls, including the use of a different water treatment chemical, age rates, different areas, or methods of application.

➤ **5.5 (2): Deadlines for SWPPP Modification**

Any required revisions to the SWPPP must be completed within 7 calendar days following any of the items listed above.

➤ **5.5 (3): Documentation of Modifications to the Plan**

All SWPPP modification records are required to be maintained showing the dates of when the modification occurred. The records must include the name of the person authorizing each change and a brief summary of all changes.

➤ **5.5 (4): Certification Requirements**

All modifications made to the SWPPP must be signed and certified as required in Section 7.4.

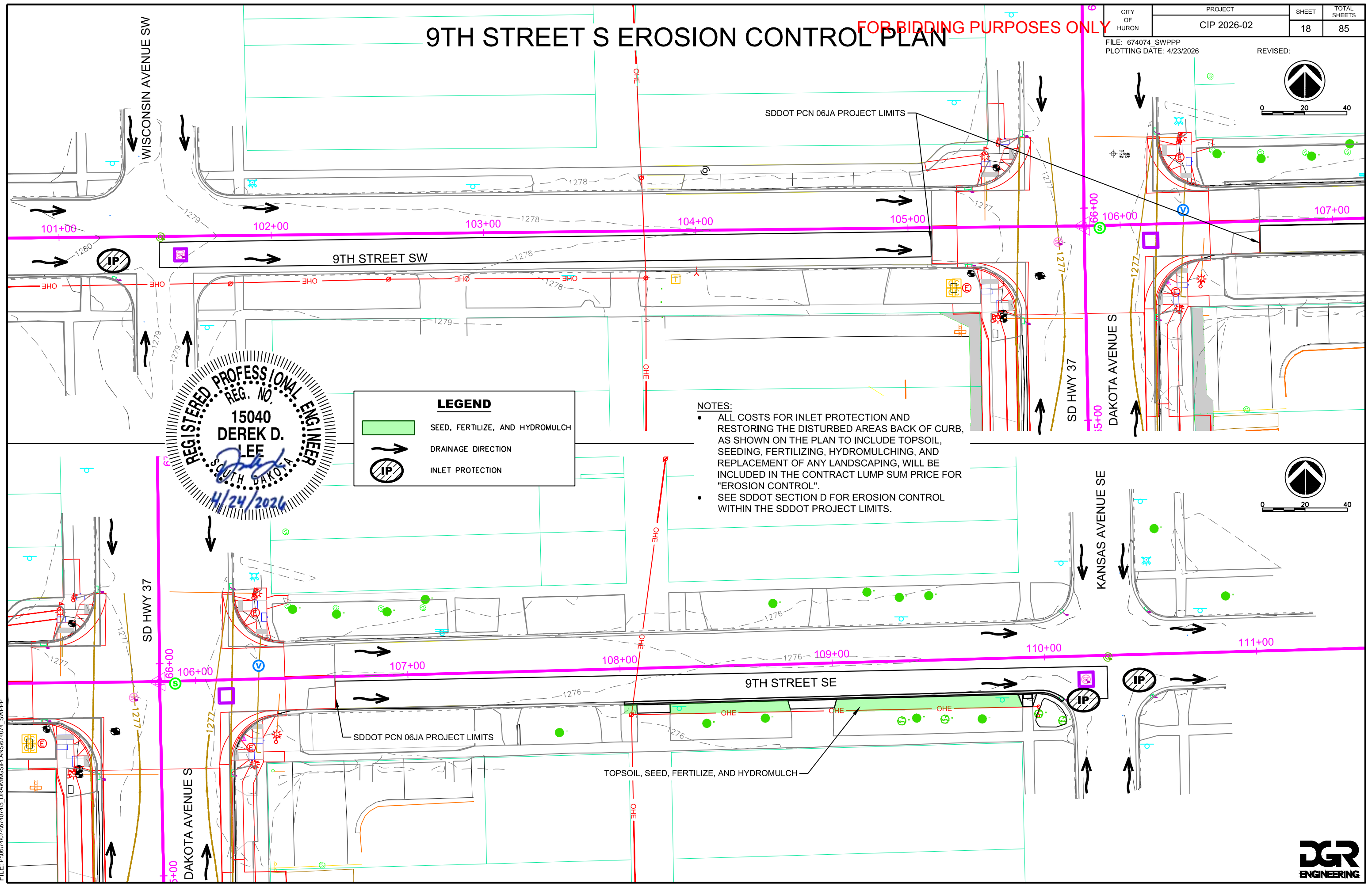
➤ **5.5 (5): Required Notice to Other Operators**

If there are multiple operators at the site, the Contractor's Erosion Control Supervisor must notify each operator that may be impacted by the change to the SWPPP within 24 hours.

When modifications as described above occur, the SWPPP will be modified to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The Consultant Project Engineer will modify the SWPPP and drawings on the plan will be modified to reflect the needed changes.



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HORIZONTAL ALIGNMENT DATA

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	19	85

FILE: HORIZONTAL ALIGNMENT
PLOTING DATE: 4/23/2026
REVISED:

SD 37 - MAINLINE

9th Street S

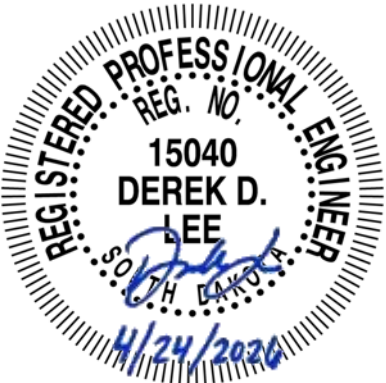
Type	Station			Northing	Easting
POB	10+00.00			190161.594	2435692.509
		TL= 285.47	N 0°48'41" W		
PI	12+85.47			190447.034	2435688.466
		TL = 570.41	N 1°11'24" W		
PI	18+55.88			191017.322	2435676.621
		TL =798.49	N 1°11'24" W		
PI	26+54.37			191815.639	2435660.039
		TL= 443.89	N 1°11'24" W		
PI	30+98.25			192259.428	2435650.821
		TL = 479.44	N 1°11'24" W		
PI	35+77.69			192738.764	2435640.865
		TL= 429.35	N 1°11'15" W		
PI	40+07.04			193168.023	2435631.967
		TL = 431.55	N 1°10'24" W		
PI	44+38.59			193599.482	2435623.131
		TL=430.54	N 1°10'24" W		
PI	48+69.13			194029.929	2435614.316
		TL = 430.73	N 1°10'24" W		
PI	52+99.87			194460.573	2435605.496
		TL= 430.93	N 1°10'24" W		
PI	57+30.80			194891.412	2435596.673
		TL = 430.58	N 1°10'24" W		
PI	61+61.37			195321.899	2435587.857
		TL = 430.19	N 1°10'24" W		
PI	65+91.56			195751.994	2435579.049
		TL = 406.35	N 0°32'11" W		
POE	69+97.91			196158.329	2435575.245

Type	Station			Northing	Easting
POB	100+00.00			195745.413	2434996.073
		TL= 583.01	N 89°21'12" E		
PI	105+83.01			195751.994	2435579.049
		TL= 605.61	N 88°24'17" E		
POE	111+88.63			195768.853	2436184.427

15th Street S

Type	Station			Northing	Easting
POB	200+00.00			193168.455	2435146.109
		TL= 442.09	N 89°39'45" E		
PI	204+42.09			193171.058	2435588.188
		TL= 72.37	S 28°03'57" E		
PI	205+30.11			193107.199	2435622.237
		TL=500.98	N 88°18'19" E		
POE	210+03.72			193122.014	2436122.998

The coordinates shown on this sheet are based on the South Dakota State Plane Coordinate System. North Zone (NAD 83/11) Geoid 18 CSF = 0.99995735; U.S. Survey Feet



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LEGEND

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CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	20	85

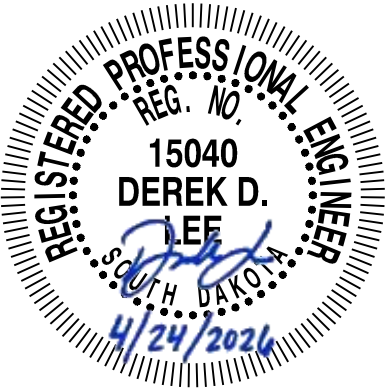
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PLOTING DATE: 4/24/2026

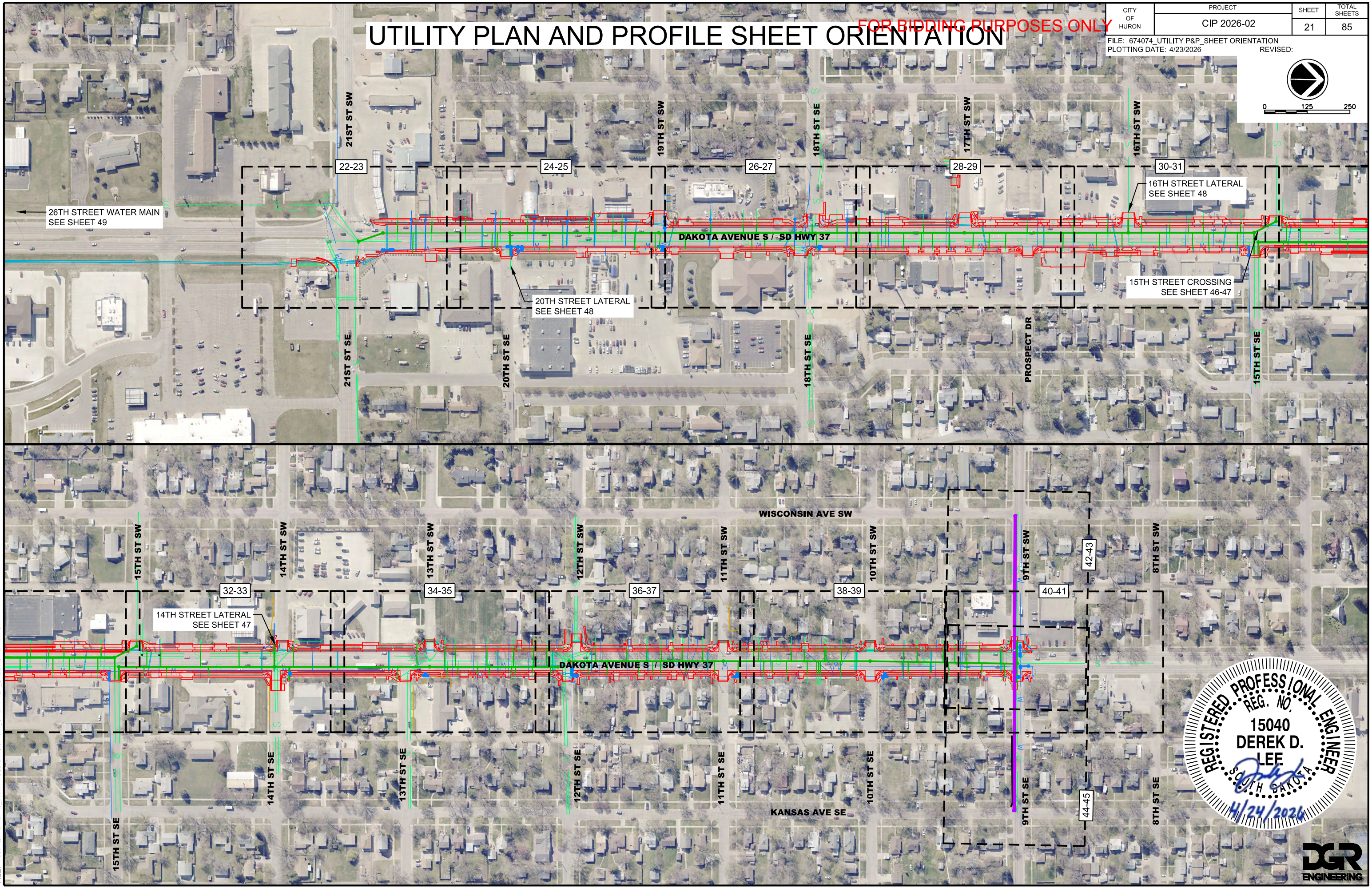
REVISED:

	EXISTING WATER MAIN
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER MAIN
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER
	EXISTING STORM SEWER MANHOLE
	UNDERGROUND GAS
	GAS VALVE OR GAS
	UNDERGROUND TELEPHONE
	TELEPHONE PEDESTAL OR VAULT
	UNDERGROUND TELEVISION
	TELEVISION PEDESTAL
	FIBER OPTIC
	UNDERGROUND ELECTRIC
	OVERHEAD UTILITY
	GUY POLE
	GUY WIRE
	POWER POLE
	POWER POLE WITH LIGHT
	POWER POLE WITH TRANSFORMER
	POWER POLE WITH LIGHT AND TRANSFORMER
	TRAFFIC SIGNAL POLE
	ELECTRIC BOX OR VAULT
	ELECTRICAL MANHOLE
	ELECTRICAL METER

	FENCE
	FENCE POST
	RETAINING WALL
	SIGN
	CONIFEROUS TREE
	DECIDUOUS TREE
	STUMP
	TREE LINE
	FLAG POLE
	MAILBOX
	ROCK PILE
	PROPERTY LINE
	RIGHT OF WAY LINE
	PROPERTY PIN
	BENCHMARK
	CONTROL POINT
	DRAINAGE ARROW

	PROPOSED WATER MAIN
	PROPOSED ELBOW
	PROPOSED CAP
	PROPOSED CROSS
	PROPOSED CURB STOP
	PROPOSED HYDRANT
	PROPOSED REDUCER
	PROPOSED SLEEVE
	PROPOSED TEE
	PROPOSED PIPE TRANSITION COUPLING
	PROPOSED VALVE
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY MANHOLE
	PROPOSED STORM SEWER (CITY OF HURON)
	PROPOSED JUNCTION BOX (CITY OF HURON)
	PROPOSED STORM SEWER (BEAD 06JA)
	PROPOSED JUNCTION BOX (BEAD 06JA)
	PROPOSED INLET (BEAD 06JA)
	REMOVE PIPE
	ABANDON PIPE





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UTILITY PLAN AND PROFILE SHEET ORIENTATION

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 21	TOTAL SHEETS 85
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FILE: 674074_UTILITY P&P_SHEET ORIENTATION
PLOTING DATE: 4/23/2026
REVISED:



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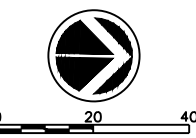


SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	22	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 5/14/2026
REVISED:



REMOVE SEWER PIPE

Sta. 13+21.83-13.77' RT to Sta. 13+44.11-13.76' RT
22 LF - Remove Sewer Pipe

Sta. 13+16.53-6.48' RT to Sta. 13+21.83-13.77' RT
7 LF - Remove Sewer Pipe

Sta. 13+20.71-20.70' RT to Sta. 13+21.83-13.77' RT
7 LF - Remove Sewer Pipe

REMOVE SANITARY MANHOLE

Sta. 13+21.83-13.77' RT

INSTALL SANITARY SEWER

Sta. 13+16.53-6.48' RT
1 EA - 10" Pipe Coupling
1 EA - Connect to Existing Sewer Main

Sta. 13+16.53-6.48' RT to Sta. 13+21.83-13.77' RT
7 LF - 10" Sewer Pipe

Sta. 13+20.71-20.70' RT to Sta. 13+21.83-13.77' RT
7 LF - 6" Sewer Pipe

1 EA - Reconnect Sewer Service

INSTALL SANITARY SEWER

Sta. 13+21.83-13.77' RT
1 EA - 48" PVC Lined Manhole
1 EA - 6" Manhole Boot
1 EA - 10" Manhole Boot
1 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

Sta. 13+21.83-13.77' RT to Sta. 13+92.88-11.00' LT
75 LF - 12" Sewer Pipe

Sta. 13+92.88-11.00' LT
1 EA - 48" PVC Lined Manhole
2 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

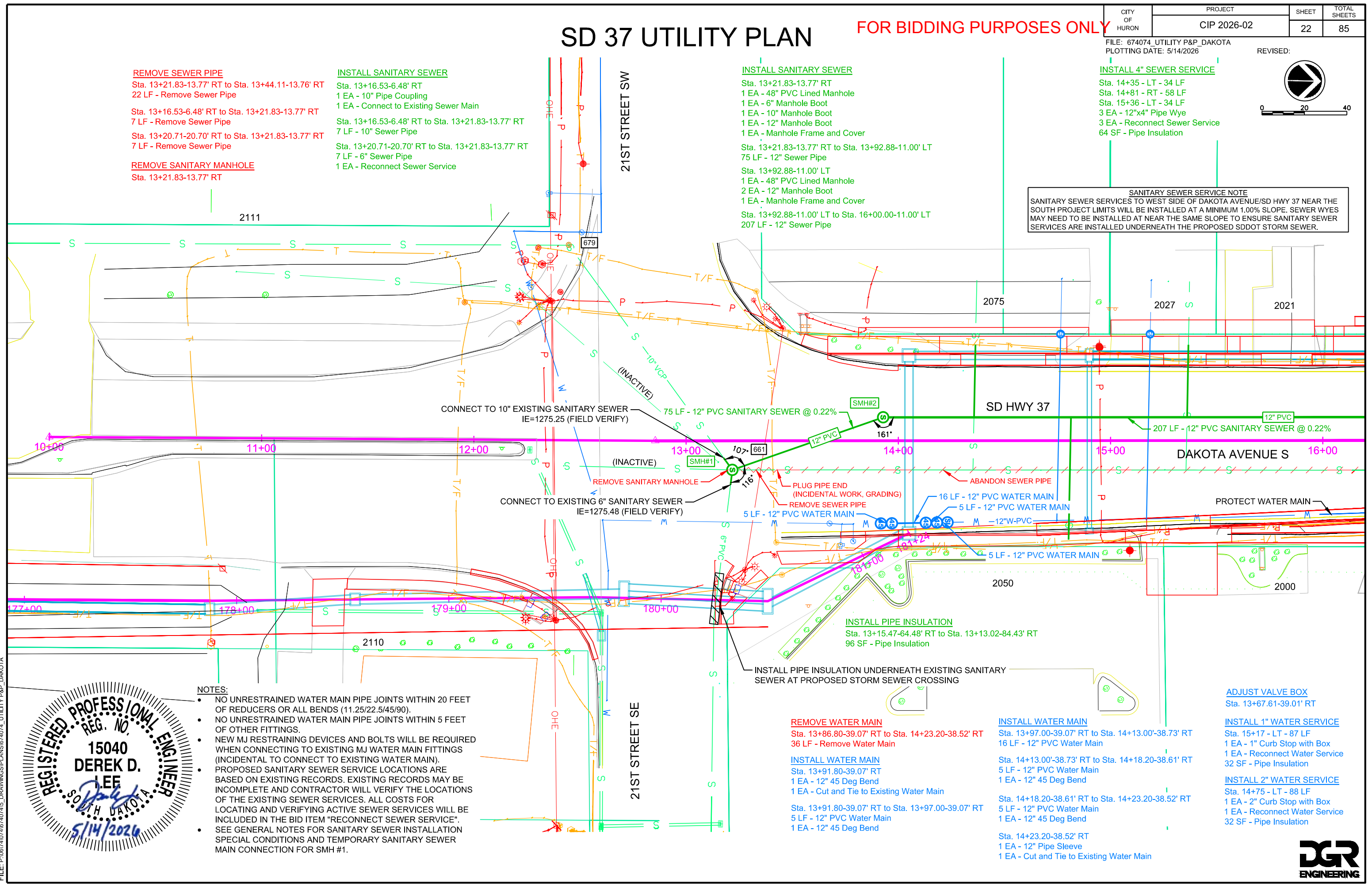
Sta. 13+92.88-11.00' LT to Sta. 16+00.00-11.00' LT
207 LF - 12" Sewer Pipe

INSTALL 4" SEWER SERVICE

Sta. 14+35 - LT - 34 LF
Sta. 14+81 - RT - 58 LF
Sta. 15+36 - LT - 34 LF
3 EA - 12"x4" Pipe Wye
3 EA - Reconnect Sewer Service
64 SF - Pipe Insulation

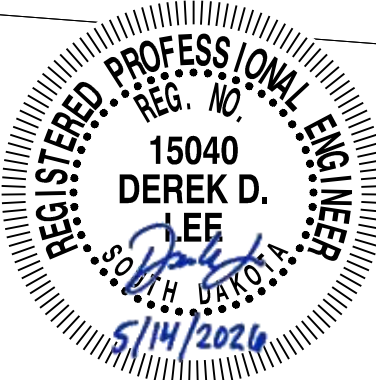
SANITARY SEWER SERVICE NOTE

SANITARY SEWER SERVICES TO WEST SIDE OF DAKOTA AVENUE/SD HWY 37 NEAR THE SOUTH PROJECT LIMITS WILL BE INSTALLED AT A MINIMUM 1.00% SLOPE. SEWER WYES MAY NEED TO BE INSTALLED AT NEAR THE SAME SLOPE TO ENSURE SANITARY SEWER SERVICES ARE INSTALLED UNDERNEATH THE PROPOSED SDDOT STORM SEWER.



NOTES:

- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
- NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
- PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".
- SEE GENERAL NOTES FOR SANITARY SEWER INSTALLATION SPECIAL CONDITIONS AND TEMPORARY SANITARY SEWER MAIN CONNECTION FOR SMH #1.



REMOVE WATER MAIN

Sta. 13+86.80-39.07' RT to Sta. 14+23.20-38.52' RT
36 LF - Remove Water Main

INSTALL WATER MAIN

Sta. 13+91.80-39.07' RT
1 EA - 12" 45 Deg Bend
1 EA - Cut and Tie to Existing Water Main

Sta. 13+91.80-39.07' RT to Sta. 13+97.00-39.07' RT
5 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

INSTALL WATER MAIN

Sta. 13+97.00-39.07' RT to Sta. 14+13.00'-38.73' RT
16 LF - 12" PVC Water Main

Sta. 14+13.00'-38.73' RT to Sta. 14+18.20-38.61' RT
5 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 14+18.20-38.61' RT to Sta. 14+23.20-38.52' RT
5 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 14+23.20-38.52' RT
1 EA - 12" Pipe Sleeve
1 EA - Cut and Tie to Existing Water Main

ADJUST VALVE BOX

Sta. 13+67.61-39.01' RT

INSTALL 1" WATER SERVICE

Sta. 15+17 - LT - 87 LF
1 EA - 1" Curb Stop with Box
1 EA - Reconnect Water Service
32 SF - Pipe Insulation

INSTALL 2" WATER SERVICE

Sta. 14+75 - LT - 88 LF
1 EA - 2" Curb Stop with Box
1 EA - Reconnect Water Service
32 SF - Pipe Insulation

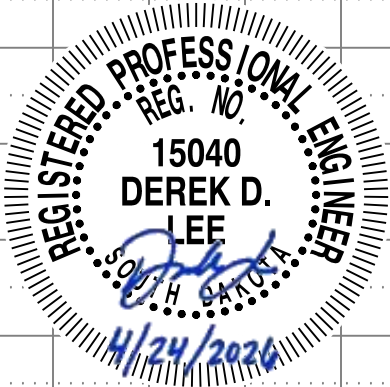
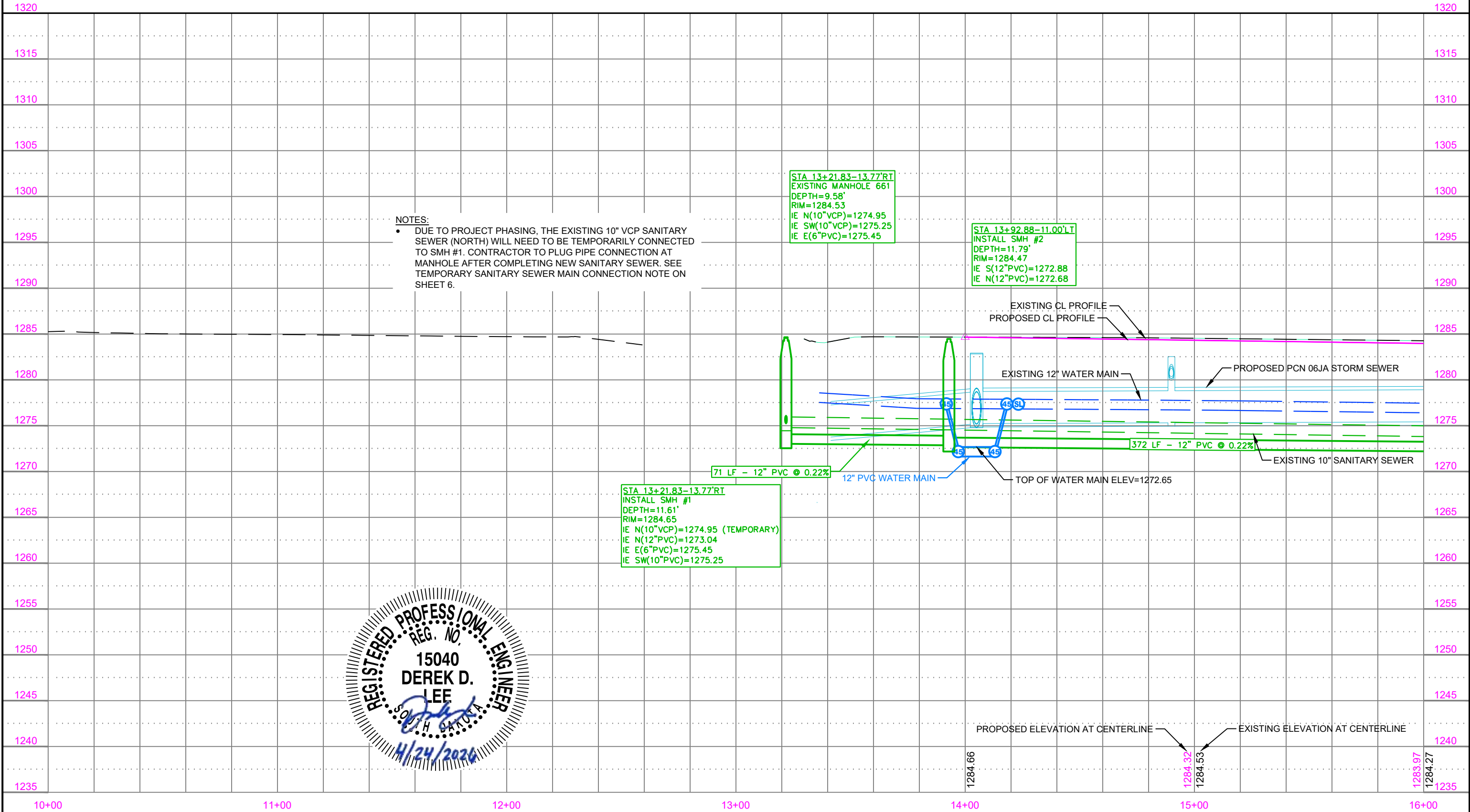


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FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	23	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:





19TH STREET SW



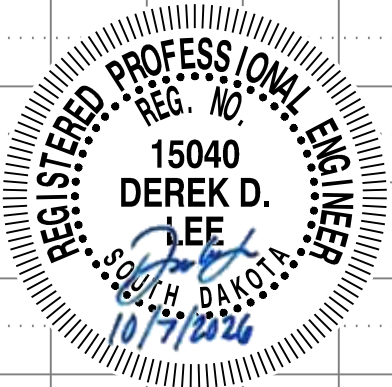
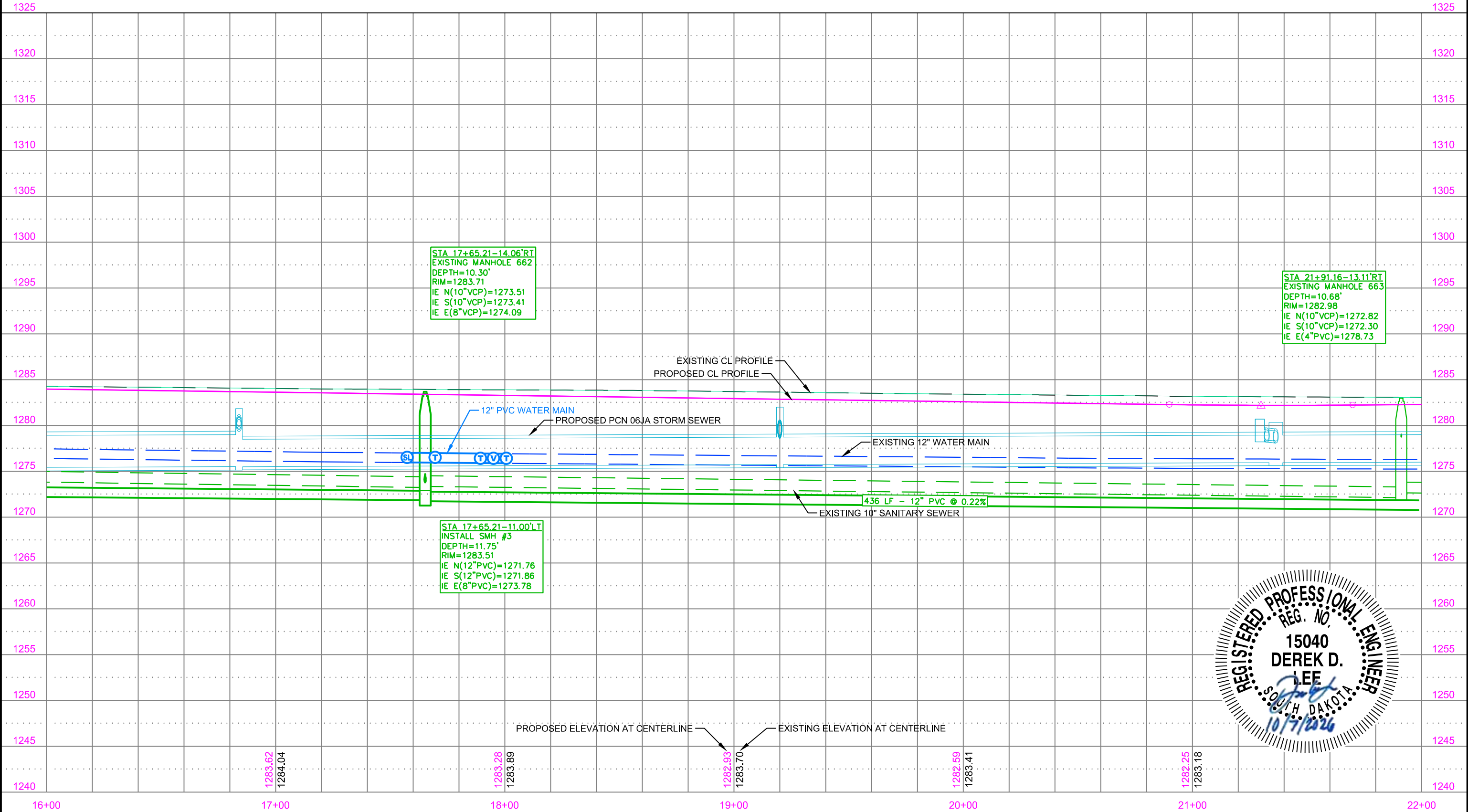
DGR
ENGINEERING

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	25	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 10/7/2026
REVISED: 10/07/2026 DDL

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REMOVE WATER MAIN
Sta. 22+19.10-58.61' LT to Sta. 22+19.41-5.51' LT
53 LF - Remove Water Main

INSTALL WATER MAIN
Sta. 22+19.10-58.61' LT
1 EA - 12" Pipe Sleeve
1 EA - Cut and Tie to Existing Water Main

Sta. 22+19.10-58.61' LT to Sta. 22+19.24-44.78' LT
14 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 22+19.24-44.78' LT to Sta. 22+19.25-42.67' LT
3 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 22+19.25-42.67' LT to Sta. 22+19.22-26.67' LT
16 LF - 12" PVC Water Main

Sta. 22+19.22-26.67' LT to Sta. 22+19.33-24.67' LT
3 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 22+19.33-24.67' LT to Sta. 22+19.39-10.84' LT
14 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend
1 EA - 12" Gate Valve with Box
1 EA - Cut and Tie to Existing Water Main
1 EA - Verify Utility

REMOVE SANITARY SEWER PIPE
Sta. 26+15.83-13.65' RT to Sta. 26+25.93-13.65' RT
10 LF - Remove Sewer Pipe

REMOVE SANITARY MANHOLE
Sta. 26+20.85-13.69' RT

INSTALL SANITARY SEWER
Sta. 22+00.00-11.00' LT to Sta. 22+01.42-11.00' LT
1 LF - 12" Sewer Pipe

Sta. 22+01.42-11.00' LT
1 EA - 48" PVC Lined Manhole
2 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

Sta. 22+01.42-11.00' LT to Sta. 26+17.94-11.00' LT
417 LF - 12" Sewer Pipe

INSTALL SANITARY SEWER
Sta. 26+17.94-11.00' LT
1 EA - 48" PVC Lined Manhole
2 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

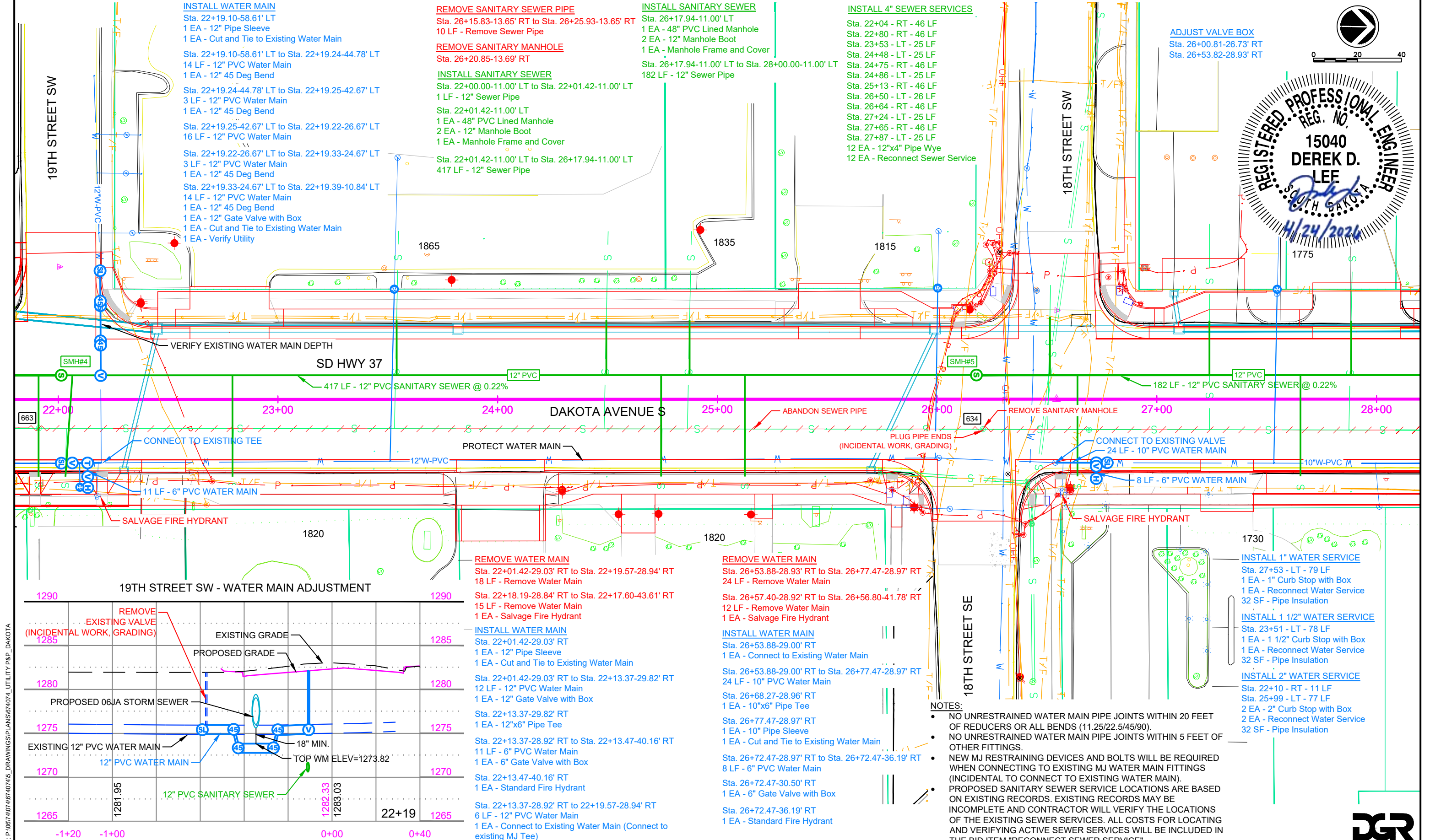
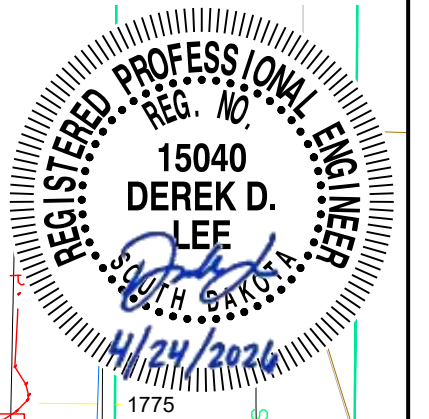
Sta. 26+17.94-11.00' LT to Sta. 28+00.00-11.00' LT
182 LF - 12" Sewer Pipe

INSTALL 4" SEWER SERVICES
Sta. 22+04 - RT - 46 LF
Sta. 22+80 - RT - 46 LF
Sta. 23+53 - LT - 25 LF
Sta. 24+48 - LT - 25 LF
Sta. 24+75 - RT - 46 LF
Sta. 24+86 - LT - 25 LF
Sta. 25+13 - RT - 46 LF
Sta. 26+50 - LT - 26 LF
Sta. 26+64 - RT - 46 LF
Sta. 27+24 - LT - 25 LF
Sta. 27+65 - RT - 46 LF
Sta. 27+87 - LT - 25 LF
12 EA - 12"x4" Pipe Wye
12 EA - Reconnect Sewer Service

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	26	85

FILE: 674074 UTILITY P&P_DAKOTA
PLOT DATE: 4/24/2026

REVISED:

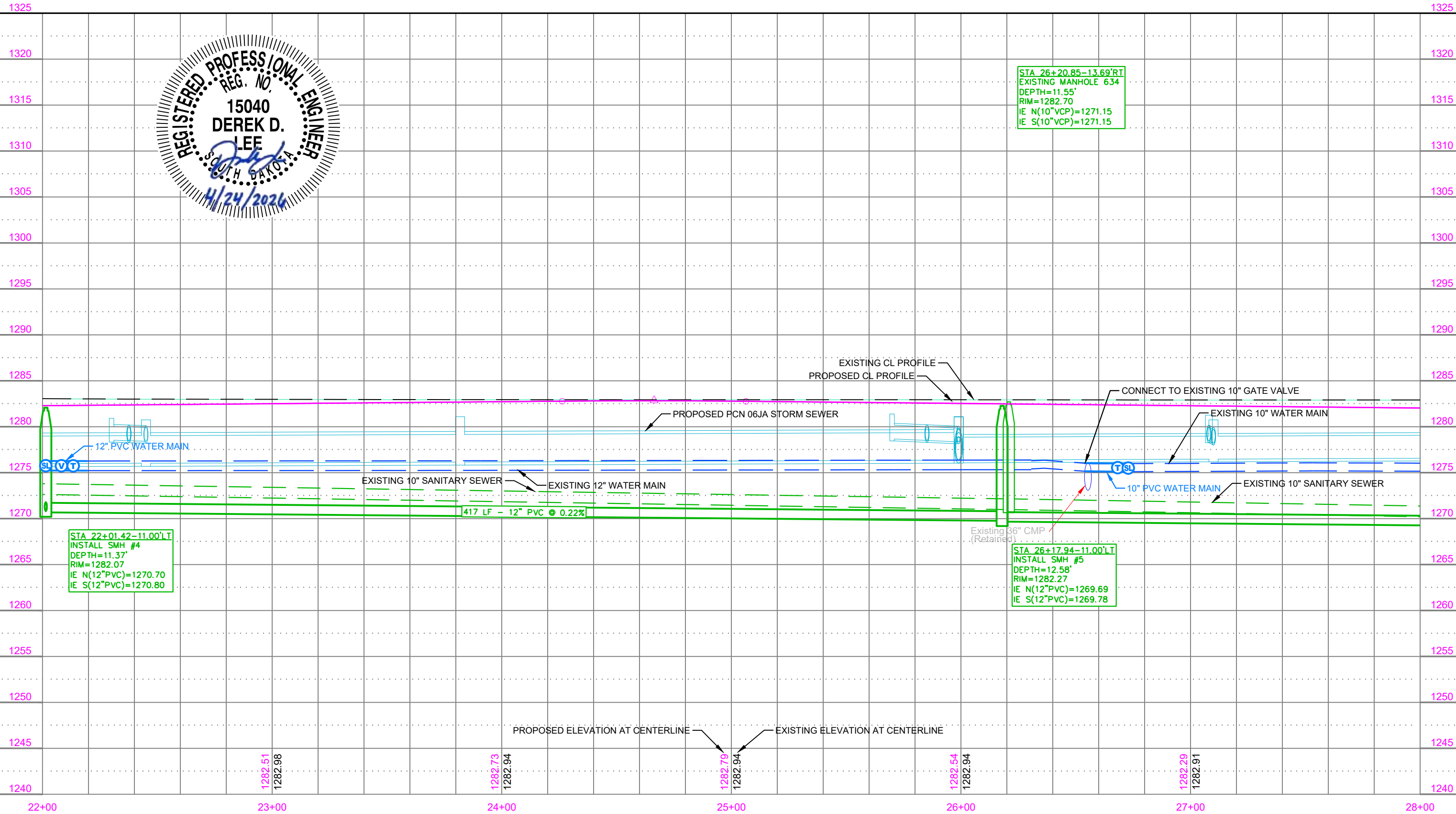
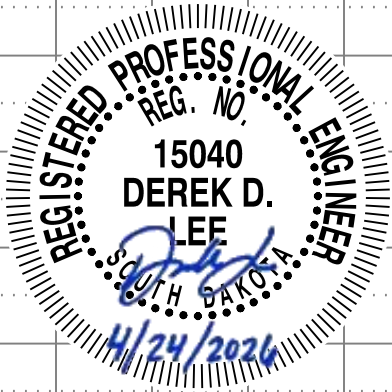


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CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	27	85

FILE: 674074 UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:



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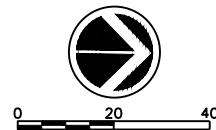
SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 28	TOTAL SHEETS 85
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FILE: 674074 UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026

REVISED:



REMOVE SANITARY SEWER PIPE

Sta. 30+92.61-14.62' RT to Sta. 31+02.61-14.62' RT
10 LF - Remove Sewer Pipe

REMOVE SANITARY MANHOLE

Sta. 30+97.60-14.72' RT

INSTALL SANITARY SEWER

Sta. 28+00.00-11.00' LT to Sta. 30+97.60-11.00' LT
298 LF - 12" Sewer Pipe

Sta. 30+97.60-11.00' LT

1 EA - 48" PVC Lined Manhole
2 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

Sta. 30+97.60-11.00' LT to Sta. 34+00-11.00' LT
302 LF - 12" Sewer Pipe

INSTALL 4" SEWER SERVICES

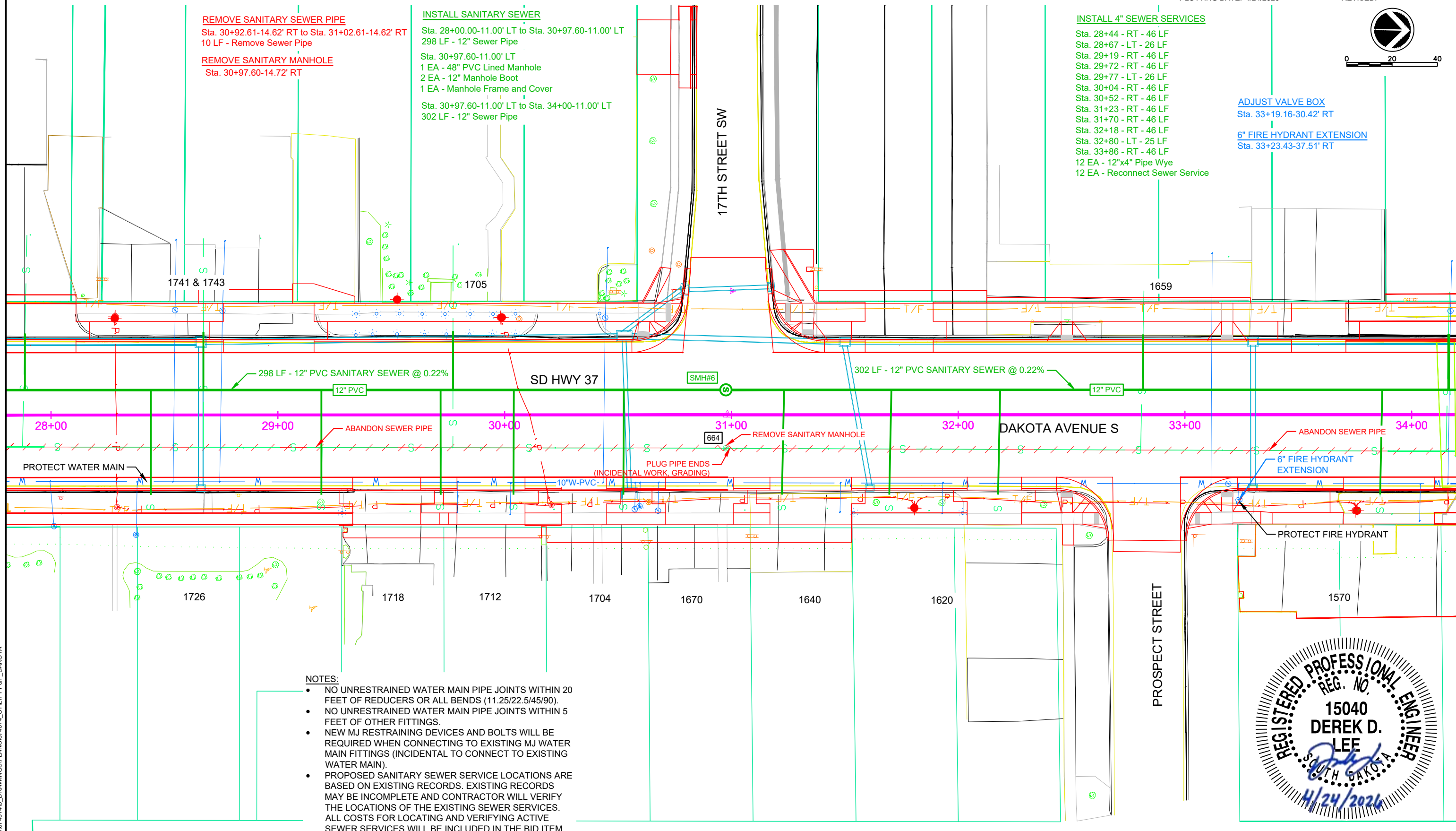
Sta. 28+44 - RT - 46 LF
Sta. 28+67 - LT - 26 LF
Sta. 29+19 - RT - 46 LF
Sta. 29+72 - RT - 46 LF
Sta. 29+77 - LT - 26 LF
Sta. 30+04 - RT - 46 LF
Sta. 30+52 - RT - 46 LF
Sta. 31+23 - RT - 46 LF
Sta. 31+70 - RT - 46 LF
Sta. 32+18 - RT - 46 LF
Sta. 32+80 - LT - 25 LF
Sta. 33+86 - RT - 46 LF
12 EA - 12"x4" Pipe Wye
12 EA - Reconnect Sewer Service

ADJUST VALVE BOX

Sta. 33+19.16-30.42' RT

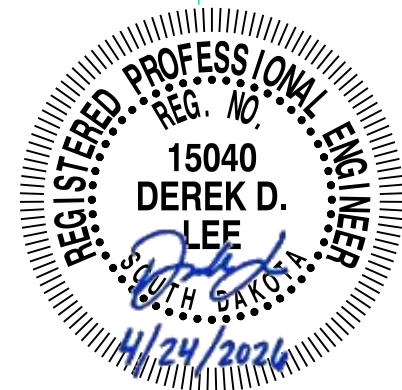
6" FIRE HYDRANT EXTENSION

Sta. 33+23.43-37.51' RT



NOTES:

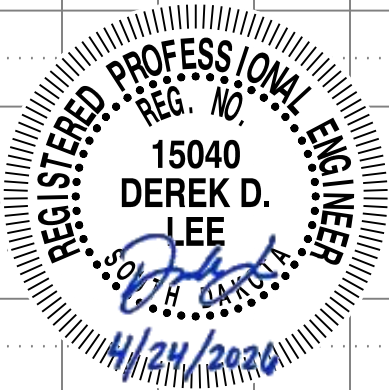
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
- NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
- PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".



FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	29	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:



STA 30+97.60-14.72'RT
EXISTING MANHOLE 664
DEPTH=13.22'
RIM=1282.30
IE N(10"VCP)=1269.09
IE S(10"VCP)=1269.09

STA 30+97.60-11.00'LT
INSTALL SMH #6
DEPTH=12.77'
RIM=1281.31
IE N(12"PVC)=1268.54
IE S(12"PVC)=1268.64

EXISTING CL PROFILE
PROPOSED CL PROFILE
PROPOSED PCN 06JA STORM SEWER

EXISTING 10" SANITARY SEWER

EXISTING 10" SANITARY SEWER

480 LF - 12" PVC @ 0.22%

480 LF - 12" PVC @ 0.22%

PROPOSED ELEVATION AT CENTERLINE
EXISTING ELEVATION AT CENTERLINE

FILE: P:\0674074\674074_5_DRAWINGS\PLANS\674074_UTILITY P&P_DAKOTA



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SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	30	85

FILE: 674074 UTILITY P&P_DAKOTA
PLOT DATE: 4/24/2026

REVISED:



REMOVE SANITARY MANHOLE

Sta. 35+77.55-16.85' RT
Sta. 39+46.66-16.38' RT
Sta. 39+58.88-16.80' RT

REMOVE SANITARY SEWER PIPE

Sta. 35+72.60-16.76' RT to Sta. 35+82.60-16.76' RT
10 LF - Remove Sewer Pipe

Sta. 35+77.55-17.10' RT to Sta. 35+77.87-50.39' LT
67 LF - Remove Sewer Pipe

Sta. 39+41.62-16.80' RT to Sta. 39+58.88-16.80' RT
17 LF - Remove Sewer Pipe

Sta. 39+58.88-16.80' RT to Sta. 40+00-16.41' RT
41 LF - Remove Sewer Pipe

Sta. 39+58.88-16.80' RT to Sta. 39+59.24-53.94' RT
37 LF - Remove Sewer Pipe

Sta. 39+46.66-16.37' RT to Sta. 39+51.70-11.80' RT
5 LF - Remove Sewer Pipe

INSTALL SANITARY SEWER

Sta. 34+00.00-11.00' LT to Sta. 35+77.56-11.00' LT
178 LF - 12" Sewer Pipe

Sta. 35+77.56-11.00' LT
1 EA - 48" PVC Lined Manhole
3 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

Sta. 35+77.56-11.00' LT to Sta. 35+77.79-50.55' LT
40 LF - 12" Sewer Pipe
1 EA - 12" Pipe Coupling
1 EA - Connect to Existing Sewer Main

INSTALL SANITARY SEWER

Sta. 35+77.56-11.00' LT to Sta. 39+46.67-11.00' LT
369 LF - 12" Sewer Pipe

Sta. 39+46.67-11.00' LT
1 EA - 60" PVC Lined Manhole
1 EA - 12" Manhole Boot
2 EA - 24" Manhole Boot
1 EA - Manhole Frame and Cover

INSTALL SANITARY SEWER

Sta. 39+58.88-16.50' RT
1 EA - 48" PVC Lined Manhole
2 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

Sta. 39+58.88-16.50' RT to Sta. 40+00.00-16.50' RT
41 LF - 12" Sewer Pipe

Sta. 39+58.88-16.50' RT to Sta. 39+59.24-53.94' RT
37 LF - 12" Sewer Pipe
2 EA - 12" Pipe Coupling
1 EA - Connect to Existing Sewer Main

INSTALL 4" SEWER SERVICES

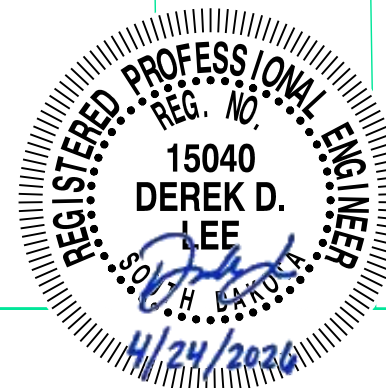
Sta. 34+16 - LT - 24 LF
Sta. 34+84 - RT - 46 LF
Sta. 35+17 - LT - 24 LF
Sta. 35+59 - RT - 46 LF
Sta. 36+16 - LT - 24 LF
Sta. 36+69 - RT - 46 LF
Sta. 36+99 - LT - 24 LF
Sta. 37+54 - LT - 24 LF
Sta. 37+66 - RT - 46 LF
Sta. 37+98 - LT - 28 LF
Sta. 38+14 - RT - 46 LF
Sta. 38+97 - RT - 46 LF
Sta. 39+07 - LT - 28 LF
13 EA - 12"x4" Pipe Wye
13 EA - Reconnect Sewer Service

ADJUST VALVE BOX

Sta. 39+30.18-50.37' RT
Sta. 39+84.76-30.84' RT

NOTES:

- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
- NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
- PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".



REMOVE WATER MAIN

Sta. 39+30.38-30.43' RT to Sta. 39+30.28-55.11' RT
25 LF - Remove Water Main

INSTALL WATER MAIN

Sta. 39+30.38-30.43' RT
1 EA - Connect to Existing Water Main (Connect to Existing MJ Tee)

Sta. 39+30.38-30.43' RT to Sta. 39+30.28-55.11' RT
25 LF - 8" PVC Water Main

Sta. 39+30.33-33.48' RT
1 EA - 8" Gate Valve with Box

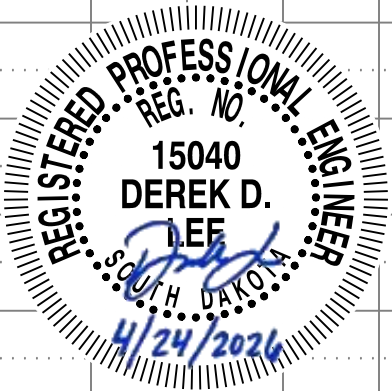
Sta. 39+30.28-55.11' RT
1 EA - 8" Pipe Sleeve
1 EA - Cut and Tie to Existing Water Main



FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 31	TOTAL SHEETS 85
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FILE: 674074 UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:



STA 35+77.55-16.85'RT
EXISTING MANHOLE 665
DEPTH=14.60'
RIM=1281.91
IE N(10"VCP)=1267.37
IE W(12"VCP)=1267.31
IE S(10"VCP)=1267.47

STA 39+46.66-16.38'RT
EXISTING MANHOLE 666
DEPTH=15.44'
RIM=1281.91
IE N(12"VCP)=1266.63
IE E(24"VCP)=1266.47
IE S(10"VCP)=1266.89
IE NW(24"PVC)=1266.63

STA 39+58.88-16.80'RT
EXISTING MANHOLE 667
DEPTH=15.20'
RIM=1281.98
IE N(8"VCP)=1267.48
IE S(12"VCP)=1266.94
IE E(12"VCP)=1266.78

STA 35+77.65-11.00'LT
INSTALL SMH #7
DEPTH=14.15'
RIM=1281.53
IE N(12"PVC)=1267.39
IE S(12"PVC)=1267.49
IE W(12"PVC)=1267.40

STA 39+46.44-11.00'LT
INSTALL SMH #8
DEPTH=14.47'
RIM=1280.94
IE S(12"PVC)=1266.58
IE E(24"PVC)=1266.48
IE NW(24"PVC)=1266.58

STA 39+58.88-16.50'RT
INSTALL SMH #9
DEPTH=14.31'
RIM=1281.09
IE N(12"PVC)=1266.89
IE E(12"PVC)=1266.79

- NOTES:
- EXISTING PIPE CONNECTION BETWEEN THE EXISTING MANHOLES AT 15TH STREET WILL BE REMOVED.
 - THE PROPOSED MANHOLES WILL NOT BE CONNECTED WITH A PIPE BETWEEN THE MANHOLES (SMH#7 AND SMH#8).

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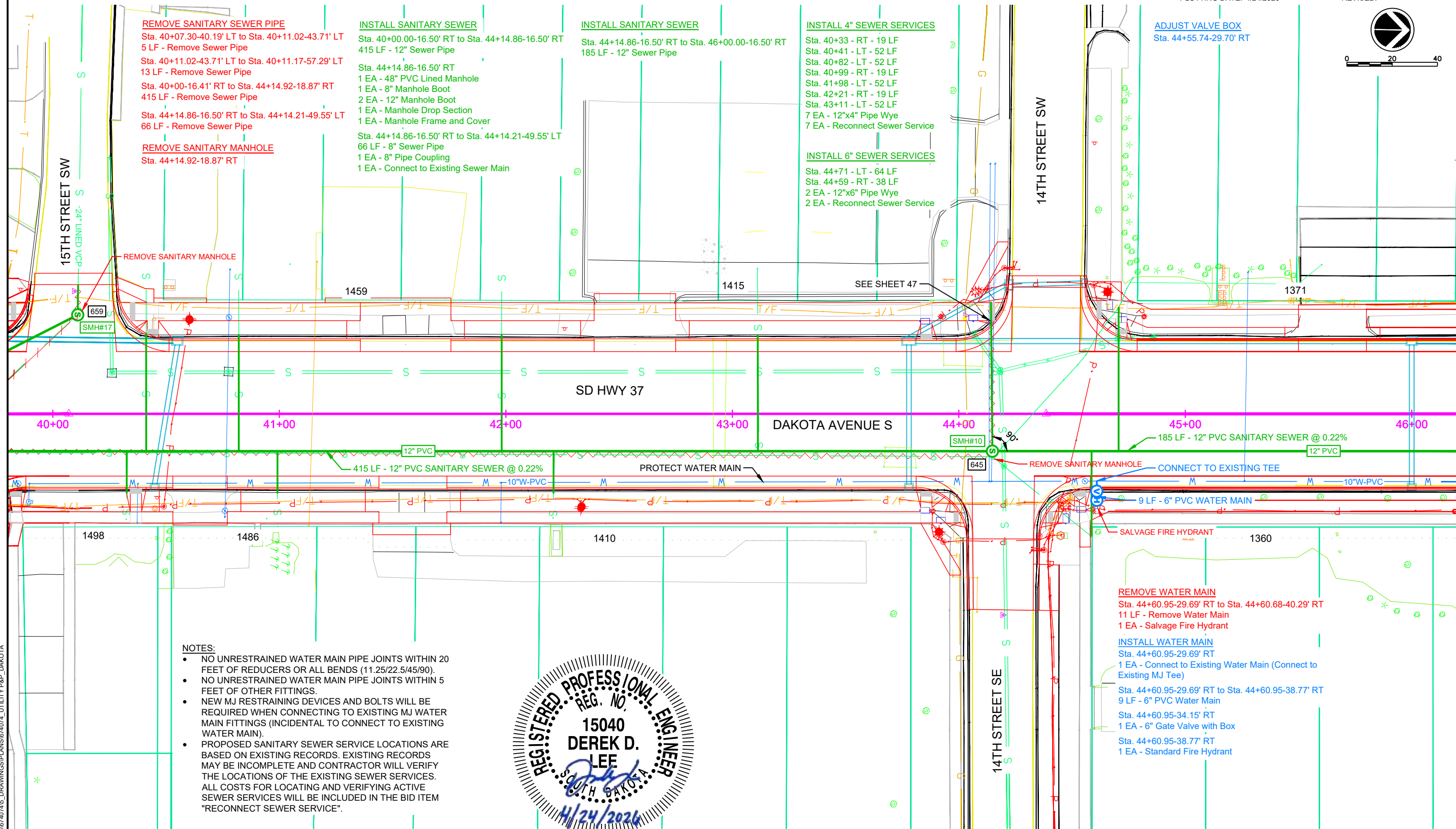
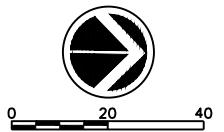
SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 32	TOTAL SHEETS 85
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FILE: 674074 UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026

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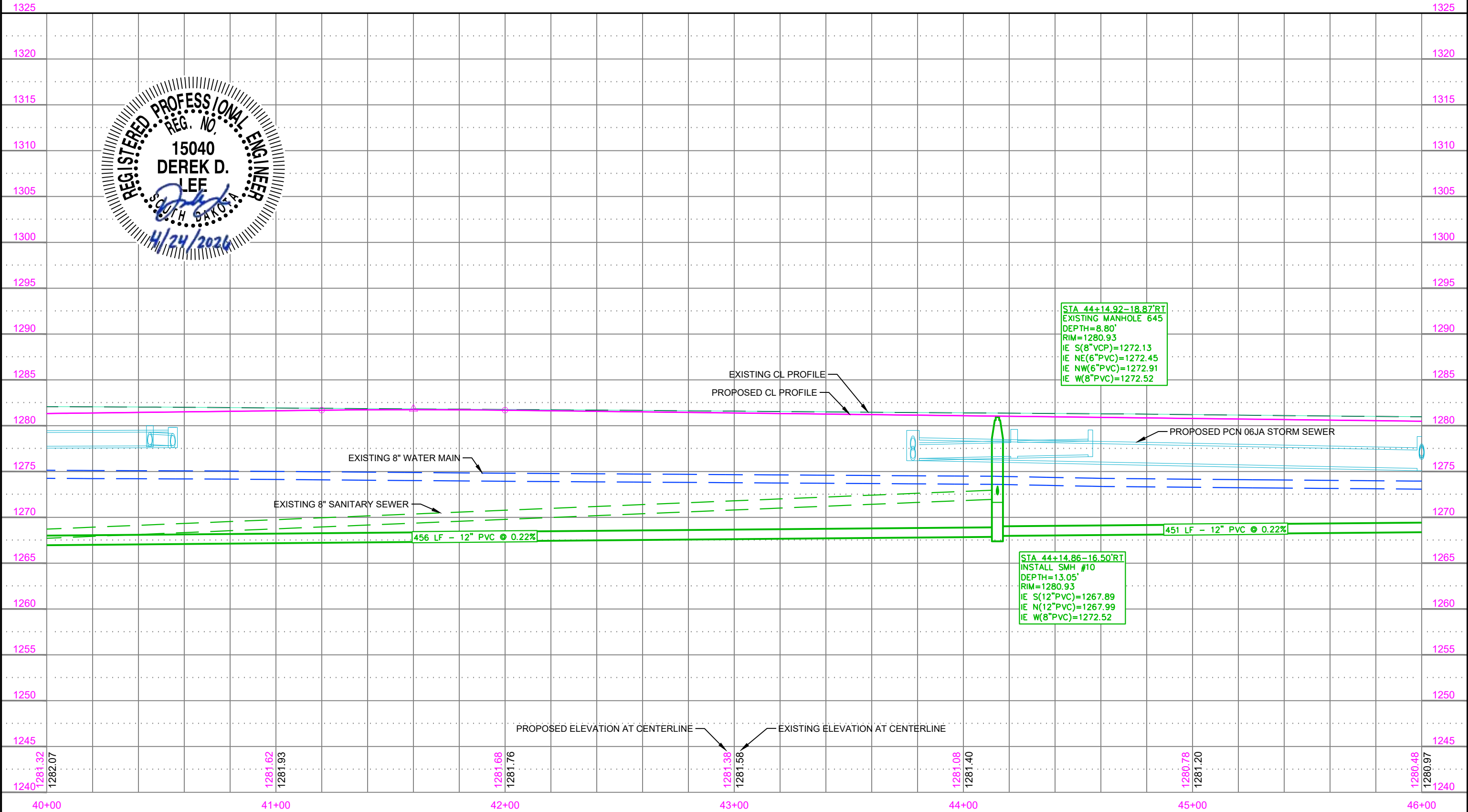
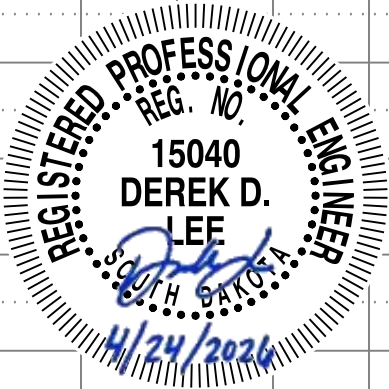


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CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	33	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:



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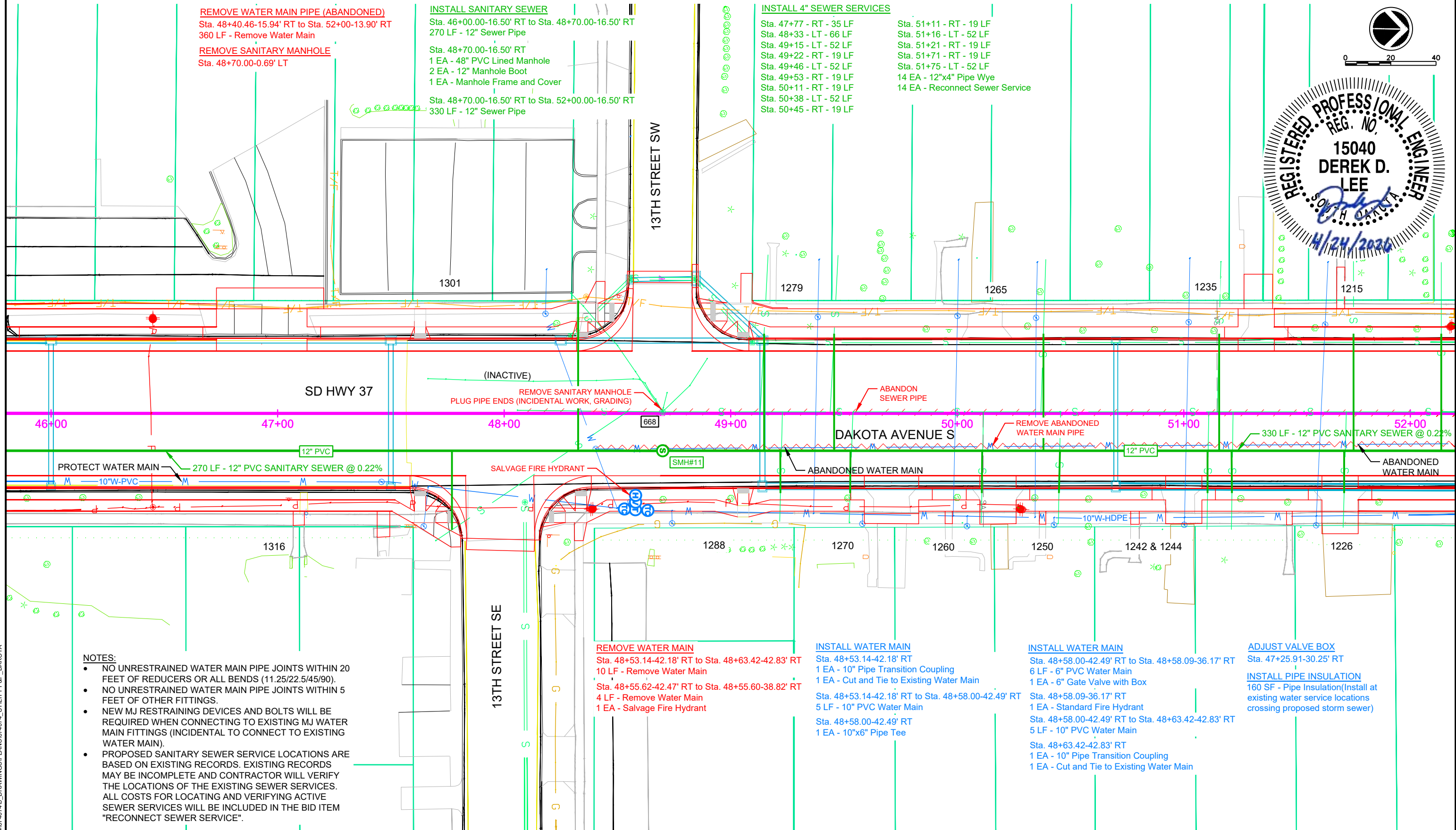
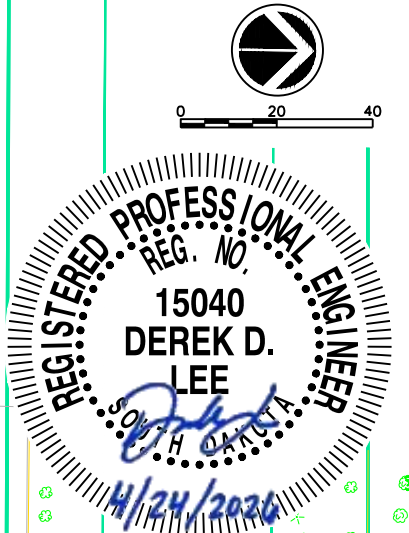
SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 34	TOTAL SHEETS 85
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FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026

REVISED:



NOTES:

- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
- NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
- PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".

REMOVE WATER MAIN

- Sta. 48+53.14-42.18' RT to Sta. 48+63.42-42.83' RT
10 LF - Remove Water Main
- Sta. 48+55.62-42.47' RT to Sta. 48+55.60-38.82' RT
4 LF - Remove Water Main
- 1 EA - Salvage Fire Hydrant

INSTALL WATER MAIN

- Sta. 48+53.14-42.18' RT
1 EA - 10" Pipe Transition Coupling
- 1 EA - Cut and Tie to Existing Water Main
- Sta. 48+53.14-42.18' RT to Sta. 48+58.00-42.49' RT
5 LF - 10" PVC Water Main
- Sta. 48+58.00-42.49' RT
1 EA - 10"x6" Pipe Tee

INSTALL WATER MAIN

- Sta. 48+58.00-42.49' RT to Sta. 48+58.09-36.17' RT
6 LF - 6" PVC Water Main
- 1 EA - 6" Gate Valve with Box
- Sta. 48+58.09-36.17' RT
1 EA - Standard Fire Hydrant
- Sta. 48+58.00-42.49' RT to Sta. 48+63.42-42.83' RT
5 LF - 10" PVC Water Main
- Sta. 48+63.42-42.83' RT
1 EA - 10" Pipe Transition Coupling
- 1 EA - Cut and Tie to Existing Water Main

ADJUST VALVE BOX

- Sta. 47+25.91-30.25' RT

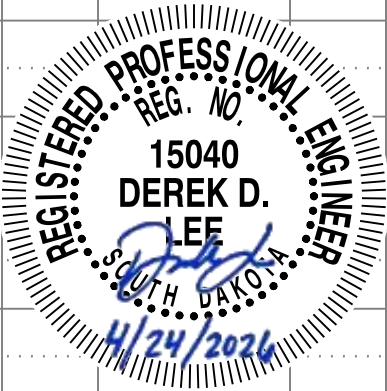
INSTALL PIPE INSULATION

- 160 SF - Pipe Insulation (Install at existing water service locations crossing proposed storm sewer)

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	35	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:



SIA 48+70.00-0.69'LI
EXISTING MANHOLE 668
DEPTH=8.20'
RIM=1280.07
IE N(8"VCP)=1271.89
IE S(8"VCP)=1271.87

SIA 48+70.00-16.50'RI
INSTALL SMH #11
DEPTH=10.58'
RIM=1279.56
IE S(12"PVC)=1268.99
IE N(12"PVC)=1269.09

FILE: P:\0674074\674074_5_DRAWINGS\PLANS\674074_UTILITY P&P_DAKOTA



FILE: P:\0674074\DRAWINGS\PLANS\674074_UTILITY P&P_DAKOTA

SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

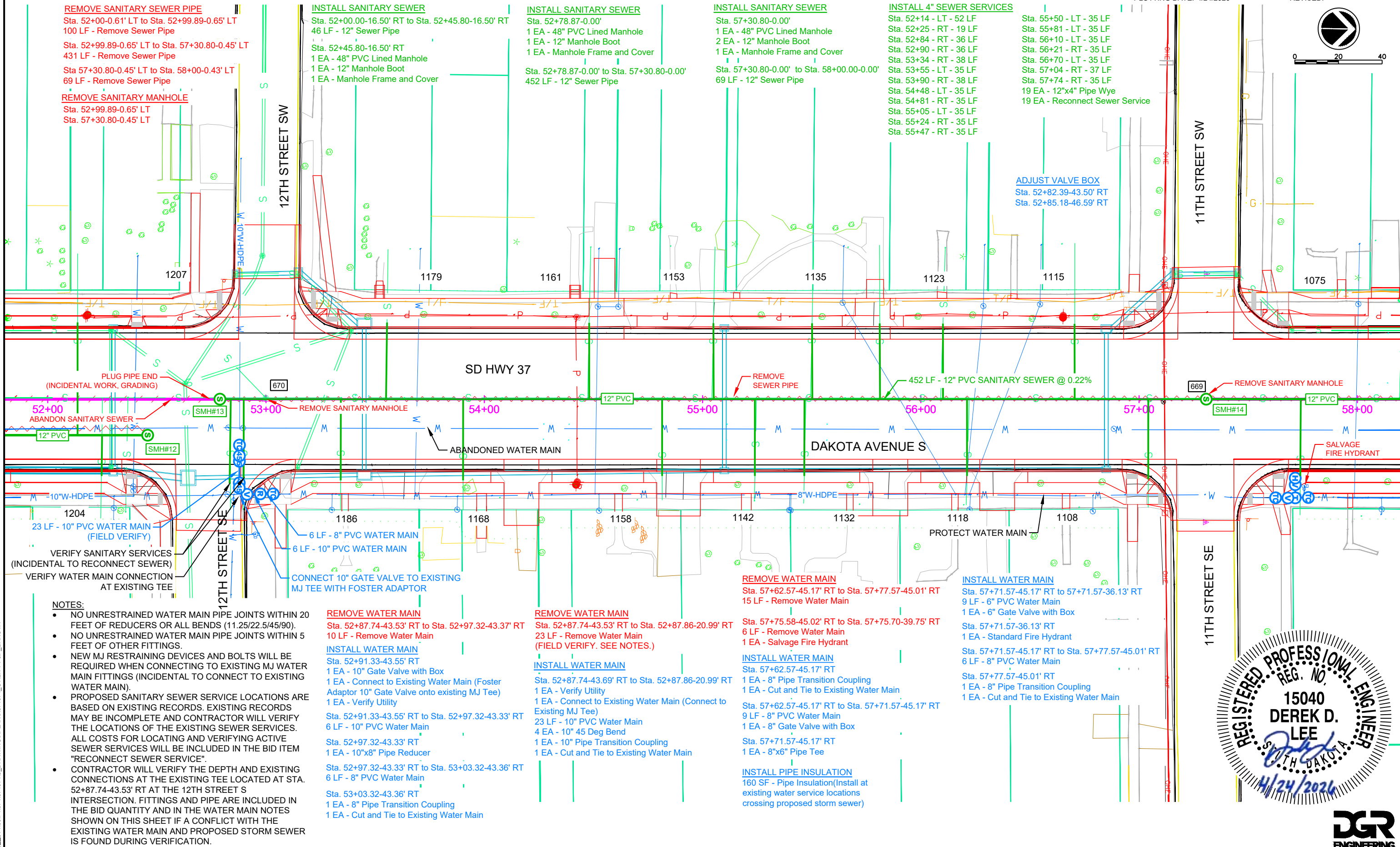
CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	36	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOT DATE: 4/24/2026

REVISED:



0 20 40



NOTES:

- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
- NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
- PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".
- CONTRACTOR WILL VERIFY THE DEPTH AND EXISTING CONNECTIONS AT THE EXISTING TEE LOCATED AT STA. 52+87.74-43.53' RT AT THE 12TH STREET S INTERSECTION. FITTINGS AND PIPE ARE INCLUDED IN THE BID QUANTITY AND IN THE WATER MAIN NOTES SHOWN ON THIS SHEET IF A CONFLICT WITH THE EXISTING WATER MAIN AND PROPOSED STORM SEWER IS FOUND DURING VERIFICATION.

REMOVE WATER MAIN

Sta. 52+87.74-43.53' RT to Sta. 52+97.32-43.37' RT
10 LF - Remove Water Main

INSTALL WATER MAIN

Sta. 52+91.33-43.55' RT
1 EA - 10" Gate Valve with Box
1 EA - Connect to Existing Water Main (Foster Adaptor 10" Gate Valve onto existing MJ Tee)
1 EA - Verify Utility

Sta. 52+91.33-43.55' RT to Sta. 52+97.32-43.33' RT
6 LF - 10" PVC Water Main

Sta. 52+97.32-43.33' RT
1 EA - 10"x8" Pipe Reducer

Sta. 52+97.32-43.33' RT to Sta. 53+03.32-43.36' RT
6 LF - 8" PVC Water Main

Sta. 53+03.32-43.36' RT

1 EA - 8" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main

REMOVE WATER MAIN

Sta. 52+87.74-43.53' RT to Sta. 52+87.86-20.99' RT
23 LF - Remove Water Main (FIELD VERIFY. SEE NOTES.)

INSTALL WATER MAIN

Sta. 52+87.74-43.69' RT to Sta. 52+87.86-20.99' RT
1 EA - Verify Utility
1 EA - Connect to Existing Water Main (Connect to Existing MJ Tee)
23 LF - 10" PVC Water Main
4 EA - 10" 45 Deg Bend
1 EA - 10" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main

REMOVE WATER MAIN

Sta. 57+62.57-45.17' RT to Sta. 57+77.57-45.01' RT
15 LF - Remove Water Main

Sta. 57+75.58-45.02' RT to Sta. 57+75.70-39.75' RT
6 LF - Remove Water Main
1 EA - Salvage Fire Hydrant

INSTALL WATER MAIN

Sta. 57+62.57-45.17' RT
1 EA - 8" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main

Sta. 57+62.57-45.17' RT to Sta. 57+71.57-45.17' RT
9 LF - 8" PVC Water Main
1 EA - 8" Gate Valve with Box

Sta. 57+71.57-45.17' RT
1 EA - 8"x6" Pipe Tee

INSTALL PIPE INSULATION

160 SF - Pipe Insulation(Install at existing water service locations crossing proposed storm sewer)

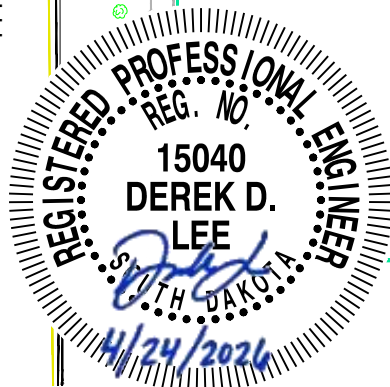
INSTALL WATER MAIN

Sta. 57+71.57-45.17' RT to Sta. 57+71.57-36.13' RT
9 LF - 6" PVC Water Main
1 EA - 6" Gate Valve with Box

Sta. 57+71.57-36.13' RT
1 EA - Standard Fire Hydrant

Sta. 57+71.57-45.17' RT to Sta. 57+77.57-45.01' RT
6 LF - 8" PVC Water Main

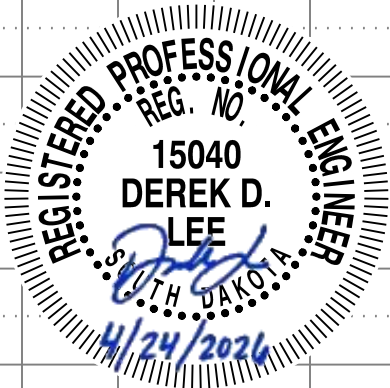
Sta. 57+77.57-45.01' RT
1 EA - 8" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main



FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	37	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026
REVISED:



STA 52+99.89-0.65'LT
EXISTING MANHOLE 670
DEPTH=8.60'
RIM=1279.45
IE N(8"VCP)=1270.85
IE S(8"VCP)=1270.89
IE SW(8"PVC)=1273.20

STA 57+30.80-0.45'LT
EXISTING MANHOLE 669
DEPTH=10.42'
RIM=1280.22
IE N(8"VCP)=1269.80
IE S(8"VCP)=1269.84

STA 52+78.87-0.00'
INSTALL SMH #13
DEPTH=7.60'
RIM=1278.45
IE N(12"PVC)=1270.85

STA 57+30.80-0.00'
INSTALL SMH #14
DEPTH=10.04'
RIM=1279.80
IE N(12"PVC)=1269.76
IE S(12"PVC)=1269.86

STA 52+45.80-16.50'RT
INSTALL SMH #12
DEPTH=8.52'
RIM=1278.44
IE S(12"PVC)=1269.92

452 LF - 12" PVC @ 0.22%

FILE: P:\0674074\674074_5_DRAWINGS\PLANS\674074_UTILITY P&P_DAKOTA



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SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	38	85

FILE: 674074 UTILITY P&P_DAKOTA
PLOTING DATE: 10/7/2026

REVISED: 10/07/2026 DDL



0 20 40

REMOVE SANITARY SEWER PIPE

Sta. 58+00-0.43' LT to Sta. 61+61.49-0.47' LT
362 LF - Remove Sewer Pipe

Sta. 61+61.49-0.47' LT to Sta. 64+00-4.16' RT
238 LF - Remove Sewer Pipe

REMOVE SANITARY MANHOLE

Sta. 61+61.49-0.47' LT

INSTALL SANITARY SEWER

Sta. 58+00.00-0.00' to Sta. 61+61.37-0.00'
362 LF - 12" Sewer Pipe

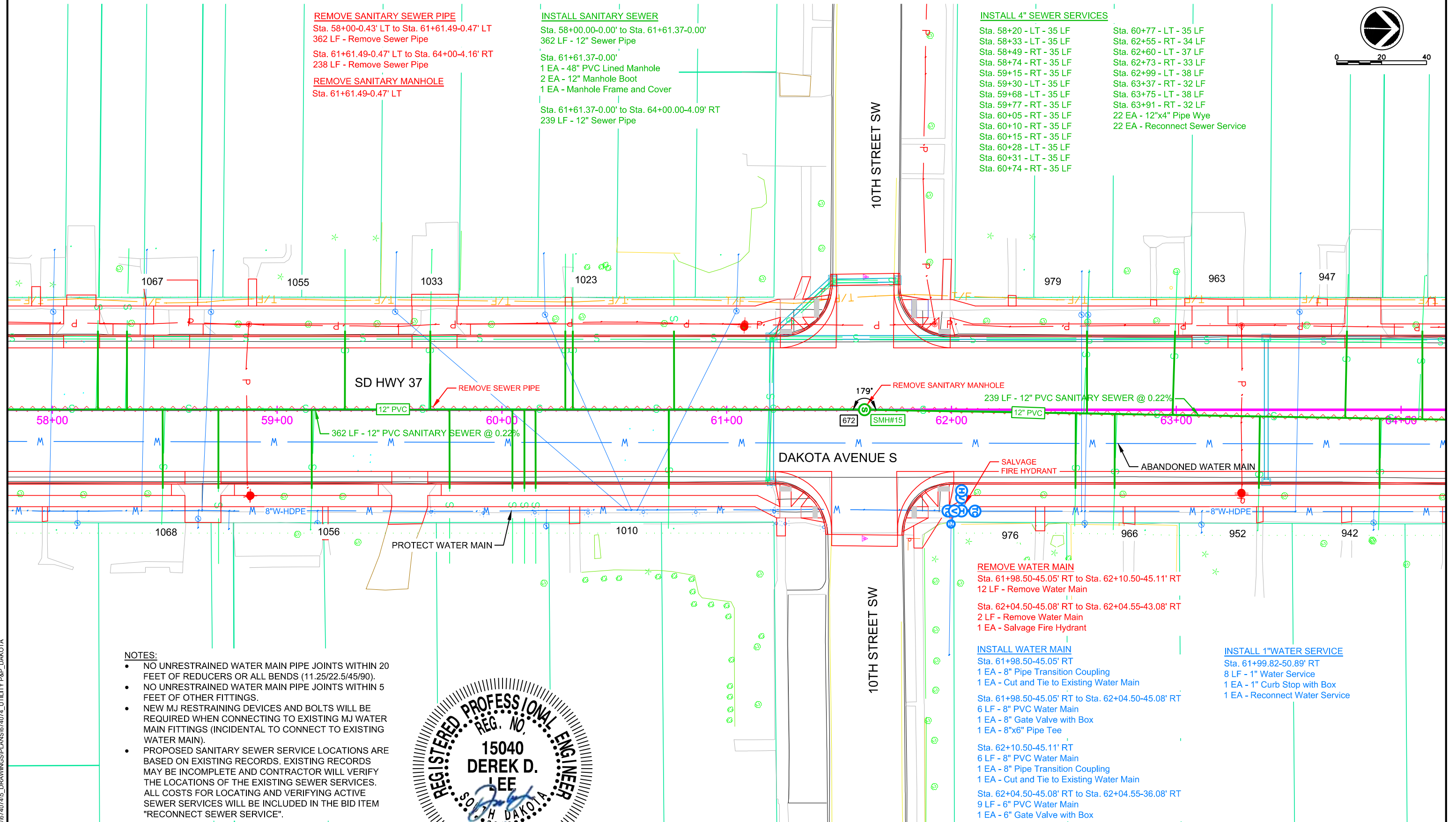
Sta. 61+61.37-0.00'
1 EA - 48" PVC Lined Manhole
2 EA - 12" Manhole Boot
1 EA - Manhole Frame and Cover

Sta. 61+61.37-0.00' to Sta. 64+00.00-4.09' RT
239 LF - 12" Sewer Pipe

INSTALL 4" SEWER SERVICES

Sta. 58+20 - LT - 35 LF
Sta. 58+33 - LT - 35 LF
Sta. 58+49 - RT - 35 LF
Sta. 58+74 - RT - 35 LF
Sta. 59+15 - RT - 35 LF
Sta. 59+30 - LT - 35 LF
Sta. 59+68 - LT - 35 LF
Sta. 59+77 - RT - 35 LF
Sta. 60+05 - RT - 35 LF
Sta. 60+10 - RT - 35 LF
Sta. 60+15 - RT - 35 LF
Sta. 60+28 - LT - 35 LF
Sta. 60+31 - LT - 35 LF
Sta. 60+74 - RT - 35 LF

Sta. 60+77 - LT - 35 LF
Sta. 62+55 - RT - 34 LF
Sta. 62+60 - LT - 37 LF
Sta. 62+73 - RT - 33 LF
Sta. 62+99 - LT - 38 LF
Sta. 63+37 - RT - 32 LF
Sta. 63+75 - LT - 38 LF
Sta. 63+91 - RT - 32 LF
22 EA - 12"x4" Pipe Wye
22 EA - Reconnect Sewer Service



NOTES:

- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
- NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
- PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".



REMOVE WATER MAIN

Sta. 61+98.50-45.05' RT to Sta. 62+10.50-45.11' RT
12 LF - Remove Water Main

Sta. 62+04.50-45.08' RT to Sta. 62+04.55-43.08' RT
2 LF - Remove Water Main
1 EA - Salvage Fire Hydrant

INSTALL WATER MAIN

Sta. 61+98.50-45.05' RT
1 EA - 8" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main
Sta. 61+98.50-45.05' RT to Sta. 62+04.50-45.08' RT
6 LF - 8" PVC Water Main
1 EA - 8" Gate Valve with Box
1 EA - 8"x6" Pipe Tee

Sta. 62+10.50-45.11' RT
6 LF - 8" PVC Water Main
1 EA - 8" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main

Sta. 62+04.50-45.08' RT to Sta. 62+04.55-36.08' RT
9 LF - 6" PVC Water Main
1 EA - 6" Gate Valve with Box

Sta. 62+04.55-46.08' RT
1 EA - Standard Fire Hydrant

INSTALL 1" WATER SERVICE

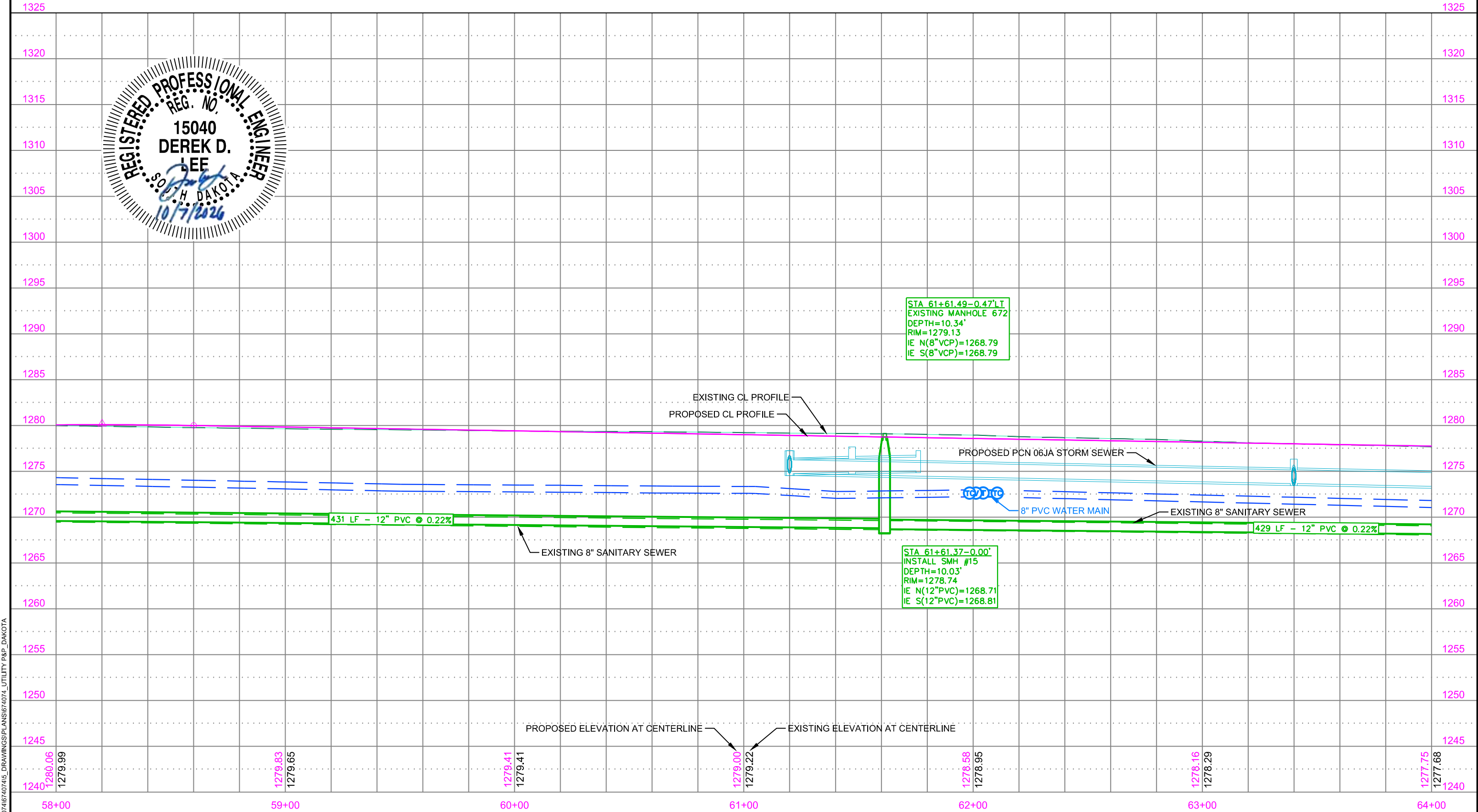
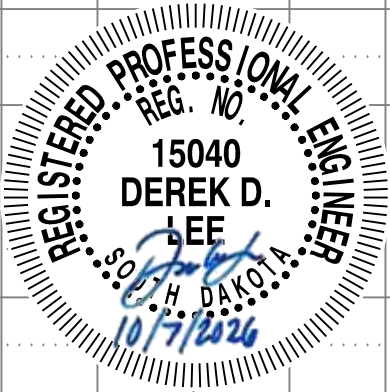
Sta. 61+99.82-50.89' RT
8 LF - 1" Water Service
1 EA - 1" Curb Stop with Box
1 EA - Reconnect Water Service



FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	39	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 10/7/2026
REVISED: 10/07/2026 DDL



FILE: P:\0674074\674074\5_DRAWINGS\PLANS\674074_UTILITY P&P_DAKOTA



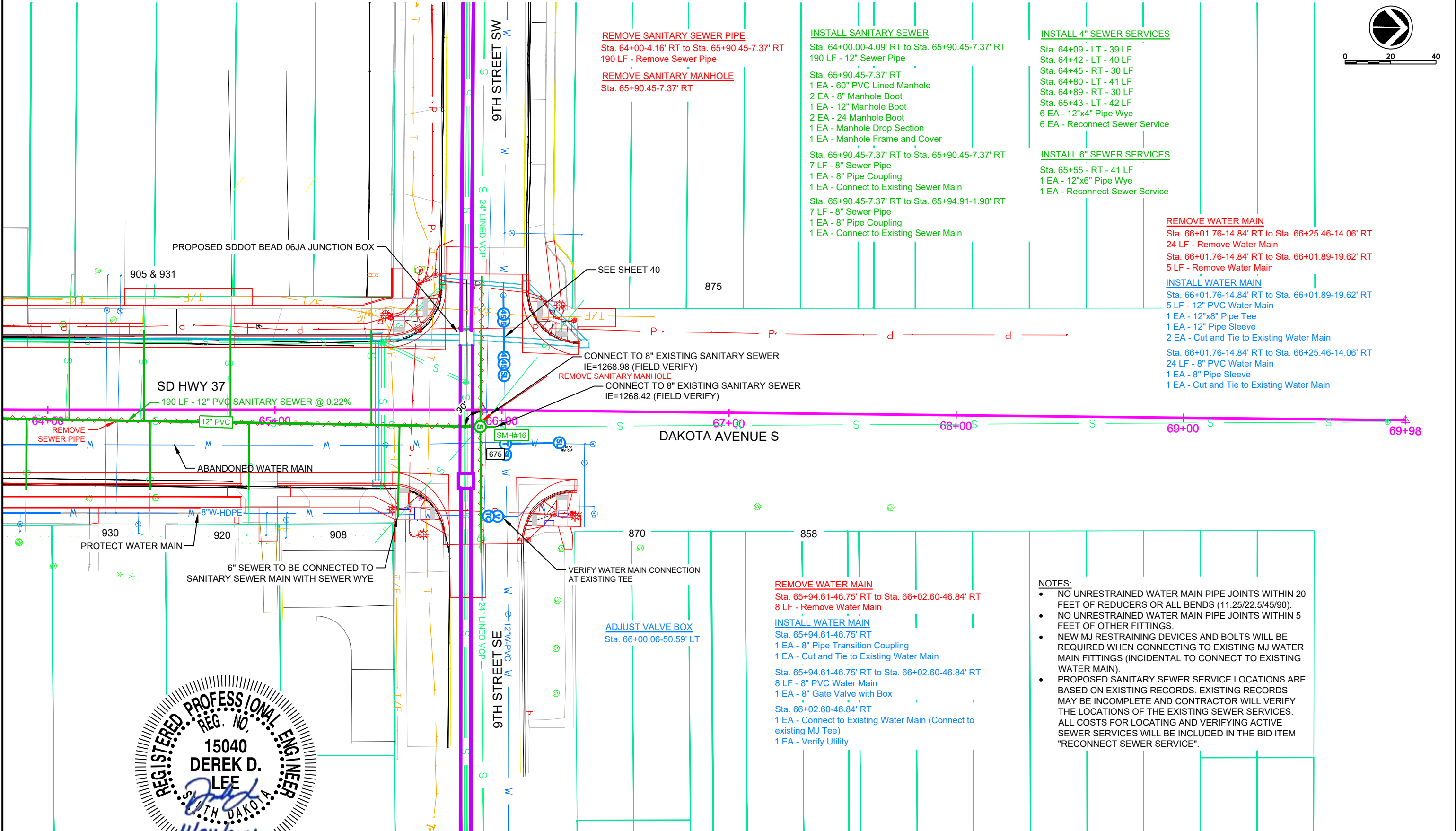
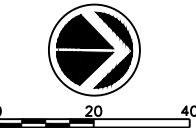
SD 37 UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	40	85

FILE: 674074_UTILITY P&P_DAKOTA
PLOTING DATE: 4/24/2026

REVISED:



REMOVE SANITARY SEWER PIPE
Sta. 64+00-4.16' RT to Sta. 65+90.45-7.37' RT
190 LF - Remove Sewer Pipe

REMOVE SANITARY MANHOLE
Sta. 65+90.45-7.37' RT

INSTALL SANITARY SEWER
Sta. 64+00.00-4.09' RT to Sta. 65+90.45-7.37' RT
190 LF - 12" Sewer Pipe
Sta. 65+90.45-7.37' RT
1 EA - 60" PVC Lined Manhole
2 EA - 8" Manhole Boot
1 EA - 12" Manhole Boot
2 EA - 24 Manhole Boot
1 EA - Manhole Drop Section
1 EA - Manhole Frame and Cover
Sta. 65+90.45-7.37' RT to Sta. 65+90.45-7.37' RT
7 LF - 8" Sewer Pipe
1 EA - 8" Pipe Coupling
1 EA - Connect to Existing Sewer Main
Sta. 65+90.45-7.37' RT to Sta. 65+94.91-1.90' RT
7 LF - 8" Sewer Pipe
1 EA - 8" Pipe Coupling
1 EA - Connect to Existing Sewer Main

INSTALL 4" SEWER SERVICES
Sta. 64+09 - LT - 39 LF
Sta. 64+42 - LT - 40 LF
Sta. 64+45 - RT - 30 LF
Sta. 64+80 - LT - 41 LF
Sta. 64+89 - RT - 30 LF
Sta. 65+43 - LT - 42 LF
6 EA - 12"x4" Pipe Wye
6 EA - Reconnect Sewer Service

INSTALL 6" SEWER SERVICES
Sta. 65+55 - RT - 41 LF
1 EA - 12"x6" Pipe Wye
1 EA - Reconnect Sewer Service

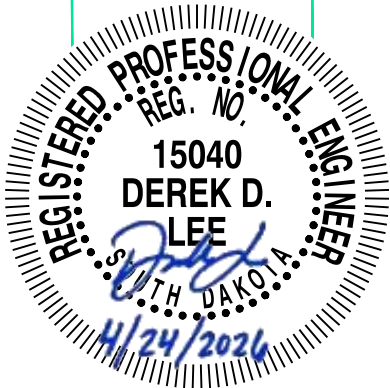
REMOVE WATER MAIN
Sta. 66+01.76-14.84' RT to Sta. 66+25.46-14.06' RT
24 LF - Remove Water Main
Sta. 66+01.76-14.84' RT to Sta. 66+01.89-19.62' RT
5 LF - Remove Water Main

INSTALL WATER MAIN
Sta. 66+01.76-14.84' RT to Sta. 66+01.89-19.62' RT
5 LF - 12" PVC Water Main
1 EA - 12"x8" Pipe Tee
1 EA - 12" Pipe Sleeve
2 EA - Cut and Tie to Existing Water Main
Sta. 66+01.76-14.84' RT to Sta. 66+25.46-14.06' RT
24 LF - 8" PVC Water Main
1 EA - 8" Pipe Sleeve
1 EA - Cut and Tie to Existing Water Main

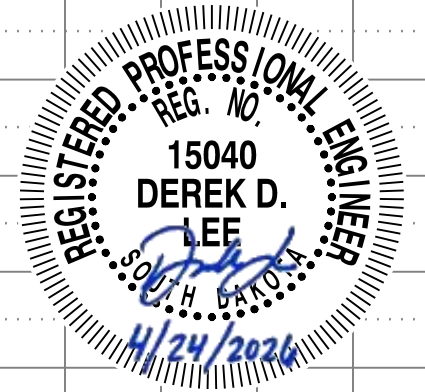
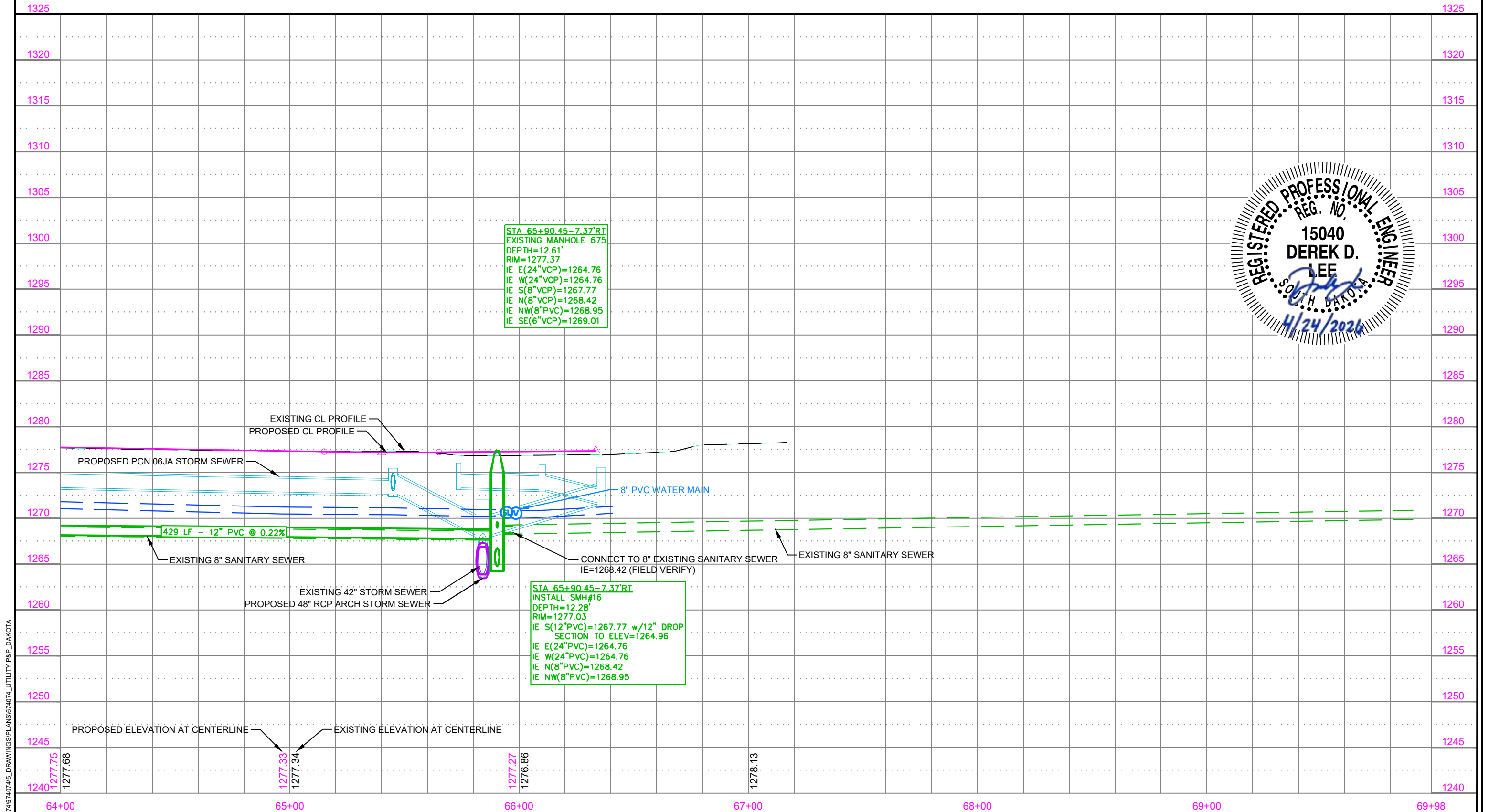
REMOVE WATER MAIN
Sta. 65+94.61-46.75' RT to Sta. 66+02.60-46.84' RT
8 LF - Remove Water Main

INSTALL WATER MAIN
Sta. 65+94.61-46.75' RT
1 EA - 8" Pipe Transition Coupling
1 EA - Cut and Tie to Existing Water Main
Sta. 65+94.61-46.75' RT to Sta. 66+02.60-46.84' RT
8 LF - 8" PVC Water Main
1 EA - 8" Gate Valve with Box
Sta. 66+02.60-46.84' RT
1 EA - Connect to Existing Water Main (Connect to existing MJ Tee)
1 EA - Verify Utility

- NOTES:**
- NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 20 FEET OF REDUCERS OR ALL BENDS (11.25/22.5/45/90).
 - NO UNRESTRAINED WATER MAIN PIPE JOINTS WITHIN 5 FEET OF OTHER FITTINGS.
 - NEW MJ RESTRAINING DEVICES AND BOLTS WILL BE REQUIRED WHEN CONNECTING TO EXISTING MJ WATER MAIN FITTINGS (INCIDENTAL TO CONNECT TO EXISTING WATER MAIN).
 - PROPOSED SANITARY SEWER SERVICE LOCATIONS ARE BASED ON EXISTING RECORDS. EXISTING RECORDS MAY BE INCOMPLETE AND CONTRACTOR WILL VERIFY THE LOCATIONS OF THE EXISTING SEWER SERVICES. ALL COSTS FOR LOCATING AND VERIFYING ACTIVE SEWER SERVICES WILL BE INCLUDED IN THE BID ITEM "RECONNECT SEWER SERVICE".



REVISÉD:

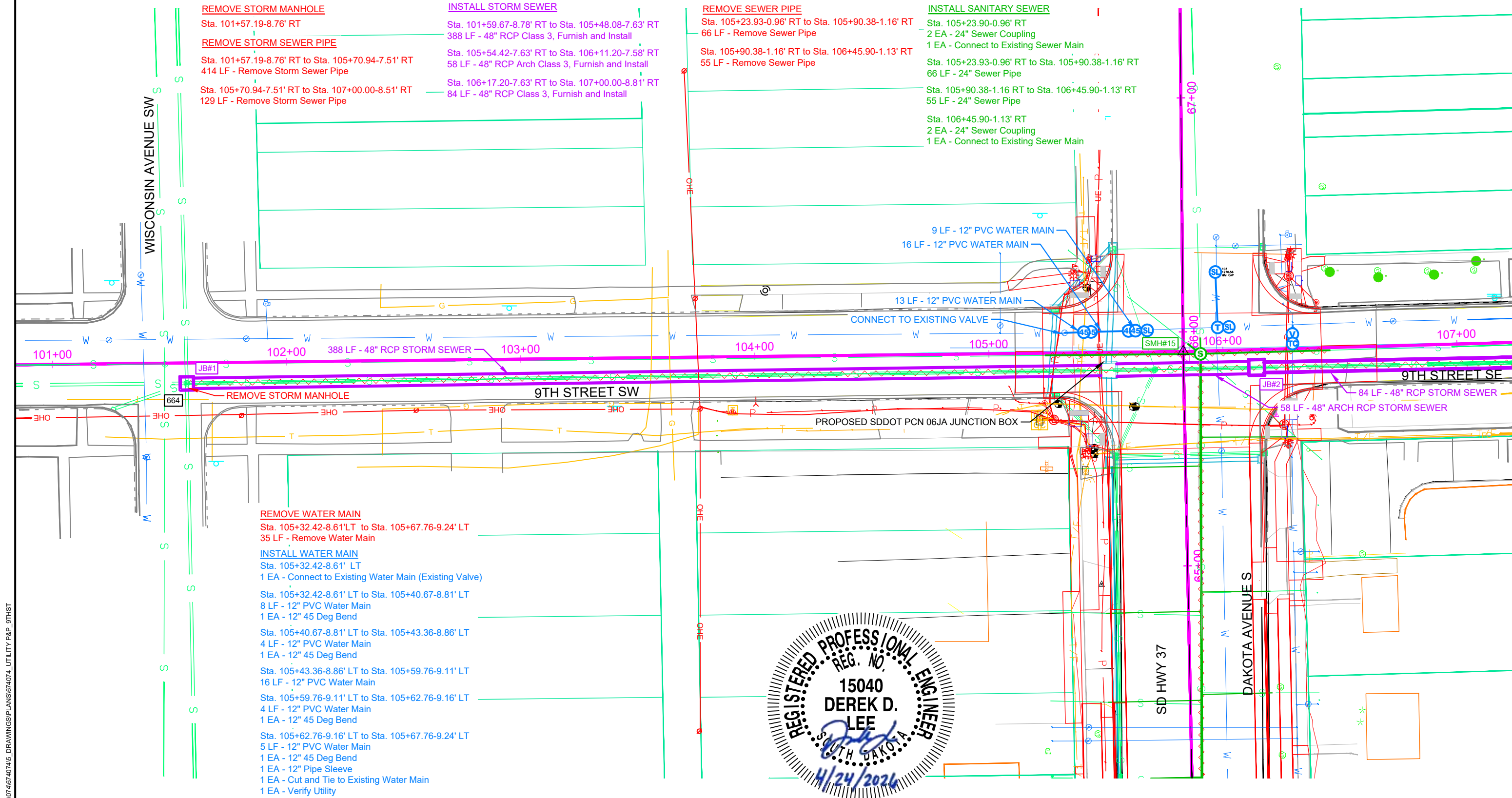
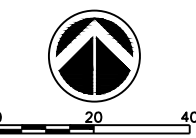


9TH STREET S UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 42	TOTAL SHEETS 85
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FILE: 674074_UTILITY P&P_9THST
PLOTING DATE: 4/23/2026
REVISED:



REMOVE STORM MANHOLE
Sta. 101+57.19-8.76' RT

REMOVE STORM SEWER PIPE
Sta. 101+57.19-8.76' RT to Sta. 105+70.94-7.51' RT
414 LF - Remove Storm Sewer Pipe

Sta. 105+70.94-7.51' RT to Sta. 107+00.00-8.51' RT
129 LF - Remove Storm Sewer Pipe

INSTALL STORM SEWER
Sta. 101+59.67-8.78' RT to Sta. 105+48.08-7.63' RT
388 LF - 48" RCP Class 3, Furnish and Install

Sta. 105+54.42-7.63' RT to Sta. 106+11.20-7.58' RT
58 LF - 48" RCP Arch Class 3, Furnish and Install

Sta. 106+17.20-7.63' RT to Sta. 107+00.00-8.81' RT
84 LF - 48" RCP Class 3, Furnish and Install

REMOVE SEWER PIPE
Sta. 105+23.93-0.96' RT to Sta. 105+90.38-1.16' RT
66 LF - Remove Sewer Pipe

Sta. 105+90.38-1.16' RT to Sta. 106+45.90-1.13' RT
55 LF - Remove Sewer Pipe

INSTALL SANITARY SEWER
Sta. 105+23.90-0.96' RT
2 EA - 24" Sewer Coupling
1 EA - Connect to Existing Sewer Main

Sta. 105+23.93-0.96' RT to Sta. 105+90.38-1.16' RT
66 LF - 24" Sewer Pipe

Sta. 105+90.38-1.16' RT to Sta. 106+45.90-1.13' RT
55 LF - 24" Sewer Pipe

Sta. 106+45.90-1.13' RT
2 EA - 24" Sewer Coupling
1 EA - Connect to Existing Sewer Main

REMOVE WATER MAIN
Sta. 105+32.42-8.61' LT to Sta. 105+67.76-9.24' LT
35 LF - Remove Water Main

INSTALL WATER MAIN
Sta. 105+32.42-8.61' LT
1 EA - Connect to Existing Water Main (Existing Valve)

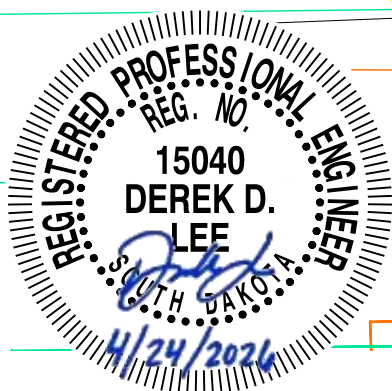
Sta. 105+32.42-8.61' LT to Sta. 105+40.67-8.81' LT
8 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 105+40.67-8.81' LT to Sta. 105+43.36-8.86' LT
4 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 105+43.36-8.86' LT to Sta. 105+59.76-9.11' LT
16 LF - 12" PVC Water Main

Sta. 105+59.76-9.11' LT to Sta. 105+62.76-9.16' LT
4 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend

Sta. 105+62.76-9.16' LT to Sta. 105+67.76-9.24' LT
5 LF - 12" PVC Water Main
1 EA - 12" 45 Deg Bend
1 EA - 12" Pipe Sleeve
1 EA - Cut and Tie to Existing Water Main
1 EA - Verify Utility



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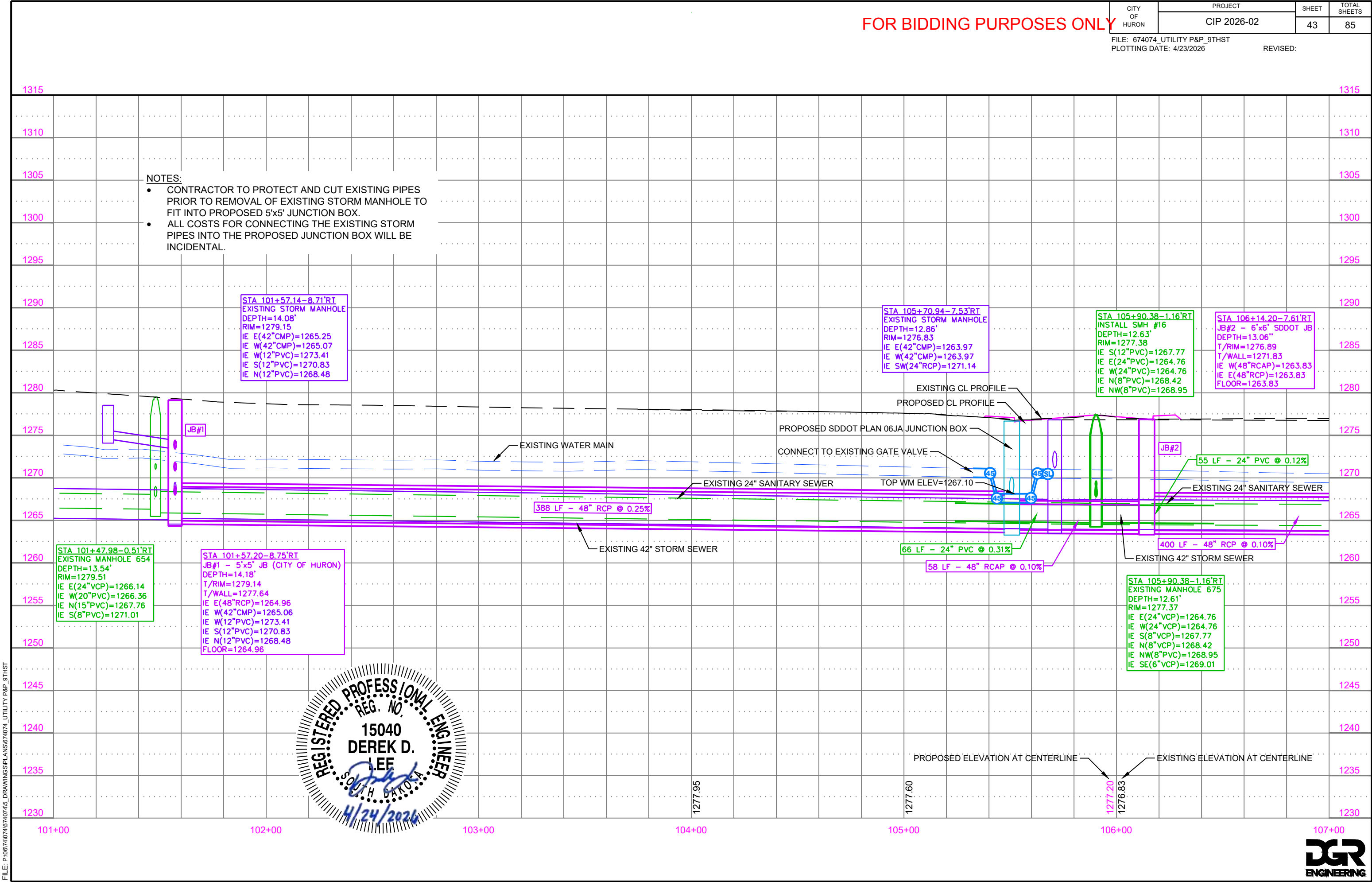
FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	43	85

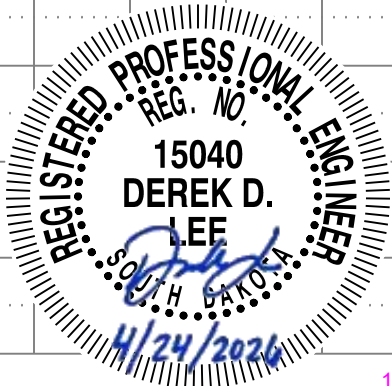
FILE: 674074_UTILITY P&P_9THST
PLOTING DATE: 4/23/2026
REVISED:

NOTES:

- CONTRACTOR TO PROTECT AND CUT EXISTING PIPES PRIOR TO REMOVAL OF EXISTING STORM MANHOLE TO FIT INTO PROPOSED 5'x5' JUNCTION BOX.
- ALL COSTS FOR CONNECTING THE EXISTING STORM PIPES INTO THE PROPOSED JUNCTION BOX WILL BE INCIDENTAL.



FILE: P:\0674074\0740745_DRAWINGS\PLANS\674074_UTILITY P&P_9THST



9TH STREET S UTILITY PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	44	85

FILE: 674074_UTILITY P&P_9THST
PLOTING DATE: 4/23/2026

REVISED:



0 20 40

REMOVE STORM MANHOLE

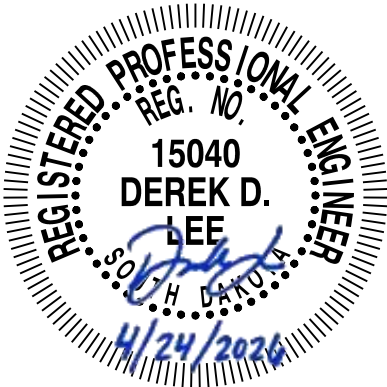
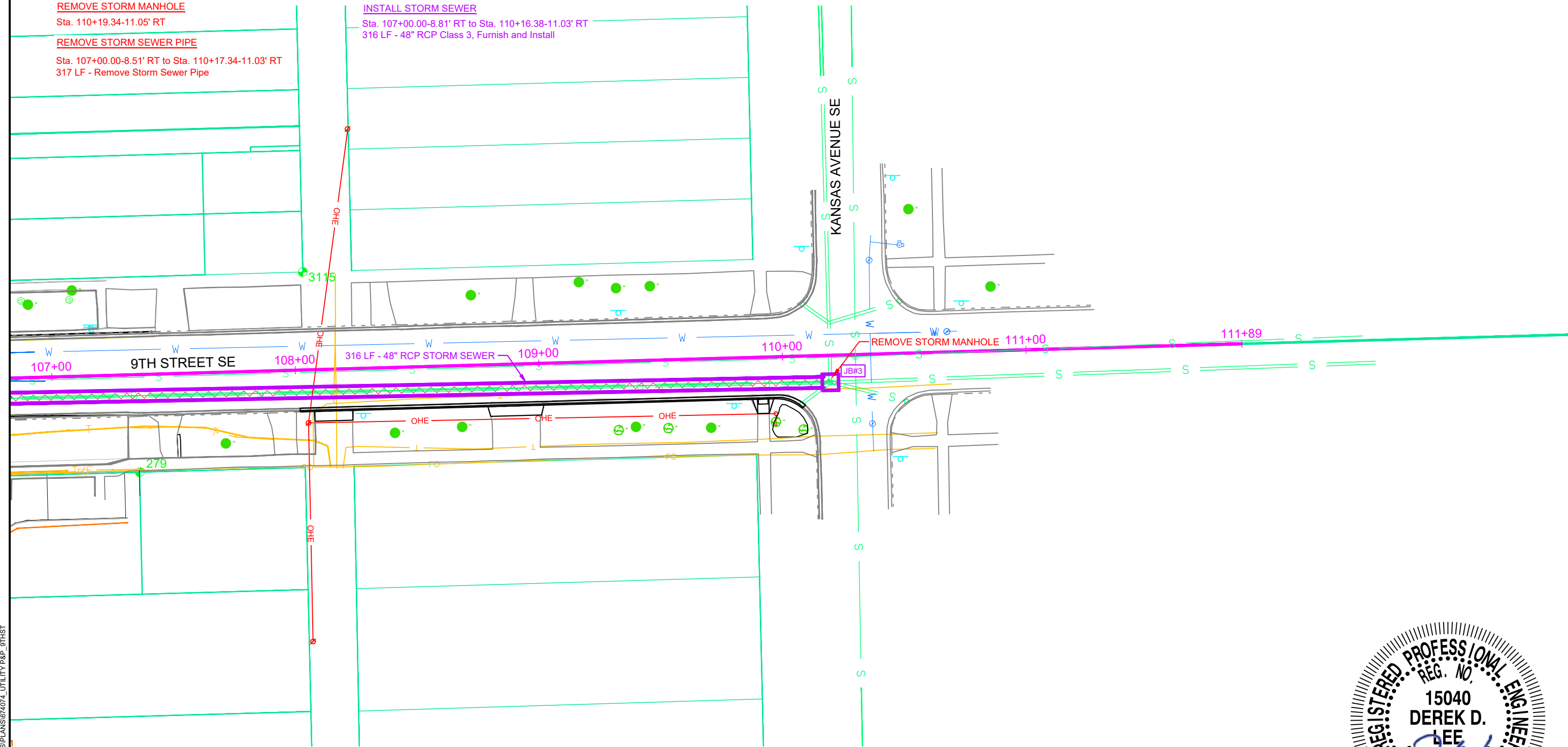
Sta. 110+19.34-11.05' RT

REMOVE STORM SEWER PIPE

Sta. 107+00.00-8.51' RT to Sta. 110+17.34-11.03' RT
317 LF - Remove Storm Sewer Pipe

INSTALL STORM SEWER

Sta. 107+00.00-8.81' RT to Sta. 110+16.38-11.03' RT
316 LF - 48" RCP Class 3, Furnish and Install

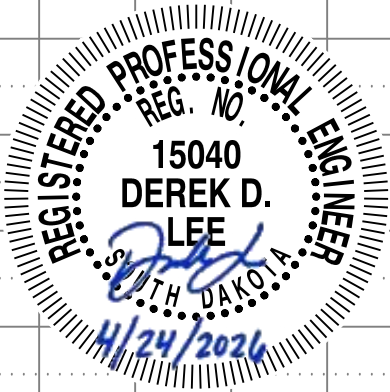
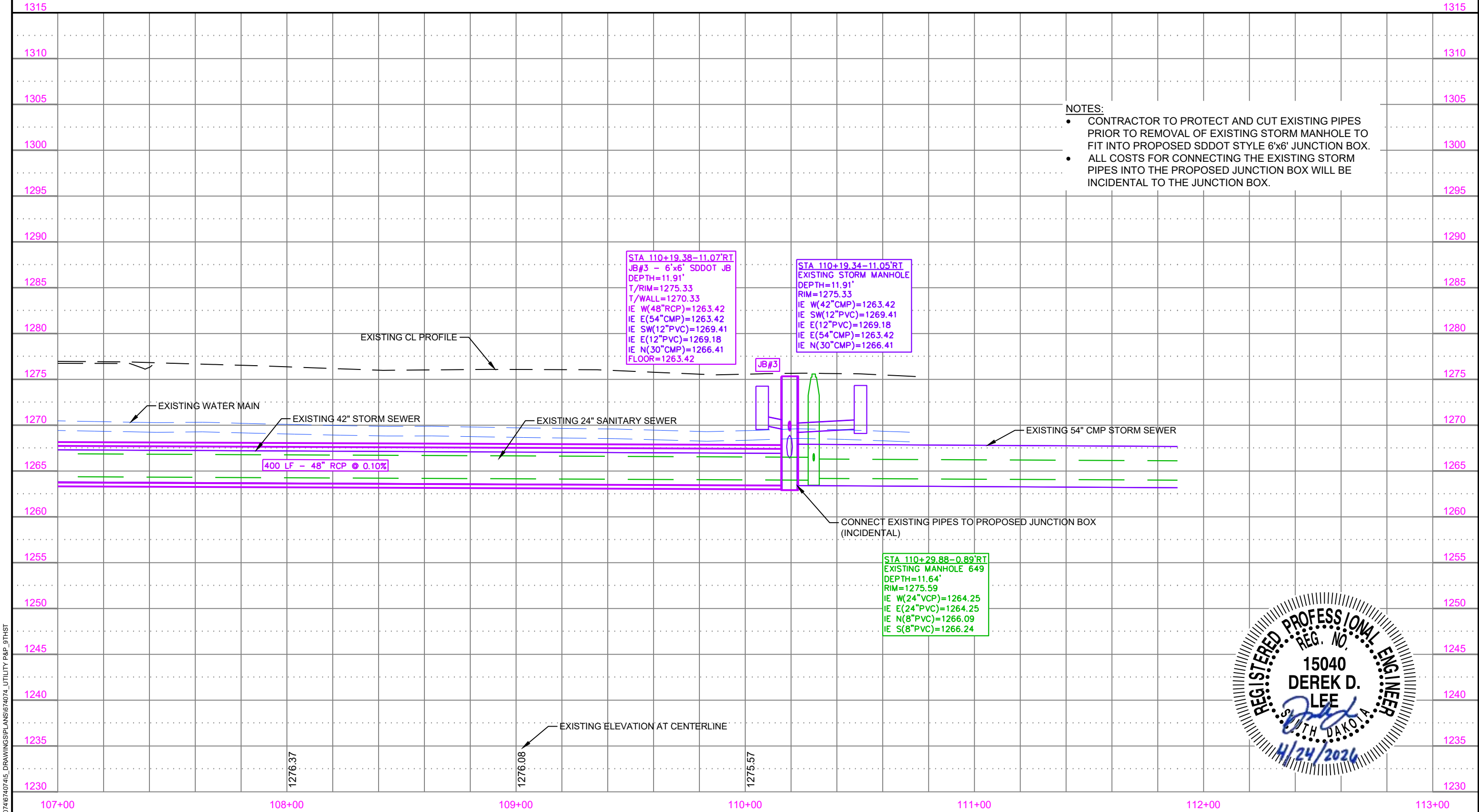


FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	45	85

FILE: 674074_UTILITY P&P_9THST
PLOTING DATE: 4/23/2026
REVISED:

FILE: P:\0674074\674074_5_DRAWINGS\PLANS\674074_UTILITY P&P_9THST

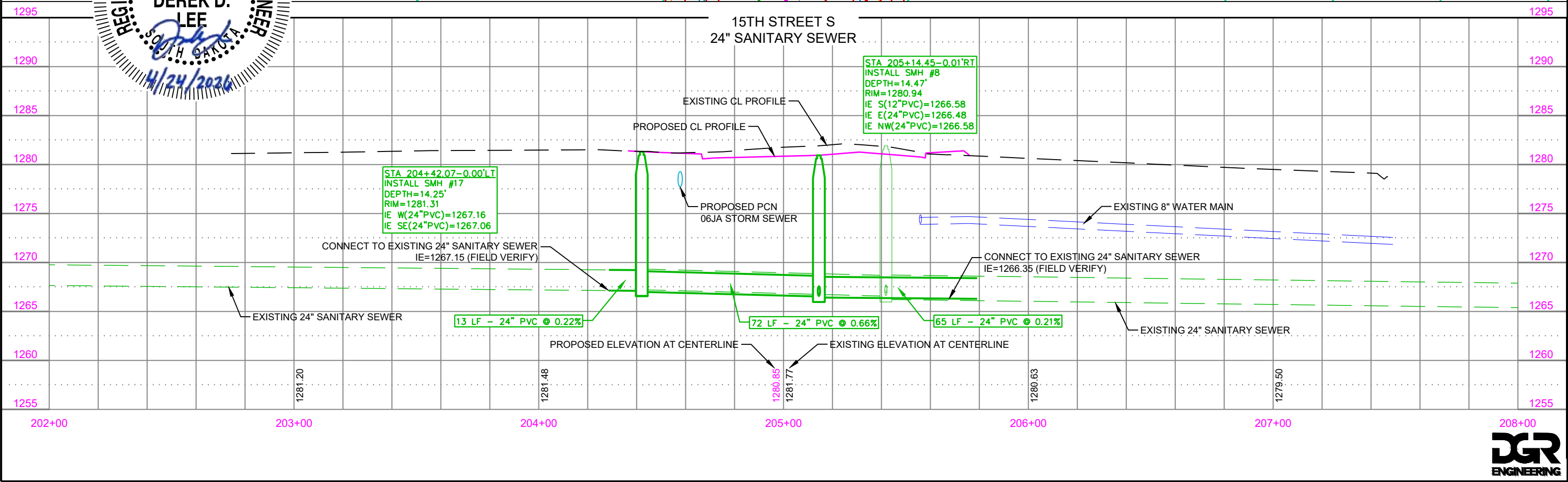
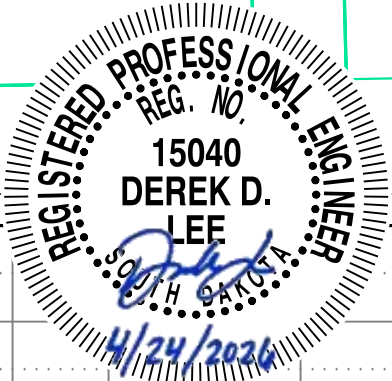
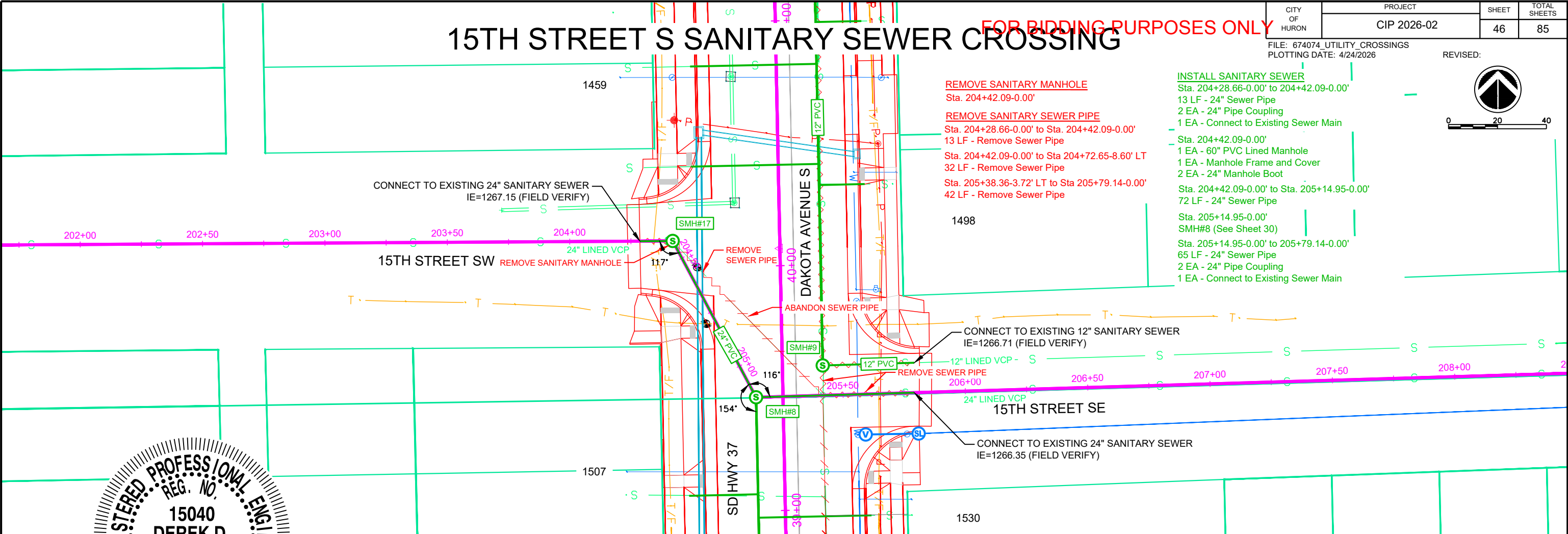


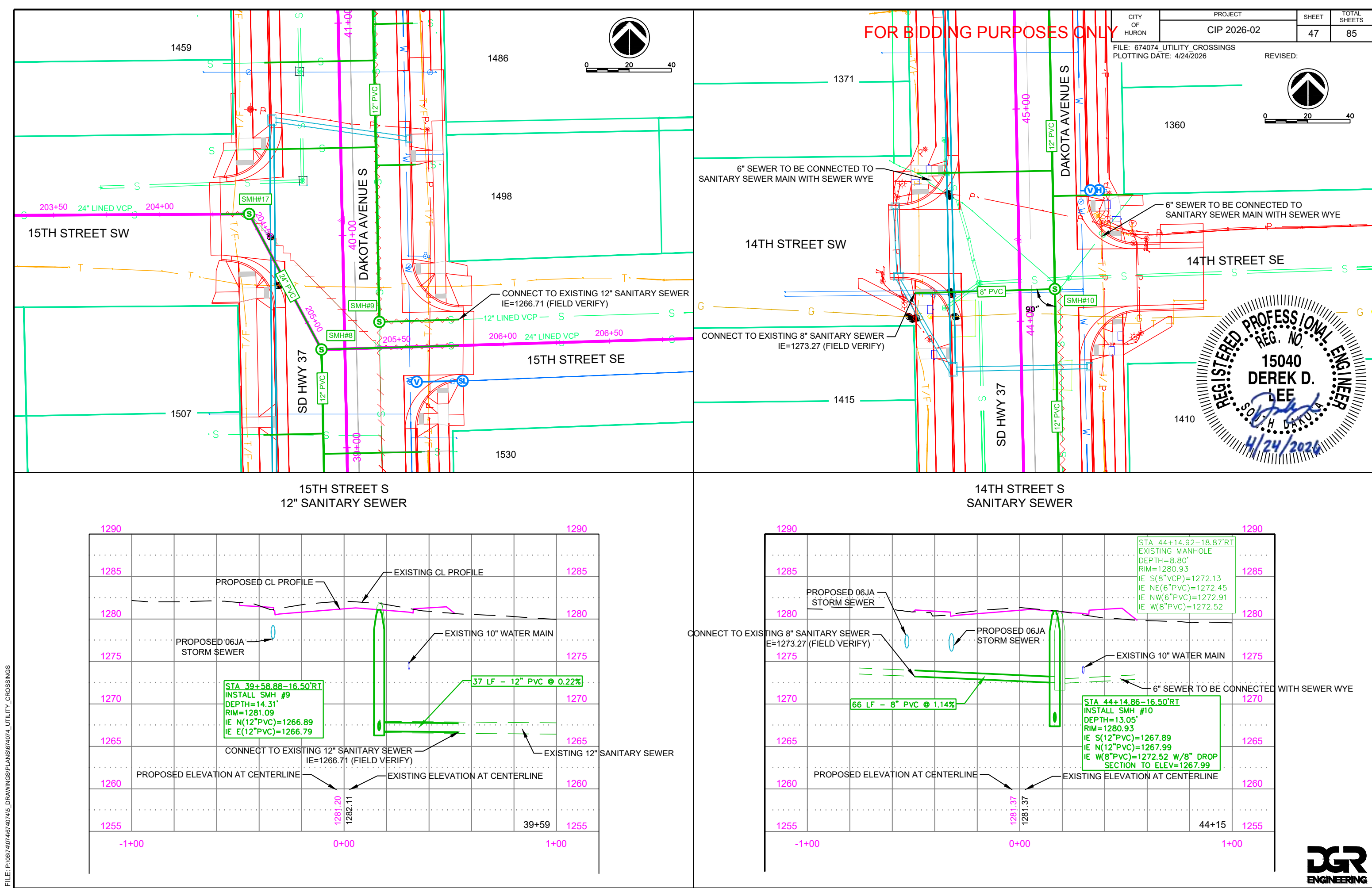
15TH STREET S SANITARY SEWER CROSSING

FOR BIDDING PURPOSES ONLY

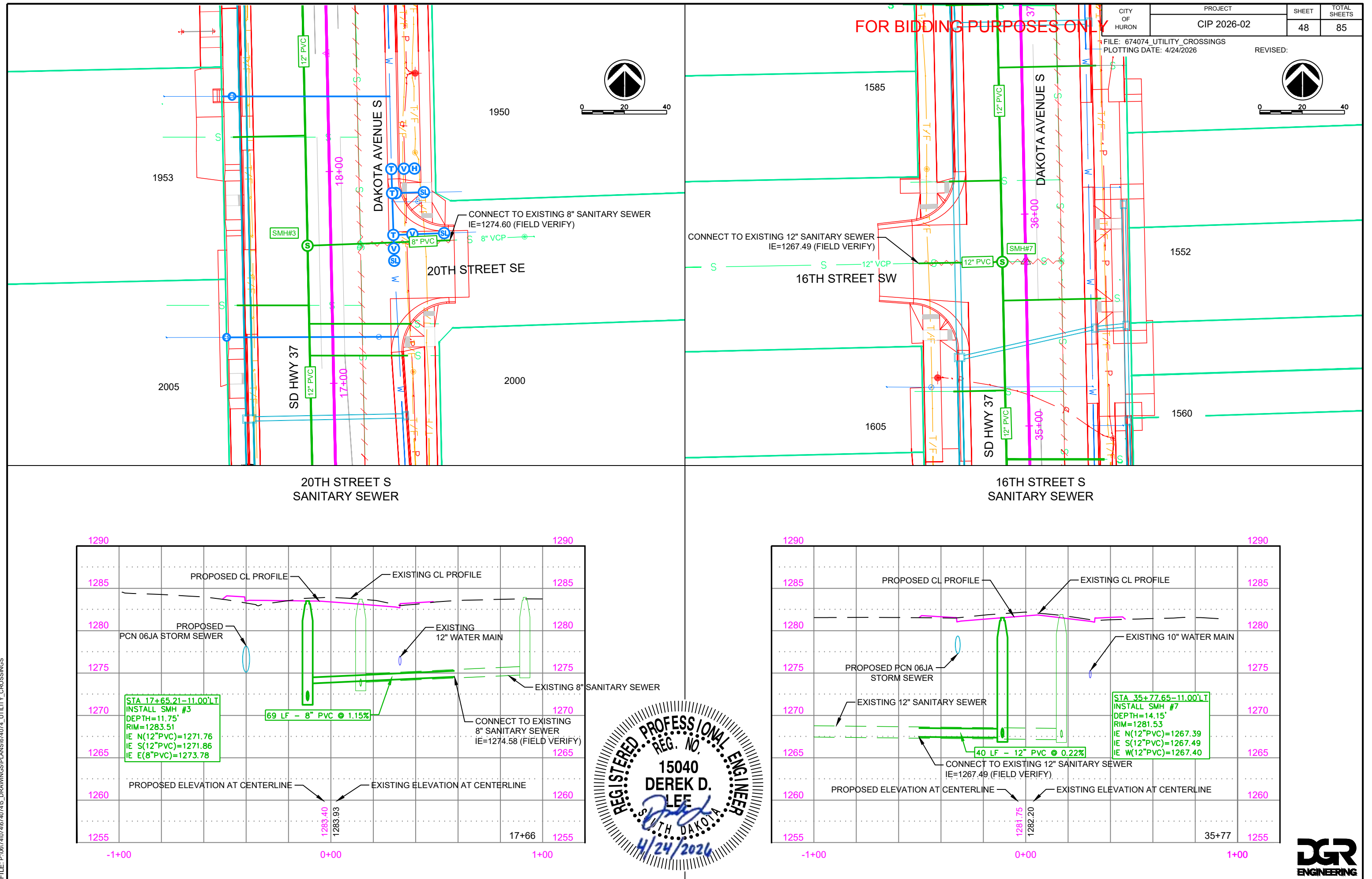
CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	46	85

FILE: 674074 UTILITY CROSSINGS
PLOTING DATE: 4/24/2026
REVISED:





FILE: P:\0674074\06740745_DRAWINGS\PLANS\674074 UTILITY_CROSSINGS

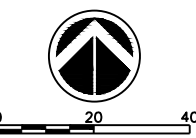


9TH STREET S PAVEMENT REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	50	85

FILE: 674074_REMOVALS_9THST
PLOTING DATE: 4/23/2026
REVISED:



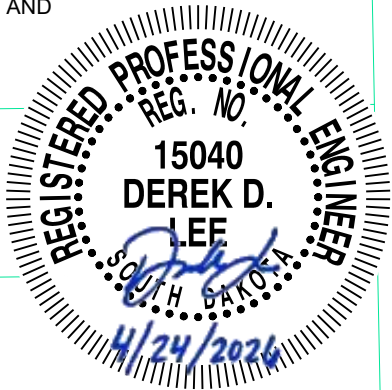
LEGEND

- MILL ASPHALT PAVEMENT (CITY OF HURON)
- REMOVE CONCRETE CURB AND GUTTER
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CONCRETE SIDEWALK

SDDOT PCN 06JA PAVEMENT REMOVAL LIMITS
SEE SDDOT PLAN SECTIONS FOR PAVEMENT REMOVALS
ON SD HWY 37/DAKOTA AVENUE

CITY OF HURON TO MILL
EXISTING PAVEMENT 12' WIDE

- NOTES:
- THE CITY OF HURON WILL MILL THE EXISTING ASPHALT SURFACING OVER THE TRENCH FOR THE STORM SEWER INSTALLATION ON 9TH STREET.
 - CONTRACTOR WILL REMOVE THE CURB AND GUTTER AS SHOWN ON THE PLANS.



9TH STREET S PAVEMENT REMOVAL LAYOUT

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	51	85

FILE: 674074_REMOVALS_9THST
PLOTING DATE: 4/23/2026

REVISED:



0 20 40

LEGEND

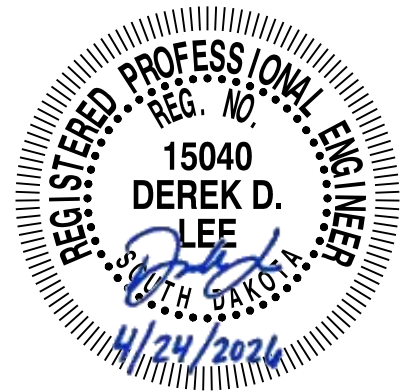
- MILL ASPHALT PAVEMENT (CITY OF HURON)
- REMOVE CONCRETE CURB AND GUTTER
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE CONCRETE SIDEWALK

CITY OF HURON TO MILL
EXISTING PAVEMENT 12' WIDE

210 LF - REMOVE CONCRETE CURB AND GUTTER

NOTES:

- THE CITY OF HURON WILL MILL THE EXISTING ASPHALT SURFACING OVER THE TRENCH FOR THE STORM SEWER INSTALLATION ON 9TH STREET.
- CONTRACTOR WILL REMOVE THE CURB AND GUTTER AS SHOWN ON THE PLANS.



FILE: P:\0674074\6740745_DRAWINGS\PLANS\674074_REMOVALS_9THST

FILE: P:\0674074\06740745_DRAWINGS\PLANS\674074_PAVEMENT_9THST

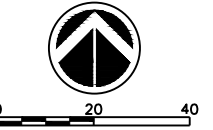
9TH STREET S PAVEMENT LAYOUT

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	52	85

FILE: 674074_PAVEMENT_9THST
PLOTING DATE: 4/24/2026

REVISED:



LEGEND

	CONCRETE APPROACH PAVEMENT
	6" CONCRETE SIDEWALK
	BASE COURSE

WISCONSIN AVENUE SW

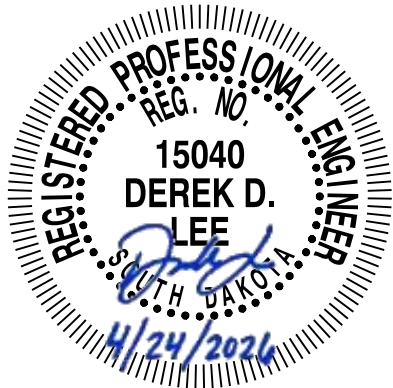
SDDOT PCN 06JA PAVEMENT SURFACING LIMITS

9TH STREET SW

9TH STREET SE

NOTES:

- THE CITY OF HURON WILL MILL THE EXISTING ASPHALT SURFACING OVER THE TRENCH FOR THE STORM SEWER INSTALLATION ON 9TH STREET.
- CONTRACTOR TO PLACE 10" OF BASE COURSE AFTER STORM SEWER INSTALLATION TO MATCH THE EXISTING TOP OF PAVEMENT IN THE MILLED AREA.
- THE CITY OF HURON WILL PATCH THE ASPHALT SURFACING AT A LATER TIME.



SD HWY 37

DAKOTA AVENUE S



FILE: P:\0674074\06740745_DRAWINGS\PLANS\674074_PAVEMENT_9THST

9TH STREET S PAVEMENT LAYOUT

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	53	85

FILE: 674074_PAVEMENT_9THST
PLOTING DATE: 4/24/2026

REVISED:



0 20 40

LEGEND

	CONCRETE APPROACH PAVEMENT
	6" CONCRETE SIDEWALK
	BASE COURSE

Sta. 108+01-15.70' RT to Sta. 110+07.52-21.43' RT
170 LF - Type B66 Curb And Gutter
40 - Type P6 Concrete Gutter
17 SY - Concrete Driveway Pavement
40 SqFt - 6" Concrete Sidewalk
8 SqFt - Type 1 Detectable Warning

TYPE B66 CURB AND GUTTER

CONTRACTOR TO PLACE 10" OF BASE COURSE TO MATCH EXISTING PAVEMENT

9TH STREET SE

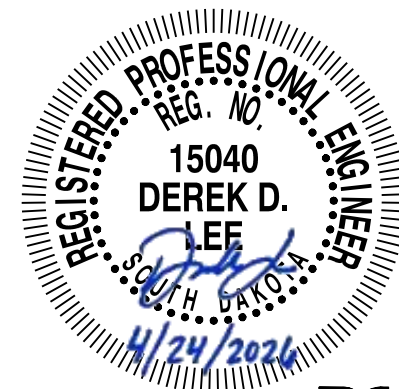
2'x4' TYPE 1 DETECTABLE WARNING

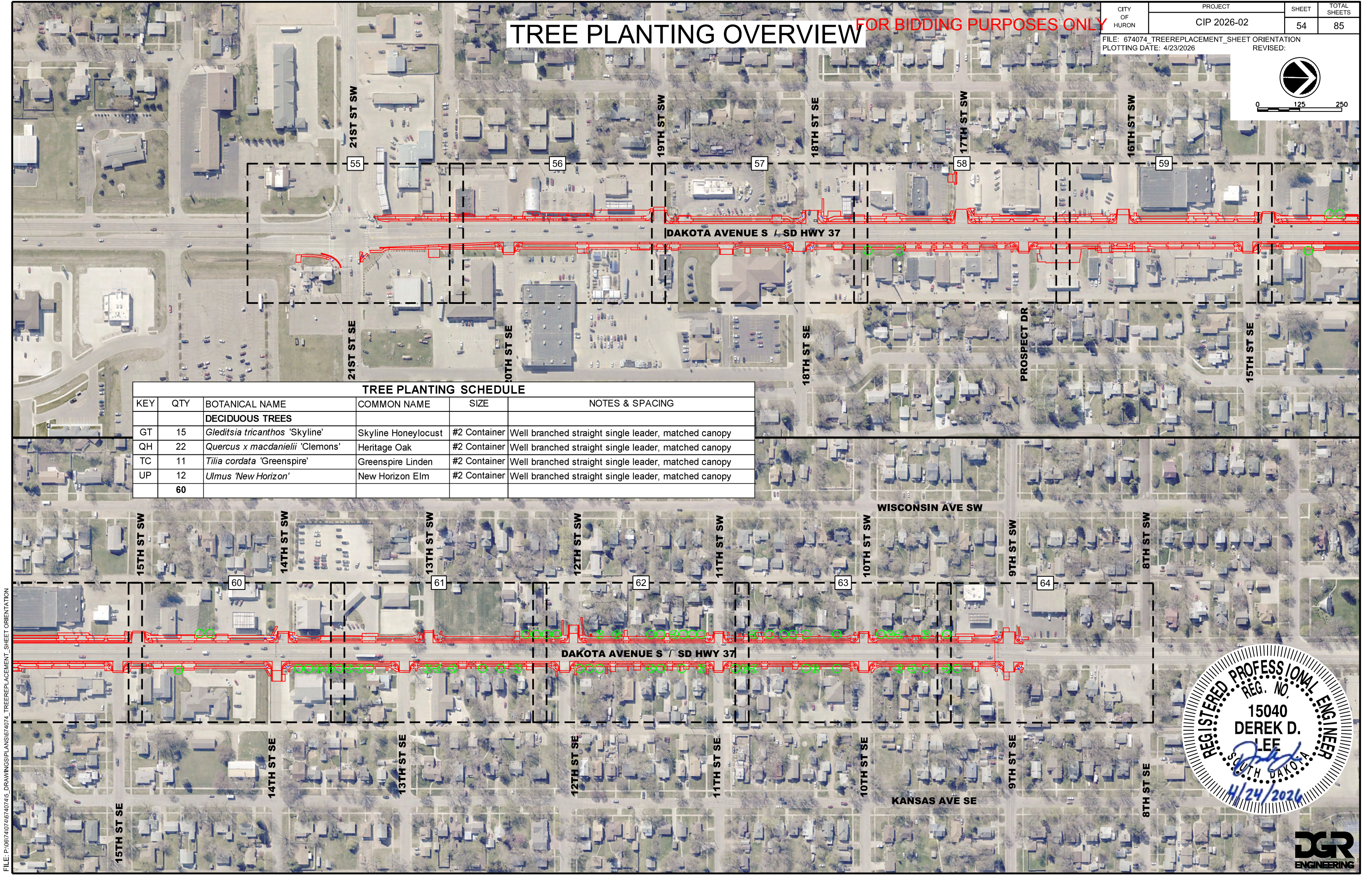
TYPE P6 CONCRETE GUTTER

KANSAS AVENUE SE

NOTES:

- THE CITY OF HURON WILL MILL THE EXISTING ASPHALT SURFACING OVER THE TRENCH FOR THE STORM SEWER INSTALLATION ON 9TH STREET.
- CONTRACTOR TO PLACE 10" OF BASE COURSE AFTER THE STORM SEWER INSTALLATION TO MATCH THE EXISTING TOP OF PAVEMENT IN THE MILLED AREA.
- THE CITY OF HURON WILL PATCH THE ASPHALT SURFACING AT A LATER TIME.
- CONTRACTOR WILL REVIEW THE TRAFFIC CONTROL/PROJECT PHASING SHOWN IN THE SDDOT PROJECT PLAN FOR PROJECT NH-CR 0037(156)(125) PCN 06JA FOR WORK AT THE 9TH STREET AND KANSAS AVENUE INTERSECTION.





TREE PLANTING OVERVIEW

FOR BIDDING PURPOSES ONLY

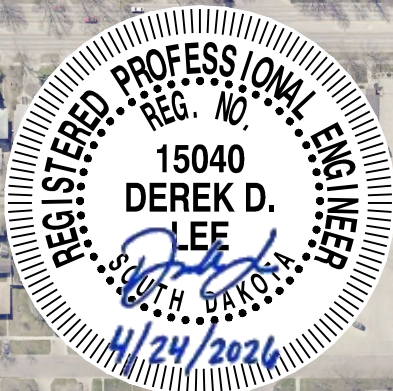
CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	54	85

FILE: 674074_TREEREPLACEMENT_SHEET ORIENTATION
PLOTING DATE: 4/23/2026
REVISED:



0 125 250

TREE PLANTING SCHEDULE					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES & SPACING
DECIDUOUS TREES					
GT	15	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	#2 Container	Well branched straight single leader, matched canopy
QH	22	<i>Quercus x macdanielii</i> 'Clemons'	Heritage Oak	#2 Container	Well branched straight single leader, matched canopy
TC	11	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	#2 Container	Well branched straight single leader, matched canopy
UP	12	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	#2 Container	Well branched straight single leader, matched canopy
	60				



FILE: P:\0674074\6740745_DRAWING\PLANS\674074_TREEREPLACEMENT_SHEET ORIENTATION

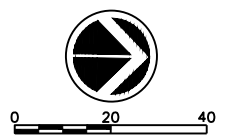
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SD 37 TREE PLANTING PLAN

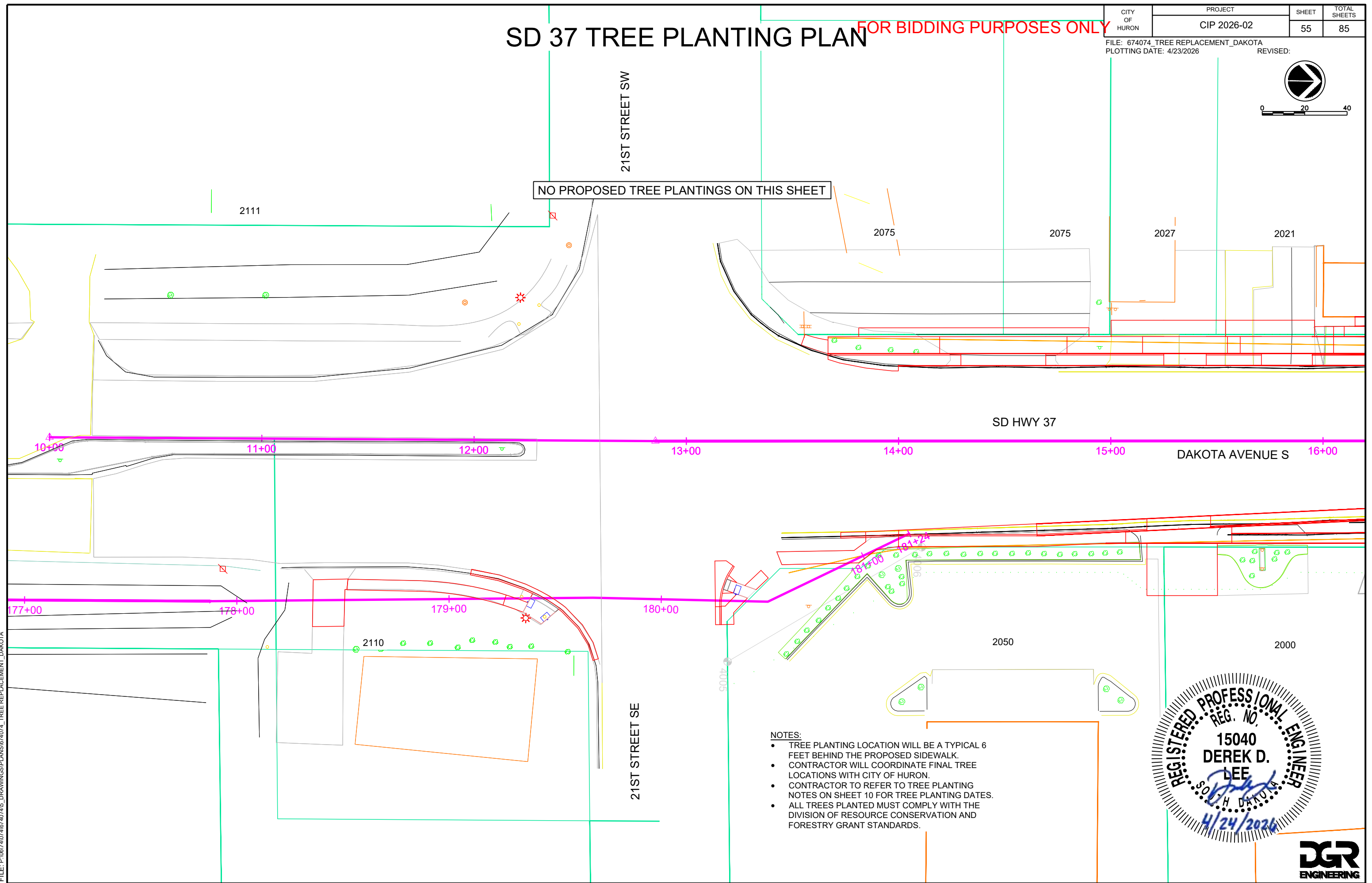
FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	55	85

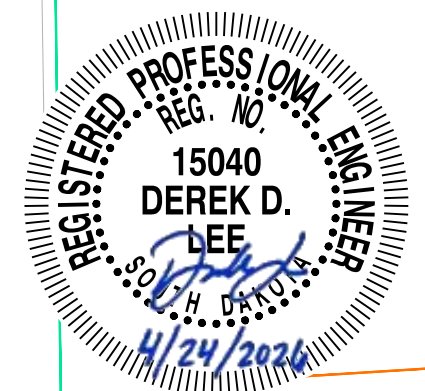
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PLOTING DATE: 4/23/2026
REVISED:



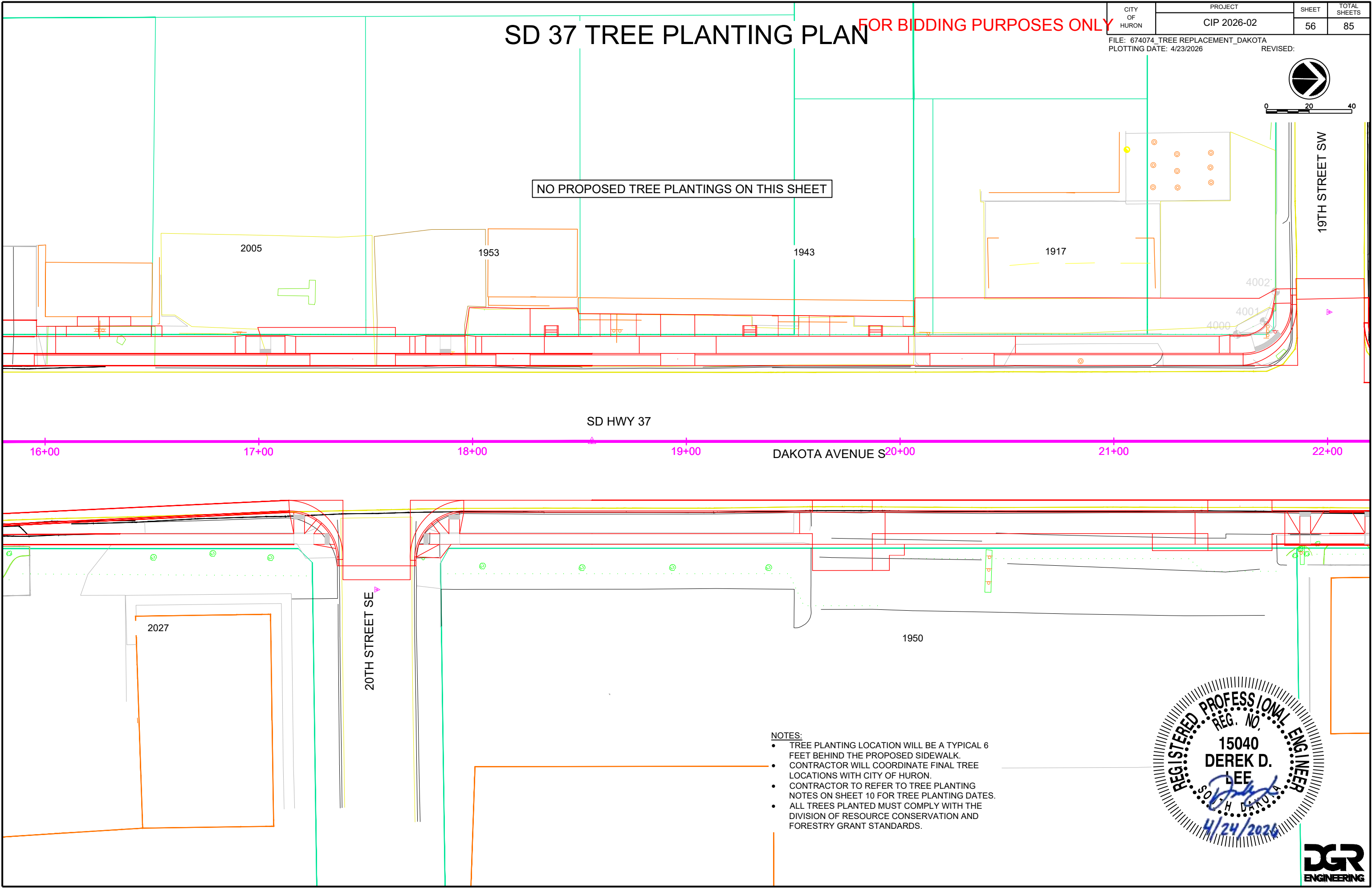
NO PROPOSED TREE PLANTINGS ON THIS SHEET



- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.



FILE: P:\0674074\DRAWINGS\PLANS\674074_TREE REPLACEMENT_DAKOTA



SD 37 TREE PLANTING PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 56	TOTAL SHEETS 85
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FILE: 674074_TREE REPLACEMENT_DAKOTA
PLOTING DATE: 4/23/2026
REVISED:

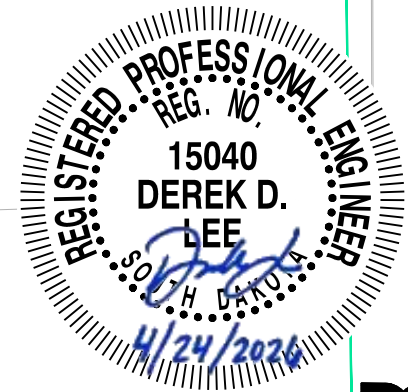


0 20 40

19TH STREET SW

20TH STREET SE

- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.



FILE: P:\0674074\6740745_DRAWINGS\PLANS\674074_TREE REPLACEMENT_DAKOTA

SD 37 TREE PLANTING PLAN

FOR BIDDING PURPOSES ONLY

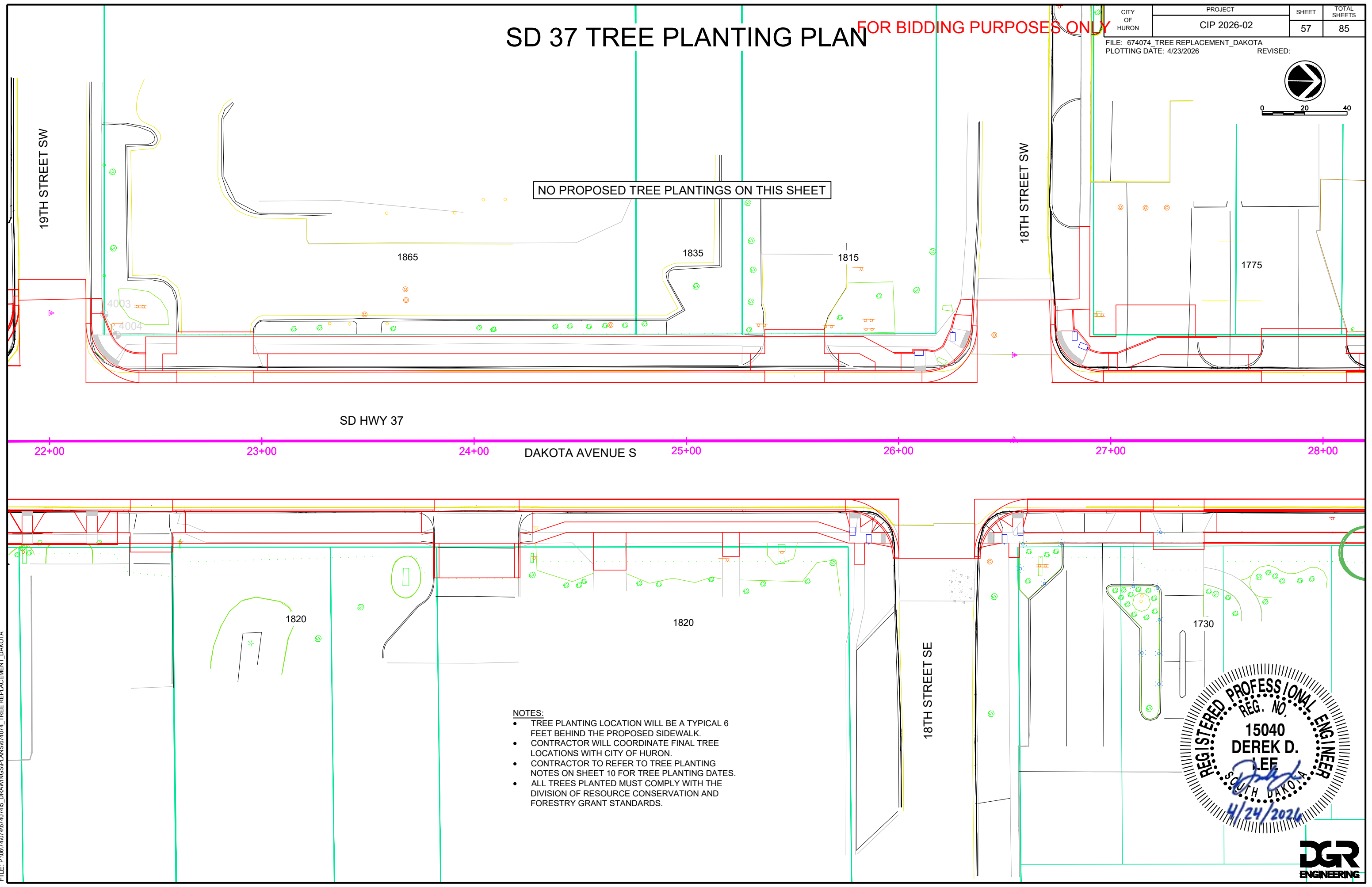
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	CIP 2026-02	57	85

FILE: 674074_TREE REPLACEMENT_DAKOTA
PLOTING DATE: 4/23/2026
REVISED:

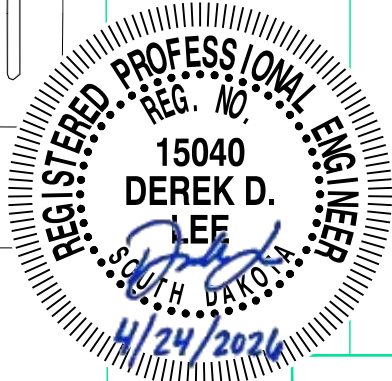


0 20 40

NO PROPOSED TREE PLANTINGS ON THIS SHEET



- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.



SD 37 TREE PLANTING PLAN

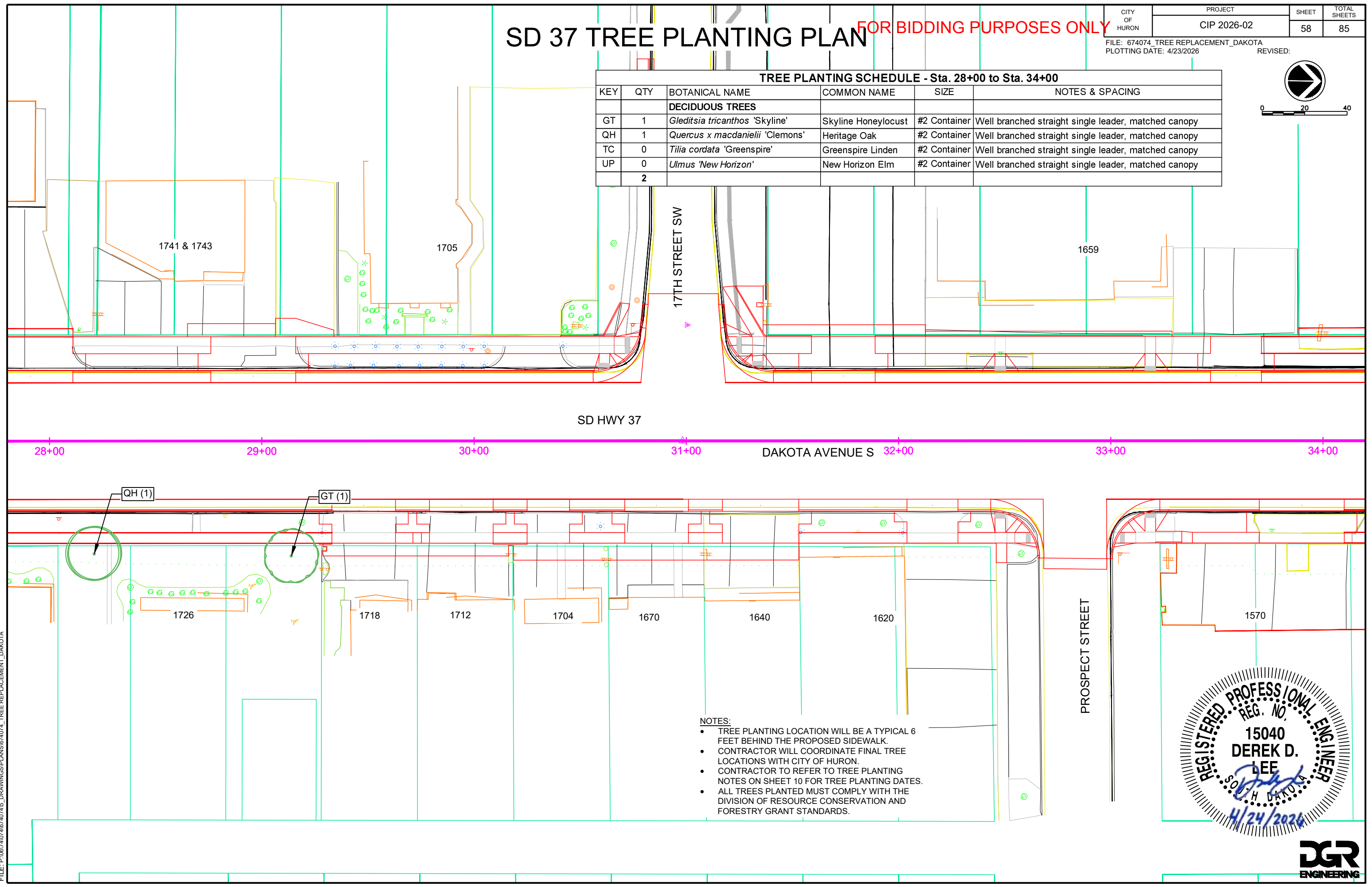
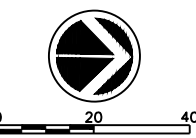
FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	58	85

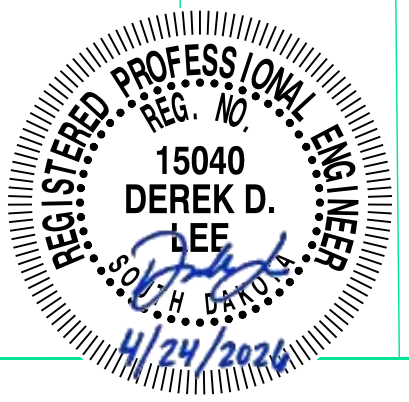
FILE: 674074_TREE REPLACEMENT_DAKOTA
PLOTING DATE: 4/23/2026
REVISED:

TREE PLANTING SCHEDULE - Sta. 28+00 to Sta. 34+00

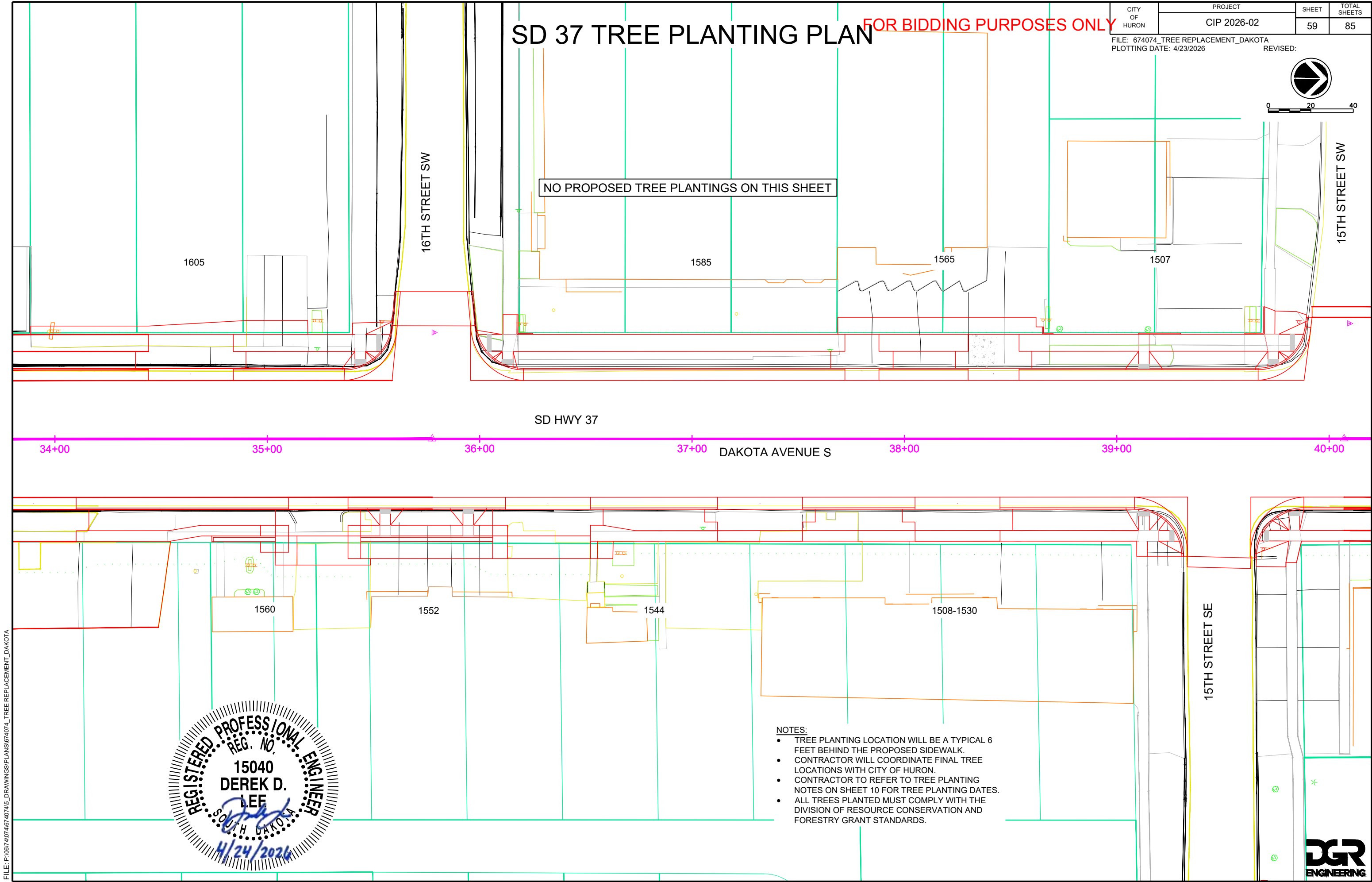
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES & SPACING
DECIDUOUS TREES					
GT	1	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	#2 Container	Well branched straight single leader, matched canopy
QH	1	<i>Quercus x macdanielii</i> 'Clemons'	Heritage Oak	#2 Container	Well branched straight single leader, matched canopy
TC	0	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	#2 Container	Well branched straight single leader, matched canopy
UP	0	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	#2 Container	Well branched straight single leader, matched canopy
	2				



- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.

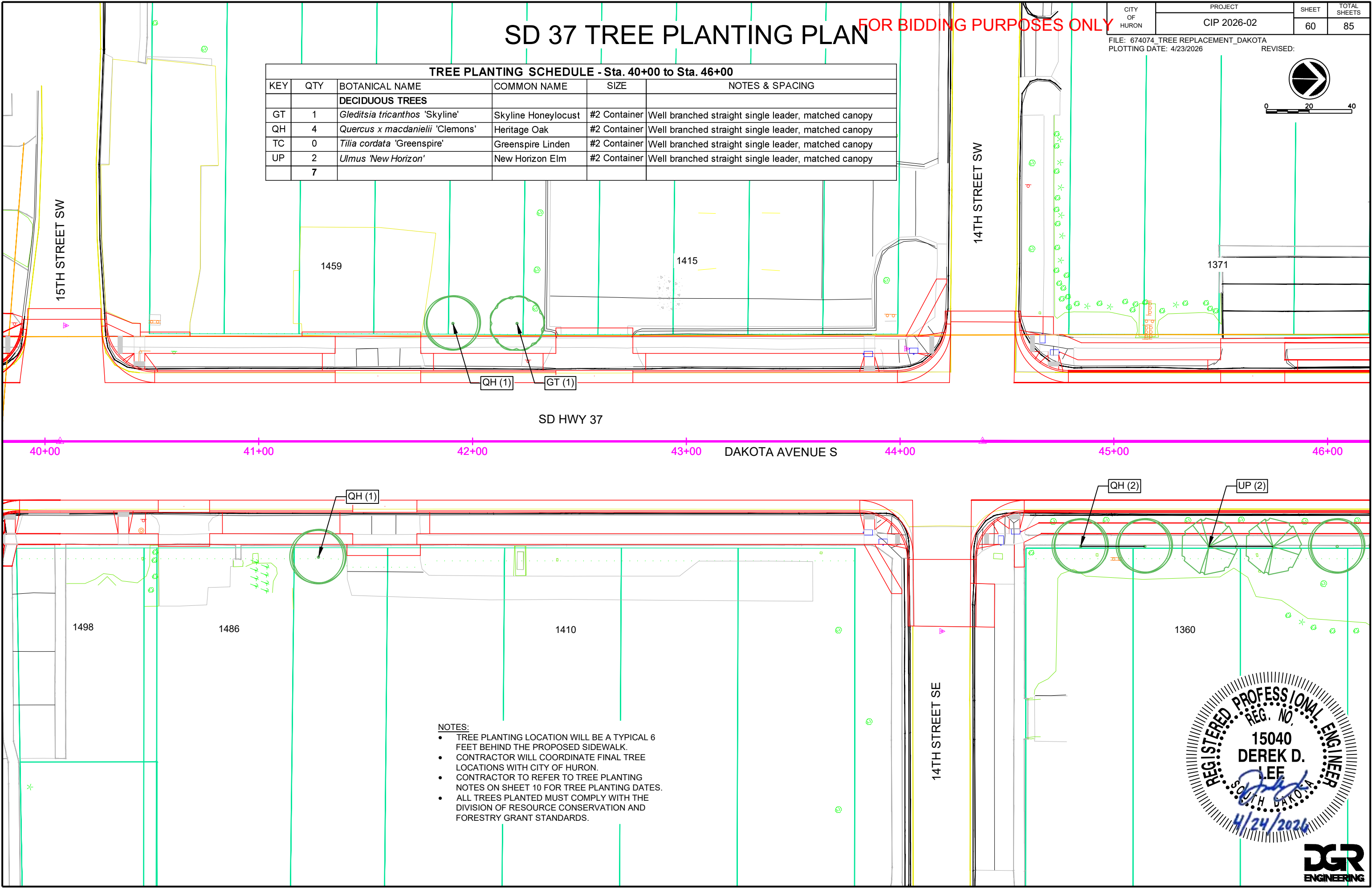


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FILE: P:\067407467\40745_DRAWINGS\PLANS\674074_TREE REPLACEMENT_DAKOTA



SD 37 TREE PLANTING PLAN

FOR BIDDING PURPOSES ONLY

TREE PLANTING SCHEDULE - Sta. 40+00 to Sta. 46+00					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES & SPACING
DECIDUOUS TREES					
GT	1	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	#2 Container	Well branched straight single leader, matched canopy
QH	4	<i>Quercus x macdanielii</i> 'Clemons'	Heritage Oak	#2 Container	Well branched straight single leader, matched canopy
TC	0	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	#2 Container	Well branched straight single leader, matched canopy
UP	2	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	#2 Container	Well branched straight single leader, matched canopy
	7				

CITY OF HURON

PROJECT
CIP 2026-02

SHEET
60

TOTAL SHEETS
85

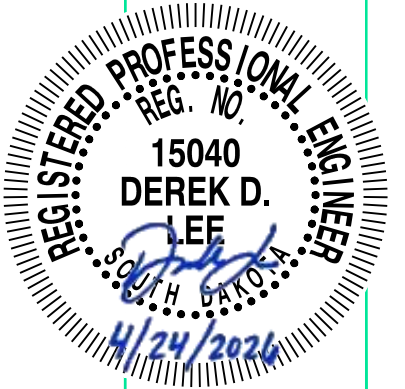
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PLOTING DATE: 4/23/2026

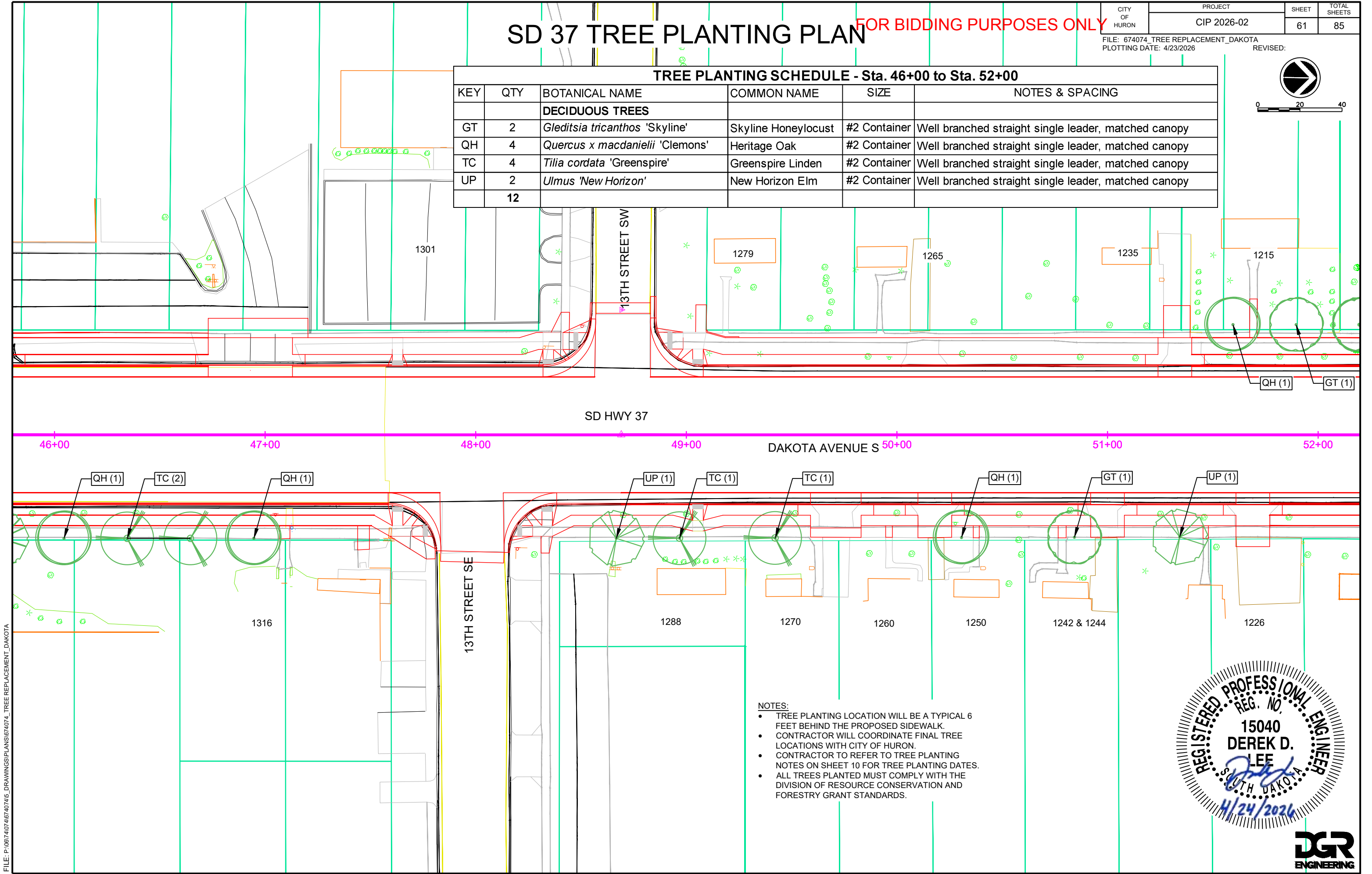
REVISED:

0 20 40

NOTES:

- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
- CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
- CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
- ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.





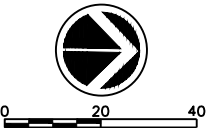
SD 37 TREE PLANTING PLAN

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT CIP 2026-02	SHEET 61	TOTAL SHEETS 85
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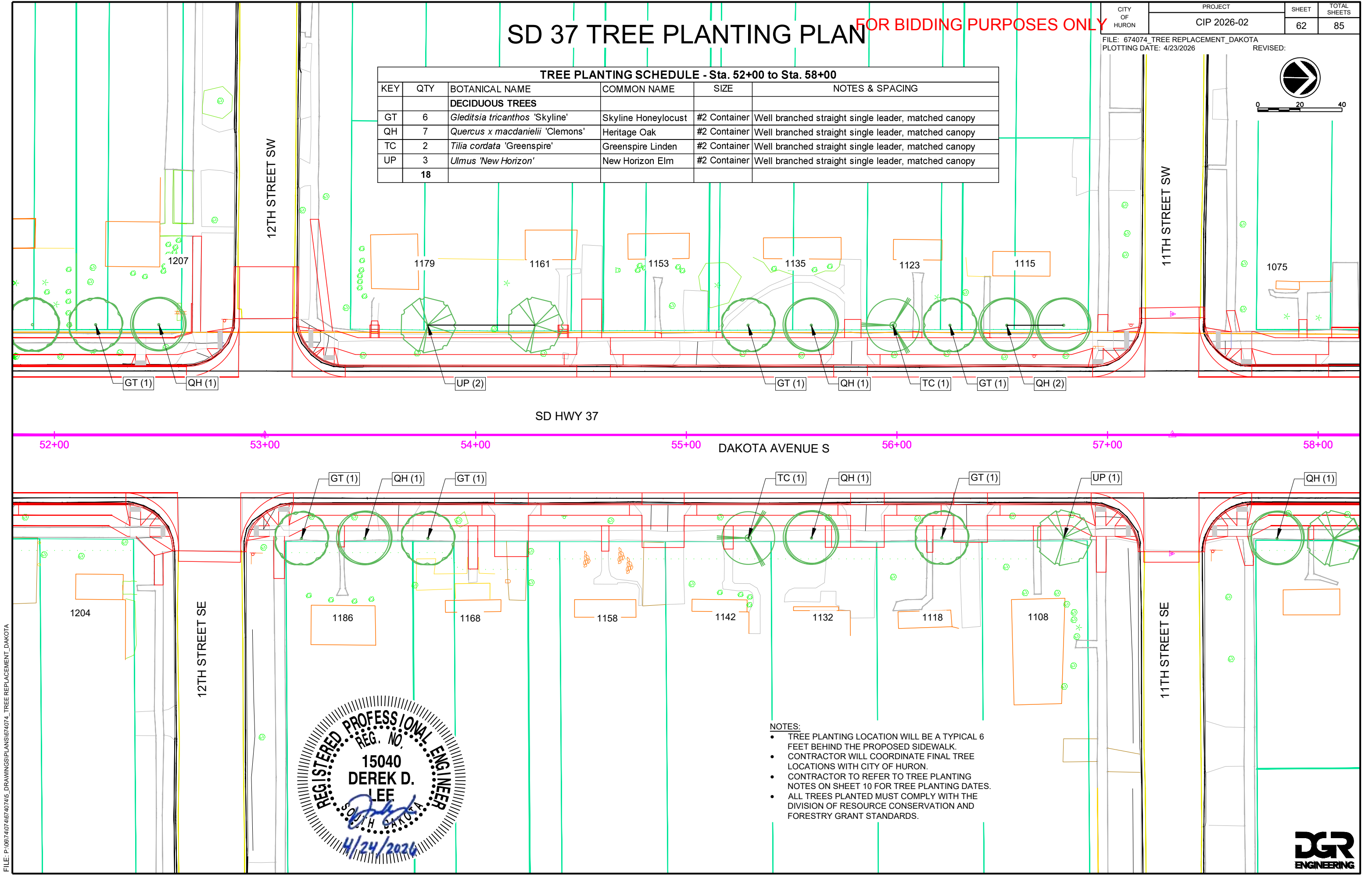
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PLOT DATE: 4/23/2026
REVISED:

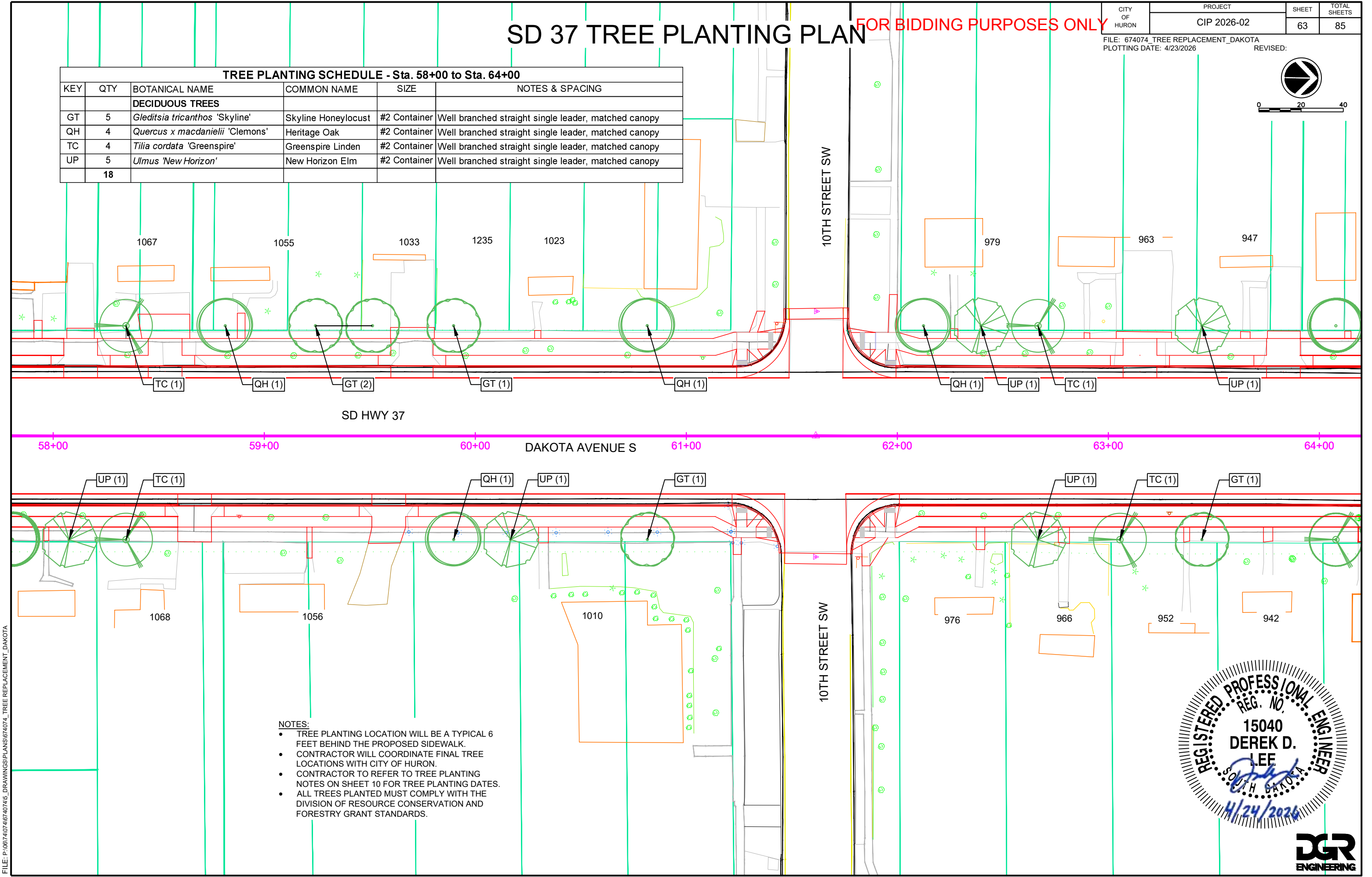
TREE PLANTING SCHEDULE - Sta. 46+00 to Sta. 52+00					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES & SPACING
DECIDUOUS TREES					
GT	2	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	#2 Container	Well branched straight single leader, matched canopy
QH	4	<i>Quercus x macdanielii</i> 'Clemons'	Heritage Oak	#2 Container	Well branched straight single leader, matched canopy
TC	4	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	#2 Container	Well branched straight single leader, matched canopy
UP	2	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	#2 Container	Well branched straight single leader, matched canopy
	12				



- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.







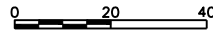
SD 37 TREE PLANTING PLAN

FOR BIDDING PURPOSES ONLY

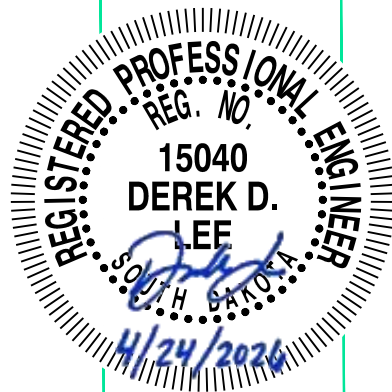
TREE PLANTING SCHEDULE - Sta. 58+00 to Sta. 64+00					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES & SPACING
DECIDUOUS TREES					
GT	5	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	#2 Container	Well branched straight single leader, matched canopy
QH	4	<i>Quercus x macdanielii</i> 'Clemons'	Heritage Oak	#2 Container	Well branched straight single leader, matched canopy
TC	4	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	#2 Container	Well branched straight single leader, matched canopy
UP	5	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	#2 Container	Well branched straight single leader, matched canopy
	18				

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	63	85

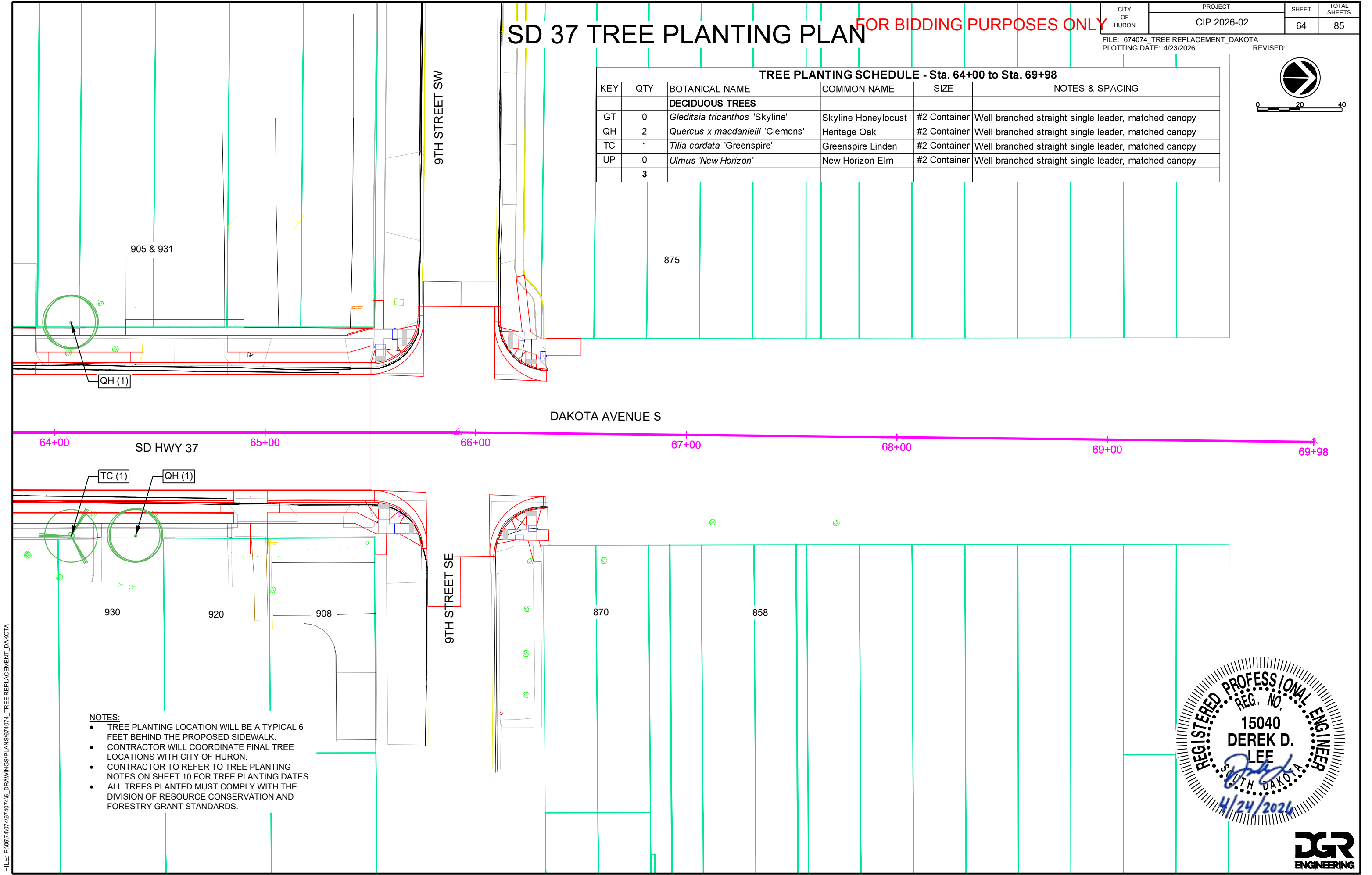
FILE: 674074_TREE REPLACEMENT_DAKOTA
PLOTING DATE: 4/23/2026
REVISED:



- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.



FILE: P:\0674074\6740745_DRAWINGS\PLANS\674074_TREE REPLACEMENT_DAKOTA

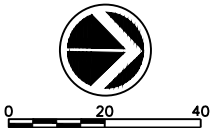


SD 37 TREE PLANTING PLAN

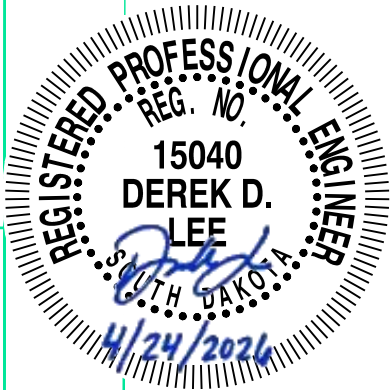
FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	64	85
FILE: 674074_TREE REPLACEMENT_DAKOTA		REVISED:	
PLOTING DATE: 4/23/2026			

TREE PLANTING SCHEDULE - Sta. 64+00 to Sta. 69+98					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES & SPACING
DECIDUOUS TREES					
GT	0	<i>Gleditsia tricanthos</i> 'Skyline'	Skyline Honeylocust	#2 Container	Well branched straight single leader, matched canopy
QH	2	<i>Quercus x macdanielii</i> 'Clemons'	Heritage Oak	#2 Container	Well branched straight single leader, matched canopy
TC	1	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	#2 Container	Well branched straight single leader, matched canopy
UP	0	<i>Ulmus</i> 'New Horizon'	New Horizon Elm	#2 Container	Well branched straight single leader, matched canopy
	3				



- NOTES:
- TREE PLANTING LOCATION WILL BE A TYPICAL 6 FEET BEHIND THE PROPOSED SIDEWALK.
 - CONTRACTOR WILL COORDINATE FINAL TREE LOCATIONS WITH CITY OF HURON.
 - CONTRACTOR TO REFER TO TREE PLANTING NOTES ON SHEET 10 FOR TREE PLANTING DATES.
 - ALL TREES PLANTED MUST COMPLY WITH THE DIVISION OF RESOURCE CONSERVATION AND FORESTRY GRANT STANDARDS.



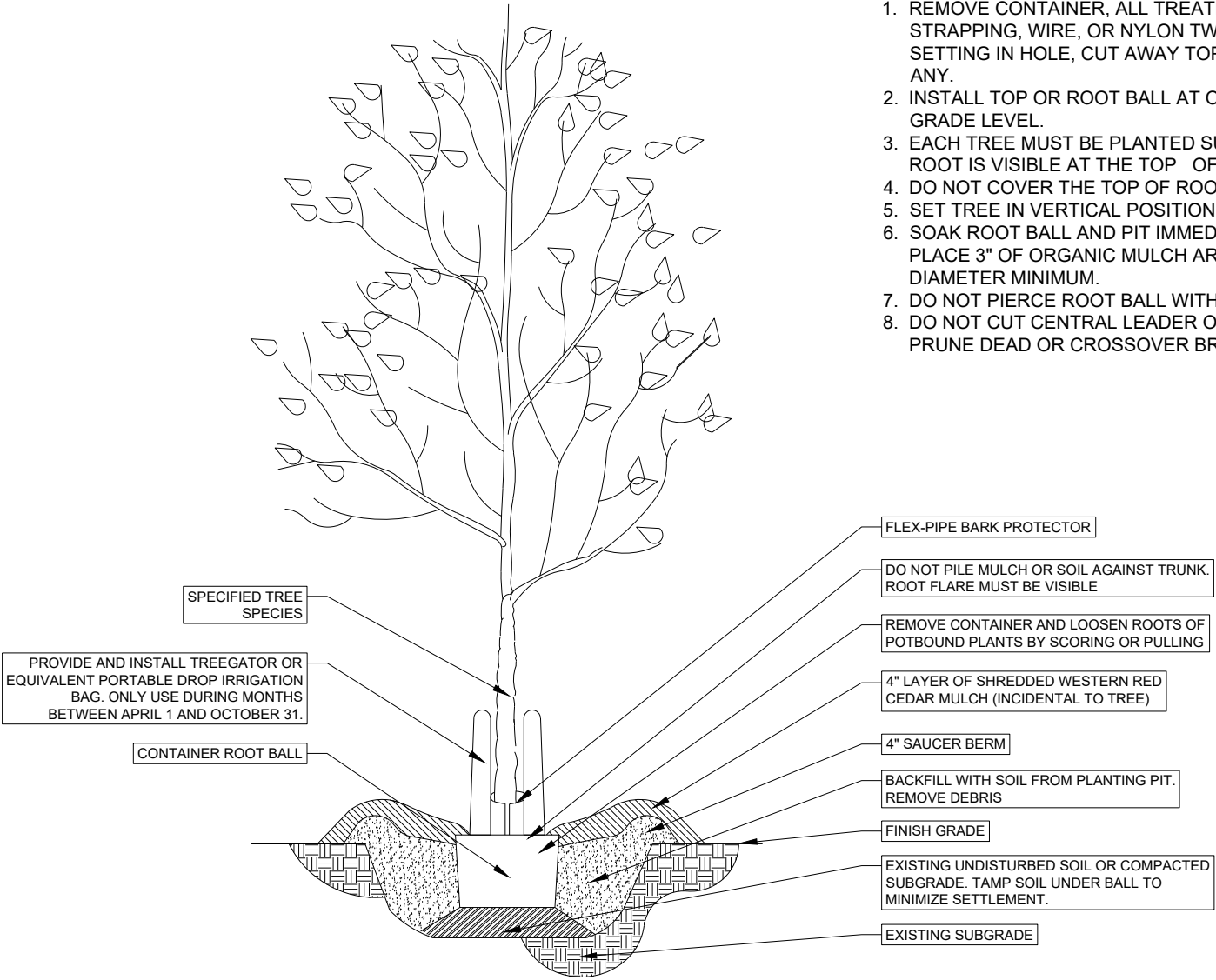
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CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	65	85

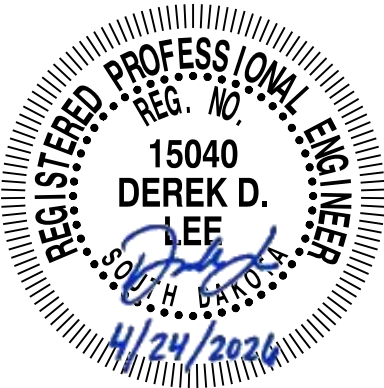
FILE: 674074_TREE REPLACEMENT_DAKOTA
PLOTING DATE: 4/23/2026
REVISED:

GENERAL NOTES

1. REMOVE CONTAINER, ALL TREATED OR PLASTIC-COATED BURLAP, STRAPPING, WIRE, OR NYLON TWINE FROM ROOT BALL. AFTER SETTING IN HOLE, CUT AWAY TOP AND SIDES OR WIRE BASKET, IF ANY.
2. INSTALL TOP OR ROOT BALL AT OR SLIGHTLY ABOVE FINISHED GRADE LEVEL.
3. EACH TREE MUST BE PLANTED SUCH THAT THE FIRST LATERAL ROOT IS VISIBLE AT THE TOP OF THE ROOT BALL.
4. DO NOT COVER THE TOP OF ROOT BALL WITH SOIL.
5. SET TREE IN VERTICAL POSITION PRIOR TO STAKING.
6. SOAK ROOT BALL AND PIT IMMEDIATELY AFTER INSTALLATION. PLACE 3" OF ORGANIC MULCH AROUND BASE OF TREE, 4' DIAMETER MINIMUM.
7. DO NOT PIERCE ROOT BALL WITH STAKES.
8. DO NOT CUT CENTRAL LEADER OR HEAVILY PRUNE TREE, ONLY PRUNE DEAD OR CROSSOVER BRANCHES.



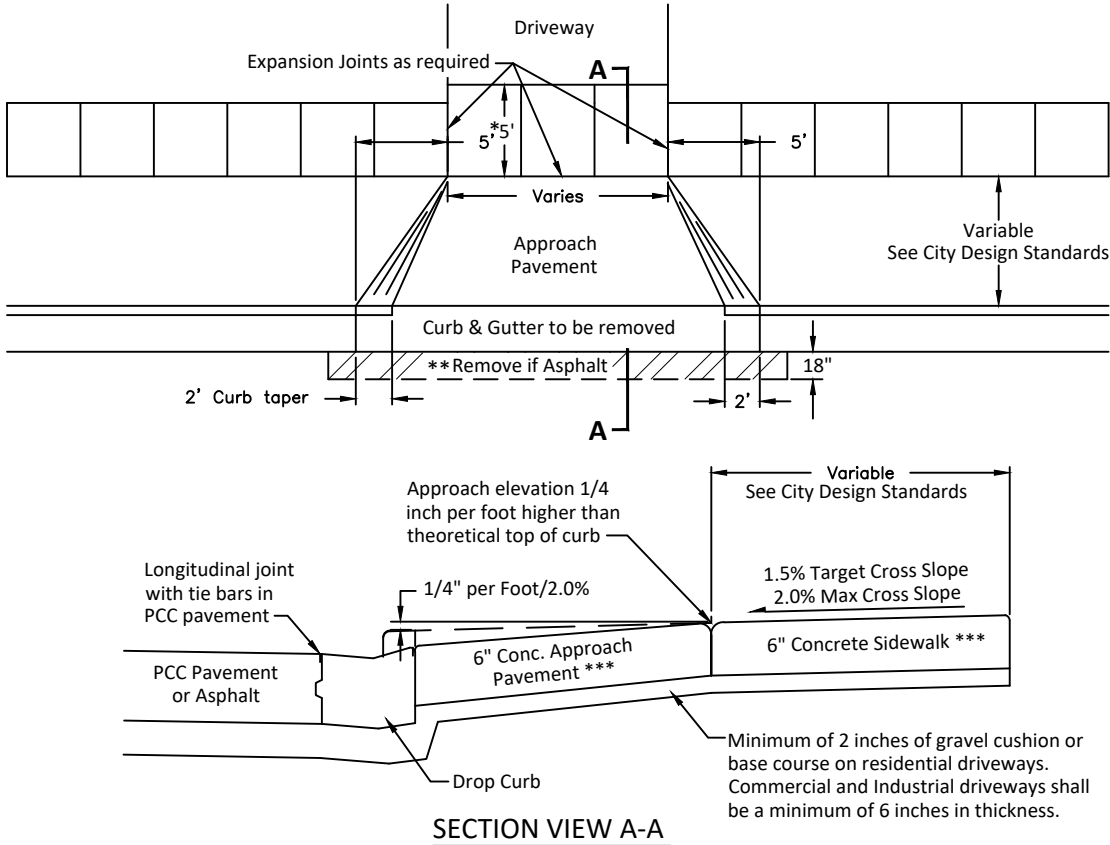
TREE PLANTING
SECTION - NOT TO SCALE



FILE: P:\0674074\06740745_DRAWINGS\PLANS\674074_DETAILS

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	66	85
FILE: 674074_DETAILS PLOTING DATE: 6/3/2026		REVISED: 06/03/2026 DDL	



GENERAL NOTES

- *On new construction, the sidewalk must be a minimum of 5' wide through the driveway approach to accommodate passing space requirements. When the adjoining sidewalk is less than 5' wide, the additional width through the driveway approach shall be located on the building side of the sidewalk, unless insufficient right of way exists to prevent the sidewalk from being installed entirely in the public right of way. In these cases, install the additional sidewalk width on the street side of the sidewalk
- Permits are required before beginning construction or alteration of any driveway for any project not bid by the City.
- The curb and gutter shall be taken out to the nearest construction joint when the joint is within 4' of the end of that driveway.
- Full depth sawing is required when the curb and gutter is not removed at a construction joint. A clean, neat, and vertical cut through the curb section is required.
- Sidewalks within the driveway limits shall have a minimum thickness of 6" unless otherwise specified.
- Sidewalks across alleys shall have a minimum thickness of 6" and be reinforced as shown on the drawings.
- Contraction joints shall be formed in the approach pavement by means of a suitable grooving tool. These joints shall have a depth of at least one quarter the thickness of the concrete approach pavement.
- 2" gravel cushion or base course is required under the approach pavement and shall be incidental to the concrete pavement and sidewalk unless otherwise specified.
- The concrete approach pavement will be measured and paid for at the contract unit price per square foot under the bid item 6" non reinforced concrete or 6" reinforced concrete as applicable. Such price shall be full compensation for all labor, materials and incidentals in connection with constructing the same.
- The concrete in concrete approach pavement shall comply with the requirements of the standard specifications for class M-6 concrete.
- ** Subject to approval of the City Engineer, in new developments or other areas where the asphalt street is new it may be possible to install the drop curb adjacent to the driveway without removing the 18" of asphalt if the asphalt is in good condition and free of any spalling as to allow the drop curb to be installed straight and true.
- *** Concrete approach pavement and concrete sidewalk for alleys shall be 6" reinforced concrete with #4 rebar at 12" on center both ways.

REVISED: February 2018

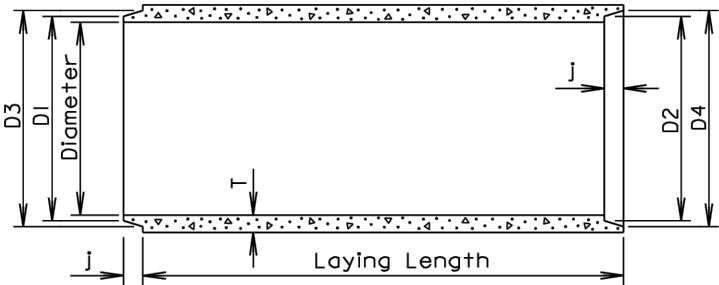
SPECIFICATION
REFERENCE
NO. 380

CITY OF HURON
ENGINEERING DIVISION
CONCRETE APPROACH PAVEMENT

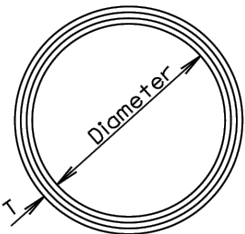
PLATE
NUMBER
380.01

TOLERANCES IN DIMENSIONS

Diameter: $\pm 1.5\%$ for 24" Dia. or less and $\pm 1\%$ or $\frac{3}{8}"$ whichever is more for 27" Dia. or greater.
Diameters at joints: $\pm \frac{3}{16}"$ for 30" Dia. or less and $\pm \frac{1}{4}"$ for 36" or greater.
Length of joint (J): $\pm \frac{1}{4}"$.
Wall thickness (T): not less than design T by more than 5% or $\frac{3}{16}"$, whichever is greater.
Laying length: shall not underrun by more than $\frac{1}{2}"$.



LONGITUDINAL SECTION
(* Tongue and Groove Style Shown)



END VIEW

GENERAL NOTES:

Construction of R.C.P. shall conform to the requirements of Section 990 of the Specifications.

Not more than 2 four-foot sections shall be permitted near the ends of any culvert. Four-foot lengths shall be used only to secure the required length of culvert.

* Unless otherwise specified in the plans, the RCP may be either tongue and groove or bell and spigot style.

Diam. (in.)	Approx. Wt. /Ft. (lb.)	T (in.)	J (in.)	D1 (in.)	D2 (in.)	D3 (in.)	D4 (in.)
12	92	2	1 3/4	13 1/4	13 5/8	13 7/8	14 1/4
15	127	2 1/4	2	16 1/2	16 7/8	17 1/4	17 5/8
18	168	2 1/2	2 1/4	19 5/8	20	20 3/8	20 3/4
21	214	2 3/4	2 1/2	22 7/8	23 1/4	23 3/4	24 1/8
24	265	3	2 3/4	26	26 3/8	27	27 3/8
27	322	3 1/4	3	29 1/4	29 5/8	30 1/4	30 5/8
30	384	3 1/2	3 1/4	32 3/8	32 3/4	33 1/2	33 7/8
36	524	4	3 3/4	38 3/4	39 1/4	40	40 1/2
42	685	4 1/2	4	45 1/8	45 5/8	46 1/2	47
48	867	5	4 1/2	51 1/2	52	53	53 1/2
54	1070	5 1/2	4 1/2	57 7/8	58 3/8	59 3/8	59 7/8
60	1296	6	5	64 1/4	64 3/4	66	66 1/2
66	1542	6 1/2	5 1/2	70 5/8	71 1/8	72 1/2	73
72	1810	7	6	77	77 1/2	79	79 1/2
78	2098	7 1/2	6 1/2	83 3/8	83 7/8	85 5/8	86 1/8
84	2410	8	7	89 3/4	90 1/4	92 1/8	92 5/8
90	2740	8 1/2	7	95 3/4	96 1/4	98 1/8	98 5/8
96	2950	9	7	102 1/8	102 5/8	104 1/2	105
102	3075	9 1/2	7 1/2	109	109 1/2	111 1/2	112
108	3870	10	7 1/2	115 1/2	116	118	118 1/2

April 17, 2026

Published Date: 2027

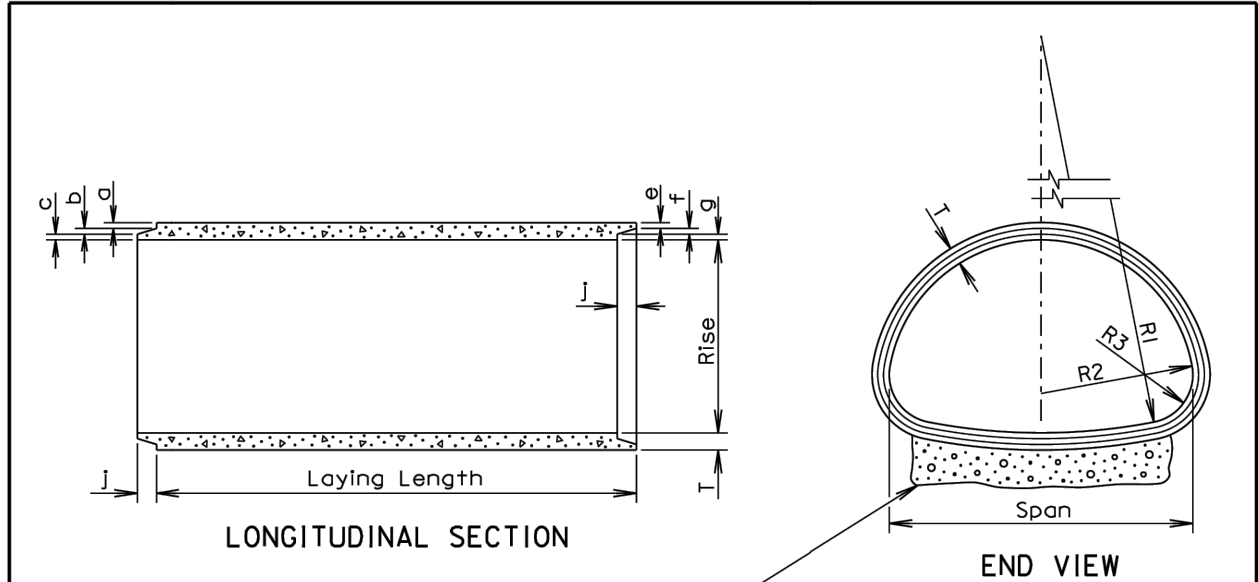
S
D
O
T

REINFORCED CONCRETE PIPE

PLATE NUMBER
450.01

Sheet 1 of 1





TOLERANCES IN DIMENSIONS

Radial dimensions at joints: $\pm \frac{1}{8}$ " for 65" span or less and $\pm \frac{1}{4}$ " for longer spans.
Rise and Span: $\pm 2\%$ of tabular values.
Length of Joint (J): $\pm \frac{1}{4}$ ".
Wall thickness (T): not less than design T by more than 5% or $\frac{3}{16}$ ", whichever is greater.
Laying length: shall not underrun by more than $\frac{1}{2}$ ".

Gravel Bedding Material shall be supplied for 102" to 169" spans. It shall be placed to a thickness of 6" (Min.) x 85% of the Span x Length of culvert and shall conform to the gradation requirements for gravel surfacing except material may be screened or may be plan provided material.

* Size (in.)	Approx. Wt./Ft. (lb.)	Rise (in.)	Span (in.)	T (in.)	a (in.)	b (in.)	c (in.)	J (in.)	e (in.)	f (in.)	g (in.)	R1 (in.)	R2 (in.)	R3 (in.)
18	170	13 1/2	22	2 1/2	1 3/8	3/8	3/4	2	1 1/8	3/8	1	27 1/2	13 3/4	5 1/4
24	320	18	28 1/2	3 1/2	1 5/8	1/2	1 3/8	3	1 3/8	1/2	1 5/8	40 11/16	14 3/4	4 5/8
30	450	22 1/2	36 1/4	4	1 11/16	5/8	1 9/16	3 1/2	1 9/16	5/8	1 11/16	51	18 3/4	6 1/8
36	600	26 5/8	43 3/4	4 1/2	2	3/4	1 3/4	4	1 3/4	3/4	2	62	22 1/2	6 1/2
42	740	31 5/16	51 1/8	4 1/2	2	3/4	1 3/4	4	1 3/4	3/4	2	73	26 1/4	7 3/4
48	890	36	58 1/2	5	2 1/4	3/4	2	5	2	3/4	2 1/4	84	30	8 7/8
54	1100	40	65	5 1/2	2 1/2	3/4	2 1/4	5	2 1/4	3/4	2 1/2	92 1/2	33 3/8	10
60	1400	45	73 1/2	6	3 5/16	3/4	1 5/16	5	2 3/4	3/4	2 1/2	105	37 1/2	11
72	1900	54	88	7	3 13/16	1	2 3/16	6	3 1/4	1	2 3/4	126	45	13 5/16
84	2500	62	102	8	4 1/8	1	2 7/8	6	3 1/2	1	3 1/2	162 1/2	52	14 1/2
96	3300	78	122 3/8	9	4 1/2	1	3 1/2	7	4	1	4	218	62	20
108	4200	88	138 1/2	10	5	1	4	7	4 1/2	1	4 1/2	269	70	22
120	5100	96 7/8	154	11	5 1/2	1	4 1/2	7	5	1	5	301 3/8	78	24
132	5100	106 1/2	168 3/4	10		1	4	7	4 1/2	1	4 1/2	329	85 5/8	26 7/8

* Equivalent Diameter of Circular R. C. P.

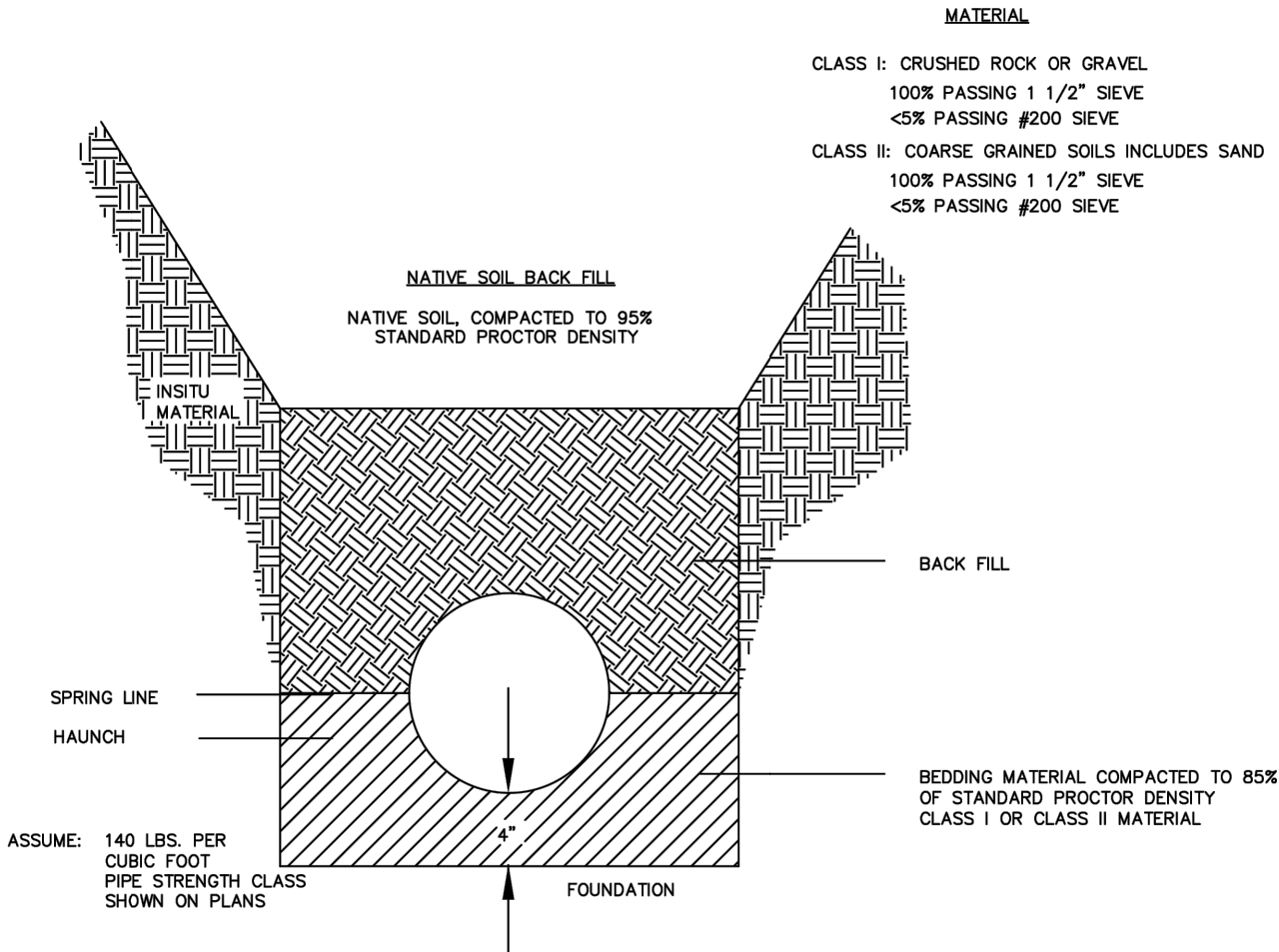
GENERAL NOTES:

Construction of R.C.P. Arch shall conform to the requirements of Section 990 of the Specifications. Not more than 2 four-foot sections shall be permitted near the ends of any culvert. Four-foot lengths shall be used only to secure the required length of culvert.

June 26, 2015

Published Date: 2027	S D O T	REINFORCED CONCRETE PIPE ARCH	PLATE NUMBER 450.02
			Sheet 1 of 1

FOR 12" THRU 84" DIAMETER PIPE
S.I.D.D. TYPE 2 INSTALLATION



QUANTITY ESTIMATE TABLE
FOR BEDDING MATERIAL

12"	0.14 TON/L.F.
15"	0.19 TON/L.F.
18"	0.25 TON/L.F.
21"	0.29 TON/L.F.
24"	0.33 TON/L.F.
27"	0.36 TON/L.F.
30"	0.40 TON/L.F.
33"	0.44 TON/L.F.
36"	0.48 TON/L.F.
42"	0.57 TON/L.F.
48"	0.67 TON/L.F.
54"	0.77 TON/L.F.
60"	0.88 TON/L.F.
66"	0.98 TON/L.F.
72"	1.10 TON/L.F.
78"	1.24 TON/L.F.
84"	1.35 TON/L.F.

NOTE: TRENCH WIDTH TO BE TWICE THE OUTSIDE DIAMETER, OR THE OUTSIDE DIAMETER PLUS TWO FEET, WHICH EVER IS LESS.

REVISED: NOVEMBER 2001

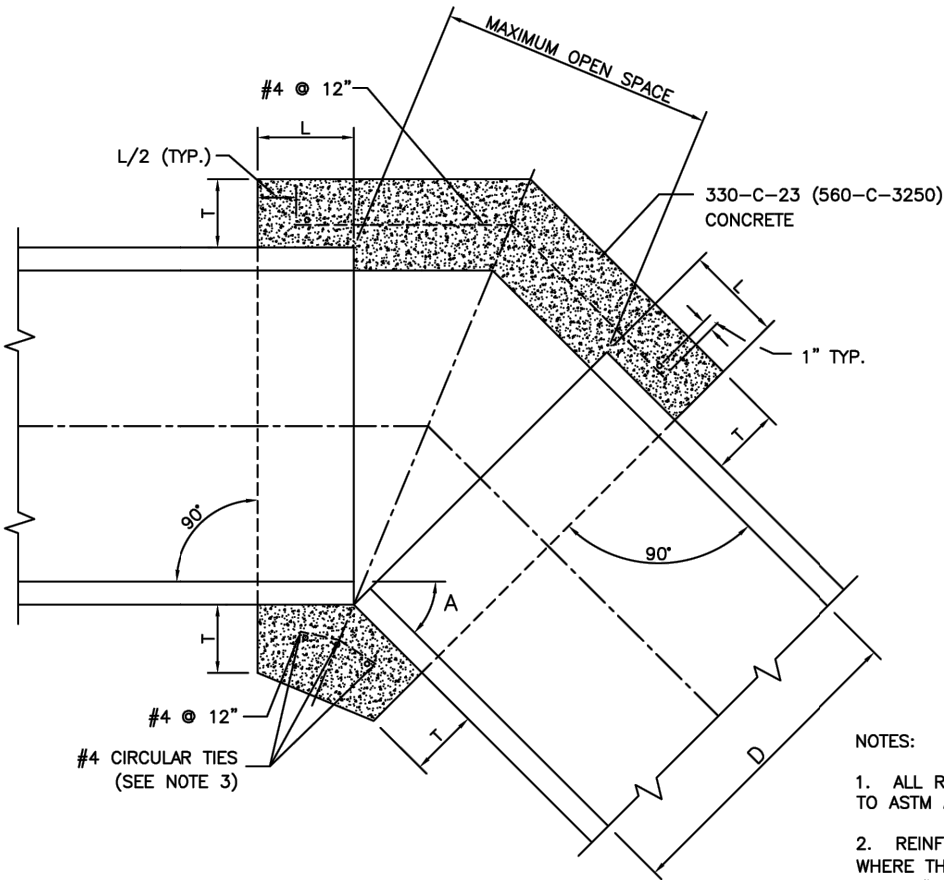
SPECIFICATION REFERENCE NO. SPECIAL	CITY OF HURON ENGINEERING BEDDING AND BACK FILL FOR RCP TYPE 2 INSTALLATION	PLATE NUMBER 450.07	DGR ENGINEERING

FILE: P:\0674074\0745_DRAWINGS\PLANS\674074_DETAILS

FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	68	85

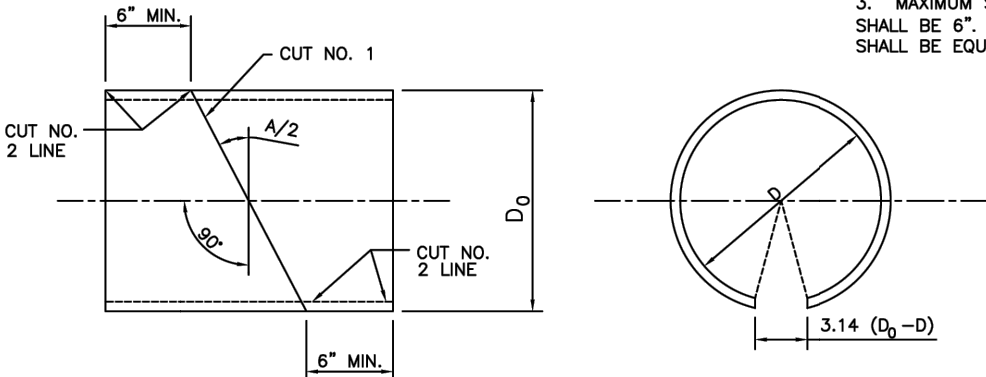
FILE: 674074 DETAILS
PLOTING DATE: 6/3/2026
REVISED: 06/03/2026 DDL



D	L	T
12"	12"	4"
18"	12"	5"
24"	12"	6"
30"	18"	7"
36"	18"	9"
42"	18"	9"
48"	18"	10"
57"	18"	10"
60"	21"	11"
66"	21"	11"
72"	24"	12"

NOTES:

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
2. REINFORCING STEEL IS NOT REQUIRED WHERE THE "MAXIMUM OPEN SPACE" IS LESS THAN 3".
3. MAXIMUM SPACING FOR CIRCULAR TIES SHALL BE 6". THE DIAMETER OF CIRCULAR TIES SHALL BE EQUAL TO THE PIPE O.D. PLUS T.



DETAIL "A"

SONO-TUBE, OR EQUAL, INTERIOR FORM

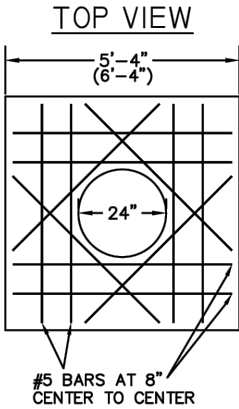
CUT NO. 1: SAW THE TUBE AT AN ANGLE OF A/2 WITH THE TRANSVERSE PLANE. REVERSE ON SECTION AND TAPE BOTH SECTIONS TOGETHER FORMING THE DEFLECTION ANGLE A.
CUT NO. 2: SAW THE TUBE LONGITUDINALLY REMOVING A STRIP 3.14 (D - D) WIDE ON THE SIDE OPPOSITE THE OPEN JOINT. BEND THE ENDS OF THE CUT TOGETHER AND INSERT THE TUBE IN THE PIPE.

ISSUED: FEBRUARY 2004

SPECIFICATION
REFERENCE
NO.
450

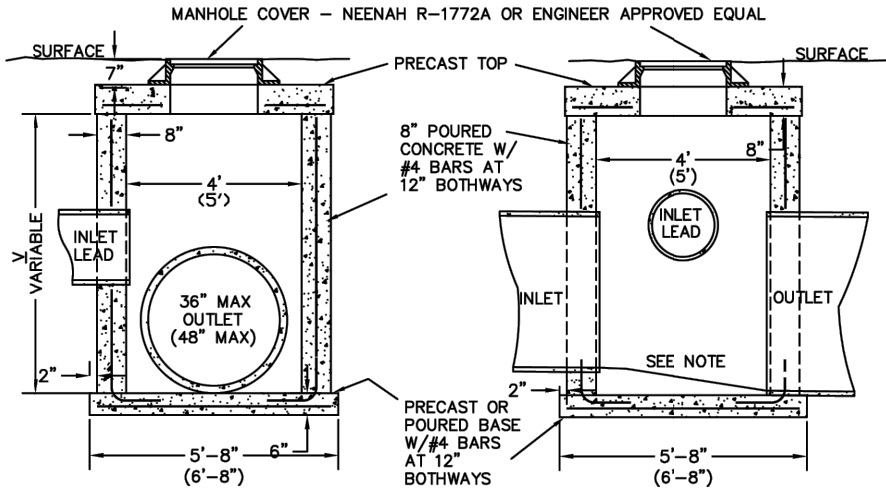
CITY OF HURON
ENGINEERING
CONCRETE COLLAR

PLATE
NUMBER
450.17 SP



GENERAL NOTES

- USE SOUTH DAKOTA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION, AND REQUIRED PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS AS INCLUDED IN THE PROPOSAL.
- ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A615, GRADE 60.
- ALL REINFORCING STEEL SHALL BE CUT AND/OR BENT IN THE FIELD TO MAINTAIN A MINIMUM OF 2" COVER ON ALL REINFORCING STEEL.
- NO VERTICAL CONSTRUCTION JOINTS ARE ALLOWED.
- ALL CONC. SHALL BE CLASSED M-6.
- UNIT STRESSES: CONCRETE $F_c = 1600$ P.S.I.
REINFORCING STEEL $F_c = 20,000$ P.S.I.
- TOP OF MANHOLE COVER TO BE SET FLUSH WITH FINISHED SURFACE ELEVATION.



SIDE VIEWS

ESTIMATED QUANTITIES

ITEM	UNIT	4' X 4' JCT. BOX		5' X 5' JCT. BOX	
		CONSTANT	VARIABLE	CONSTANT	VARIABLE
* CLASS M6 CONCRETE	CUYDS	1.29	0.46V	1.93	0.56V
REINFORCEMENT-CONC. MASONRY	LBS	103	23V	131	35V
MANHOLE RIM & COVER-AS SPECIFIED	EACH	1	---	1	---

* CONSTANT SHALL BE REDUCED FOR THE APPROPRIATE PIPE OR COMBINATION OF PIPES, THUS:
12" DIA.--0.03 C.Y., 15" DIA.--0.04 C.Y., 18" DIA.--0.05 C.Y., 21" DIA.--0.07 C.Y., 24" DIA.--0.09 C.Y.,
27" DIA.--0.11 C.Y., 30" DIA.--0.14 C.Y., 33" DIA.--0.17 C.Y., 36" DIA.--0.20 C.Y., 42" DIA.--0.26 C.Y.,
48" DIA.--0.34 C.Y.

NOTES:

- COVER REINFORCEMENT REQUIRES 12-#5 BARS 5'(6') LONG TO BE PLACED AS SHOWN. 2" FROM CIRCULAR OPENING AND 8" CENTER TO CENTER AT A DEPTH OF 6" W/MIN. COVER THICKNESS OF 8".
- FLOOR OF JCT. BOX TO BE FINISHED IN SUCH A MANNER TO INSURE UNINTERRUPTED FLOW THRU THE BOX.
- WHEN PIPE SIZES DIFFER THRU JCT. BOX, TOP OF PIPE TO MATCH WHEN POSSIBLE.
- () INDICATES SPECIFICATIONS FOR A 5' X 5' JCT. BOX. MAXIMUM PIPE SIZE ALLOWED FOR 4' X 4' JCT. BOX IS 36" R.C.P. A 5' X 5' JCT. IS 48" R.C.P.
- VARIABLE DEPTH UP TO 8'

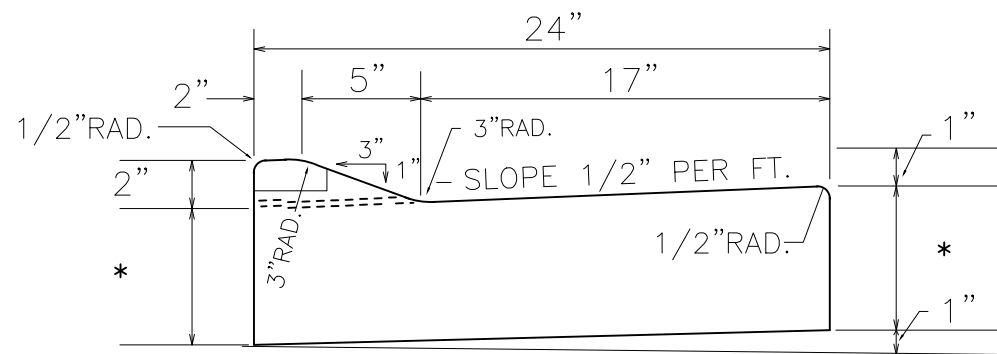
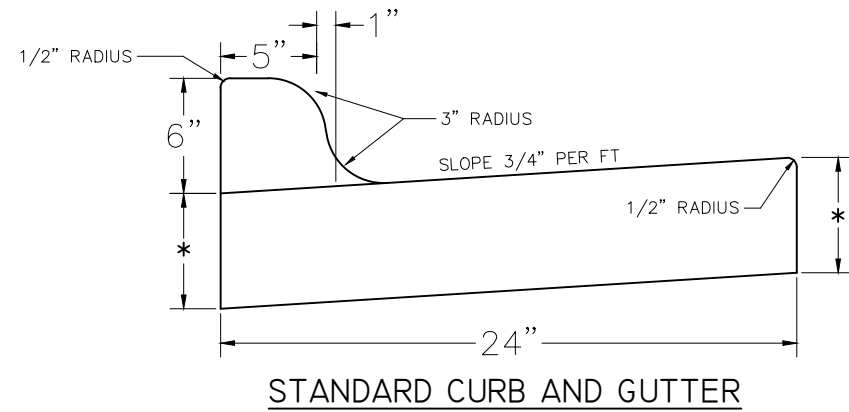
REVISED: DECEMBER 1995

SPECIFICATION
REFERENCE
NO.
460

CITY OF HURON
ENGINEERING
STANDARD STORM SEWER
JUNCTION BOX TYPE I

PLATE
NUMBER
460.05





DRIVE OVER TYPE CURB AND GUTTER
(REQUIRED IN NEW DEVELOPMENTS)

* THICKNESS SHALL BE EQUAL TO THE DEPTH OF THE ADJOINING PAVEMENT BUT NOT LESS THAN 6".

GENERAL NOTES:

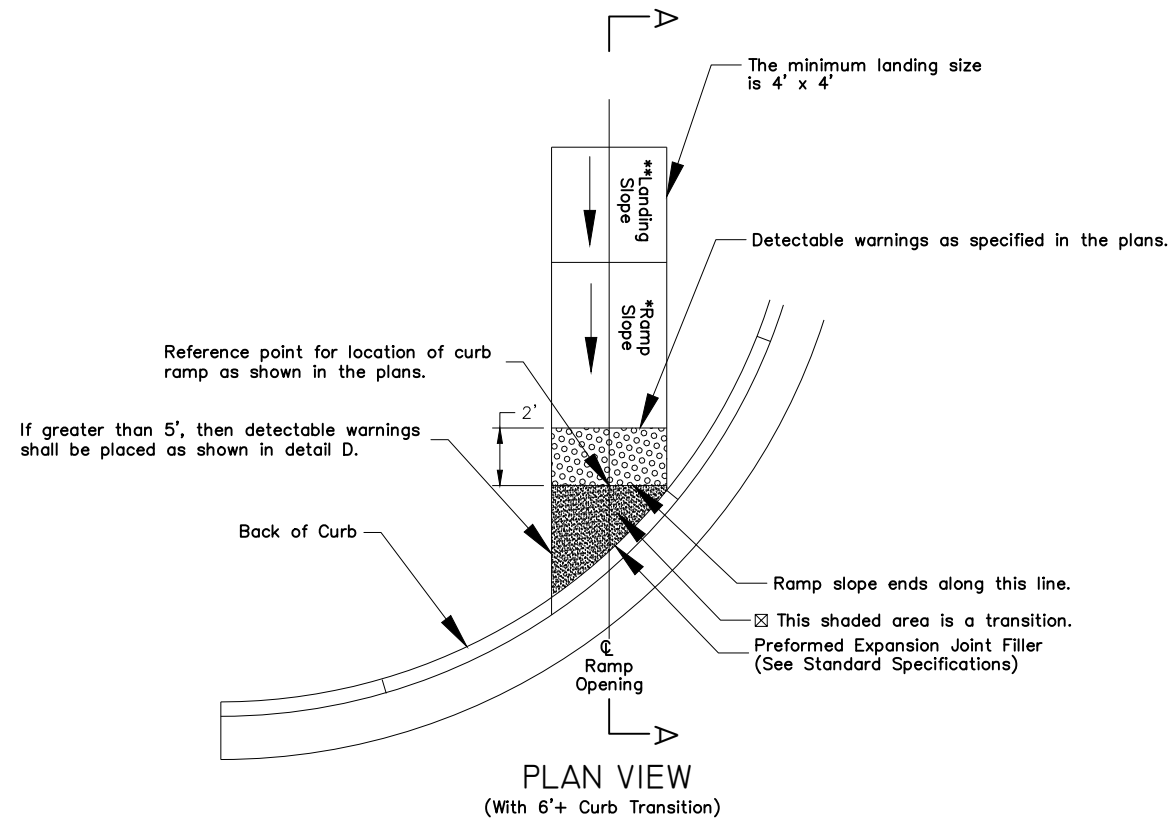
- 1) On PCC pavement a keyway longitudinal joint with tie bars shall be used when curb and gutter is poured separately.
- 2) Curb and gutter shall be constructed using M-6 concrete unless monolithically constructed with the adjacent pavement. In monolithic paving, concrete mix for the curb and gutter may be the same as the adjacent concrete pavement.
- 3) The curb transition length at ADA curb ramps will be dependent on the type of curb ramp being installed. Refer to plate 651.06 for additional curb transition information.

Revised: February 2018

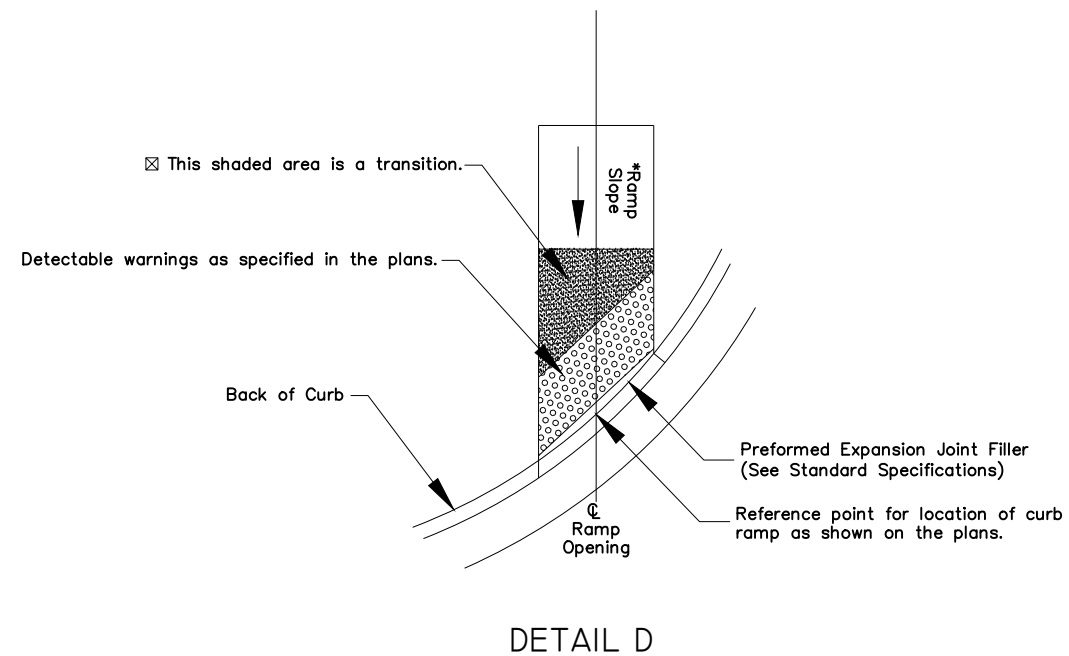
SPECIFICATION
REFERENCE
NO.
650

CITY OF HURON
ENGINEERING
CONCRETE CURB AND
GUTTER SECTION

PLATE
NUMBER
650.01



- ☑ The slope within the transition area shall not be steeper than 20:1 (5%).
- * The curb transition shall be a minimum of 6' long, a maximum of 10' long, and the curb transition slope shall not be steeper than a 10:1 (10%) unless stated otherwise in the plans.

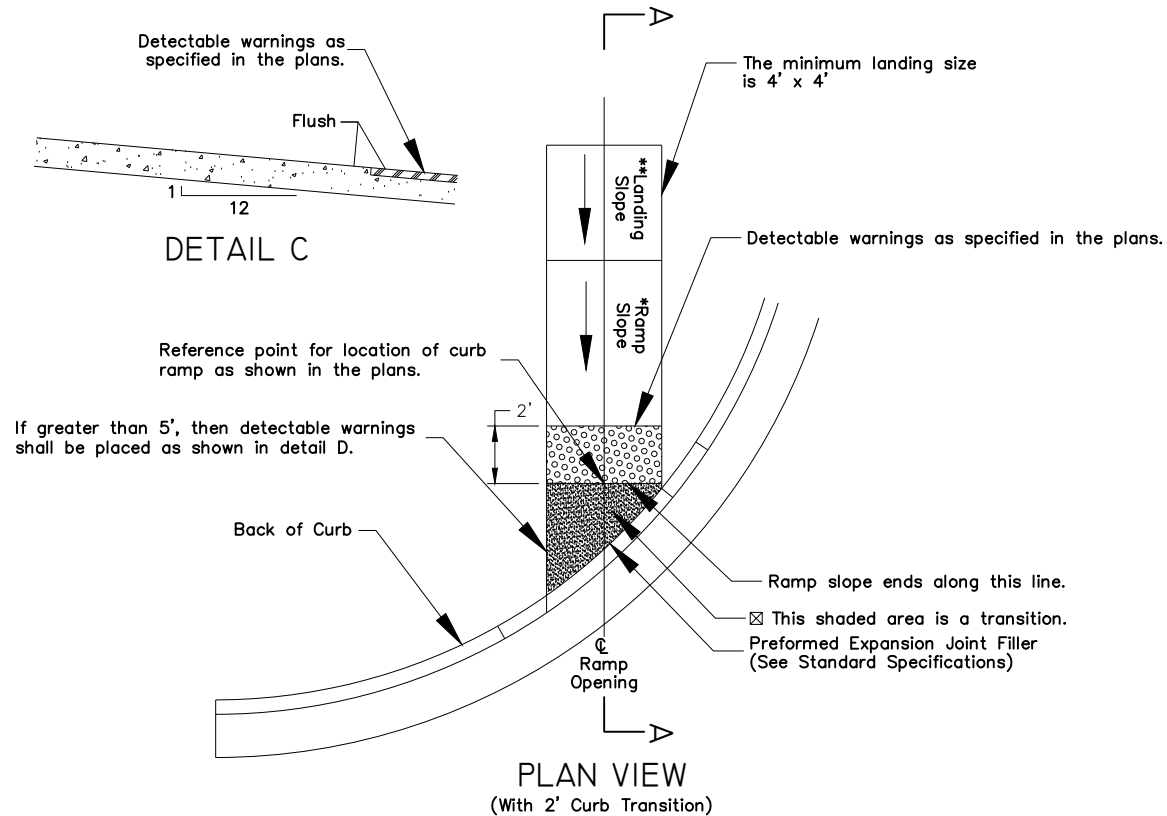


SPECIFICATION
REFERENCE
NO.
651

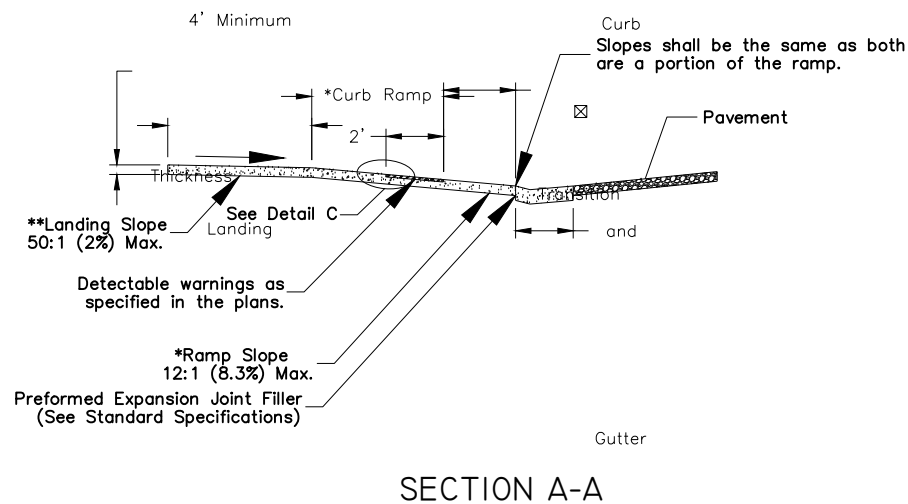
CITY OF HURON
ENGINEERING
TYPE 2 CURB RAMP
(DIRECTIONAL CURB RAMP)

PLATE NUMBER
651.02
SHEET 1 OF 3

ISSUED: MARCH 2010



- * The ramp slope shall be 12:1 (8.3%) maximum. The ramp length shall not exceed 15' unless stated otherwise in the plans. Ramp slopes are designed at 12:1 (8.3%) unless stated otherwise in the plans.
- ** The landing slope shall not be steeper than 50:1 (2%) in any direction of pedestrian travel.
- **** The ramp width is 4' minimum.



ISSUED: MARCH 2010

SPECIFICATION
REFERENCE
NO.
651

CITY OF HURON
ENGINEERING
TYPE 2 CURB RAMP
(DIRECTIONAL CURB RAMP)

PLATE NUMBER
651.02
SHEET 2 OF 3

GENERAL NOTES:

For illustrative purpose only, type I detectable warnings are shown in the drawings.

The curb ramp depicted on this standard plate may be used with a PCC fillet section, with curved curb and gutter, or with straight curb and gutter. The curb ramp shall be placed at the location stated in the plans.

Sidewalk shall not be placed adjacent to the ramp when a 2' curb transition is used unless shown otherwise in the plans.

- * Care shall be taken to ensure a uniform grade on the ramp, free of sags and short grade changes.

Surface texture of the ramp shall be obtained by coarse brooming transverse to the slope of the ramp.

The normal gutter line profile shall be maintained through the area of the ramp.

Joints shall be sawed or tooled into the concrete adjacent to the detectable warnings to alleviate possible corner cracking.

Care shall be taken to ensure that the surface of the detectable warnings are clean and maintain a uniform color.

There will be no separate payment for curb ramps. The curb ramp shall be measured and paid for at the contract unit price per square foot for the corresponding concrete sidewalk bid item. The square foot area of the detectable warnings shall be included in the measured and paid for quantity of sidewalk.

The curb transitions and ramp opening shall be measured and paid for at the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used. The curb transitions and ramp opening shall be measured and paid for at the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

All costs for furnishing and installing the transition at the base of the ramp shall be incidental to the contract unit price per foot for the corresponding curb and gutter bid item when curb and gutter is used and shall be incidental to the contract unit price per square yard for the corresponding PCC fillet section bid item when a PCC fillet section is used.

The type I detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type I detectable warnings including labor, equipment, materials, and incidentals shall be paid for at the contract unit price per square foot for "Type I Detectable Warnings".

The type II detectable warnings shall be measured to the nearest square foot. All costs for furnishing and installing the type II detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding shall be paid for at the contract unit price per square foot for "Type II Detectable Warnings".

ISSUED: MARCH 2010

SPECIFICATION
REFERENCE
NO.
651

CITY OF HURON
ENGINEERING
TYPE 2 CURB RAMP
(DIRECTIONAL CURB RAMP)

PLATE NUMBER
651.02
SHEET 3 OF 3

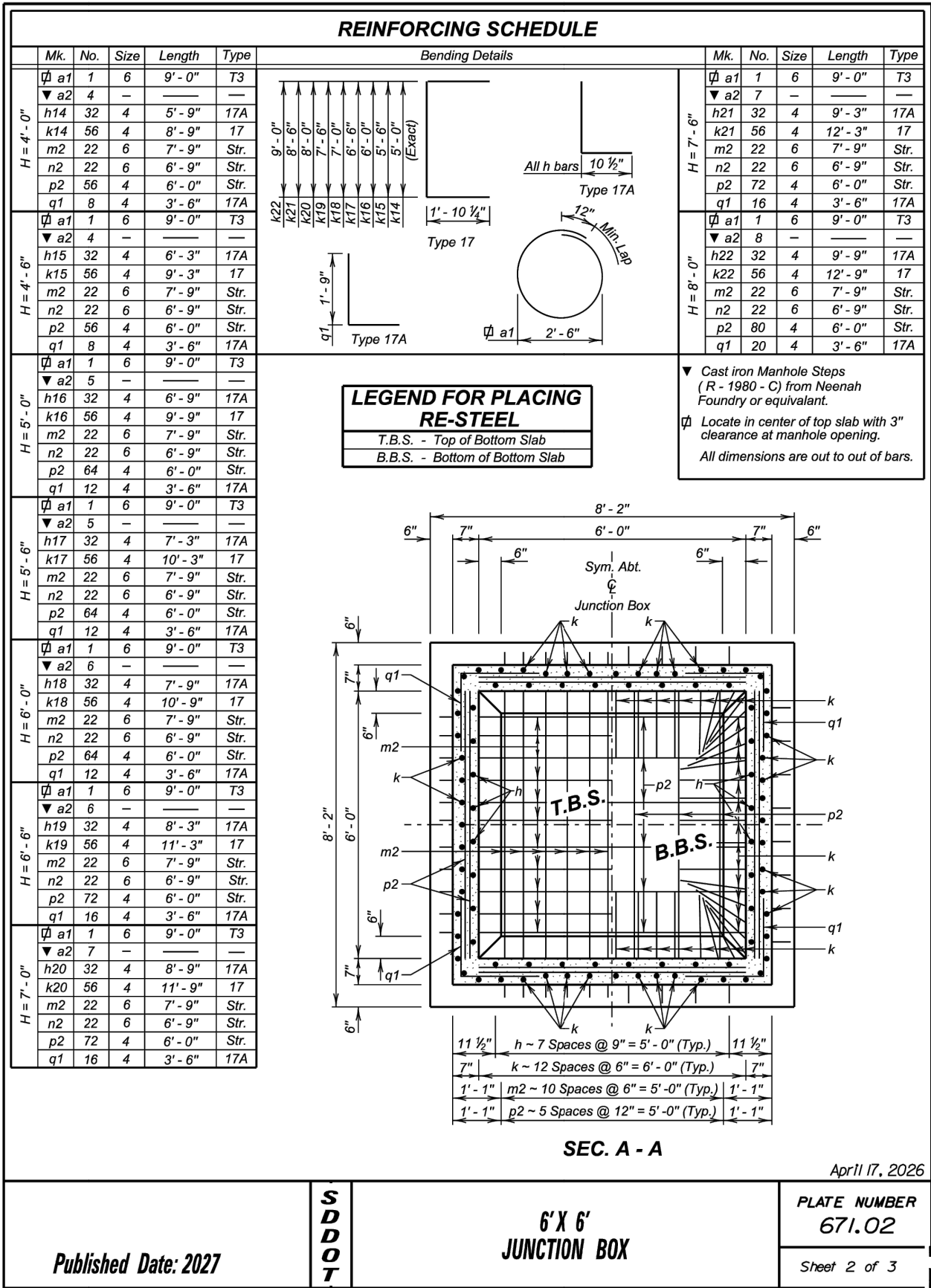
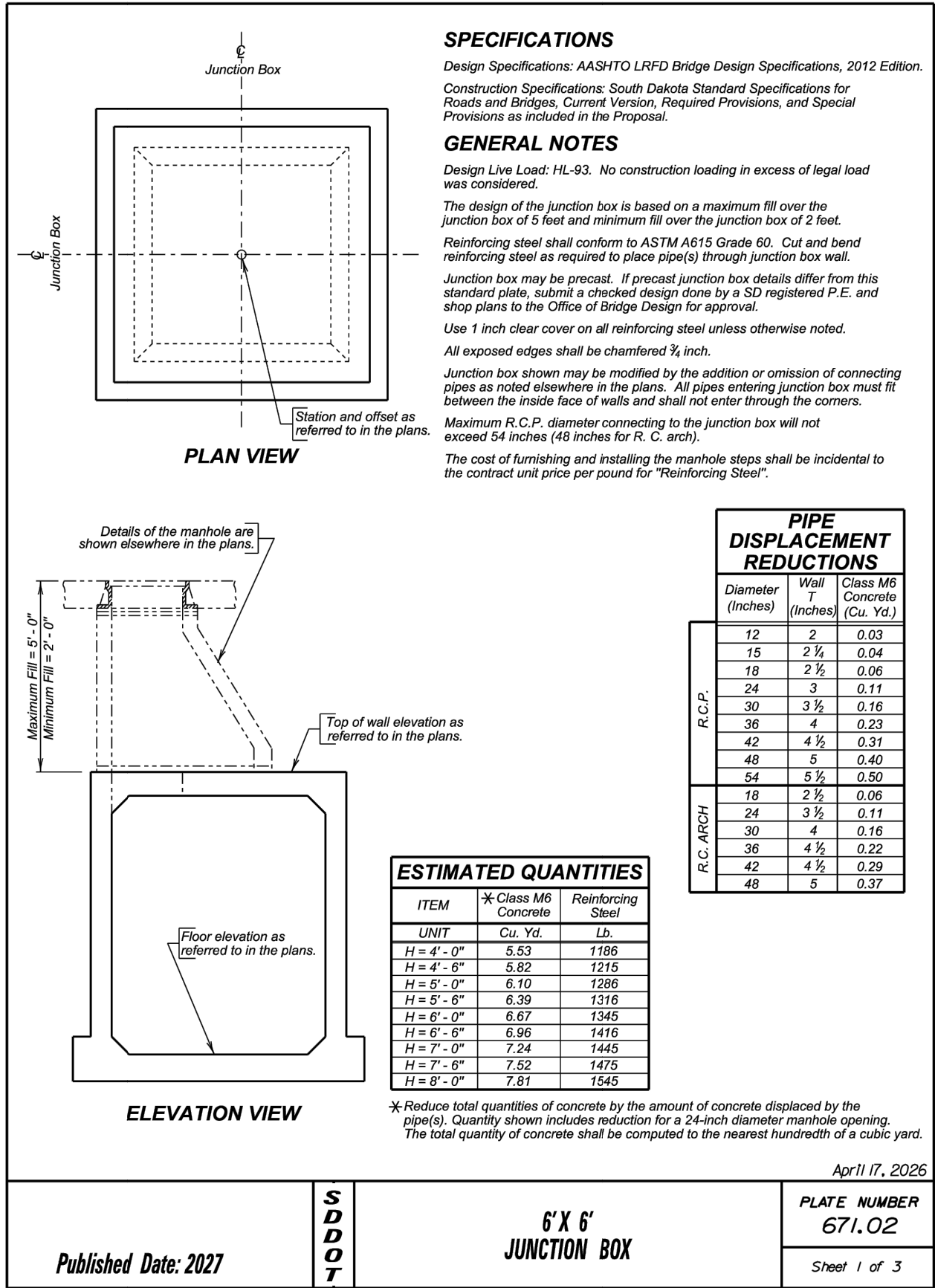


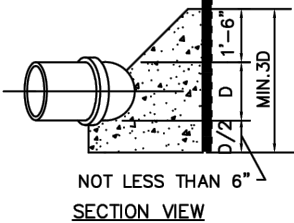
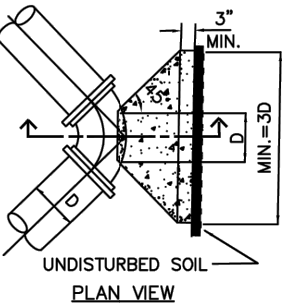
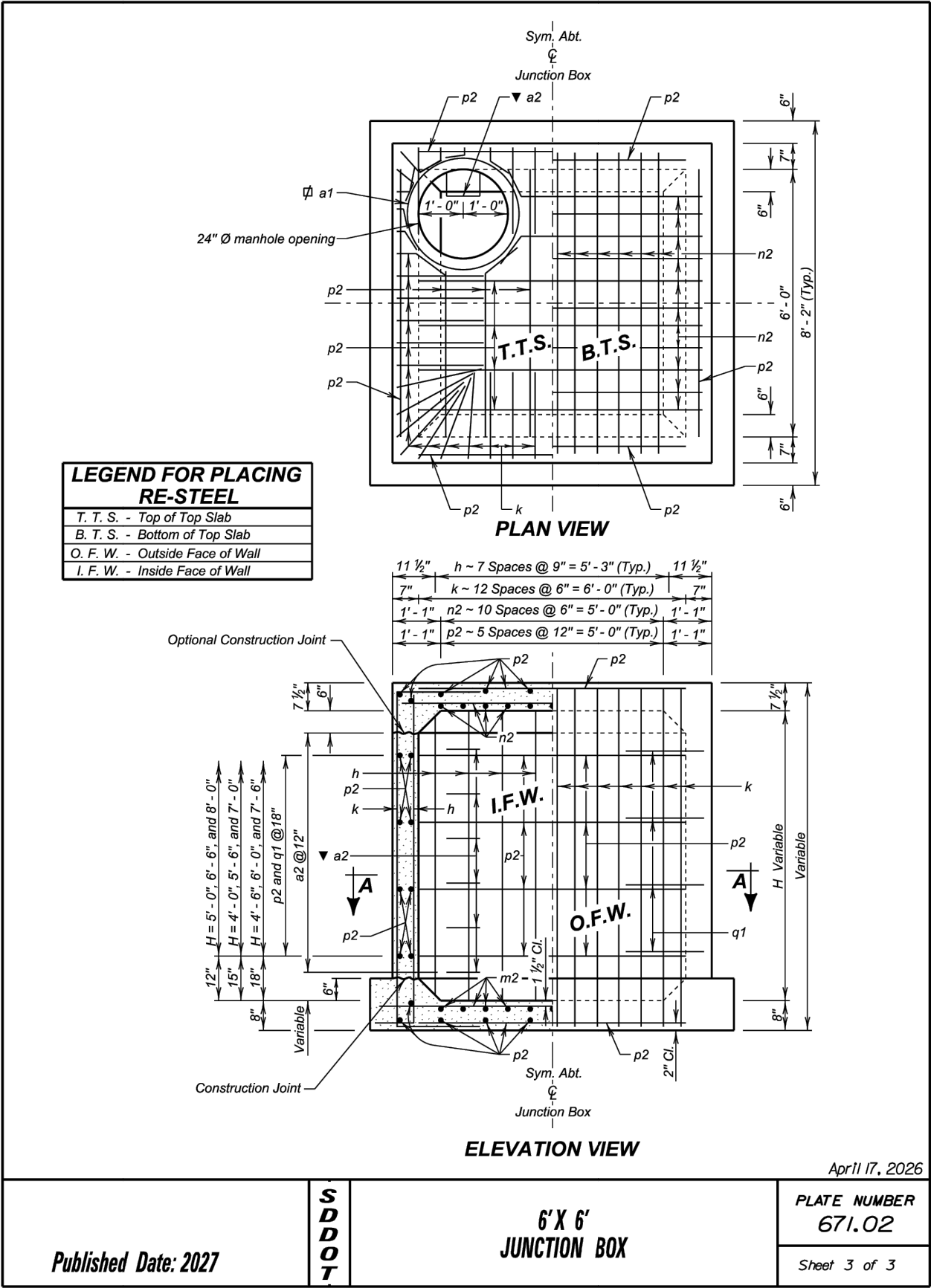
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FOR BIDDING PURPOSES ONLY

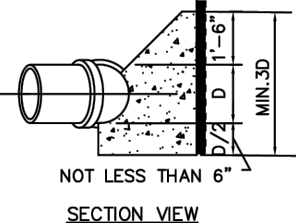
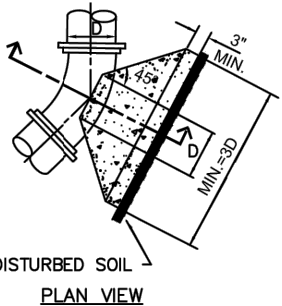
CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	71	85

FILE: 674074 DETAILS
PLOTING DATE: 6/3/2026
REVISED: 06/03/2026 DDL

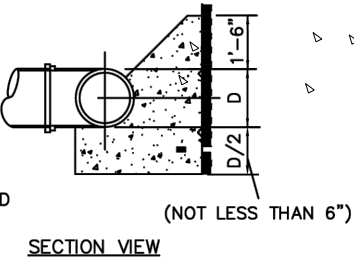
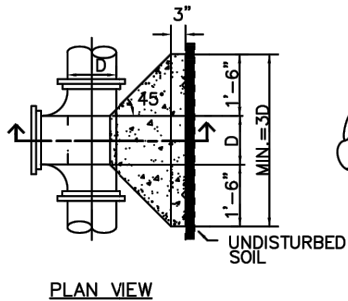




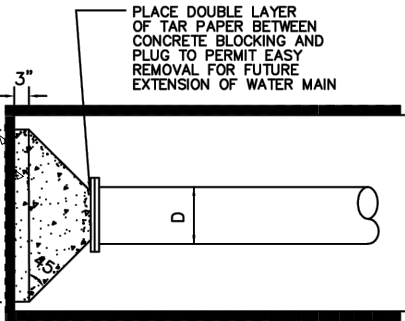
90 - DEGREE BEND



11 1/4 - DEGREE, 22 1/2 - DEGREE AND 45 - DEGREE BENDS



TEE



S.J./M.J. PLUG

CONCRETE THRUST BLOCK

REVISED: FEBRUARY 2018

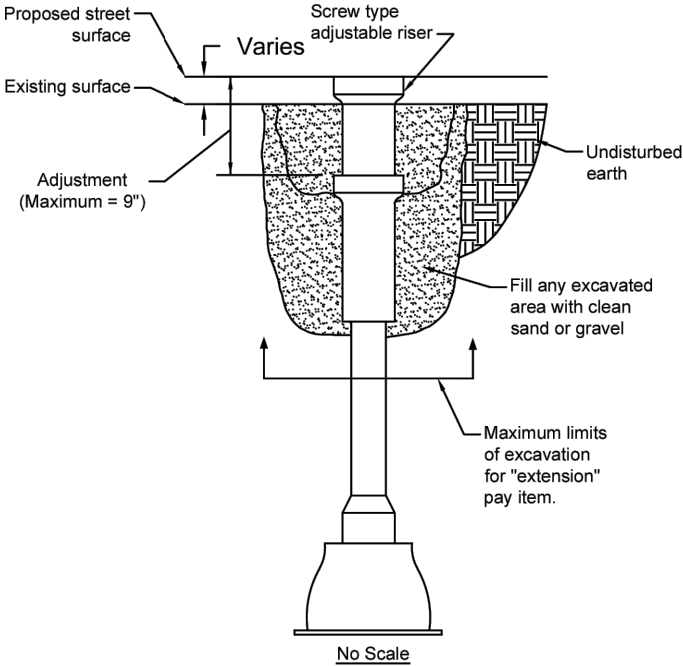
SPECIFICATION
REFERENCE
NO.
900

CITY OF HURON
ENGINEERING
CONCRETE
THRUST BLOCK

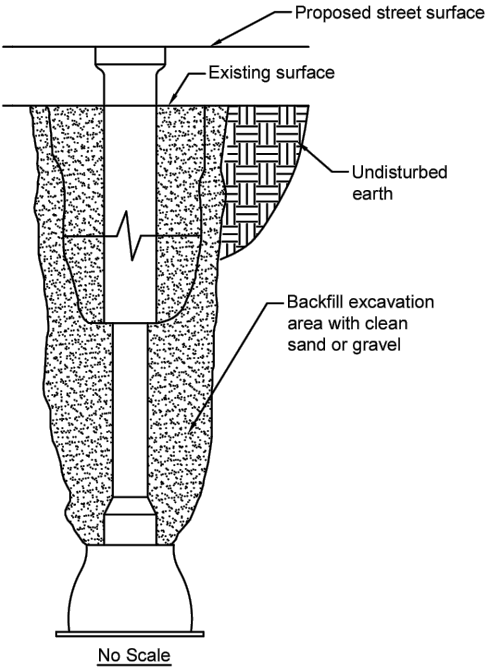
PLATE
NUMBER
900.01



Valve Box Extension
(or replacement of top section)



Valve Box Installation



- Valve Box Extension Notes:**
1. Use this method if top section of valve box cannot be extended to meet proposed grade.
 2. If the top section of valve box will not accept the riser, replace the top and center section as shown in detail for valve box replacement.

- General Notes:**
1. Non-threaded adjustments will not be allowed.
 2. Plumb valve box prior to backfilling. All valve boxes shall be adjusted to be flush with the pavement surface prior to placement of the pavement surfacing. The allowable vertical tolerance between the pavement surface and any part of the valve box shall be 0" to 1/2" low. In no case shall the valve box be above the surface of the pavement.
 3. It shall be the contractor's responsibility to provide a system to prevent material from entering the valve box during the work.
 4. All adjustments shall be completed prior to opening up the street to traffic.

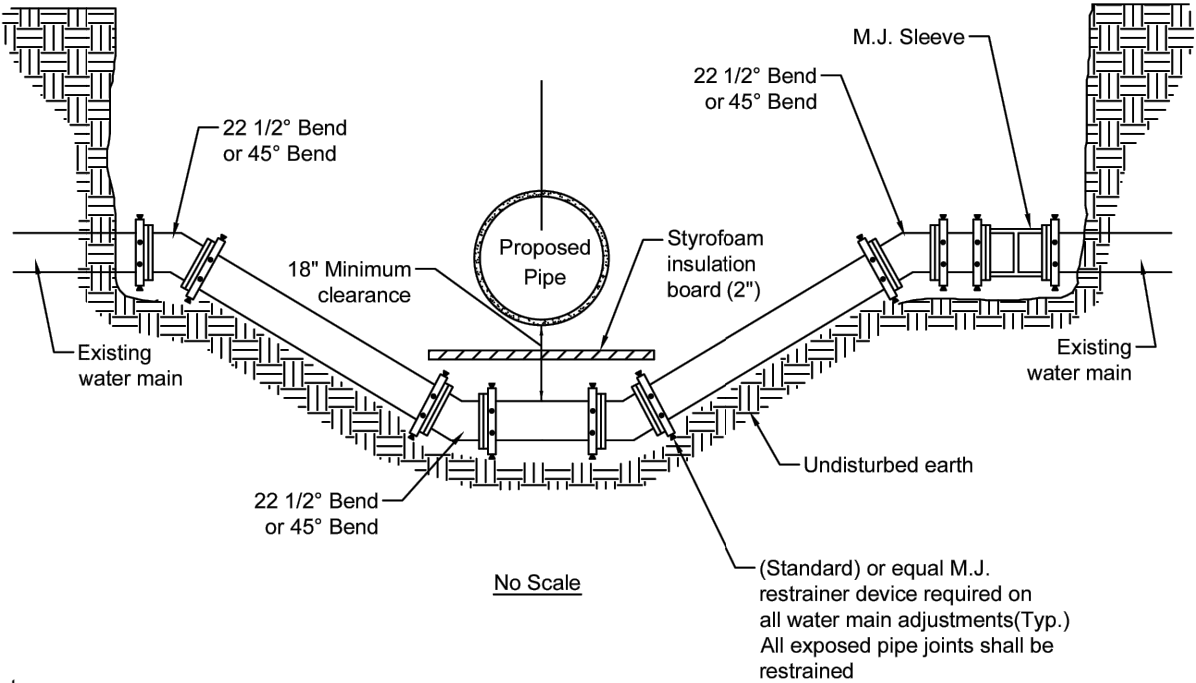
REVISED: APRIL 2022

SPECIFICATION
REFERENCE
NO.
900

CITY OF HURON
ENGINEERING
VALVE BOX INSTALLATION & EXTENTION

PLATE
NUMBER
900.02

Water Main Adjustment



Note:
The pipe and fittings shall be bid as separate items from the water main adjustment. Restrainer devices shall be incidental.

(Standard) or equal M.J.
restrainer device required on
all water main adjustments(Typ.)
All exposed pipe joints shall be
restrained

REVISED: FEBRUARY 2018

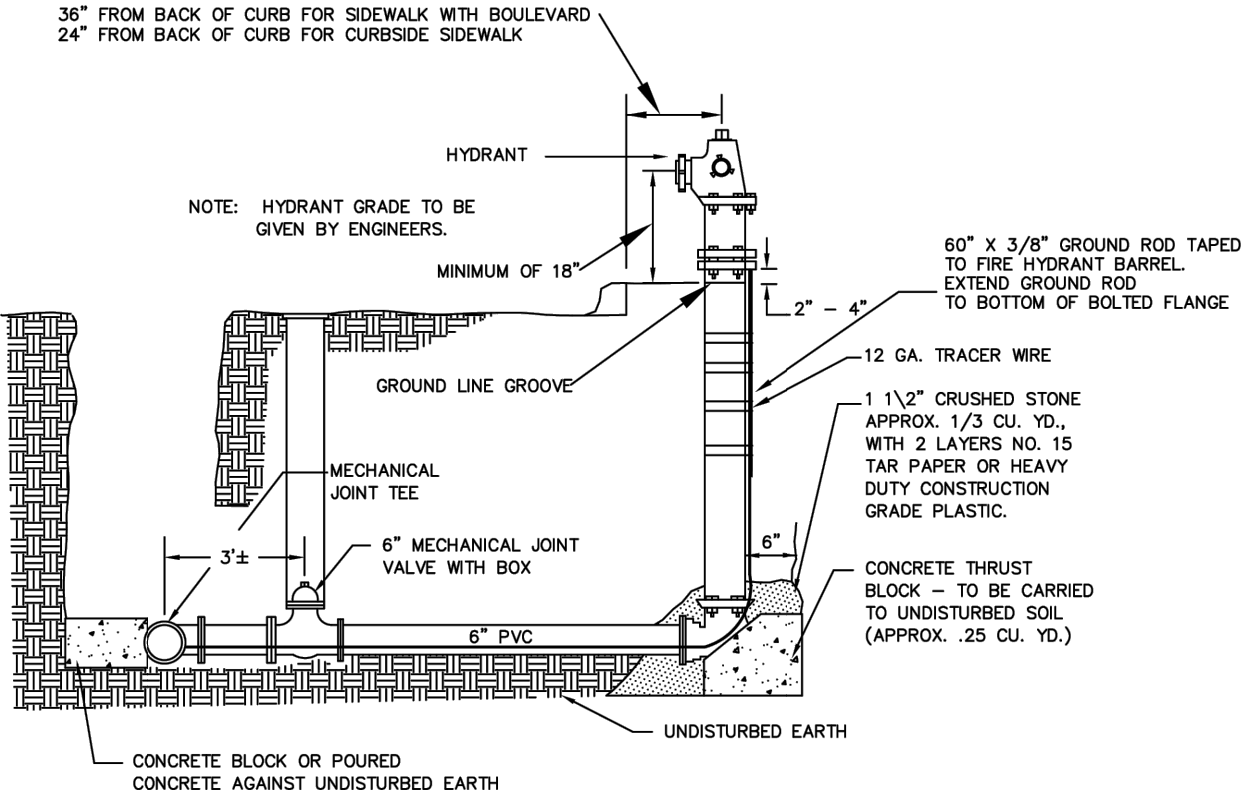
SPECIFICATION
REFERENCE
NO.
900

CITY OF HURON
ENGINEERING
WATER MAIN
ADJUSTMENT

PLATE
NUMBER
900.05



HYDRANT CONNECTION



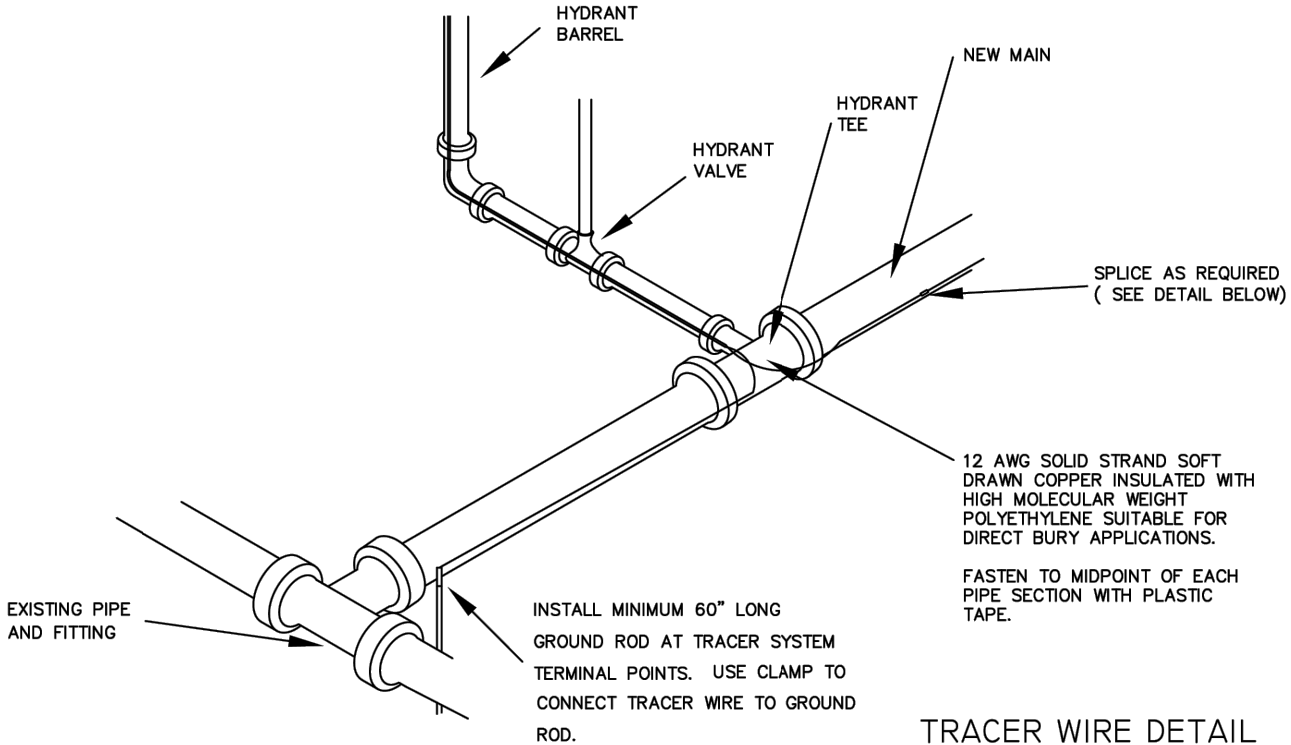
- GENERAL NOTES:
1. HYDRANT GRADE TO BE SHOWN ON PLANS.
 2. VALVE ON FIRE HYDRANT LATERAL SHALL BE RESTRAINED.
 3. ALL EXPOSED PIPE JOINTS SHALL BE RESTRAINED ON HYDRANT LATERAL.
 4. INSTALL POLYWRAP ON FIRE HYDRANT BARREL TO THE GROUND SURFACE BEFORE INSTALLING TRACER WIRE SYSTEM. DO NOT COVER WEEP HOLES WITH POLYWRAP.

REVISED: APRIL 2022

SPECIFICATION
REFERENCE
NO.
900

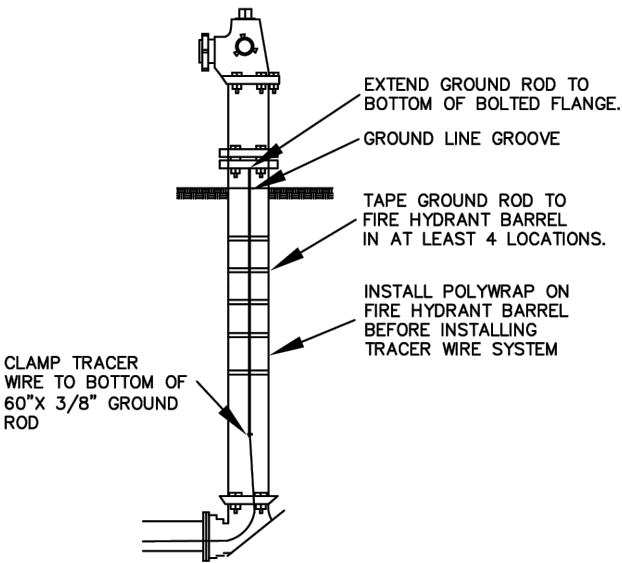
CITY OF HURON
ENGINEERING
HYDRANT CONNECTION

PLATE
NUMBER
900.06



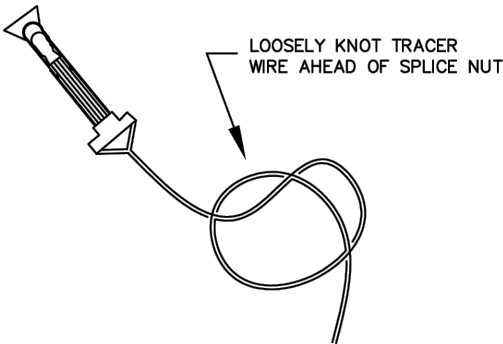
TRACER WIRE DETAIL

NOT TO SCALE



TRACER WIRE DETAIL AT FIRE HYDRANT

NOT TO SCALE



TRACER WIRE SPLICE DETAIL

NOT TO SCALE

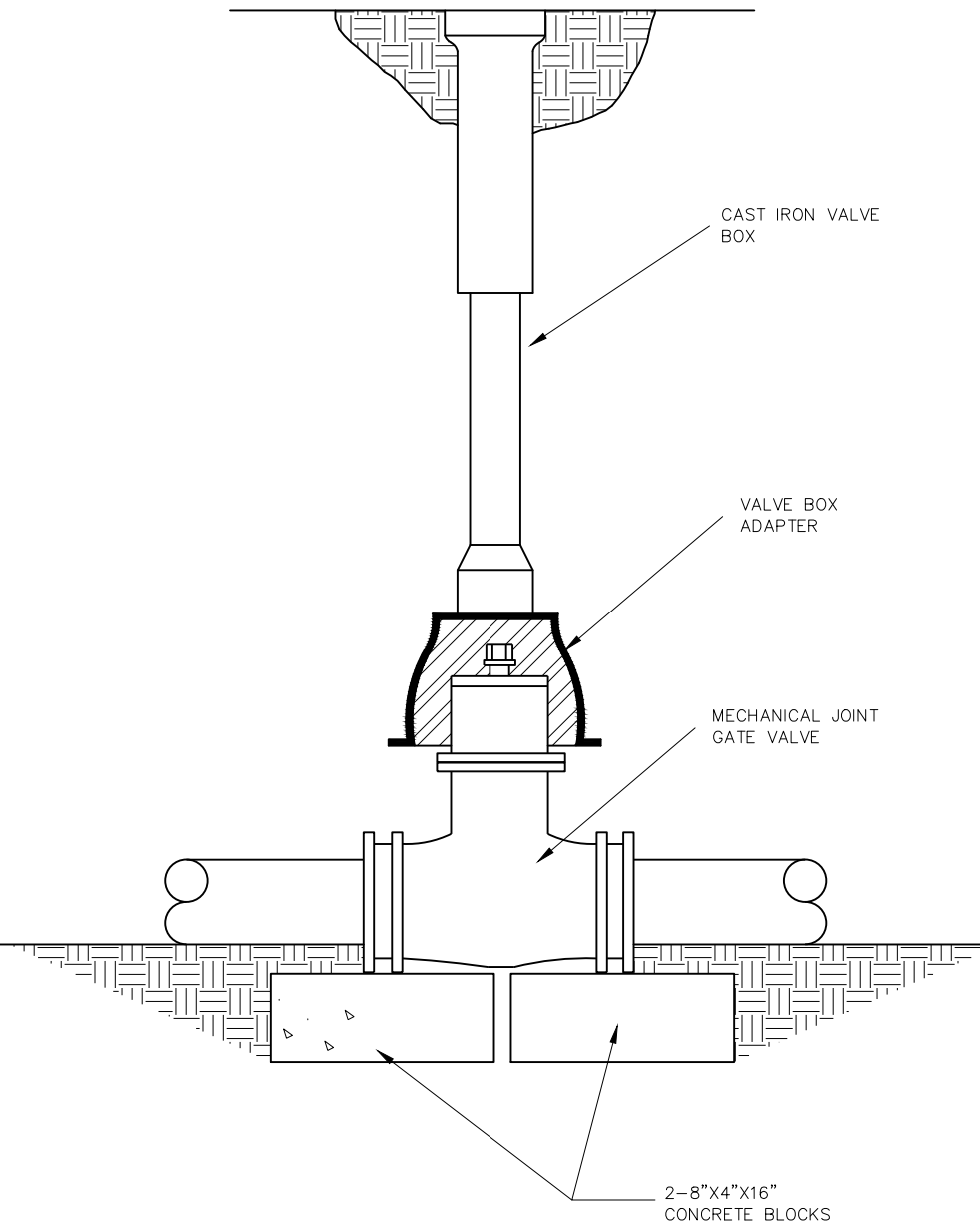
REVISED: MARCH 2018

SPECIFICATION
REFERENCE
NO.
900

CITY OF HURON
ENGINEERING
WATER MAIN TRACER WIRE SYSTEM

PLATE
NUMBER
900.07



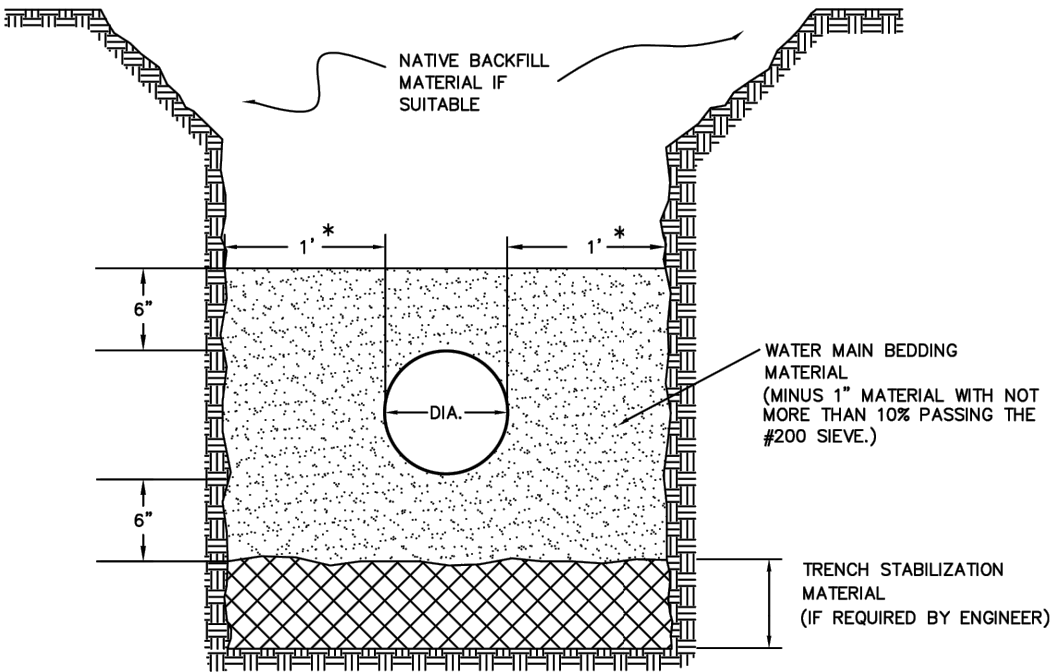


PVC GATE VALVE INSTALLATION
NO SCALE

REVISED: DECEMBER 2024

SPECIFICATION REFERENCE NO. 900	CITY OF HURON ENGINEERING PVC GATE VALVE INSTALLATION	PLATE NUMBER 900.08
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WATER MAIN BEDDING DETAIL



PIPE SIZE DIAMETER	TRENCH WIDTH	TRENCH HEIGHT	TRENCH AREA	PIPE AREA	WATER MAIN BEDDING MAT. AREA	WATER MAIN BEDDING MAT. TONS/LF
4"	28"	16"	3.11 SQ.FT.	.09 SQ.FT.	3.02 SQ.FT.	0.21
6"	30"	18"	3.75 SQ.FT.	.20 SQ.FT.	3.55 SQ.FT.	0.25
8"	32"	20"	4.44 SQ.FT.	.35 SQ.FT.	4.10 SQ.FT.	0.29
10"	34"	22"	5.19 SQ.FT.	.55 SQ.FT.	4.65 SQ.FT.	0.33
12"	36"	24"	6.00 SQ.FT.	.79 SQ.FT.	5.22 SQ.FT.	0.37
16"	40"	28"	7.78 SQ.FT.	1.40 SQ.FT.	6.38 SQ.FT.	0.45
20"	44"	32"	9.78 SQ.FT.	2.18 SQ.FT.	7.60 SQ.FT.	0.53
24"	48"	36"	12.00 SQ.FT.	3.14 SQ.FT.	8.86 SQ.FT.	0.62
30"	60"	42"	17.50 SQ.FT.	4.91 SQ.FT.	12.59 SQ.FT.	0.88

* IF >30" USE DIA./2 ON EACH SIDE OF WATER MAIN PIPE.
* LENGTH BASED ON ONE (1) FOOT OF MAIN.

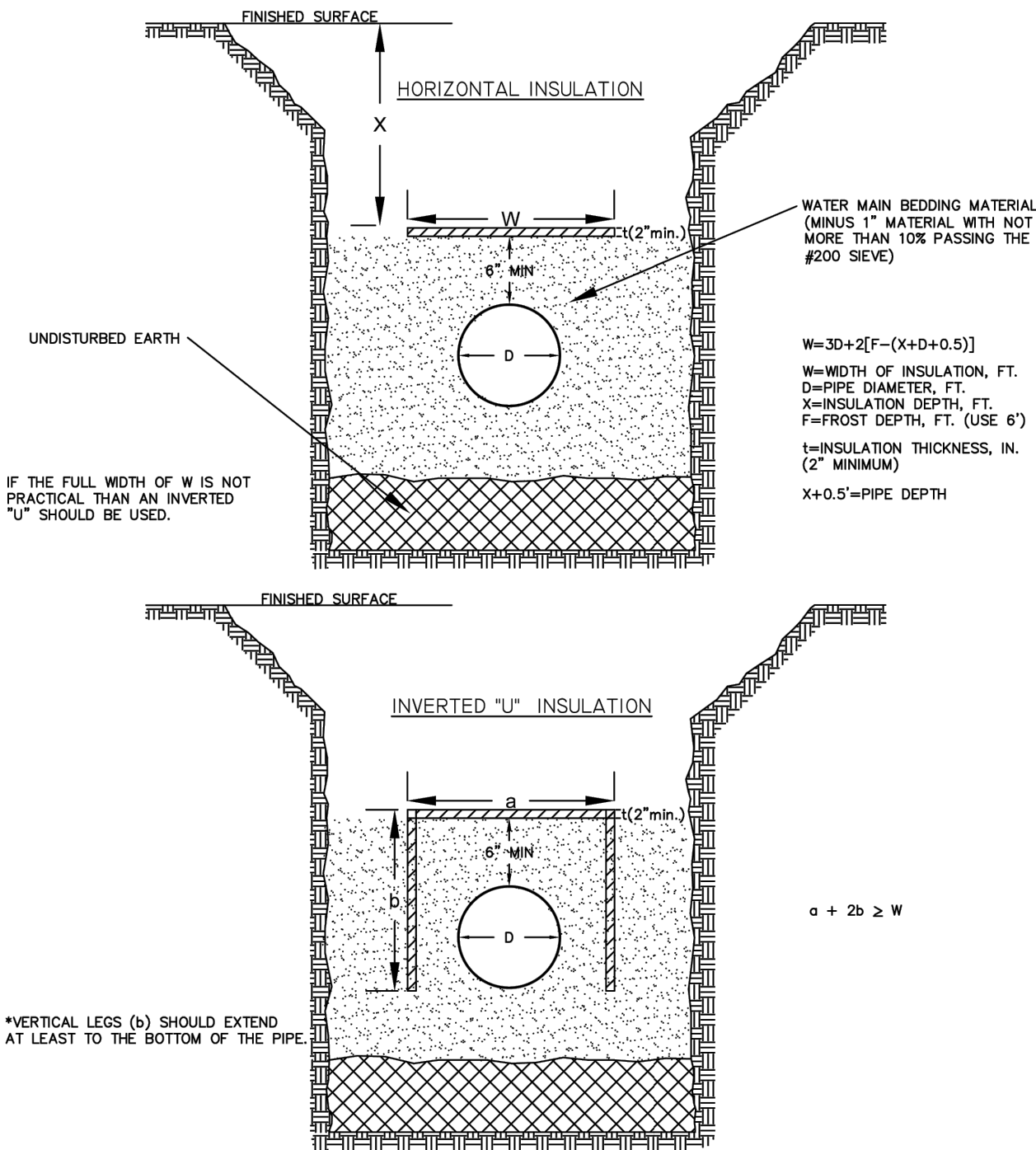
REVISED: MAY 2007

SPECIFICATION REFERENCE NO. 900	CITY OF HURON ENGINEERING WATER MAIN BEDDING DETAIL	PLATE NUMBER 900.12
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FILE: P:\0674074\06740745_DRAWINGS\PLANS\674074_DETAILS

WATER MAIN INSULATION DETAIL



WATER MAIN BEDDING MATERIAL (MINUS 1" MATERIAL WITH NOT MORE THAN 10% PASSING THE #200 SIEVE)

$W = 3D + 2[F - (X + D + 0.5)]$

W=WIDTH OF INSULATION, FT.

D=PIPE DIAMETER, FT.

X=INSULATION DEPTH, FT.

F=FROST DEPTH, FT. (USE 6')

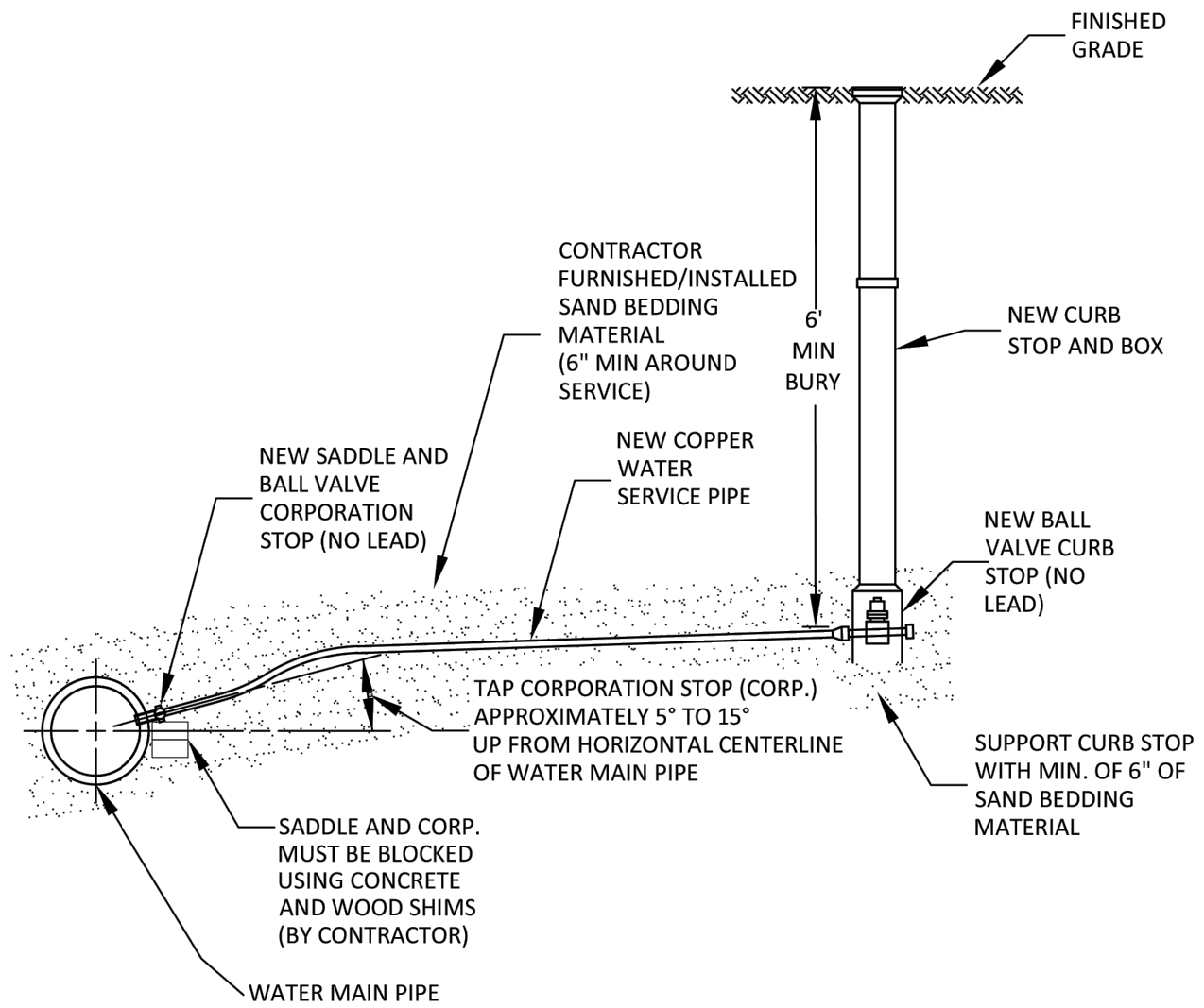
t=INSULATION THICKNESS, IN. (2" MINIMUM)

$X + 0.5' = \text{PIPE DEPTH}$

**THIS DETAIL IS A GENERAL GUIDELINE. INSULATION OF WATER MAIN WILL BE DETERMINED ON A CASE BY CASE SITUATION DEPENDING ON THE FOLLOWING FACTORS: DEPTH, PIPE DIAMETER, FLOW, LOCATION, AND PROXIMITY TO BEDROCK. INSULATION MATERIAL AND INSTALLATION METHODS SHOULD FOLLOW THE WATER MAIN SUPPLEMENTAL SPECIFICATION SEC. 2.8 AND 3.7.

REVISED: NOVEMBER 2004

SPECIFICATION REFERENCE NO. 900	CITY OF HURON ENGINEERING WATER MAIN INSULATION DETAIL	PLATE NUMBER 900.14
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WATER SERVICE INSTALLATION

NOT TO SCALE

REVISED: MARCH 2018

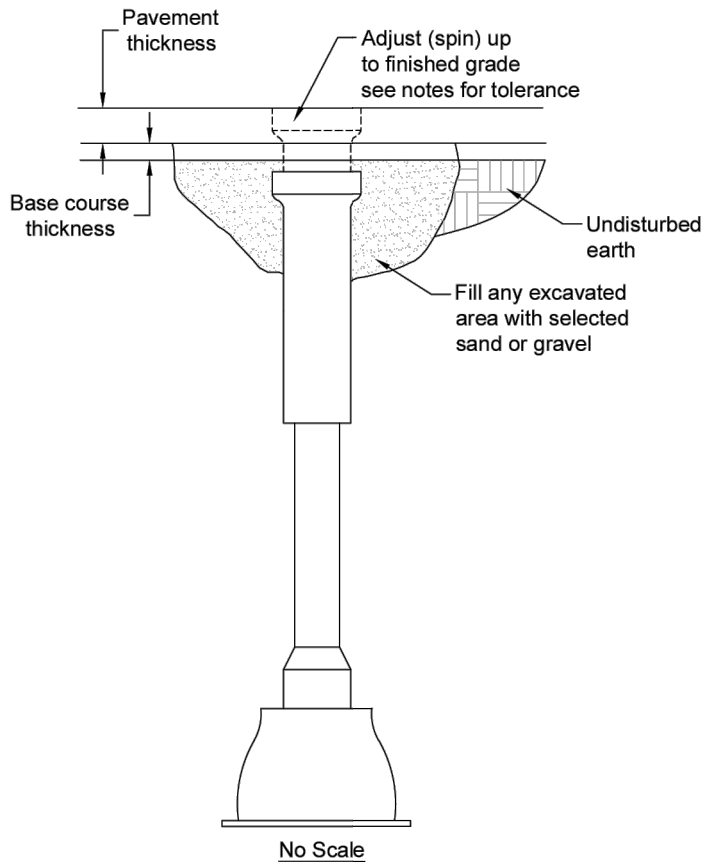
SPECIFICATION REFERENCE NO. 900	CITY OF HURON ENGINEERING WATER SERVICE INSTALLATION	PLATE NUMBER 900.16
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Valve Box Adjustment

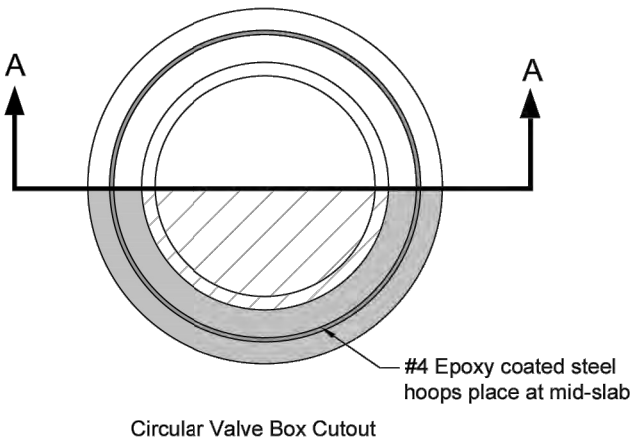
Spin Up Method



Spin Up Method:

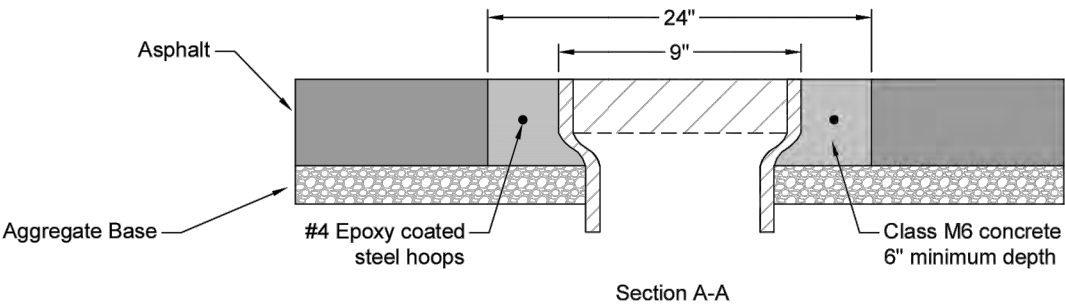
1. Use this method if top section of valve box can be adjusted to finished grade.
2. If the 0" to 1/2" tolerance cannot be met by the "spin up" method on asphalt streets, then the contractor shall be required to adjust the valve box by the circular cutout method. This additional work, if required, shall be incidental to the "valve box adjustment" bid item.
3. If the 0" to 1/2" tolerance can not be met by the "spin up" method on concrete streets, the repair method will be determined by the engineer. This additional work shall be incidental to the "valve box adjustment" bid item.
4. If the valve box needs minor adjustment, a minimal amount of heat can be applied to break the bond between the valve box and the asphalt. Full depth heating of the asphalt will not be allowed. If the asphalt appears to show signs of deterioration, it will be at the discretion of the engineer to require the cut out method.

Cutout Method



Cut Out Method:

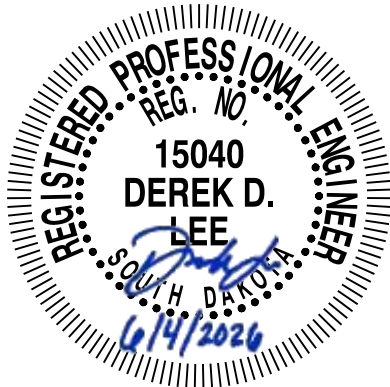
1. The circular concrete cutout shall be centered on the valve box frame.
2. The circular concrete cutout shall be constructed after the installation of the top lift of asphalt. The pavement shall be sawed full depth with a vertical face. The contractor shall ensure that the adjacent asphalt surface is left intact and undamaged when removing the circular cutout.
3. The circular concrete cutout diameter shall be 24".
4. Apply tack coat to the vertical asphalt surfaces prior to placement of concrete cutout.
5. Class M6 concrete shall be used for the cutout. Fast track concrete may be used at the discretion of the engineer.
6. Steel reinforcing shall be epoxy coated grade 40.
7. Steel reinforcing shall consist of #4 hoops (variable length) supported by approved chairs.
8. Maintain a minimum of 2" clearance on all steel reinforcing.
9. All work associated with constructing the circular concrete cutout, including, but not limited to: all materials, sawing, steel reinforcing, chairs, concrete, labor, tools, removal and replacement, excavation and backfilling and other appurtenances shall be incidental to the "valve box adjustment" bid item.



General Notes:

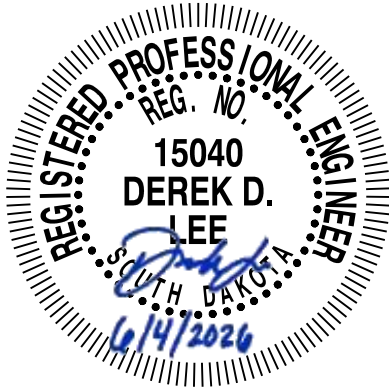
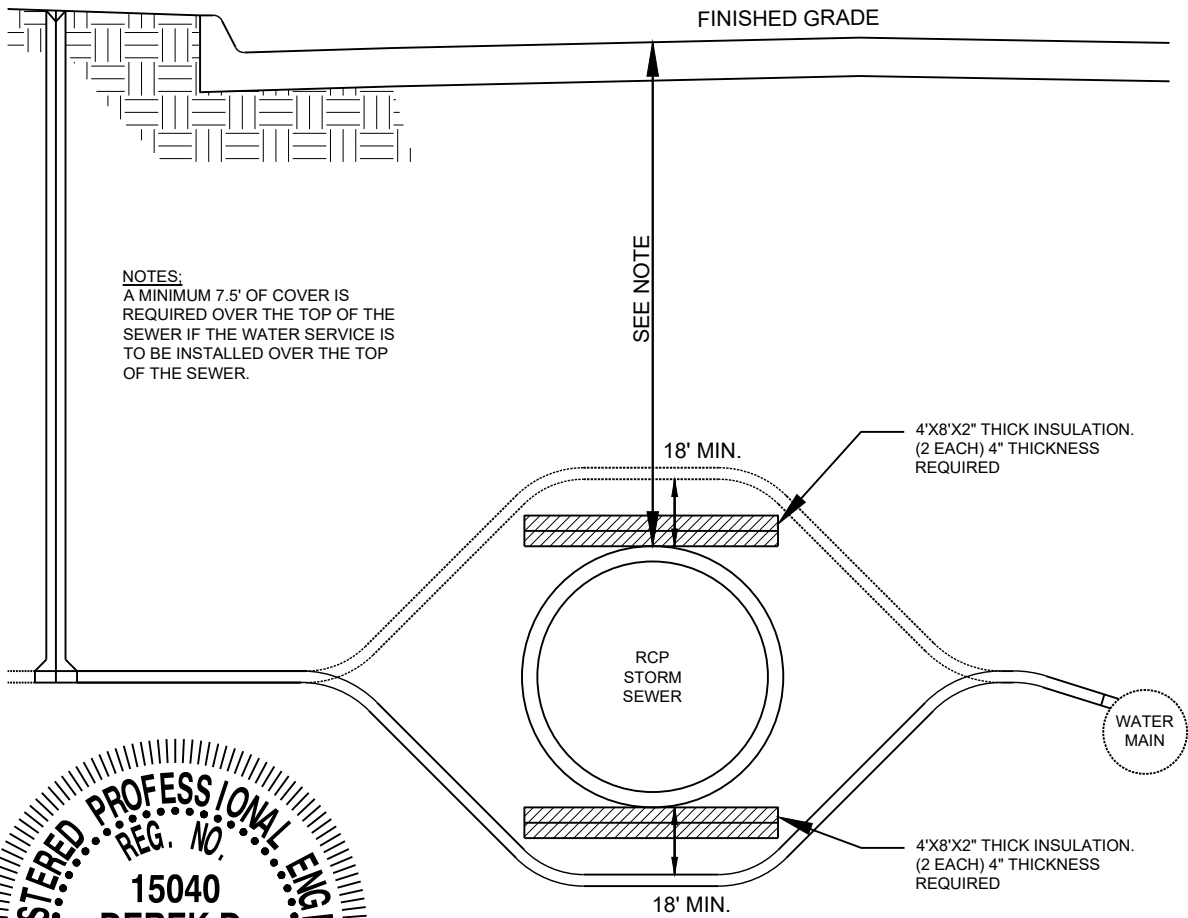
1. Non-threaded adjustments will not be allowed.
2. Plumb valve box prior to backfilling. All valve boxes shall be adjusted to be flush with the pavement surface prior to placement of the pavement surfacing. The allowable vertical tolerance between the pavement surface and any part of the valve box shall be 0" to 1/2" low. In no case shall the valve box be above the surface of the pavement.
3. It shall be the contractor's responsibility to provide a system to prevent material from entering the valve box during the work.
4. All adjustments shall be completed prior to opening up the street to traffic.

VALVE BOX ADJUSTMENT

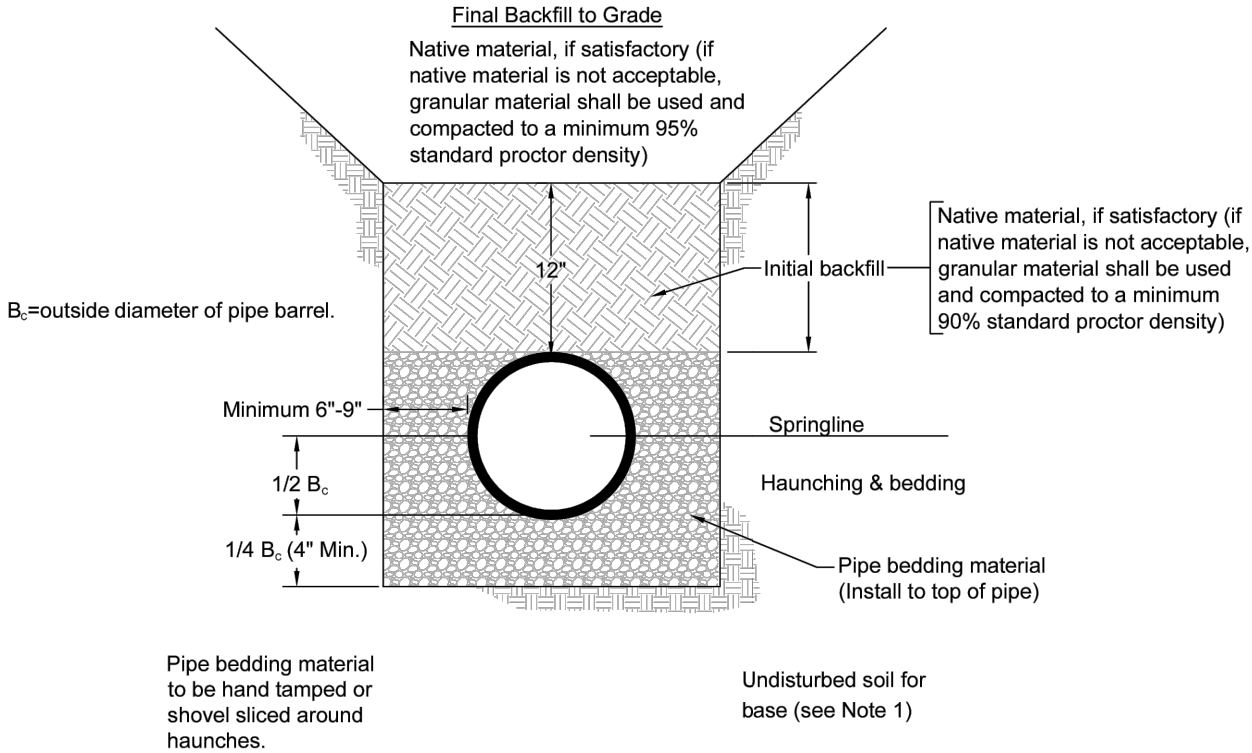


GENERAL

- 1. STYROFOAM INSULATION WILL BE A RIGID, EXTRUDED POLYSTYRENE BOARD INSULATION MEETING THE REQUIREMENTS OF ASTM C578 TYPE IV WITH A COMPRESSIVE STRENGTH OF 25 PSI (ASTM D1621). THE STYROFOAM INSULATION BOARD WILL BE INSTALLED ACCORDING TO THIS DETAIL OR AS DIRECTED BY THE ENGINEER.
- 2. WATER SERVICE INSTALLATION WILL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION.
- 3. ADDITIONAL WATER SERVICE AND STYROFOAM INSULATION USED IN THE WATER SERVICE ADJUSTMENT WILL BE PAID FOR PER THE RESPECTIVE BID ITEM. ALL OTHER ADDITIONAL LABOR, EQUIPMENT, AND MATERIAL REQUIRED TO MAKE THIS WATER SERVICE ADJUSTMENT WILL BE INCIDENTAL TO THE PROJECT.



WATER SERVICE ADJUSTMENT



- Note:
- 1. If base is unstable, trench shall be undercut and stabilized with trench stabilization material. Specifications as per manufacturer's recommendations and A.S.T.M. C12.
 - 2. Bedding Material

95% Passing 3/4" sieve
95% Retained #4 sieve

(Clean angular, well-graded, crushed rock. Pea rock may be used for sanitary sewer service lines.)
 - 3. The required bedding material under the bottom of the pipe shall be installed prior to pipe installation.

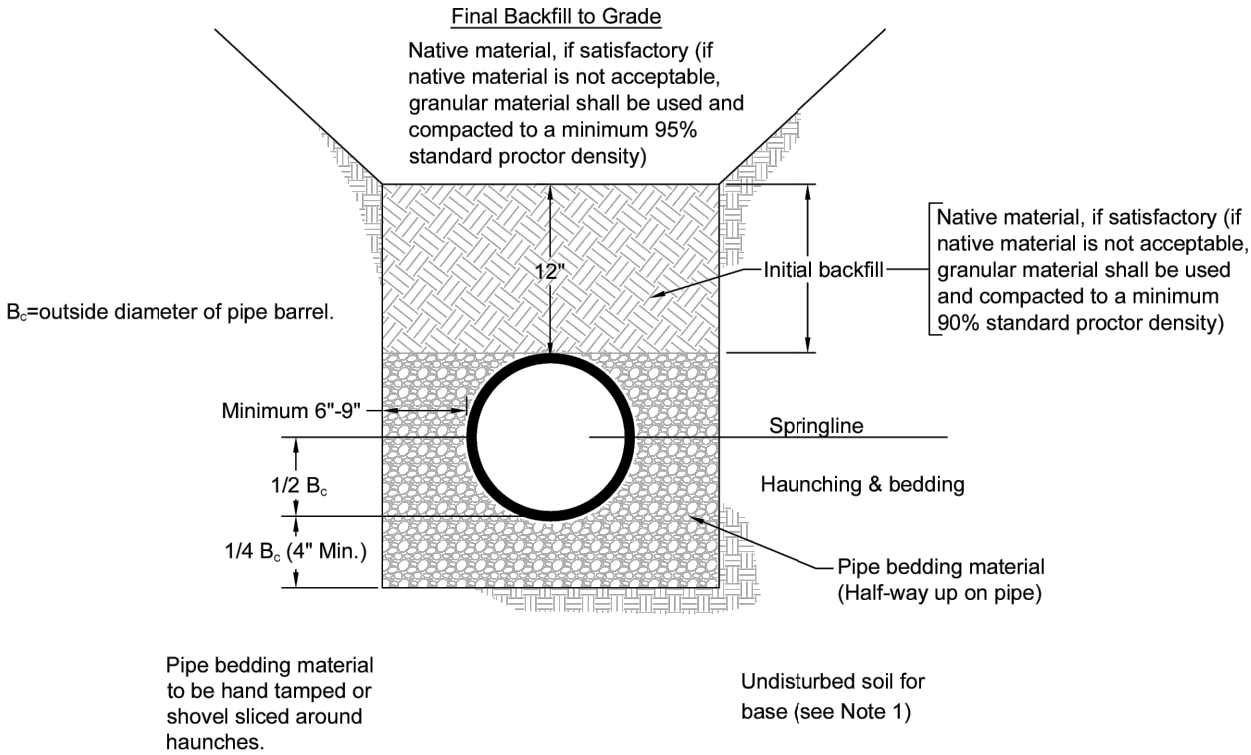
REVISED: JANUARY 2024

SPECIFICATION
REFERENCE
NO.
950

CITY OF HURON
ENGINEERING
BEDDING & BACKFILL REQUIREMENTS FOR
4" TO 12" SANITARY SEWER PIPE

PLATE
NUMBER
950.01





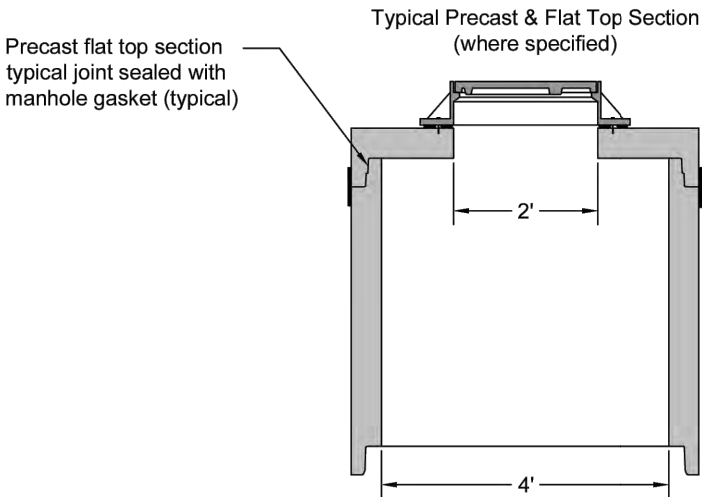
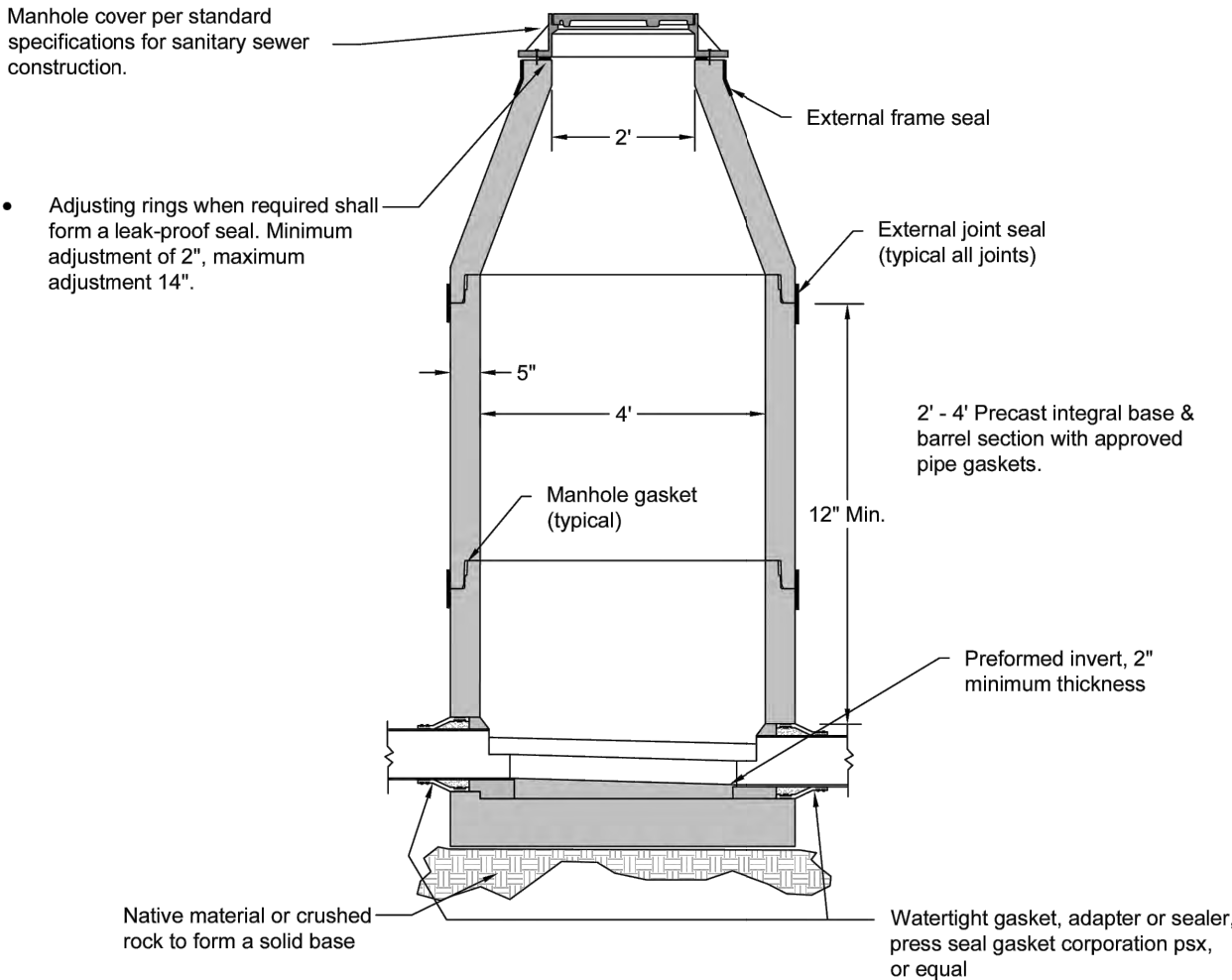
- Note:
1. If base is unstable, trench shall be undercut and stabilized with trench stabilization material. Specifications as per manufacturer's recommendations and A.S.T.M. C12.
 2. Bedding Material
95% Passing 3/4" sieve
95% Retained #4 sieve
(Clean angular, well-graded, crushed rock.)
 3. The required bedding material under the bottom of the pipe shall be installed prior to pipe installation.

REVISED: JANUARY 2024

SPECIFICATION
REFERENCE
NO.
950

CITY OF HURON
ENGINEERING
BEDDING & BACKFILL REQUIREMENTS FOR
14" TO 60" SANITARY SEWER PIPE

PLATE
NUMBER
950.02



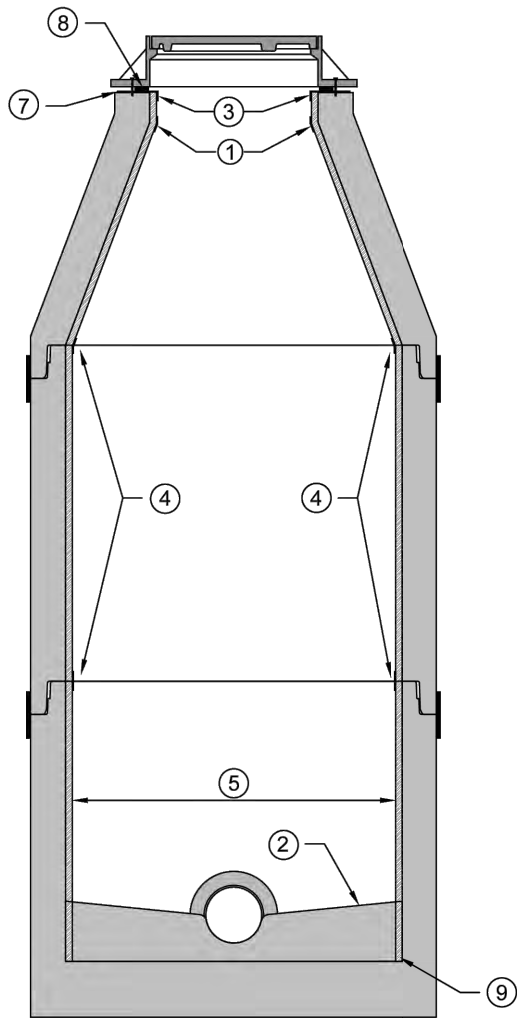
REVISED: JANUARY 2024

SPECIFICATION
REFERENCE
NO.
950

CITY OF HURON
ENGINEERING
SANITARY SEWER MANHOLE

PLATE
NUMBER
950.03





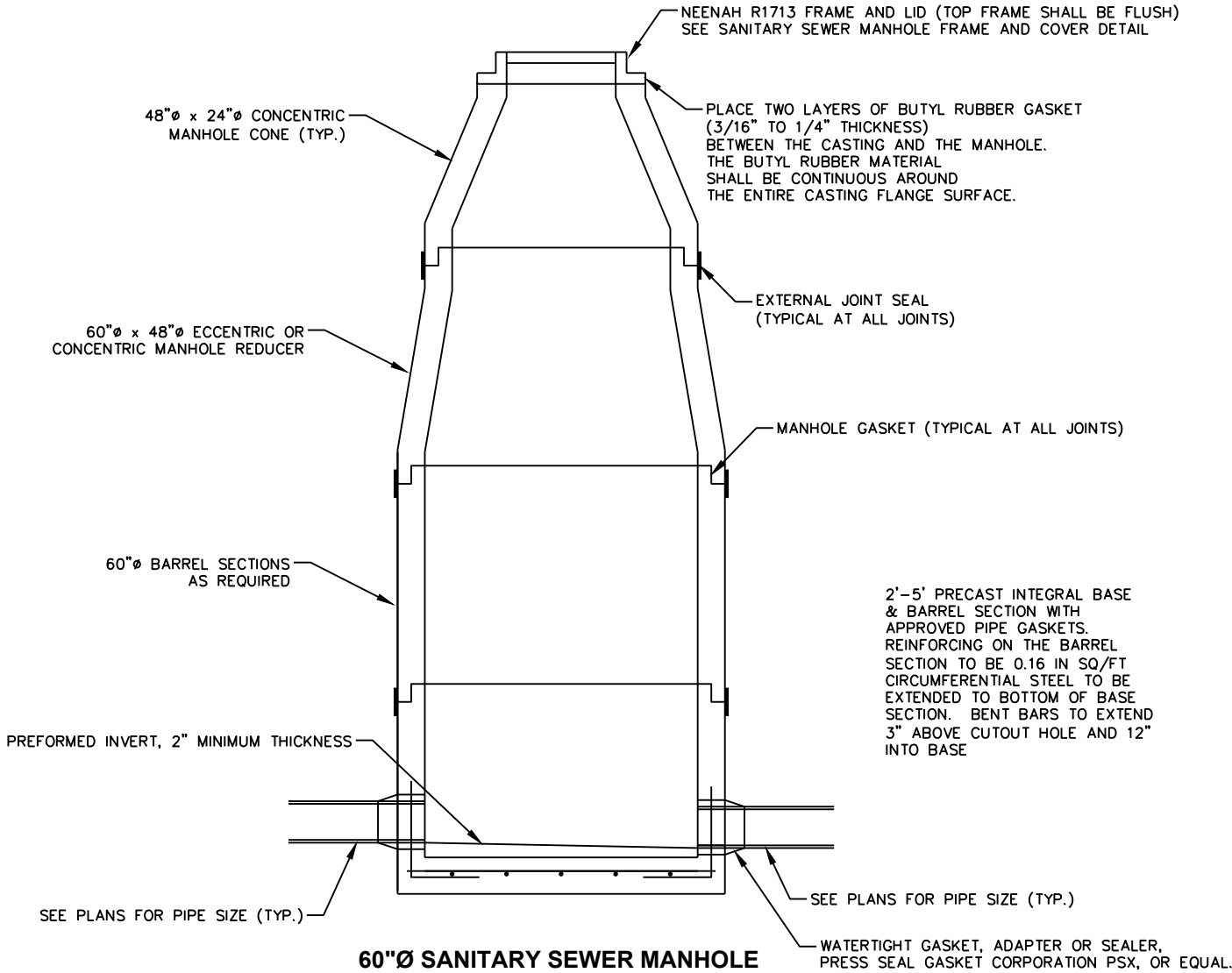
- ① Preformed corner weld strip to be installed.
- ② Pre-formed bench and invert.
- ③ Install 2 preformed corner turnbacks under ring.
- ④ Weld strips
- ⑤ All concrete surfaces, except the inverts, which will be exposed to sewer gases shall be lined. This includes all concrete pipe surfaces if concrete pipe is used.
- ⑥ Installation of the manhole liner plate shall conform to the requirements of the supplemental specifications.
- ⑦ The liner shall be extended over the top of the corbel section to form a continuous seal with the manhole wall lining. The liner shall be extended to one-half the thickness of the corbel top section.
- ⑧ Where adjusting rings are allowed and/or required, plastic adjusting rings shall be used when conditions allow for their use. If concrete adjusting rings are necessary, (for concrete street installations) the top and interior face of the top concrete adjusting ring shall be lined. If concrete adjusting rings are used, the seal between the casting and top adjusting ring shall be made with 3/16" to 1/4" thick continuous trowelable butyl rubber. The butyl rubber material shall be continuous around the entire casting flange surface.
- ⑨ The liner shall be extended down to the bottom of the base section to form a continuous seal with the manhole wall lining.
- ⑩ All vertical liner joints shall be welded in the shop.

REVISED: JANUARY 2024

SPECIFICATION
REFERENCE
NO.
950

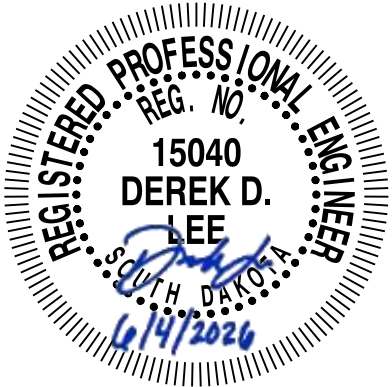
CITY OF HURON
ENGINEERING
SANITARY SEWER MANHOLE
LINED TYPE

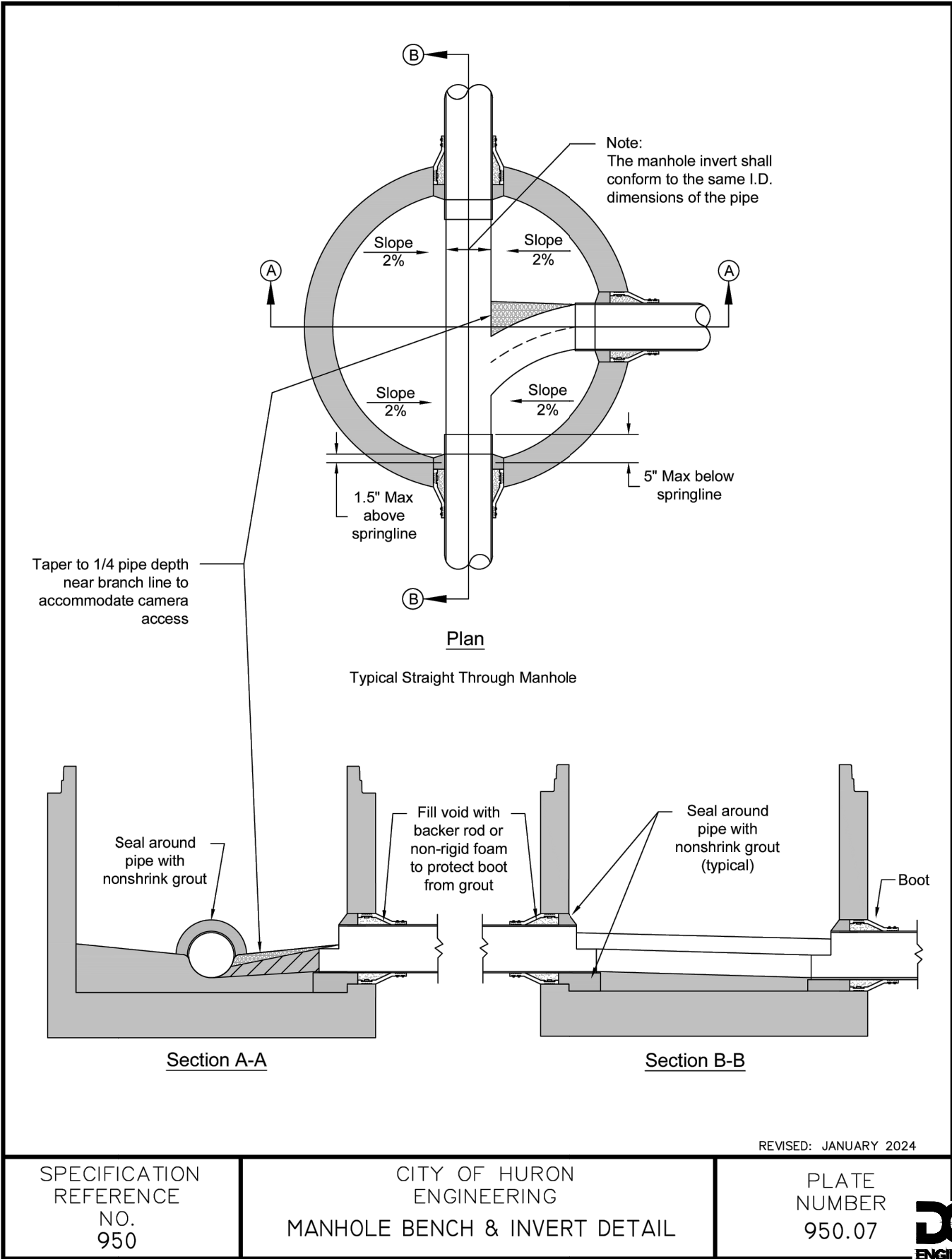
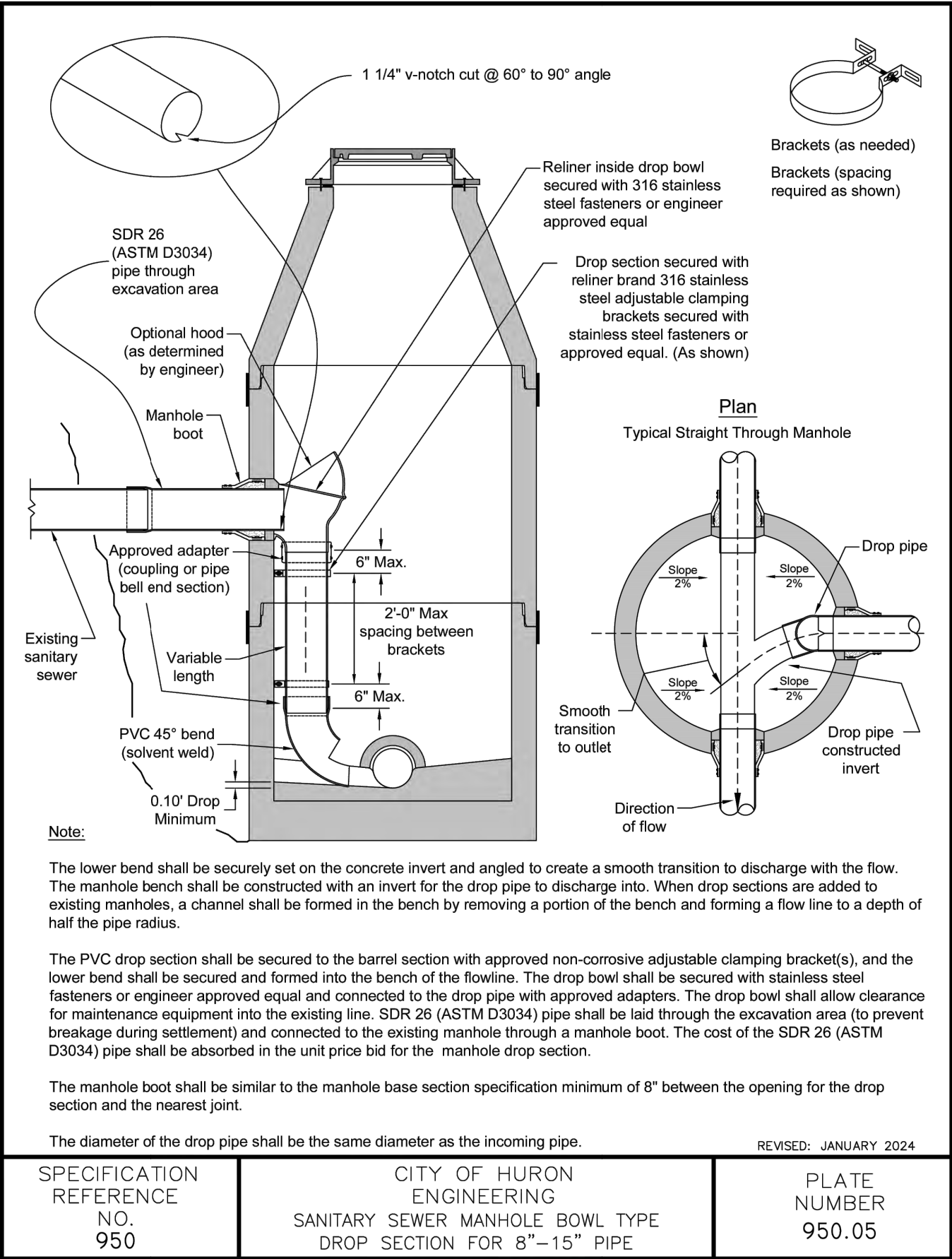
PLATE
NUMBER
950.04



60"Ø SANITARY SEWER MANHOLE

- NOTES:
- CONTRACTOR AND SUPPLIER TO SUBMIT SHOP DRAWINGS FOR ALL PROPOSED MANHOLES.
 - ALL MANHOLES SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE LATEST REVISIONS OF ASTM C478 FOR PRECAST REINFORCED CONCRETE MANHOLE SECTION.
 - NO MANHOLE STEPS.
 - ALL INTERIOR EXPOSED SURFACES OF MANHOLE SECTIONS, CONES AND ADJUSTMENT RINGS SHALL BE CONTINUOUSLY HDPE LINED.
 - MANHOLES CAN UTILIZE AN ECCENTRIC OR CONCENTRIC MANHOLE REDUCER/CONE TO TRANSITION FROM 60"Ø TO 48"Ø WHERE NEEDED. ALL MANHOLE CONES AT THE SURFACE SHALL BE CONCENTRIC AS SHOWN IN THE DETAILS. THE USE OF FLAT SLAB TOPS WILL NOT BE ALLOWED UNLESS DEPTH DICTATES THE REQUIRED USE.
 - MANHOLES SHALL BE BUILT TO DEPTH INDICATED ON THE PLAN SHEETS. NO ADJUSTMENT RINGS CAN BE USED.
 - MANHOLE DEPTH IS MEASURED FROM THE RIM ELEVATION TO THE EFFLUENT INVERT ELEVATION WHERE NOTED IN THE PLANS.

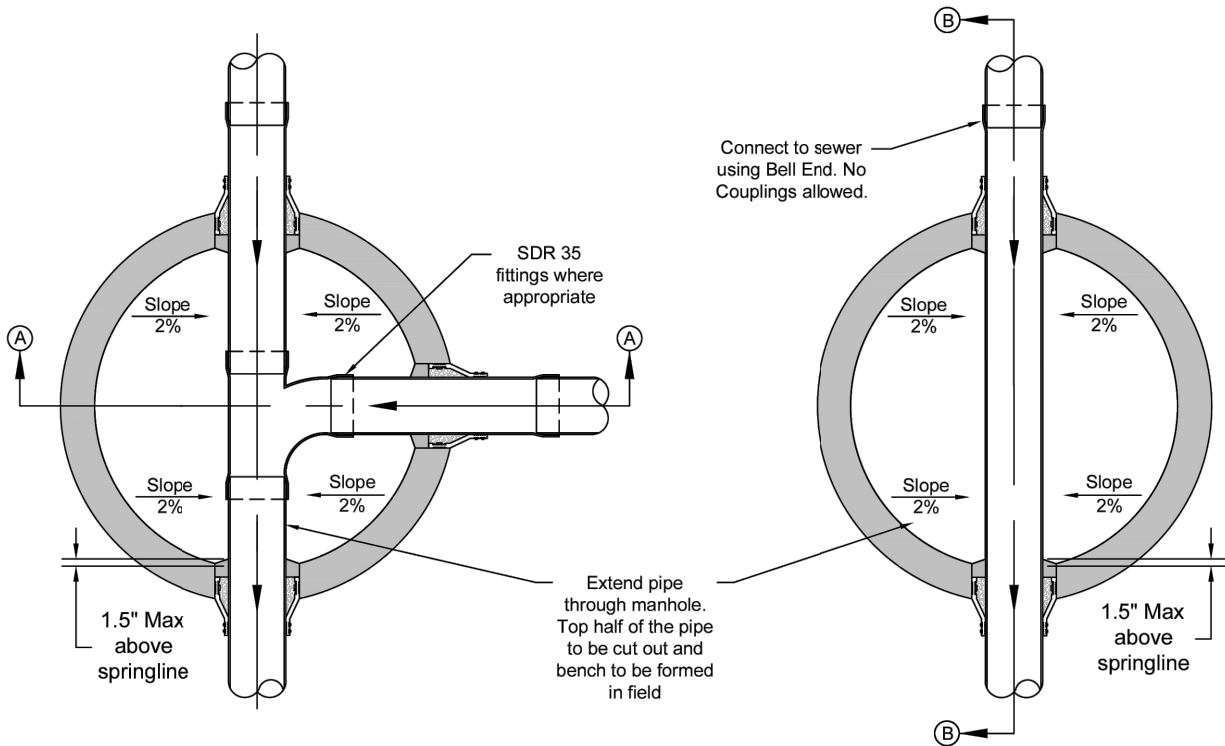




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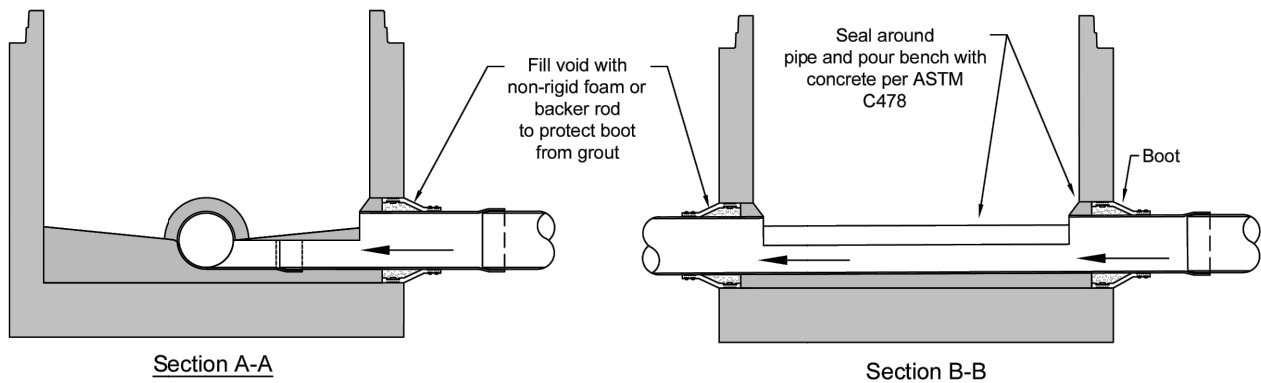
FOR BIDDING PURPOSES ONLY

CITY OF HURON	PROJECT	SHEET	TOTAL SHEETS
	CIP 2026-02	82	85
FILE: 674074_DETAILS PLOTING DATE: 6/3/2026		REVISED: 06/03/2026 DDL	



Plan

Typical Straight Through Manhole



Section A-A

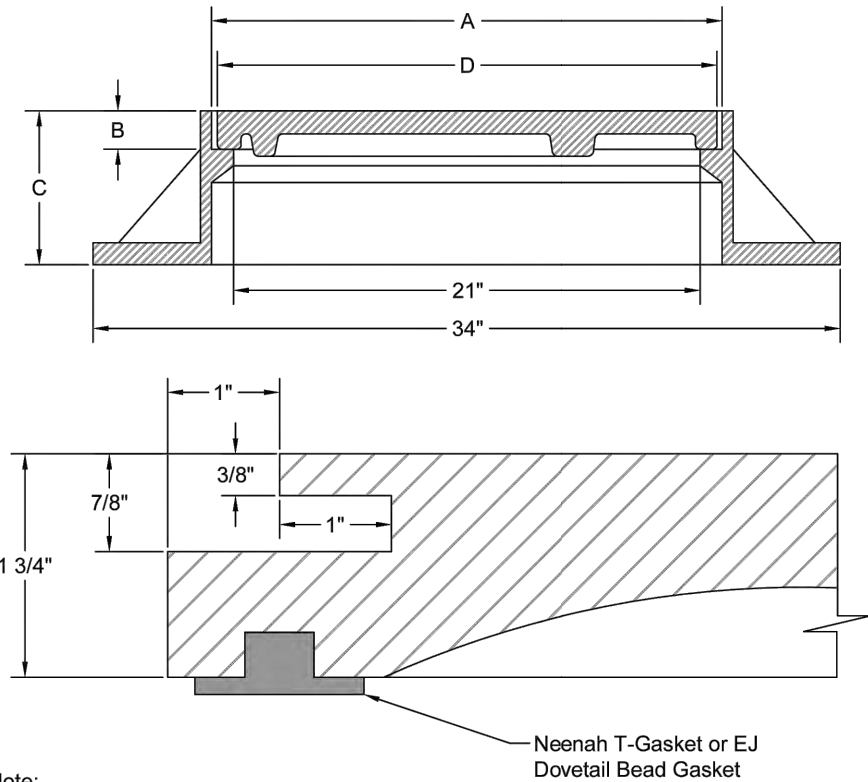
Section B-B

REVISED: JANUARY 2024

SPECIFICATION
REFERENCE
NO.
950

CITY OF HURON
ENGINEERING
MANHOLE BENCH & PIPE INVERT DETAIL

PLATE
NUMBER
950.08



Note:
Concealed pick holes and the seal between the frame and cover shall be protected from asphalt, concrete pavement, chip seal and soil. It shall be the contractors responsibility to provide a system to prevent material from entering the concealed pick hole and frame and cover seal during the work.

Approved Frames:						
Applications	Neenah/Deeter Frame	EJ Series Number	EJ Product Number	Opening for Lid (in)	Thickness for Lid (in)	Frame Height (in)
				A	B	C
Asphalt and concrete streets less than or equal to 6 inches thick	R-1772	1022Z1	102310	23	1.75	7
Asphalt and concrete streets greater than 6 inches thick	R-1713	1050Z1	105015	23	1.75	9
Non-paved easement areas (grass, rock, landscaping, etc.)	R-1712	1050Z1	105011	23	1.75	9
Protection over cleanouts	R-1976	1578Z	157810	11.5	1.25	8

Approved Lids:					
Lid Applications	Neenah/Deeter Frame	EJ Series Number	EJ Product Number	Lid Diameter (in)	Lid Thickness (in)
				D	B
Standard lid for use in all applications	R-1772	1020A	102108	22.75	1.75
Composite lid with limited applications. City engineering approval required	N/A	COM1020	COM102057	22.75	1.75
Protection over cleanouts	R-1976	1578A	157824	11.25	1.25

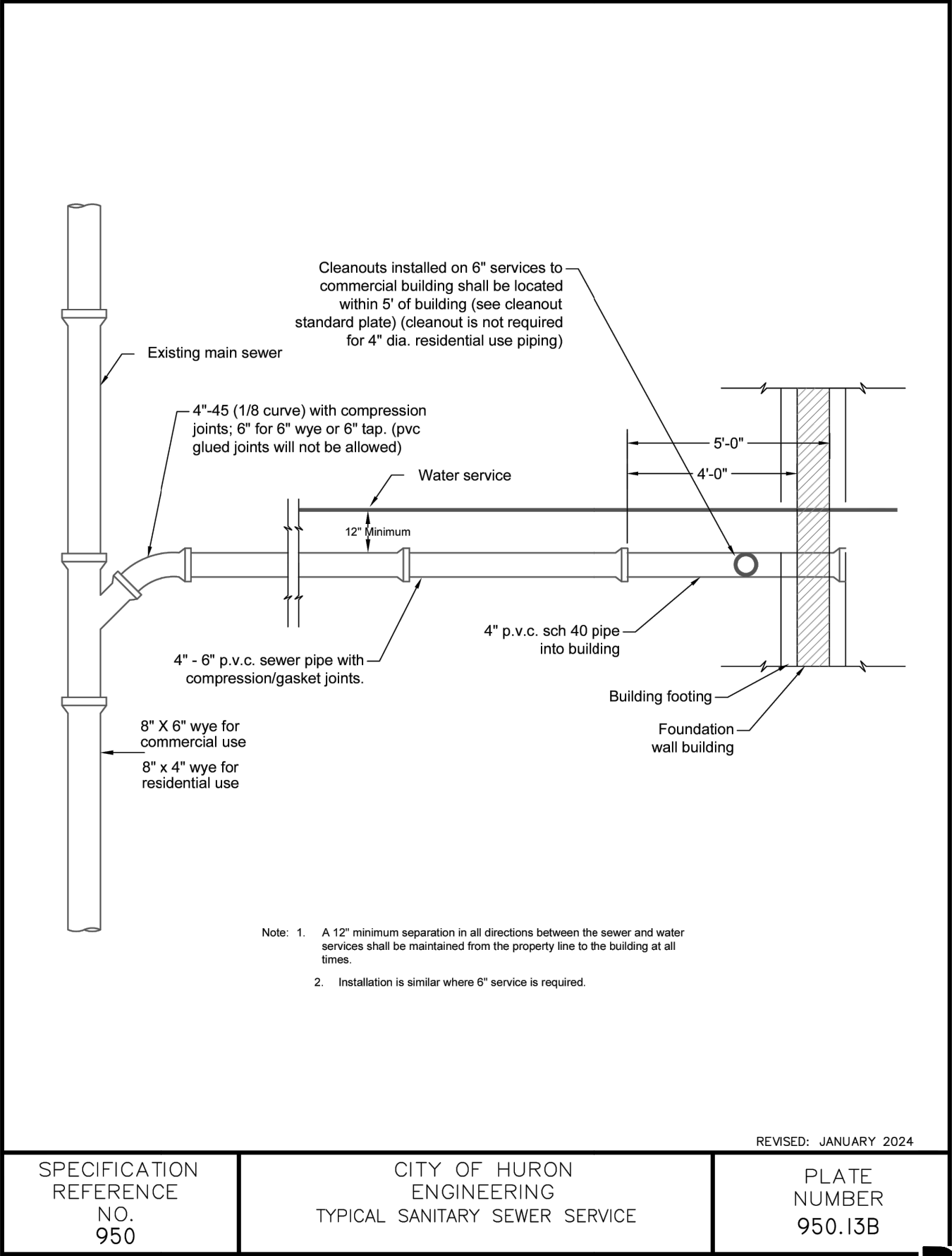
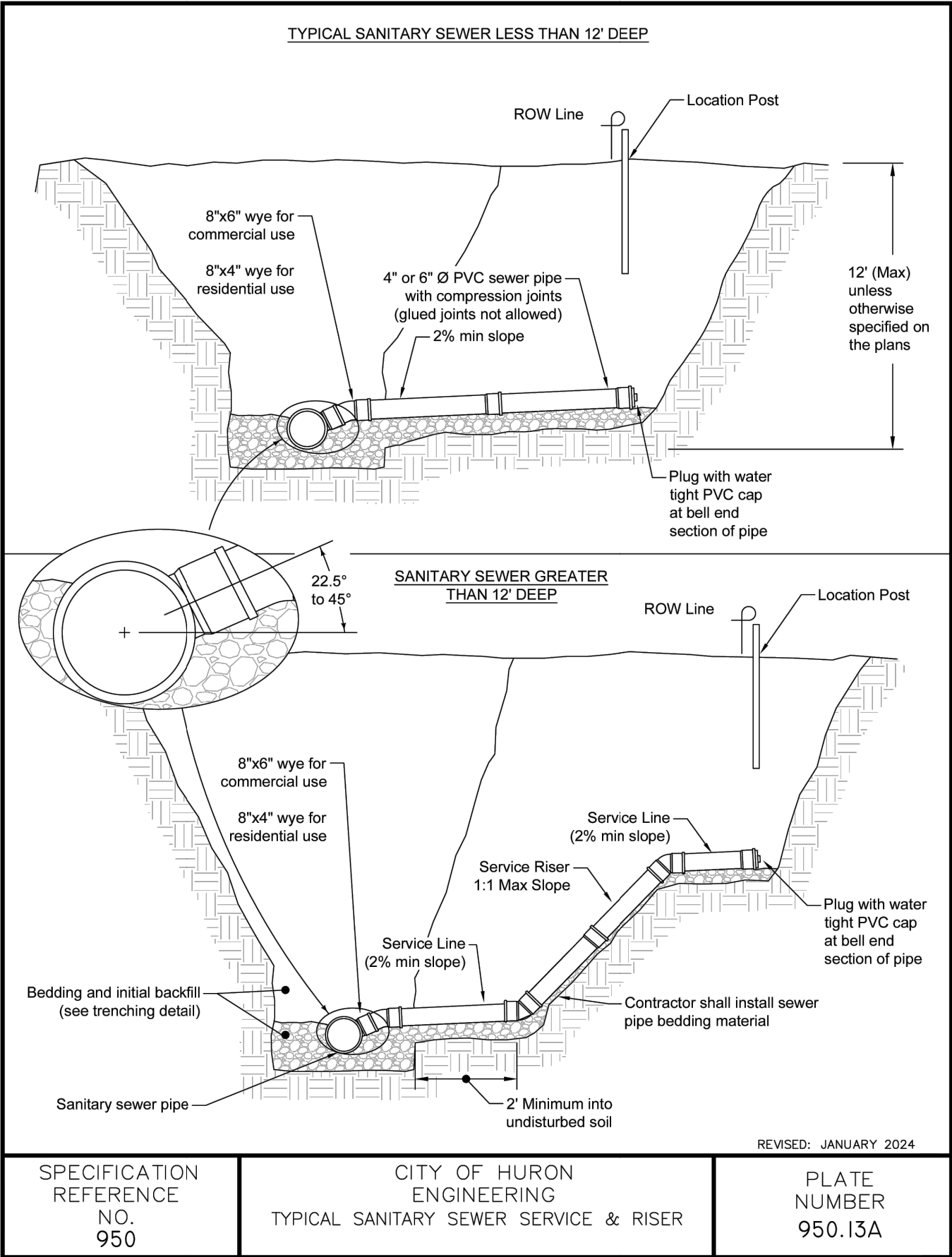
REVISED: JANUARY 2024

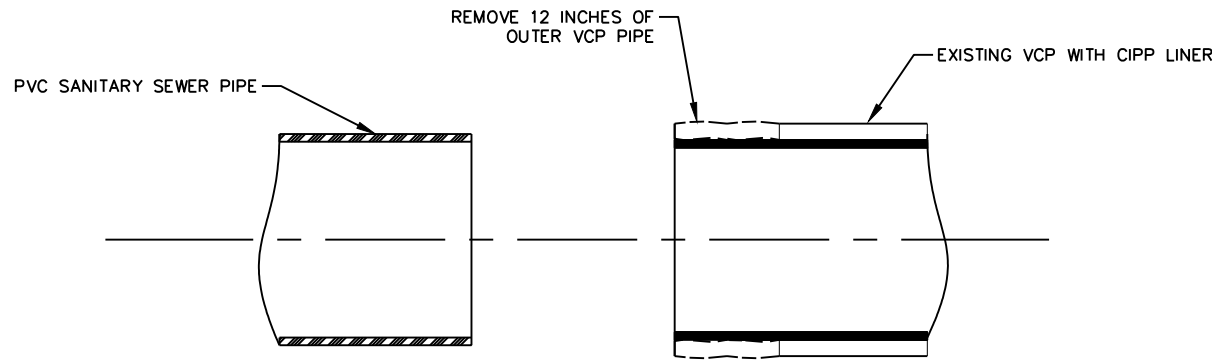
SPECIFICATION
REFERENCE
NO.
950

CITY OF HURON
ENGINEERING
CONCEALED PICK HOLE FOR SANITARY
MANHOLE COVERS

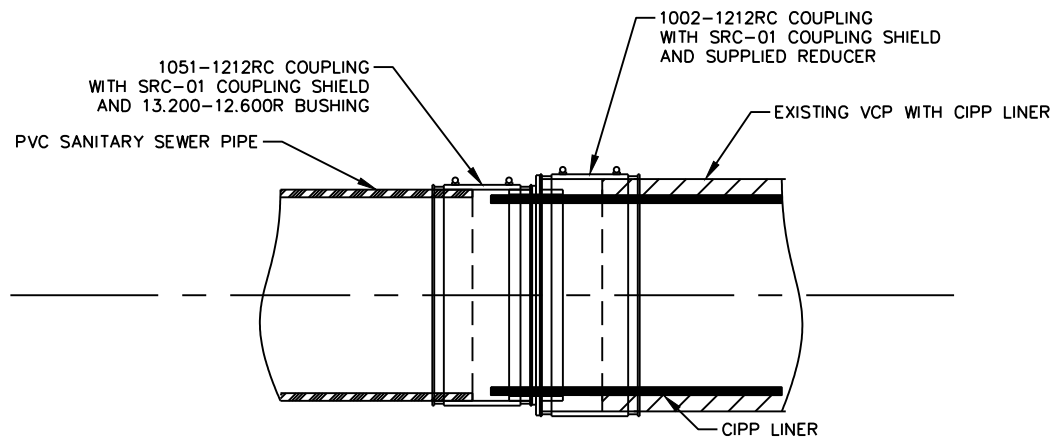
PLATE
NUMBER
950.II







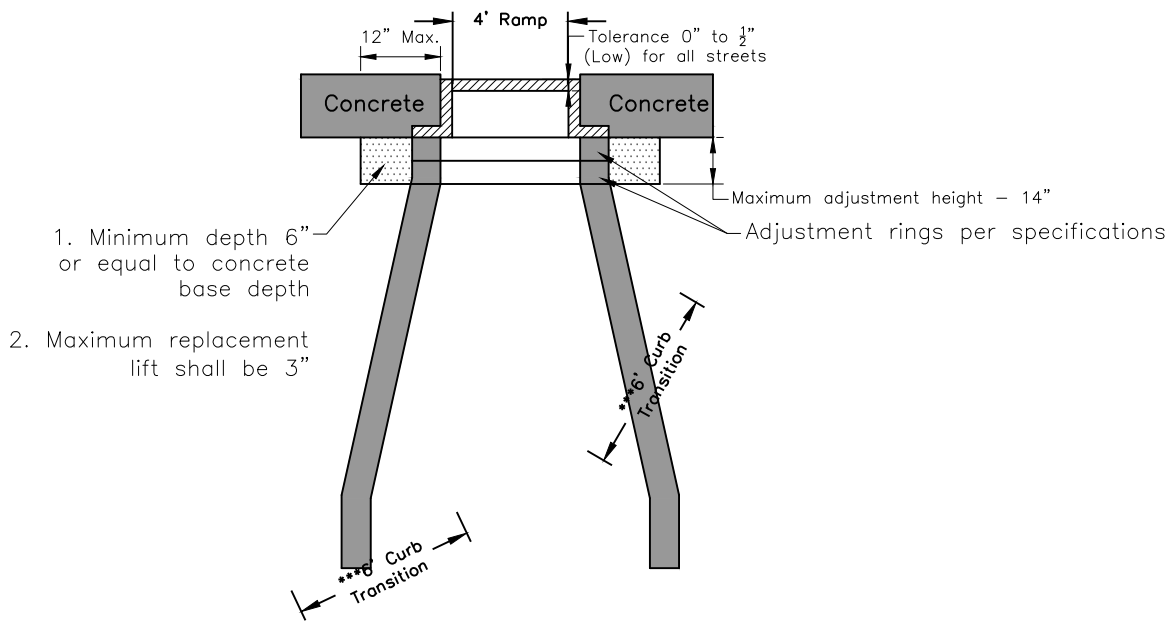
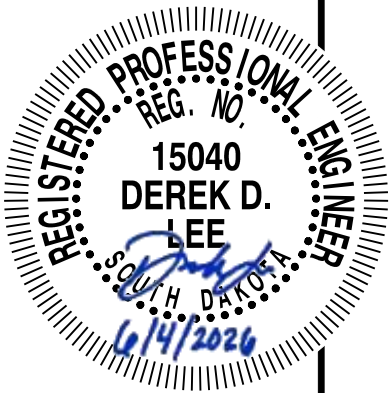
BEFORE



AFTER

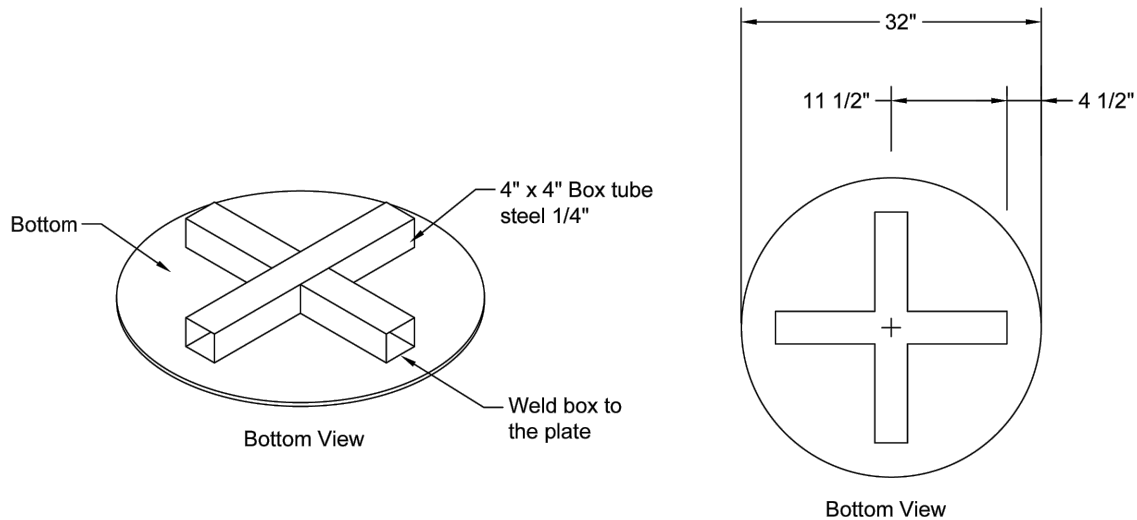
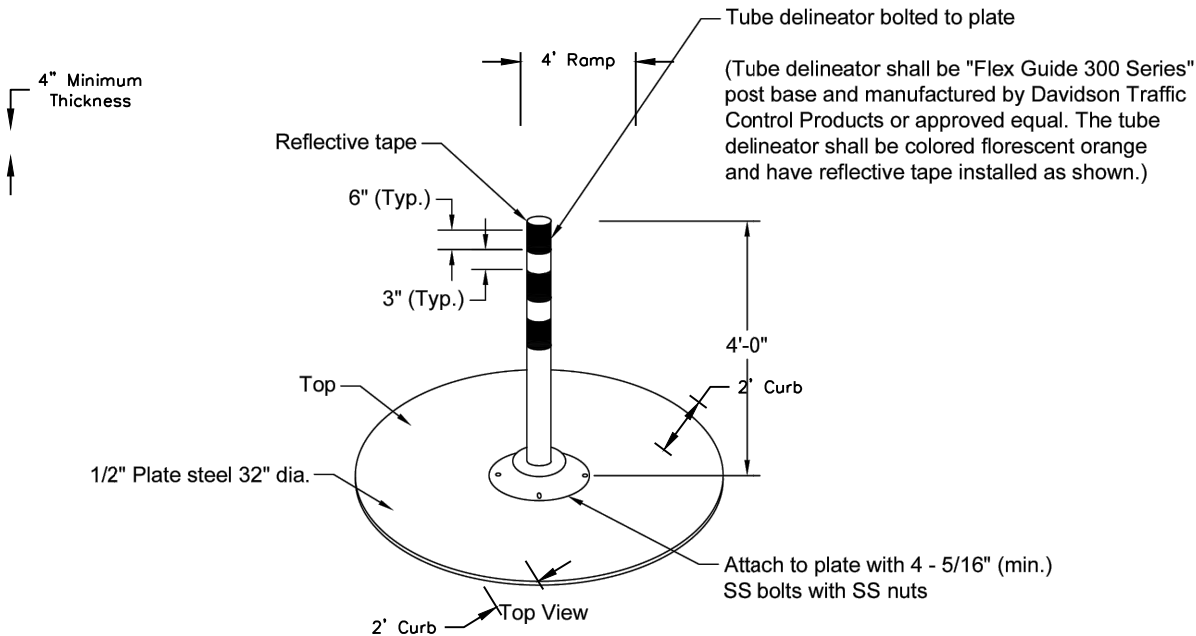
- NOTES:
- IF THE CIPP LINER IS DAMAGED, THE CIPP LINER WILL BE REPAIRED OR ADDITIONAL PIPE WILL BE REMOVED AND INSTALLED AT NO ADDITIONAL COST TO THE CITY.
 - NEW PVC PIPE WILL BE CONNECTED DIRECTLY TO THE EXISTING CIPP LINER USING A 13.200-12.600R BUSHING AND 1051-1212RC COUPLING WITH SRC-01 COUPLING SHIELD ALL BY FERNCO OR EQUIVALENT.
 - EXISTING VCP PIPE WILL BE CONNECTED DIRECTLY TO THE EXISTING CIPP LINER USING MANUFACTURER'S RECOMMENDED COUPLING AND REDUCER.
 - ALL MATERIALS, EQUIPMENT, AND LABOR FOR CONNECTING THE NEW PVC TO THE EXISTING CIPP LINER AND EXISTING CIPP LINER TO EXISTING OUTER VCP WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "CONNECT TO EXISTING SEWER MAIN".

PVC TO EXISTING CIPP VCP CONNECTION



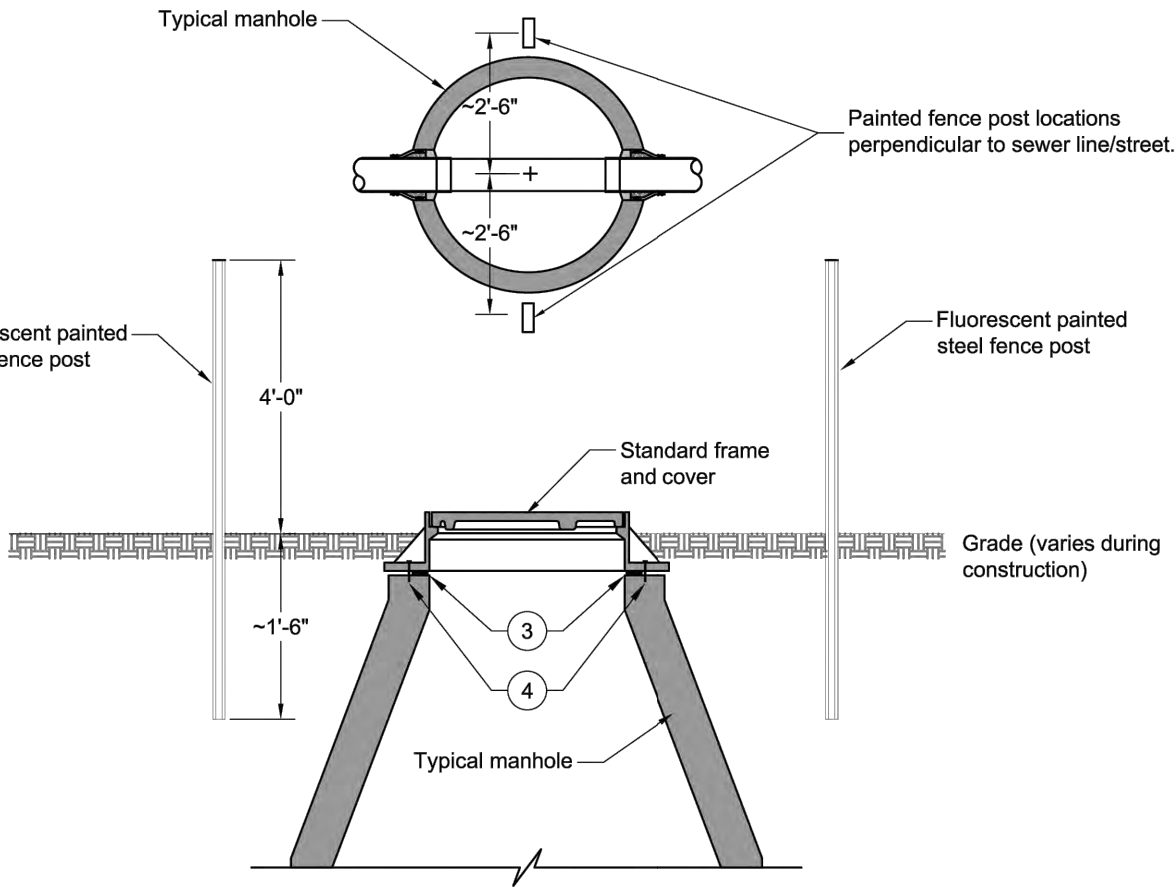
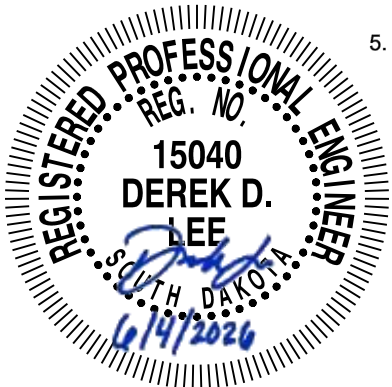
- Notes:
1. The adjustment of manhole and junction box castings involves adding or removing adjusting rings under the frame. If the elevation of the cover is too high, it may be necessary for the contractor to remove the upper course of brick and/or break down the concrete walls in the manhole or junction box and seat the frames in mortar, so that the elevations for the covers are flush with the top of the finished surface. Adjustment of frame and covers shall be in accordance with this standard plate and the supplemental standard specifications for sanitary sewer construction.
 2. Manhole and junction box castings shall be adjusted to final grade prior to placement of concrete surfacing.
 3. All manholes and junction boxes shall be adjusted to be flush with the concrete surface. The allowable vertical tolerance between the concrete pavement and any part of the frame and cover shall be 0" to 1/2" low. In no case shall the manhole or junction box frame and cover be above the surface of the concrete pavement.
 4. Concealed pick holes and the seal between the frame and cover shall be protected from foreign material. It shall be the contractors responsibility to provide a system to prevent foreign material from entering the concealed pick hole and frame and cover seal during the work.
 5. Payment for adjusting manhole and junction box frames and covers will be incidental to the new manhole and/or junction box installed, which will constitute full compensation for all materials, adjusting rings, asphalt and concrete removal and replacement, excavation, back filling, labor, tools, and other incidentals necessary to complete the work.

MANHOLE/JUNCTION BOX ADJUSTMENT- CONCRETE STREETS



- Note:
1. A Sealant material shall be installed between the manhole construction plate marker and the manhole to form a watertight seal.
 2. Breakaway lift hooks will be allowed on the top of the plate for use in installing and removing the plate. The lift hooks shall be located within a 10 inch radius of the plate center.

TEMPORARY MANHOLE COVER
MANHOLE CONSTRUCTION PLATE MARKER



- Notes:
1. The manhole frame and cover shall be installed immediately after surfacing removals and/or upon installation of the manhole. At no time shall a manhole be left overnight or when workers are not present without a Temporary Manhole Construction Frame and Cover.
 2. A water tight seal shall be a continuous gasket of butyl rope or butyl caulk (3/16" to 1/4" thickness). The butyl rubber material shall be placed between the anchor bolts and the inside edge of the manhole cone.
 3. Bolt frame to manhole cone using 4 stainless steel or galvanized "redhead" expansion bolts size 1/4" X 2 1/2" min. and 1 1/2" min. washers. Cut bolts flush to cone after removing casting for asphalt paving operations.
 4. Manhole access shall be exposed and accessible at all times.
 5. The temporary sanitary sewer bolt down manhole frame and cover shall remain in place until immediately before asphalt paving operations and adjustment of the frame and cover for the associated paving operation.

TEMPORARY MANHOLE COVER

