

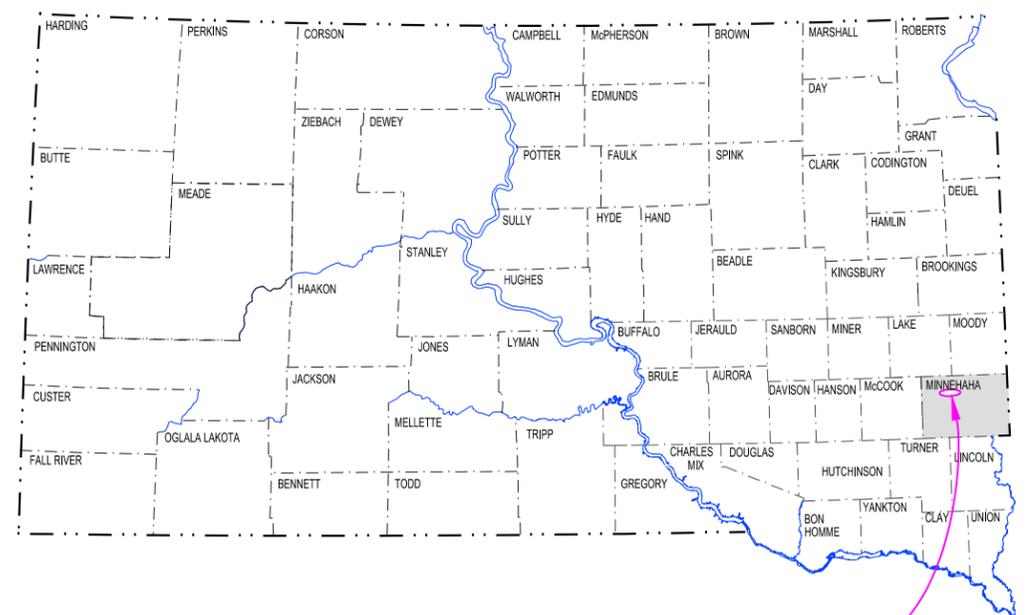
STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT TAPR (57)
CA 024A; DWSRF #C462135-05
CWSRF #C461135-04
MINNEHAHA COUNTY
COLTON SOUTH DAKOTA

PCC SIDEWALK, ROADWAY RECONSTRUCTION,
WATERMAIN UTILITY PCN 09P2 & PCN 09G6

ORDER OF CONSTRUCTION PLANS

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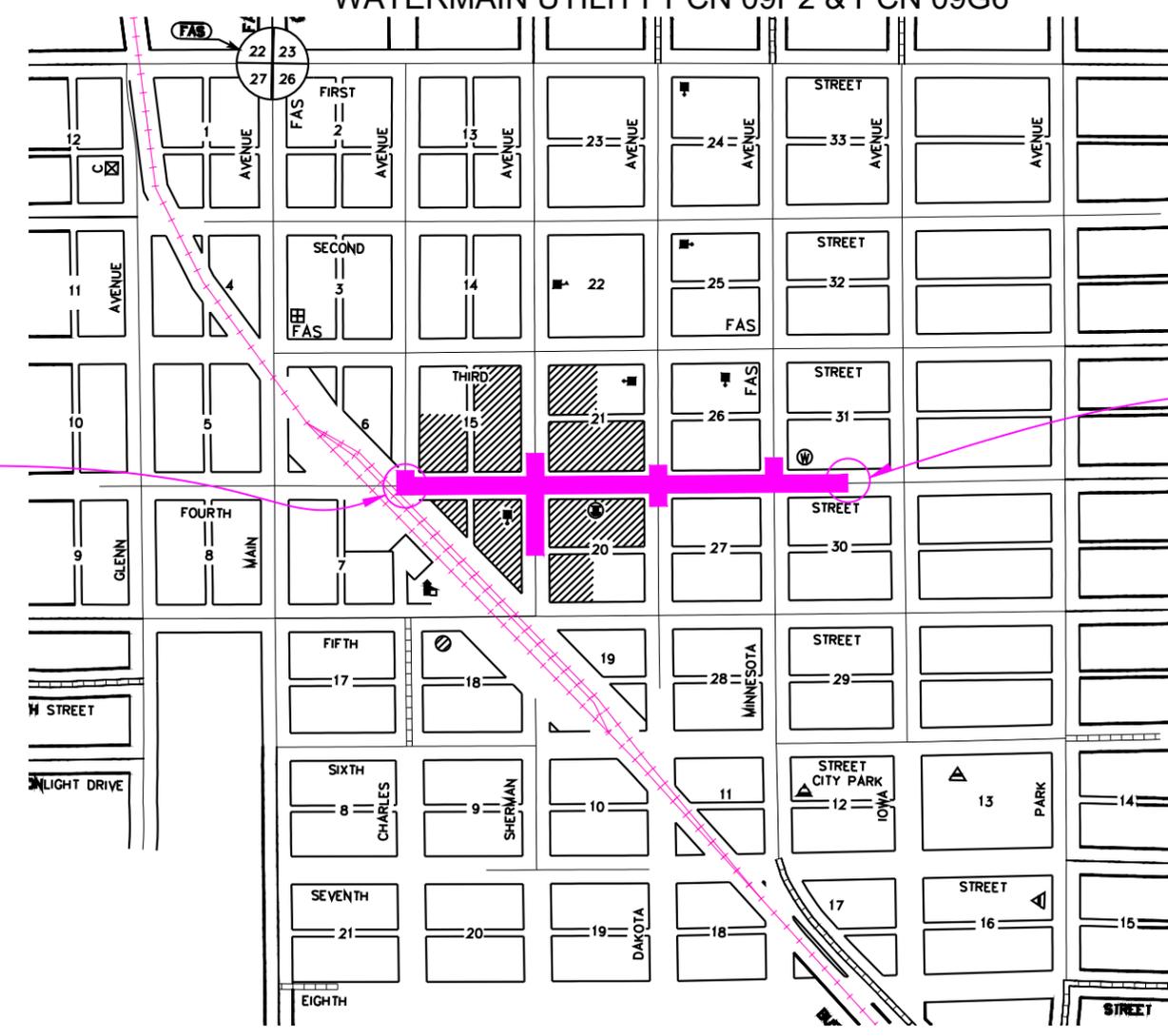
PROJECT

STORM WATER PERMIT
Major Receiving Body of Water: Colton Creek
Total Project Area: 2.4 Acres
Area Disturbed: 2.4 Acres
Approx. Begin Lat/Long: 43°47'13" N
96°55'45" W

DESIGN DESIGNATION
V 25 mph

BEGIN PCN 09P2 & PCN 09G6
Station 2+58.00
Located in
Section 26 - Township 104N - Range 51W

END PCN 09P2 & PCN 09G6
Station 14+83
Located in
Section 26 - Township 104N - Range 51W



3-10-2026

ESTIMATE OF QUANTITIES

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

PTAPR(67), CA 024A, C462135-05

SHEET

2

TOTAL
SHEETS

112

Plotting Date:

03/10/2026

Rev: ---

CAG 09P2

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0020	Clear and Grub Tree	2	Each
100E0100	Clearing	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	8,757.0	SqYd
110E1100	Remove Concrete Pavement	273.0	SqYd
110E1540	Remove Luminaire Pole Footing	7	Each
110E1960	Remove Valve Box	3	Each
110E1970	Remove Water Main	117	Ft
110E5740	Salvage Fire Hydrant	4	Each
110E7150	Remove Sign for Reset	12	Each
120E0010	Unclassified Excavation	2,151	CuYd
120E0100	Unclassified Excavation, Digtouts	162	CuYd
120E0300	Borrow Unclassified Excavation	750	CuYd
120E0600	Contractor Furnished Borrow	150	CuYd
120E0900	Contaminated Material Excavation	150	CuYd
120E6910	Portland Cement for Subgrade Stabilization	224.0	Ton
120E6912	Cement Treated Subgrade	8,282.0	SqYd
230E0010	Placing Topsoil	88	CuYd
230E0020	Contractor Furnished Topsoil	44	CuYd
250E0010	Incidental Work	Lump Sum	LS
260E0010	Subbase	250.0	Ton
260E1010	Base Course	4,177.0	Ton
320E1200	Asphalt Concrete Composite	2,384.0	Ton
451E0016	16" PVC Encasement Pipe	40	Ft
451E0401	1" High Density Polyethylene Pipe	855	Ft
451E0606	6" PVC Water Main	136	Ft
451E0608	8" PVC Water Main	1,271	Ft
451E0693	8" Water Main Restraining Device	69	Each
451E2207	6"x6" Pipe Tee	1	Each
451E2213	8"x6" Pipe Tee	4	Each
451E2314	8"x8" Pipe Cross	1	Each
451E2412	8"x4" Pipe Reducer	1	Each
451E2413	8"x6" Pipe Reducer	1	Each
451E2802	1" Corporation Stop with Tapping Saddle	24	Each
451E2902	1" Curb Stop with Box	24	Each
451E3008	8" Pipe Bend	4	Each
451E3604	4" Pipe Sleeve	1	Each
451E3606	6" Pipe Sleeve	2	Each
451E3608	8" Pipe Sleeve	2	Each
451E4206	6" Gate Valve with Box	6	Each
451E4208	8" Gate Valve with Box	6	Each
451E4400	Pipe Insulation	224	SqFt

CAG 09P2

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
451E4580	Standard Fire Hydrant	4	Each
451E4905	Trench Stabilization Material	350.0	Ton
451E6080	Adjust Water Valve Box	13	Each
451E6106	Cut and Tie to Existing Water Main	6	Each
451E7510	Verify Utilities	18	Each
632E1320	2.0"x2.0" Perforated Tube Post	148.0	Ft
632E1330	2.25"x2.25" Perforated Tube Post	80.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	30.0	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	29.0	SqFt
632E3500	Reset Sign	12	Each
633E1222	High Build Waterborne Pavement Marking Paint, 4" Yellow	1,386	Ft
633E1270	High Build Waterborne Pavement Marking Paint, Area	1,182	SqFt
633E1288	High Build Waterborne Pavement Marking Paint, Symbol	6	Each
633E8000	Curb Painting	234	Ft
634E0110	Traffic Control Signs	212.5	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	28	Each
634E1020	Temporary Business Signing	416.8	SqFt
635E5020	2' Diameter Footing	2.0	Ft
671E7010	Adjust Manhole	3	Each
730E0206	Type D Permanent Seed Mixture	58	Lb
731E0100	Fertilizing	282	Lb
732E0250	Fiber Mulching	374	Lb
734E0604	High Flow Silt Fence	60	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	10	Each
831E1500	Geotextile Bond Breaker Fabric	1,405	SqYd
900E1310	Concrete Washout Facility	1	Each
900E1320	Construction Entrance	2	Each
900E5410	Modify Sprinkler System	Lump Sum	LS
910E1220	Operator, Street Sweeping	10	Hour

PARTICIPATING TAP 09G6

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	944	Ft
110E0400	Remove Drop Inlet	2	Each
110E0510	Remove Pipe End Section	1	Each
110E0530	Remove Storm Sewer Pipe	100	Ft
110E1140	Remove Concrete Sidewalk	1,812.0	SqYd
120E0010	Unclassified Excavation	281	CuYd
120E0100	Unclassified Excavation, Digtouts	22	CuYd
260E1010	Base Course	553.0	Ton
380E4050	8" PCC Fillet Section	97.0	SqYd
450E0123	18" RCP Class 3, Furnish	136	Ft
450E0130	18" RCP, Install	136	Ft
450E0143	24" RCP Class 3, Furnish	212	Ft
450E0150	24" RCP, Install	212	Ft
450E0163	30" RCP Class 3, Furnish	318	Ft
450E0170	30" RCP, Install	318	Ft
450E0700	RCP Tee, Furnish	1	Each
450E0701	RCP Tee, Install	1	Each
450E2024	30" RCP Flared End, Furnish	1	Each
450E2025	30" RCP Flared End, Install	1	Each
450E3024	30" RCP Arch Class 4, Furnish	48	Ft
450E3030	30" RCP Arch, Install	48	Ft
462E0100	Class M6 Concrete	3.6	CuYd
480E0100	Reinforcing Steel	595	Lb
634E0110	Traffic Control Signs	28.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E2000	Longitudinal Pedestrian Barricade	48	Ft
634E2015	Temporary Pedestrian Access Route	Lump Sum	LS
634E2020	Temporary Curb Ramp	4	Each
650E0059	Modified Type B66 Concrete Curb and Gutter	2,637	Ft
650E6280	8" Concrete Valley Gutter	147.0	SqYd
651E0040	4" Concrete Sidewalk	46	SqFt
651E0060	6" Concrete Sidewalk	14,951	SqFt
651E0160	6" Reinforced Concrete Sidewalk	3,970	SqFt
651E5000	Sidewalk Drain	10.0	Ft
651E7000	Type 1 Detectable Warnings	170	SqFt
670E1010	2' x 3' Type B Drop Inlet	3	Each
670E1025	4' x 4' Type B Drop Inlet	5	Each
670E5200	Special Frame and Grate Assembly	1	Each
900E2015	Building, General	Lump Sum	LS



REMOVE AND RESET TABLE		
ALIGNMENT	ESTIMATED STATION & OFFSET	DESCRIPTION
4th Street	STA 2+66 @ 44' LT	STOP SIGN
4th Street	STA 3+16 @ 42' LT	HISTORICAL INFORMATION SIGN
4th Street	STA 3+65 @ 42' LT	RAILROAD CROSSING SIGN
4th Street	STA 3+69 @ 41' RT	20 MPH SPEED LIMIT SIGN
4th Street	STA 6+21 @ 31' RT	NO U-TURN SIGN
4th Street	STA 6+25 @ 30' LT	BUSINESS SIGN (TEXACO)
4th Street	STA 6+28 @ 41' RT	FLAGPOLE

REMOVE AND RESET TABLE		
ALIGNMENT	ESTIMATED STATION & OFFSET	DESCRIPTION
4th Street	STA 6+42 @ 42' LT	STOP SIGN
4th Street	STA 6+97 @ 42' RT	STOP SIGN
4th Street	STA 9+91 @ 42' LT	STOP SIGN
4th Street	STA 10+50 @ 41' RT	STOP SIGN
4th Street	STA 10+61 @ 30' RT	NO U-TURN SIGN
4th Street	STA 13+29 @ 52' LT	YIELD SIGN

NEW PERMANENT SIGNING		
ALIGNMENT	ESTIMATED STATION & OFFSET	DESCRIPTION
4th Street	STA 4+52 @ 42' RT	ADA ACCESS AISLE SIGN
4th Street	STA 4+64 @ 42' RT	ADA PARKING SIGN
4th Street	STA 5+25 @ 42' LT	ADA PARKING SIGN
4th Street	STA 5+39 @ 42' LT	ADA ACCESS AISLE SIGN
4th Street	STA 6+27 @ 66' RT	ADA ACCESS AISLE SIGN
4th Street	STA 6+27 @ 81' RT	ADA PARKING SIGN
4th Street	STA 7+05 @ 33' RT	NO PEDESTRIAN CROSSING SIGN
4th Street	STA 7+06 @ 33' LT	NO PEDESTRIAN CROSSING SIGN
4th Street	STA 8+37 @ 42' LT	ADA PARKING SIGN
4th Street	STA 8+49 @ 42' LT	ADA ACCESS AISLE SIGN
4th Street	STA 8+73 @ 42' RT	ADA ACCESS AISLE SIGN
4th Street	STA 8+84 @ 42' RT	ADA PARKING SIGN
4th Street	STA 10+86 @ 42' RT	ADA ACCESS AISLE
4th Street	STA 11+03 @ 42' RT	ADA PARKING SIGN

TABLE OF DROP INLET REMOVAL (TAP 09G6)

All costs for removal of the frame and grate assembly will be incidental to the contract unit price per each for "Remove Drop Inlet".

Station	L/R	Quantity (Each)
3+10	56' L	1
3+35	29' L	1
Total:		2

TABLE OF DROP INLETS AND QUANTITIES (TAP 09G6)

Station	L / R	Drop Inlet Size	Drop Inlet Type	Class M6 Concrete (CuYd)	Reinf. Steel (Lb)	Precast	Frame and Grate/Lid Type
						Drop Inlet Collar (Each)	
2+72	91' L	4'4"	B	-	-	1	B
3+10	57' L	10'3"	S	3.6	595	1	S
3+35	29' L	4'4"	B	-	-	1	B
4+79	29' L	4'4"	B	-	-	1	B
6+16	29' L	4'4"	B	-	-	1	B
6+16	29' R	3'2"	B	-	-	1	B
7+00	57' L	3'2"	B	-	-	1	B
8+33	29' L	4'4"	B	-	-	1	B
8+33	29' R	3'2"	B	-	-	1	B
Totals:				3.6	595	9	

Total Type B Frame and Grate 8
 Total Type C Frame and Grate 0
 Total 10'3' Precast Concrete Type S Drop Inlet Lid 1

TABLE OF ADJUST MANHOLES

Station	L/R	Type of Adjustment
3+00	16' R	Up 0.05'
6+68	17' R	Up 0.15'
6+68	186' R	Up 0.03'

TABLE FOR ADJUSTMENT OF WATER VALVES

Station	Adjustment
2+60 20' L	Up 5"
3+00 50' L	Up 5"
3+04 14' L	Up 5"
3+04 47' L	Up 5"
6+85 12' L	Up 5"
6+88 67' L	Up 5"
6+88 9' L	Up 5"
6+91 12' L	Up 5"
7+14 9' L	Up 5"
10+64 14' L	Up 5"
13+92 12' L	Up 5"
14+67 16' L	Up 5"

VERIFY UTILITY WORKSHEET												
ALIGNMENT	ESTIMATED STATION	UTILITY	DATE LOCATED	LOCATED STATION	OFFSET FROM CENTERLINE	ELEVATION AT TOP	APPROX DEPTH BELOW FG	RELOCATION NEEDED (YES/NO)	RELOCATED BY	DATE RELOCATED	UTILITY OWNER	UTILITY COMPANY
Charles Ave	1+27	GAS										
Charles Ave	1+85	STORM										
Charles Ave	2+00	WATER										
Charles Ave	2+10	GAS										
Sherman Ave	2+16	GAS										
Charles Ave	2+19	STORM										
4th Street	2+60	WATER										
4th Street	2+91	GAS										
4th Street	3+36	STORM										
Sherman Ave	4+77	WATER										
4th Street	6+88	WATER										
4th Street	7+05	FIBER										
4th Street	9+89	POWER										
4th Street	9+94	OVERHEAD POWER										
4th Street	10+28	FIBER										
4th Street	13+75	GAS										
4th Street	13+75	FIBER										
4th Street	14+67	WATER										



ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/doing-business/environmental/about-environmental/>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT C: WATER SOURCE

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥ 140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website: <https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: <https://sdleastwanted.sd.gov/maps/default.aspx>

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species: <https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04>

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

Action Taken/Required:

The Contractor is advised that the South Dakota Surface Water Quality Standards, administered by the South Dakota Department of Agriculture and Natural Resources (DANR), apply to this project. Special construction measures will be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT D2: SURFACE WATER DISCHARGE

The DANR General Permit for Temporary Discharge Activities is required for temporary dewatering and discharges to waters of the state. The effluent limit for total suspended solids will be 90 mg/L 30-day average. The effluent limit applies to discharges to all waters of the state except discharges to waters classified as coldwater permanent fish life propagation waters according to the ARSD 74:51:01:45. For discharges to waters of the state classified as coldwater permanent fish life propagation waters, the effluent limit for total suspended solids will be 53 mg/L daily maximum.

The permittee has the option of completing effluent testing or implementing a pollution prevention plan for compliance with this permit. If the permittee develops a pollution prevention plan instead of total suspended solids sampling, the plan must be developed and implemented prior to discontinuing total suspended solids sampling. Refer to Section 4.0 of the permit. If any pollutants are suspected of being discharged, a sample must be taken for those parameters listed in Section 3.4 of the permit.

Refer to Commitment D1: Surface Water Quality for stream classification.

Action Taken/Required:

If construction dewatering is required and this project is currently covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the contractor will need to submit the dewatering information to the Project Engineer using the following SDDOT Dewatering Info CDX form:

<https://dot.sd.gov/doing-business/environmental/forms/>

The Contractor will provide a copy of the approved permit or the submitted dewatering information to the Project Engineer prior to proceeding with any

dewatering activities. The approved permit or submitted dewatering information must be kept on-site and as part of the project records.

Effluent monitoring, as a result of dewatering activities, will be summarized for each month and recorded on a separate Discharge Monitoring Report (DMR) and submitted to DANR monthly. Additional information can be found at:

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

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance and/or work in a waterway.

Action Taken/Required:

The DANR General Permit for Stormwater Discharges Associated with Construction Activities is required for construction activity disturbing one or more acres of earth and work in a waterway. The SDDOT is the owner of this permit and will submit the NOI to DANR 15 days prior to project start in order to obtain coverage under the General Permit. Work can begin once the DANR letter of approval is received.

The Contractor must adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State."

The Contractor will complete the DANR Contractor Authorization Form prior to the pre-construction meeting. The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the permit for this project. Work may not begin on this project until this form is signed and submitted to DANR.

The form can be found at:

< https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAppendixCCA2023Fillable.pdf >

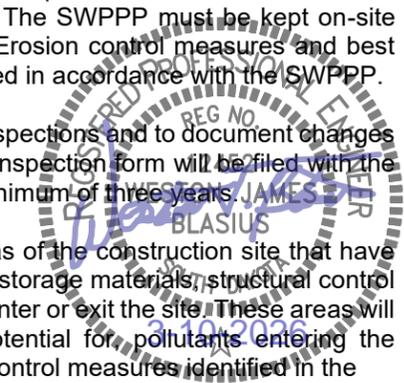
The Contractor is advised that permit coverage may also be required for off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

Storm Water Pollution Prevention Plan

The Storm Water Pollution Prevention Plan (SWPPP) will be developed prior to the submittal of the NOI and will be implemented for all construction activities for compliance with the permit. The SWPPP must be kept on-site and updated as site conditions change. Erosion control measures and best management practices will be implemented in accordance with the SWPPP.

The DOT 298 Form will be used for site inspections and to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents and retained for a minimum of three years.

The inspection will include disturbed areas of the construction site that have not been finally stabilized, areas used for storage materials, structural control measures, and locations where vehicles enter or exit the site. These areas will be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the



COMMITMENT E: STORM WATER, CONTINUED

SWPPP will be observed to ensure that they are operating correctly, and sediment is not tracked off the site.

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

SDDOT: < <https://dot.sd.gov/doing-business/environmental/stormwater> >

DANR:< <https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/default.aspx> >

EPA: < <https://www.epa.gov/npdes> >

COMMITMENT G: DEWATERING AND SEDIMENT COLLECTION

The purpose of a dewatering and sediment collection system is to collect turbid stormwater on the project, treat it with flocculants as needed, and capture the sediment that falls out of suspension before the water is discharged into "Waters of the US" or "Waters of the State". Refer to Commitment D1: Surface Water Quality for stream classification.

Action Taken/Required:

The Contractor will meet the terms of the Temporary Discharge Permit and the Storm Water Permit for Construction Activities.

The Contractor will create a Pollution Prevention Plan (PPP) for dewatering and sediment collection if the Contractor chooses to discharge the water into "Waters of the US" or "Waters of the State". Refer to the detail sheet OPTIONS FOR DEWATERING AND SEDIMENT COLLECTION in the plans. The PPP must be kept on-site and updated as site conditions change.

COMMITMENT H: WASTE DISPOSAL SITE

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

Action Taken/Required:

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

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

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

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06. Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

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

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586.

SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COMMITMENT M: SECTION 4(f)/6(f) RESOURCES

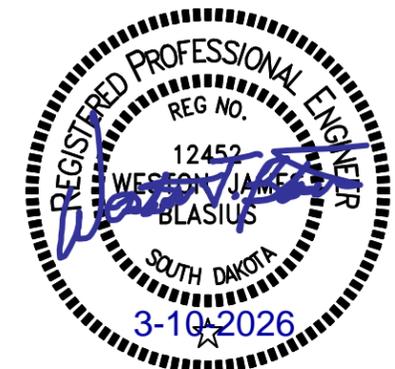
COMMITMENT M1: SECTION 4(f) PROPERTY

Table of Adjacent Section 4(f) Property

Station	Section 4(f) Property
14+75 L	Colton Water Tower

Action Taken/Required:

The contractor will notify the Project Engineer if additional temporary or permanent easement is necessary to construct the project. Temporary occupancy and permanent incorporation of, and restriction of access to, the Section 4(f) property must be avoided unless there are no feasible or prudent alternatives to use of the land and the action includes all possible planning to minimize harm to the property. The Project Engineer will notify the Environmental Office as Section 4(f) use must be approved by the Federal Highway Administration.



GENERAL NOTES

PROJECT SCOPE

THIS PROJECT CONSISTS OF WATER UTILITY REPLACEMENT, ROADWAY REMOVALS AND RECONSTRUCTION INCLUDING SIDEWALK RECONSTRUCTION, PERMANENT PAVEMENT MARKINGS, PERMANENT SIGNING AND SITE RESTORATION.

ENGINEER

BANNER ASSOCIATES INC.
3900 N NORTHVIEW AVE.
SIOUX FALLS, SD 57107

ENGINEER: ALEX WELBIG

PHONE: 605-696-9185

OWNER

CITY OF COLTON
309 E 4TH ST
COLTON, SD 57018
CONTACT: JERRIT PEDERSEN

PROJECT LOCATION

COLTON, SOUTH DAKOTA
SECTION 26, TOWNSHIP 104N, RANGE 50W

MACHINE CONTROL GRADING & MODEL INFORMATION

ELECTRONIC DESIGN FILES ARE MADE AVAILABLE BY THE SDDOT BID LETTING OFFICE THROUGH THE SDDOT'S SHAREPOINT DIRECTORY FOR CONTRACTORS. THE ROADWAY SUBGRADE MODEL(S) XML FILE(S) PROVIDED FOR THIS PROJECT INCLUDES THE FOLLOWING FEATURES: FINISH GRADE SURFACE REPRESENTATIONS FOR ROADWAY AND SIDEWALK, ALL SURFACING LINWORK, WATERMAIN UTILITY NETWORK, STORM SEWER UTILITY NETWORK.

THESE FILES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE INFORMATION SHOWN IN THE PLANS WILL GOVERN OVER THE PROVIDED ELECTRONIC INFORMATION. THE CONTRACTOR ASSUMES THE RISK OF ERROR IF THE INFORMATION IS USED FOR ANY PURPOSES FOR WHICH THE INFORMATION WAS NOT INTENDED. THE CONTRACTOR ASSUMES ALL RISK OF ANY ASSUMPTIONS OR MANIPULATIONS MADE OF THE ELECTRONIC INFORMATION.

CONSTRUCTION STAKING

THE CONTRACTOR MUST PROVIDE A 72 HOUR NOTICE FOR ALL CONSTRUCTION STAKING REQUESTS.

SOIL BORINGS

SOIL BORING INFORMATION TAKEN FOR THE PROJECT HAS BEEN INCLUDED IN THE PROJECT MANUAL. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT DEPTHS OR CHARACTER OF MATERIALS SHOWN ARE CORRECT OR COMPLETE. CONDITIONS AFFECTING WORK MAY ACTUALLY DIFFER FROM THOSE SHOWN IN THE BORING LOGS. BIDDERS ARE EXPECTED TO EXAMINE THE SITE, INTERPRET OR DISREGARD SOIL BORING LOGS AS THEY SEE FIT, AND ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE CHARACTER AND LOCATIONS OF MATERIALS TO BE ENCOUNTERED. ALL CONTRACTORS DESIRING TO TAKE ADDITIONAL SOIL BORINGS ON THIS PROJECT MUST OBTAIN PERMISSION FROM THE PROPERTY OWNERS INVOLVED AND FROM THE ENGINEER/OWNER.

PROPERTY PIN AND SECTION CORNER MONUMENTATION

PROPERTY CORNERS OR SECTION CORNER MONUMENTS WITHIN THE WORK LIMITS MUST BE CAREFULLY PRESERVED BY THE CONTRACTOR. IN NO CASE MUST EXCAVATION BE MADE WITHIN FIVE FEET (5') OF SUCH MONUMENT UNTIL IT HAS BEEN ACCURATELY LOCATED, WITNESSED, OR OTHERWISE CARED FOR BY THE ENGINEER, AND PERMISSION IS GIVEN TO PROCEED WITH THE WORK. IF THE CONTRACTOR DISCOVERS MONUMENTS THAT HAVE NOT BEEN PREVIOUSLY LOCATED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER

SO EFFORTS CAN BE MADE TO PROTECT, PRESERVE, OR RESET THEM.

PROPERTY CORNER OR SECTION CORNER MONUMENTS DISTURBED OR REMOVED THROUGH THE CARELESSNESS OF THE CONTRACTOR, OR WITHOUT PROPER PERMISSION, WILL BE RESET BY THE ENGINEER AND PAID FOR BY THE CONTRACTOR.

WORKING HOURS

ALLOWABLE WORKING HOURS ON THE PROJECT MUST BE MONDAY THROUGH SATURDAY BETWEEN 7AM TO 7PM. PRIOR APPROVAL IS NEEDED FROM THE OWNER AND ENGINEER TO WORK ON FEDERAL HOLIDAYS OR OUTSIDE THE SPECIFIED HOURS OF EXPECTED CONSTRUCTION.

COORDINATION MEETINGS

THE CONTRACTOR MUST CONDUCT COORDINATION MEETINGS WITH THE SUBCONTRACTORS, UTILITIES, OWNER AND THE ENGINEER. THESE MEETINGS MUST BE HELD BI-WEEKLY AT A LOCATION ON OR NEAR THE PROJECT. THE CONTRACTOR MUST DETERMINE THE TIME AND LOCATION AND AS APPROVED BY THE ENGINEER/OWNER.

ALL COSTS ASSOCIATED WITH THE COORDINATION MEETINGS WILL BE INCIDENTAL TO VARIOUS OTHER BID ITEMS. NO PAYMENT WILL BE MADE FOR COORDINATION MEETINGS

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.

GARBAGE SERVICE

THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING GARBAGE SERVICE WITH PROPERTY OWNERS ALONG THE PROJECT.

POST OFFICE COORDINATION

WORK WILL TAKE PLACE ADJACENT TO THE POST OFFICE BUILDING. ANY DISTRUPTION IN ACCESS TO THE POST OFFICE MUST REQUIRE A 7 – DAY NOTICE. INTERRUPTIONS MUST BE LIMITED TO NON-OPERATING HOURS.

VERIFY UTILITIES

THIS WORK CONSISTS OF EXCAVATING MATERIAL TO VERIFY THE DEPTH OF AN EXISTING UTILITY LINE OR SERVICE, (PRIVATE OR PUBLIC), TO AVOID POSSIBLE CONFLICTS, WHEN DIRECTED BY THE ENGINEER. IT IS EXPECTED THAT THE VERIFICATION OF UTILITIES WILL TAKE PLACE AS EARLY AS PRACTICAL, TO ALLOW UTILITY OWNERS AMPLE TIME TO COORDINATE AND RELOCATE THE UTILITY IF NECESSARY. AFTER VERIFICATION, THE CONTRACTOR MUST COORDINATE INFORMATION WITH THE ENGINEER.

THE FOLLOWING UTILITY COMPANIES ARE KNOWN TO HAVE FACILITIES ON THE PROJECT:

- CITY OF COLTON – (605) 446-3811
- GOLDEN WEST – (605) 528-3211
- MIDAMERICAN ENERGY – (605) 373-6038
- MIDCONTINENT COMMUNICATIONS – (605) 274-8545
- SIOUX VALLEY ENERGY – (605) 582-2185
- MINNEHAHA COUNTY HIGHWAY DEPARTMENT – (605) 367-4317
- MINNEHAHA COMMUNITY WATER CORPORATION – (605) 428-3374
- ITC – (605) 693-3211

UTILITIES

THE CONTRACTOR WILL CONTACT THE INVOLVED UTILITY COMPANIES THROUGH SOUTH DAKOTA ONE CALL (1-800-781-7474) PRIOR TO STARTING WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WORK WITH THE UTILITY OWNERS TO AVOID DAMAGE TO EXISTING FACILITIES.

THE CONTRACTOR WILL BE AWARE THAT THE EXISTING UTILITIES SHOWN IN THE PLANS WERE SURVEYED PRIOR TO THE DESIGN OF THIS PROJECT AND MIGHT HAVE BEEN RELOCATED OR REPLACED BY A NEW UTILITY FACILITY PRIOR TO CONSTRUCTION OF THIS PROJECT, MIGHT BE RELOCATED OR REPLACED BY A NEW UTILITY FACILITY DURING THE CONSTRUCTION OF THIS PROJECT, OR MIGHT NOT REQUIRE ADJUSTMENT AND MAY REMAIN IN ITS CURRENT LOCATION. THE CONTRACTOR WILL CONTACT EACH UTILITY OWNER AND CONFIRM THE STATUS OF ALL EXISTING AND NEW UTILITY FACILITIES. THE UTILITY CONTACT INFORMATION IS PROVIDED ELSEWHERE IN THE PLANS OR BIDDING DOCUMENTS.

PRIOR TO EXCAVATION IN OR ADJACENT TO BNSF (BURLINGTON NORTHERN SANTA FE) RAILWAY ROW AND IN CONJUNCTION WITH CONTACTING THE SD ONE-CALL, THE CONTRACTOR WILL CALL THE BNSF UTILITY LOCATE NUMBER 1-800-533-2891.

CONTRACTOR INSTALLED UTILITIES

THE CONTRACTOR MUST BE RESPONSIBLE FOR ASSISTING WITH LOCATING THE UTILITIES INSTALLED WITH THE PROJECT UNTIL FINAL ACCEPTANCE IS GRANTED. NO ADDITIONAL PAYMENT WILL BE MADE FOR LOCATING UTILITIES.

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

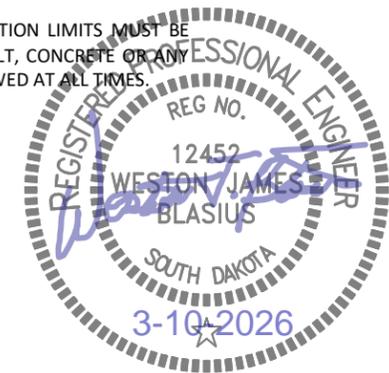
FOR THE PROTECTION OF EXISTING PUBLIC UNDERGROUND UTILITIES AND THE SURROUNDING WORK AREA, CONSIDERATION MUST BE GIVEN TO ISOLATING PORTIONS OF THE EXISTING WATER DISTRIBUTION SYSTEM WITHIN THE CONSTRUCTION LIMITS WHILE MAINTAINING FIRE PROTECTION. DURING UNDERGROUND UTILITY INSTALLATION SUCH AS, BUT 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 MUST 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 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. THE CITY MUST BE NOTIFIED IMMEDIATELY AFTER THE SHUTDOWN. CITY STAFF 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 MUST 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 MUST BE RESPONSIBLE FOR ANY DAMAGES OR COSTS INCURRED TO THE CITY'S SANITARY SEWER SYSTEM, WATER RECLAMATION DIVISION, 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 MUST 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.



BUILDING GENERAL

THIS WORK CONSISTS OF COMPLETING BUILDING MODIFICATIONS TO ACCOMMODATE CONSTRUCTION OF THE ADJACENT SIDEWALK AND OTHER PEDESTRIAN FACILITIES WITHIN THE SCOPE OF WORK ON THE PROJECT. THIS WORK MAY INCLUDE BUT IS NOT LIMITED TO: REMOVAL OF EXTERIOR BUILDING MATERIALS, WATERPROOFING OF BUILDING FRONTS AT THE SIDEWALK INTERFACE, ABANDONMENT OF COAL CHUTES, FURNISH AND INSTALLATION OF FLASHING, FINISHING TRIM AND/OR OTHER NECESSARY STRUCTURE MODIFICATIONS TO ACCOMPLISH COMPLETION OF THE SIDEWALK CONSTRUCTION.

THE BID ITEM FOR BUILDING, GENERAL WILL BE PAID AS A LUMP SUM ITEM.

INCIDENTAL WORK

THIS WORK CONSISTS OF COMPLETING THE FOLLOWING WORK ITEMS AS DESCRIBED BELOW AND IDENTIFIED IN THE PROJECT PLANS:

- REMOVE AND RESET TEXACO GAS STATION SIGN
WORK INCLUDES: ALL LABOR, TOOLS AND EQUIPMENT TO PROPERLY DISASSEMBLE THE SIGN ASSEMBLY FOR REMOVAL AND SALVAGE ALL PARTS OF THE SIGN AND HARDWARE. RESETTING OF THE SIGN WILL INCLUDE INSTALLATION OF A 2' DIAMETER X 6' DEEP REINFORCED CONCRETE FOUNDATION WITH ANCHORS TO ACCOMMODATE ATTACHMENT OF THE SIGN SUPPORT BASE (SD DOT PLATE 635.55). THE 2' DIAMETER SIGN FOOTING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "2' DIAMETER FOOTING" IN WHICH PAYMENT WILL BE MADE AT THE PRICE PER FOOT OF DEPTH.

THE SIGN MUST BE RE-ERECTED TO ITS ORIGINAL CONFIGURATION. ANY BROKEN, LOST OR MISSING PIECES OF THE SIGN ASSEMBLY MUST BE REPLACED AT THE CONTRACTORS EXPENSE. ANY DAMAGE MUST BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL COSTS EXCEPT FOR THE 2' DIAMETER FOOTING MUST BE INCLUDED IN THE PRICE FOR "INCIDENTAL WORK"

- UTILITY LOCATING DEVICE
WORK INCLUDES: PROVIDE ONE COMPLETE PIPE AND CABLE LOCATOR UNIT TO CITY FOR THEIR USE.
 - UNIT MUST INCLUDE RECEIVER, TRANSMITTER, DIRECT CONNECTION CABLES, GROUND STAKE, SOFT SIDED CASE, LITHIUM-ION RECHARGEABLE BATTERY PACK WITH TWO CHARGING CHORDS, A USER'S GUIDE AND 1 DAY TRAINING BY A PRODUCT TECHNICAL REPRESENTATIVE.
 - FEATURES MUST INCLUDE: 8 FREQUENCIES FROM 512HZ TO 200KHZ ACTIVE LOCATING FREQUENCIES ALSO PASSIVE MODES.
 - PERFORMANCE: 33KHZ AT 3.3-FT SENSITIVITY, 3% DEPTH MEASUREMENT PRECISION, 5% OF DEPTH LOCATE ACCURACY
 - ONE DAY TRAINING MUST BE COORDINATED WITH CITY PERSONNEL AND A TRAINED AND CERTIFIED PRODUCT TECHNICAL REPRESENTATIVE.
 - APPROVED PRODUCT: RD7200 BY RADIODETECTION, VIPERMAG BY COPPERHEAD INDUSTRIES OR ENGINEER APPROVED EQUAL.

EROSION CONTROL

PLACING TOPSOIL

THE THICKNESS WILL BE APPROXIMATELY 6 INCHES WITHIN THE RIGHT-OF-WAY AND 6 INCHES ON TEMPORARY EASEMENTS.

CONTRACTOR FURNISHED TOPSOIL

IT IS ANTICIPATED THAT A LARGER VOLUME OF TOPSOIL WILL BE NEEDED FOR THE NEW GRADE THAN CAN BE SALVAGED FROM THE EXISTING GRADE. THE CONTRACTOR WILL BE REQUIRED TO FURNISH AND PLACE 6 INCHES OF TOPSOIL IN ALL AREAS IDENTIFIED TO BE RESTORED TO GRASS IN THE PROJECT PLANS.

ALL COSTS TO FURNISH AND PLACE THE CONTRACTOR FURNISHED TOPSOIL WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "CONTRACTOR FURNISHED TOPSOIL".

MYCORRHIZAL INOCULUM

MYCORRHIZAL INOCULUM WILL CONSIST OF MYCORRHIZAL FUNGI SPORES AND MYCORRHIZAL FUNGI-INFECTED ROOT FRAGMENTS IN A SOLID CARRIER. THE CARRIER MAY

INCLUDE ORGANIC MATERIALS, CALCINATED CLAY, OR OTHER MATERIALS CONSISTENT WITH APPLICATION AND GOOD PLANT GROWTH. THE SUPPLIER WILL PROVIDE CERTIFICATION OF THE FUNGAL SPECIES CLAIMED AND THE LIVE PROPAGULE COUNT. THE INOCULUM WILL INCLUDE A MINIMUM 25% THE FUNGAL SPECIES RHIZOPHAGUS INTRARADICES. THE REMAINING 75% MAY INCLUDE OTHER ENDOMYCORRHIZAL FUNGAL SPECIES.

ALL SEED WILL BE INOCULATED BY THE SEED SUPPLIER WITH A MINIMUM OF 20,000 LIVE PROPAGULES OF MYCORRHIZAL FUNGI PER 1,000 SQUARE FEET. ALL COSTS OF INOCULATING THE SEED WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER POUND FOR THE CORRESPONDING PERMANENT SEED MIXTURE.

FERTILIZING

THE CONTRACTOR WILL APPLY AN ALL-NATURAL SLOW RELEASE FERTILIZER PRIOR TO SEEDING OR PLACING SOD. THE ALL-NATURAL FERTILIZER WILL HAVE A MINIMUM GUARANTEED ANALYSIS OF 4-4-4 AND BE USDA CERTIFIED BIOBASED. IT SHOULD PROVIDE A MINIMUM OF 4% (N) NITROGEN WITH A MINIMUM WATER INSOLUBLE NITROGEN (WIN) FRACTION OF 2.07%, A MINIMUM OF 4% (P2O5) AVAILABLE PHOSPHATE, A MINIMUM OF 4% (K2O) SOLUBLE POTASH, AND A MAXIMUM CARBON TO NITROGEN RATIO (C:N RATIO) OF 5:1. THE ALL-NATURAL FERTILIZER WILL BE FREE OF WEED-SEED AND PATHOGENS ACCOMPLISHED THROUGH THERMOPHILIC COMPOSTING, AND NOT MECHANICAL OR CHEMICAL STERILIZATION, TO ASSURE PRESENCE OF BENEFICIAL SOIL MICROBIOLOGY. THE FERTILIZER WILL HAVE A NEAR NEUTRAL PH, A LOW SALT INDEX, A LOW BIOLOGICAL OXYGEN DEMAND, CONTAIN ORGANIC HUMIC AND FULVIC ACIDS, AND HAVE HIGH AEROBIC ORGANISM COUNTS. THE FERTILIZER WILL ALSO BE STABLE, FREE OF BAD ODORS, AND BE UNATTRACTIVE AS A FOOD SOURCE FOR ANIMALS. IT SHOULD ALSO BE IN A GRANULAR FORM THAT IS EASILY SPREAD.

THE FERTILIZER WILL BE APPLIED AT A RATE OF 34 POUNDS PER 1,000 SQUARE FT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD OF APPLICATION.

A COMMERCIAL FERTILIZER WITH A MINIMUM GUARANTEED ANALYSIS OF 13-13-13, 18-46-0, 11-52-0, OR AN APPROVED ALTERNATE FERTILIZER SOLD FOR USE AS A LAWN STARTER FERTILIZER WILL BE APPLIED TO ALL AREAS DESIGNATED FOR PERMANENT SEEDING.

PERMANENT SEEDING

TYPE D PERMANENT SEED MIXTURE WILL CONSIST OF THE FOLLOWING:

GRASS SPECIES	VARIETY	PURE LIVE SEED (PLS) (POUNDS/1000 SQFT)
KENTUCKY BLUEGRASS	AVALANCHE, APPALACHIAN, WILDHORSE, BLUE BONNET, ACTION	1.4
PERENNIAL RYEGRASS	TURF TYPE VARIETIES	1.4
CREEPING RED FESCUE	EPIC, BOREAL, CHANTILLY	1.4
CHEWINGS FESCUE	AMBROSE, K2, ZODIAC, SHADOW III	1.4
ALKALI GRASS	FULTS, FULTS II, QUILL, SALTY	1.4
TOTAL:		7

FIBER MULCHING

FIBER MULCH WILL BE APPLIED IN A SEPARATE OPERATION FOLLOWING PERMANENT SEEDING.

AN ADDITIONAL 2% BY WEIGHT OF TACKIFIER WILL BE ADDED TO THE FIBER MULCH PRODUCT SELECTED FROM THE APPROVED PRODUCT LIST. IF THE PRODUCT SELECTED HAS GUAR GUM TACKIFIER INCLUDED, THEN THE ADDITIONAL 2% OF TACKIFIER WILL BE GUAR GUM. IF THE PRODUCT SELECTED HAS SYNTHETIC TACKIFIER INCLUDED, THEN THE ADDITIONAL 2% OF TACKIFIER WILL BE SYNTHETIC.

FIBER MULCH WILL BE APPLIED AT THE RATE OF 3,000 POUNDS PER ACRE.

THE CONTRACTOR WILL ALLOW THE FIBER MULCH TO CURE A MINIMUM OF 18 HOURS PRIOR TO WATERING OR ANY STORM EVENT TO ENSURE PROPER COHESION BETWEEN THE SOIL AND FIBER PARTICLES.

ALL COSTS FOR THE ADDITIONAL TACKIFIER ADDED TO THE FIBER MULCH INCLUDING LABOR, EQUIPMENT, AND MATERIALS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER POUND OR TON FOR "FIBER MULCHING".

THE FIBER MULCH PROVIDED WILL BE FROM THE APPROVED PRODUCT LIST. THE APPROVED PRODUCT LIST FOR FIBER MULCH MAY BE VIEWED AT THE FOLLOWING INTERNET SITE:

[HTTPS://APPS.SD.GOV/HC60APPROVEDPRODUCTS/MAIN.ASPX](https://apps.sd.gov/hc60approvedproducts/main.aspx)

SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

THIS TYPE OF SEDIMENT CONTROL DEVICE SHOULD BE USED WHERE THERE IS PAVEMENT IN THE VICINITY OF THE DROP INLETS AND STORM WATER OR SEDIMENT COULD POSSIBLY ENTER THE FRAME AND GRATE. SEDIMENT CONTROL AT INLET WITH FRAME AND GRATE WILL BE INSTALLED PRIOR TO WORKING IN THE VICINITY OF THE DROP INLETS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING THE SEDIMENT CONTROL DEVICES FOR THE DURATION OF THE PROJECT FOR WHICH SEDIMENT CONTROL MEASURES ARE REQUIRED. MAINTENANCE WILL BE SCHEDULED TO PREVENT STORM WATER FROM BACKING UP INTO THE DRIVING LANE.

"SEDIMENT CONTROL AT INLET WITH FRAME AND GRATE" WILL BE PAID FOR ONE TIME AT EACH LOCATION, REGARDLESS OF THE NUMBER OF TIMES THE SEDIMENT CONTROL DEVICES ARE INSTALLED, INSPECTED, CLEANED, REMOVED, REPAIRED, OR REPLACED. ALL COSTS ASSOCIATED WITH FURNISHING, INSTALLING, INSPECTING, MAINTAINING, CLEANING, SEDIMENT REMOVAL, AND REPAIRING SEDIMENT CONTROL AT INLET WITH FRAME AND GRATE WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER EACH FOR "SEDIMENT CONTROL AT INLET WITH FRAME AND GRATE". THE DEVICE WILL BE INSTALLED IN REINFORCED CONCRETE DROP INLETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SEDIMENT COLLECTION DEVICES WILL BE:

A SEDIMENT CONTROL DEVICE AS SHOWN ON STANDARD PLATE 734.10. FILTER FABRIC USED FOR CONSTRUCTING THE SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES WILL BE THE SAME TYPE OF FABRIC THAT IS USED IN HIGH FLOW SILT FENCE FROM THE APPROVED PRODUCT LIST. THE APPROVED PRODUCT LIST MAY BE VIEWED AT THE FOLLOWING INTERNET SITE: [HTTPS://APPS.SD.GOV/HC60APPROVEDPRODUCTS/MAIN.ASPX](https://apps.sd.gov/hc60approvedproducts/main.aspx)

SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

THE SEDIMENT CONTROL DEVICE AT TYPE S INLETS PROVIDED WILL BE FROM THE APPROVED PRODUCT LIST. THE APPROVED PRODUCT LIST MAY BE VIEWED AT THE FOLLOWING INTERNET SITE: [HTTPS://APPS.SD.GOV/HC60APPROVEDPRODUCTS/MAIN.ASPX](https://apps.sd.gov/hc60approvedproducts/main.aspx)

STREET SWEEPING

VEHICLE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE WILL BE MINIMIZED. STREET SWEEPING WILL BE USED IF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET.

THE CONTRACTOR WILL USE A PICKUP BROOM HAVING INTEGRAL SELF-CONTAINED STORAGE TO CLEAN THE ROADWAY. THE PICKUP BROOM USED WILL BE A MINIMUM OF 6 FEET WIDE AND HAVE WORKING GUTTER BROOMS.

AT A MINIMUM, SWEEPING WILL BE REQUIRED:

- PRIOR TO OPENING ANY SEGMENT OR ROADWAY TO TRAFFIC
- FOLLOWING PAVEMENT GROOVING OPERATIONS AND PRIOR TO THE APPLICATION OF THE PAVEMENT MARKING TAPE.
- WHEN SAWING OPERATIONS ARE UNDERWAY IN THE INSIDE DRIVING LANES THE OUTSIDE DRIVING LANES AND GUTTER MAY NEED TO BE SWEEPED TO CONTROL DUST.

ALL COSTS FOR CLEANING THE ROADWAY WITH A PICKUP BROOM WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER HOUR FOR "SWEEPING".



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PTAPR(57), CA 024A, C462135-05	8	112

CONSTRUCTION ENTRANCE

THE CONTRACTOR WILL INSTALL A CONSTRUCTION ENTRANCE AT LOCATIONS WHERE THERE IS A POTENTIAL FOR MUD TRACKING AND SEDIMENT FLOW FROM THE CONSTRUCTION SITE AND WORK AREA ONTO A PAVED PUBLIC ROADWAY.

IT IS THE CONTRACTOR'S OPTION TO USE THE SDDOT CONSTRUCTION ENTRANCE (SEE SDDOT CONSTRUCTION ENTRANCE NOTES AND DETAILS), A PRODUCT FROM THE LIST PROVIDED IN THESE NOTES, OR OTHER PRODUCTS OR PROCESSES AS APPROVED BY THE ENGINEER DURING CONSTRUCTION.

IF THE CONTRACTOR ELECTS TO USE ONE OF THE PRODUCTS LISTED IN THE TABLE, THEN THE CONTRACTOR WILL INSTALL THE CONSTRUCTION ENTRANCE PRODUCT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL MAINTAIN THE CONSTRUCTION ENTRANCE SUCH THAT MUD TRACKING AND SEDIMENT FLOW WILL NOT ENTER THE ROADWAY OR ADJACENT DRAINAGE AREAS. THE CONSTRUCTION ENTRANCE WILL BE ROUTINELY INSPECTED, AND THE CONTRACTOR WILL REPAIR OR REPLACE MATERIAL AS DEEMED NECESSARY BY THE ENGINEER.

ALL COSTS FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVAL OF THE CONSTRUCTION ENTRANCE INCLUDING EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "CONSTRUCTION ENTRANCE".

CONCRETE WASHOUT

A CONCRETE WASHOUT WILL BE INSTALLED ON THE PROJECT SITE AT A LOCATION APPROVED BY THE ENGINEER IF CONCRETE TRUCKS DELIVER CONCRETE TO THE SITE. NO WASHOUT AREA IS NECESSARY IF ALL CONCRETE TRUCKS ARE GOING TO WASH OUT AT APPROVED SITE CONSTRUCTED BY THE CONCRETE SUPPLIER.

THE CONCRETE WASHOUT PROVIDED WILL BE FROM THE APPROVED PRODUCTS LIST. THE APPROVED PRODUCT LIST MAY BE VIEWED AT THE FOLLOWING INTERNET SITE:

[HTTPS://APPS.SD.GOV/HC60APPROVEDPRODUCTS/MAIN.ASPX](https://apps.sd.gov/hc60approvedproducts/main.aspx)

REMOVALS

REMOVE SIGN FOR RESET AND RESET SIGN

SIGNS THAT ARE SCHEDULED FOR RESET WILL BE DISMANTLED AND REASSEMBLED TO THE EXTENT NEEDED BY THE CONTRACTOR TO PROPERLY RESET THE SIGN. SIGNS WILL BE HANDLED WITH CARE SO THAT THE EXISTING SIGNS, POSTS, AND BASES ARE NOT DAMAGED DURING THE RELOCATION PROCESS. THE CONTRACTOR WILL REPLACE AND PAY FOR ANY RESET SIGNS DAMAGED IN THEIR CARE. THE CONTRACTOR WILL REMOVE AND DISPOSE OF ANY EXISTING POSTS FOR ALL RESET SIGNS THAT REQUIRE USE OF NEW POSTS AS SHOWN IN THE TABLE OF PERMANENT SIGNING.

ALL COSTS FOR REMOVING, DISMANTLING, AND DISPOSING OF ANY EXISTING POSTS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER EACH FOR "REMOVE SIGN FOR RESET". ALL COSTS FOR RESETTING THE EXISTING SIGNS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER EACH FOR "RESET SIGN". ALL QUANTITIES FOR REMOVE SIGN FOR RESET AND RESET SIGN WILL BE PER ASSEMBLY AT THE CONTRACT UNIT PRICE PER EACH.



GRADING

TABLE OF EXCAVATION QUANTITIES BY BALANCES

Station to Station	*Excavation (CAG 09P2) (CuYd)	*Excavation (TAP 09G6) (CuYd)	*Contaminated Excavation (CAG 09P2) (CuYd)	*Contractor Furnished Borrow Exc. (CAG 09P2) (CuYd)	*Borrow Exc. (CAG 09P2) (CuYd)	**Total Excavation (CuYd)	**Out-of- Balance Exc. (CuYd)	** Waste (CuYd)	** Borrow Haul (CuYdSta)	** Haul (CuYdSta)
4th St (2+58 to 11+68)	1401	213	150	150	750	2664	0	1764	900	2664
4th St (11+68 to 14+83)	261	40				301	0	301		301
Charles North of 4 th St	84					84	0	84		84
Sherman South of 4 th St	178					178	0	178		178
Sherman North of 4 th St	92	28				120	0	120		120
Dakota South of 4 th St	25					25	0	25		25
Dakota North of 4 th St	68					68	0	68		68
Minnesota North of 4 th St	42					42	0	42		42
Totals:	2151	281	150	150	750	3482	0	2582	900	3482

* The quantities for these items are in the Estimate of Quantities under their respective contract items.

** The quantities for these items are for information only.

TABLE OF UNCLASSIFIED EXCAVATION (CAG 09P2)

Excavation	(CuYd)	2151
Contaminated Excavation		150
Topsoil		88
Total:		2301

TABLE OF UNCLASSIFIED EXCAVATION (TAP 09G6)

Excavation	(CuYd)	281
Total:		281



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PTAPR(57), CA 024A, C462135-05	10	112

EXCAVATION AND REMOVAL OF CONTAMINATED SOILS

THE SOUTH DAKOTA DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES (DANR) HAS IDENTIFIED POTENTIAL AREAS ON THE PROJECT THAT MAY CONTAIN PETROLEUM-CONTAMINATED SOILS.

UPON DISCOVERY OF THE SOIL SUSPECTED TO BE CONTAMINATED, THE DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SHOULD BE CONTACTED BY CALLING 605-773-3769. A DANR REPRESENTATIVE WILL THEN FIELD SCREEN THE SOIL TO DETERMINE IF THE SOIL IS CONTAMINATED. TYPICALLY, THE DANR REPRESENTATIVE WILL ARRIVE ON-SITE WITHIN ONE-HALF WORKING DAY OF DISCOVERY.

THE CONTRACTOR MUST REMOVE THE CONTAMINATED SOIL AS DIRECTED BY THE DANR REPRESENTATIVE. CONTAMINATED SOIL MUST BE SEGREGATED AND STORED SEPARATELY FROM CLEAN SOIL TO THE EXTENT PRACTICABLE. CONTAMINATED SOILS REMOVED ARE REQUIRED TO BE STORED ON 6 MILLIMETER OR THICKER POLYETHYLENE SHEETING IF SOILS ARE TO BE LEFT ON-SITE FOR MORE THAN TWO DAYS PRIOR TO DISPOSAL OR AS DIRECTED BY THE DANR REPRESENTATIVE.

CONTRACTOR MUST NOTIFY THE ENGINEER PRIOR TO LOADING AND TRANSPORTATION OF THE CONTAMINATED SOILS. CONTRACTOR MUST HAUL CONTAMINATED SOILS TO A PERMITTED LANDFILL OR LANDFARM CAPABLE OF ACCEPTING THE CONTAMINATED SOILS FOR DISPOSAL. DISPOSAL ON-SITE OR AT A LOCAL RUBBLE SITE IS NOT ACCEPTABLE.

CONTRACTOR MUST SUBMIT TO THE ENGINEER COPIES OF WEIGH TICKETS FROM THE LANDFILL OR OTHER DISPOSAL FACILITY AND PROVIDE COPIES OF MANIFESTS EXECUTED BY TRANSPORTER AND DISPOSAL FACILITY. 120 LB/CUFT WILL BE ASSUMED FOR THE DENSITY OF MATERIAL TO BE HAULED OFF.

UNCLASSIFIED EXCAVATION

EXCAVATE THE EXISTING SUBGRADE TO PROVIDE FOR THE REQUIRED DEPTH OF AGGREGATE BASE COURSE AND ASPHALT SURFACING OR AGGREGATE BASE COURSE AND CONCRETE SURFACING. EARTHWORK MUST BE PERFORMED AS SHOWN ON APPROPRIATE CROSS SECTIONS.

DUE TO THE DIFFICULTY IN MAKING FIELD MEASUREMENTS ON THIS PROJECT, PLANS QUANTITY WILL BE THE BASIS OF PAYMENT FOR THIS ITEM. NO FIELD MEASUREMENTS WILL BE MADE FOR PAYMENT EXCEPT WHEN CHANGES FROM THE PLAN SHOWN CONSTRUCTION LIMITS ARE ORDERED BY THE ENGINEER.

ALL EXCAVATIONS MADE FOR UNDERGROUND UTILITIES IS INCIDENTAL TO THE INSTALLATION OF THAT UTILITY. ALL SPOIL MATERIAL AND COSTS FOR REMOVING IT ARE INCIDENTAL TO PIPE INSTALLATION COSTS.

THE EXCESS SOIL RESULTING FROM PIPE EXCAVATION AND EARTHWORK ACTIVITIES, IF ANY, MUST BE HAULED OFF SITE AND STOCKPILED AT THE SITE IDENTIFIED BY THE OWNER. THE STOCKPILE SITE IS IDENTIFIED IN THE PLANS.

WATER FOR COMPACTION OF SUBGRADE AND EMBANKMENTS MUST BE PROVIDED BY THE CONTRACTOR AND USED TO MAINTAIN SOIL AT OR NEAR OPTIMUM MOISTURE CONTENT TO OBTAIN REQUIRED DENSITY. COMPACTION OF SUBGRADE AND EMBANKMENTS MUST BE GOVERNED BY THE SPECIFIED DENSITY METHOD. COMPACTION OF EMBANKMENT MUST BE NO LESS THAN 95% OF STANDARD PROCTOR DENSITY.

UNCLASSIFIED EXCAVATION - DIGOUTS

THE CONTRACTOR MUST EXCAVATE ISOLATED LOCATIONS OF UNSTABLE GRADE AS DETERMINED BY THE ENGINEER. THE EXCAVATED MATERIAL MUST BE DISPOSED OF BY THE CONTRACTOR. THE BACKFILL MATERIAL MUST BE AGGREGATE BASE COURSE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.

THE ACTUAL FIELD MEASURED QUANTITY OF "UNCLASSIFIED EXCAVATION - DIGOUTS" WILL BE THE BASIS FOR PAYMENT.

BORROW UNCLASSIFIED EXCAVATION

AS DIRECTED BY THE OWNER OR ENGINEER, BORROW UNCLASSIFIED EXCAVATION MAY BE NECESSARY ON THE PROJECT IF IT IS DETERMINED THAT THE NATIVE MATERIAL EXCAVATED FROM THE UTILITY TRENCH OR ROADWAY IS NOT SUITABLE FOR BACKFILL. THE CONTRACTOR

MAY NOT USE ANY OF THIS MATERIAL ON THE PROJECT WITHOUT PRIOR AUTHORIZATION FROM THE OWNER OR ENGINEER. ANY UNAUTHORIZED USE OF THE MATERIAL WILL NOT BE PAID FOR.

THE MATERIAL REMOVED WILL BE AVAILABLE FOR CONTRACTOR'S USE, ROYALTY FREE.

CONTRACTOR FURNISHED BORROW EXCAVATION

AS DIRECTED BY THE OWNER OR ENGINEER, BORROW UNCLASSIFIED EXCAVATION MAY BE NECESSARY ON THE PROJECT IF IT IS DETERMINED THAT THE NATIVE MATERIAL EXCAVATED FROM THE UTILITY TRENCH IS NOT SUITABLE FOR BACKFILL. THE CONTRACTOR MAY NOT USE ANY OF THIS MATERIAL ON THE PROJECT WITHOUT PRIOR AUTHORIZATION FROM THE OWNER OR ENGINEER. ANY UNAUTHORIZED USE OF THE MATERIAL WILL NOT BE PAID FOR.

THE CONTRACTOR WILL PROVIDE A SUITABLE SITE FOR CONTRACTOR FURNISHED BORROW EXCAVATION MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CLEARANCES FOR THE BORROW SITE.

RESTORATION OF THE CONTRACTOR FURNISHED BORROW EXCAVATION SITE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

STRIP AND STOCKPILE TOPSOIL

PRIOR TO PERFORMING EXCAVATION AND EMBANKMENT OPERATIONS WITHIN THE PROJECT LIMITS THE CONTRACTOR MUST SALVAGE ALL AVAILABLE TOPSOIL AND STOCKPILE IN THE LOCATION IDENTIFIED OR AS DETERMINED BY THE OWNER AND ENGINEER.

CEMENT TREATED SUBGRADE

CEMENT TREATED SUBGRADE WILL BE PERFORMED WHERE IDENTIFIED ON THE TYPICAL SECTIONS. THIS WORK WILL INCLUDE CONDITIONING OF THE SUBGRADE, BLENDING OF PORTLAND CEMENT TO A MINIMUM DEPTH OF 12", GRADING AND COMPACTING OF THE SUBGRADE AND WATERING FOR FINAL CURING. FOR BIDDING PURPOSES, 5% CEMENT BY SOIL WEIGHT WAS USED. THE ACTUAL PERCENT OF CEMENT MUST BE DETERMINED BY THE MIX DESIGN WHEN THE SUBGRADE SOIL IS EXPOSED. THE CONTRACTOR MUST NOTIFY THE ENGINEER WHEN THE SUBGRADE IS EXPOSED AND ALLOW THE GEOTECHNICAL ENGINEER 3 WEEKS TO COMPLETE THE MIX DESIGN. THE PERCENT CEMENT MAY BE ADJUSTED BY THE ENGINEER DEPENDING ON THE SOIL CONDITIONS.

SCARIFY AND RECOMPACT SUBGRADE

THE DEPTH OF SCARIFICATION OF THE SUBGRADE MUST BE NO LESS THAN 10 INCHES. THE SUBGRADE SOIL MUST BE LOOSENED AND MANIPULATED IN SUCH A WAY AS TO ALLOW THE SUBGRADE MATERIAL TO ACHIEVE OPTIMUM MOISTURE CONTENT. AFTER SCARIFICATION, THE CONTRACTOR MUST ALLOW SUFFICIENT TIME FOR THE SUBGRADE MATERIAL TO ACHIEVE OPTIMUM MOISTURE CONTENT PRIOR TO RECOMPACTING THE SUBGRADE. ALLOWABLE VARIANCE FROM OPTIMUM MOISTURE CONTENT MUST BE PLUS 2% OR MINUS 4%. THE SUBGRADE MUST BE RECOMPACTED TO NO LESS THAN 95% OF STANDARD PROCTOR DENSITY. AFTER RECOMPACTION OF THE SUBGRADE, THE CONTRACTOR MUST SHAPE THE SUBGRADE TO THE CROSS SLOPES AND ELEVATIONS SPECIFIED IN THE PLANS AND ADD OR REMOVE MATERIAL AS NECESSARY. THIS WORK MUST BE CONSIDERED INCIDENTAL TO THE "UNCLASSIFIED EXCAVATION" BID ITEM.

NO ADDITIONAL PAYMENT WILL BE MADE FOR SCARIFYING AND RECOMPACTING. ANY ADDITIONAL WORK TO RESCARIFY AND RECOMPACT THE SUBGRADE DUE TO THE CONTRACTOR NOT ALLOWING ENOUGH TIME FOR DRYING, OR NOT WORKING THE MATERIAL SUFFICIENTLY TO ACHIEVE OPTIMUM MOISTURE CONTENT, WILL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SUBGRADE IN ACCEPTABLE CONDITION AFTER THE SCARIFICATION AND RECOMPACTION PROCESS IS COMPLETE. ANY ADDITIONAL WORK REQUIRED TO MAINTAIN THE SUBGRADE AFTER THE SCARIFICATION AND RECOMPACTION PROCESS MUST BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

IF SUBGRADE STABILIZATION IS NOT NECESSARY, THE ENGINEER MAY REMOVE THE SCARIFY AND RECOMPACT REQUIREMENT FOR THOSE AREAS.

PROOF ROLL

THE ENGINEER MUST GRADE CHECK AND OBSERVE A PROOF ROLL OF THE SUBGRADE PRIOR

TO ANY INSTALLATION OF GEOTEXTILE FABRIC OR BASE COURSE. THE ENGINEER MUST GRADE CHECK AND OBSERVE A PROOF ROLL OF THE BASE COURSE PRIOR TO ANY INSTALLATION OF SURFACING INCLUDING BUT NOT LIMITED TO SIDEWALK, CURB AND GUTTER, CONCRETE PAVEMENT AND ASPHALT.

GEOTEXTILE FABRIC FOR SUBGRADE STABILIZATION

GEOTEXTILE FABRIC MUST BE INSTALLED WHERE SHOWN ON THE TYPICAL SECTIONS OR AS DIRECTED BY THE ENGINEER, IF SUBGRADE STABILIZATION IS REQUIRED.

THE CONTRACTOR MUST NOT DRIVE EQUIPMENT DIRECTLY ON TOP OF THE GEOTEXTILE. SHOULD THE GEOTEXTILE BE TORN OR PUNCTURED, THE DAMAGED AREA MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. THE REPAIR MUST CONSIST OF A PATCH OF THE SAME TYPE OF GEOTEXTILE A MINIMUM OF THREE FEET FROM THE EDGE OF ANY PART OF THE DAMAGED AREA.

SANITARY SEWER

MANHOLE CONSTRUCTION PLATE MARKER

MANHOLE CONSTRUCTION PLATE MARKERS MUST BE INSTALLED ON EXISTING MANHOLES IMMEDIATELY AFTER CONSTRUCTION SURFACING REMOVALS HAVE BEEN COMPLETED AND ON NEW MANHOLES IMMEDIATELY AFTER INSTALLATION. THE CONTRACTOR MUST ENSURE THAT ALL MANHOLES ARE SECURED, PROTECTED, AND WATERTIGHT AT THE END OF EACH WORKDAY. UNDER NO CIRCUMSTANCES MUST AN UNCOMPLETED OR COMPLETED MANHOLE BE LEFT UNCOVERED, UNPROTECTED, OR NOT WATERTIGHT OVERNIGHT.

MANHOLE CONSTRUCTION PLATE MARKERS WILL BE INCIDENTAL TO THE BID ITEM FOR "CLEARING".

WATER

WATER MAIN AND APPURTENANCES

ALL VALVE OPERATION WILL BE DONE BY THE CITY OF COLTON WATER DEPARTMENT. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TUBE MATERIAL TO PROTECT THE PIPE FROM ANY FUTURE CORROSION. THE POLY MATERIAL MUST BE INSTALLED PER ANSI A21.5 (AWWA C105).

ALL WATER DISTRIBUTION MATERIALS MUST MEET NSF / ANSI STANDARD 61 - DRINKING WATER SYSTEM COMPONENTS, HEALTH EFFECTS, NSF/ANSI 61, AND NSF/ANSI 372.

BEDDING MATERIAL MUST BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE WATER PIPE. NO SEPARATE MEASUREMENT OR PAYMENT MUST BE MADE FOR BEDDING MATERIAL.

IT IS ANTICIPATED THAT ADJUSTMENTS OF THE WATERMAIN WILL BE NECESSARY TO AVOID CONFLICTS WITH OTHER UTILITIES. NO SEPARATE MEASUREMENT OR PAYMENT MUST BE MADE FOR ADJUSTMENT OF WATERMANS OR SERVICE LINES. THE MINIMUM COVER REQUIRED OVER THE WATERMAIN MUST BE 6 FEET.

TRACER WIRE MUST BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE WATER PIPE. NO SEPARATE MEASUREMENT OR PAYMENT MUST BE MADE FOR TRACER WIRE.

CONTRACTORS LICENSE. THE CONTRACTOR MUST OBTAIN A "SOUTH DAKOTA STATE SEWER AND WATER PLUMBING CONTRACTOR'S LICENSE" PRIOR TO COMMENCING CONSTRUCTION.

WATER MAIN PARALLELING OR CROSSING SEWERS

INSTALLATION OF WATER MAINS PARALLEL TO SANITARY OR STORM SEWER LINES MUST BE COMPLETED IN A MANNER SUCH THAT THE WATER MAINS MUST BE LAID AT LEAST 10 FEET HORIZONTAL DISTANCE FROM ANY EXISTING OR PROPOSED SANITARY SEWER, STORM SEWER, OR SEWER MANHOLE. WHERE WATER MAINS CROSS ABOVE STORM SEWERS OR SANITARY SEWERS, THERE MUST 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.



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PTAPR(57), CA 024A, C462135-05	11	112

WATER MAIN PARALLELING OR CROSSING SEWERS, CONTINUED

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 CAST IRON FOR AT LEAST 10 FEET EACH SIDE OF THE CROSSING. IF PVC OR CAST IRON IS USED AS ENCASEMENT MATERIAL, THE ENDS MUST 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 MUST BE ENCASED IN PVC OR CAST IRON FOR THE ENTIRE DISTANCE THAT THE SEWER IS TOO CLOSE TO THE WATER MAIN. IF PVC OR CAST IRON IS USED AS ENCASEMENT MATERIAL, THE ENDS MUST BE ADEQUATELY SEALED WITH A RUBBER BOOT.

TRENCH STABILIZATION MATERIAL

AS DIRECTED BY THE OWNER OR ENGINEER, TRENCH STABILIZATION MATERIAL MAY BE NECESSARY ON THE PROJECT TO FURTHER STABILIZE THE TRENCH FOUNDATION PRIOR TO INSTALLATION OF ALL TYPES AND CLASSES OF PIPE ON THE PROJECT. THE CONTRACTOR MAY NOT USE ANY OF THIS MATERIAL ON THE PROJECT WITHOUT PRIOR AUTHORIZATION FROM THE OWNER OR ENGINEER. ANY UNAUTHORIZED USE OF THE MATERIAL WILL NOT BE PAID FOR.

UTILITY TRENCH COMPACTION TESTING

ALL UTILITY TRENCH COMPACTION TESTING MUST BE DONE BY THE CONTRACTOR'S TESTING AGENCY. THE OWNER MUST PAY FOR ALL PASSING COMPACTION TESTS. THE OWNER WILL NOT PAY FOR ANY RETESTING OF COMPACTION TESTS WHICH HAVE FAILED PER THE SPECIFICATIONS.

CUT AND TIE TO EXISTING WATER MAIN

THE CONTRACTOR MUST CUT INTO AN EXISTING WATER MAIN, AT THE LOCATIONS SHOWN ON THE DRAWINGS, PREPARE THE END OF THE EXISTING WATER MAIN, AND COMPLETE THE NEW WATER MAIN CONNECTION.

WATER SERVICE TAPS (2" OR SMALLER)

WATER SERVICE CONNECTIONS MUST BE MADE USING COMPRESSION TYPE COUPLINGS. NO SPLICES WILL BE ALLOWED BETWEEN THE CONNECTION TO THE MAIN AND CONNECTION AT THE CURB STOP.

THRUST BLOCKING

THRUST BLOCKING IS REQUIRED AT ALL BENDS, TEES, PLUGS, FIRE HYDRANTS AND CASES THAT REQUIRE THRUST RESTRAINT ON THE WATER SYSTEM. THRUST BLOCKING ON THE WATER MAIN MUST BE COMPLETED BY EITHER CAST-IN-PLACE OR PRECAST METHODS AND FOLLOW THE REQUIREMENTS OF THE PLAN DETAIL AND NOTES. CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY CONSTRUCTING THRUST BLOCKING TO MEET THE SPECIFIC SITE CONDITIONS. COMPENSATION FOR THRUST BLOCKING MUST BE INCIDENTAL TO THE VARIOUS WATER MAIN BID ITEMS.

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, MUST 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 MUST NOT REACH A STREAM, RIVER OR WATER WAY IF THE CHLORINE RESIDUAL EXCEEDS 0.05 MG/L.

DISCHARGE OF CHLORINATED WATER

THE CONTRACTOR MUST PROVIDE A DECHLORINATION PLAN FOR APPROVAL PRIOR TO THE DISCHARGING OF CHLORINATED WATER FROM THE DISTRIBUTION SYSTEM. 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 MUST REVIEW LOCATIONS OF DISCHARGE HYDRANTS RELATIVE TO OPEN AREAS AND MUST 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 MUST BE PUMPED OR FLUSHED TO THESE BMP'S AND MUST BE STORED AND DISCHARGED THROUGH INFILTRATION. OVERLAND FLOW IS NOT ALLOWED.
- 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

TEMPORARY WATER USAGE WILL BE METERED BY THE CITY. THE CONTRACTOR MUST COORDINATE THE INSTALLATION AND REMOVAL OF A TEMPORARY WATER METER WITH THE CITY OF COLTON. THE CONTRACTOR IS RESPONSIBLE FOR ALL SET, DAILY, AND REMOVAL FEES ASSOCIATED WITH THE TEMPORARY WATER METERS. THE CONTRACTOR IS NOT RESPONSIBLE FOR WATER USE FEES UNLESS IT IS DEEMED THAT AN EXCESSIVE AMOUNT OF WATER IS BEING USED DUE TO THE CONTRACTOR RE-FLUSHING AND/OR RETESTING.

THE CONTRACTOR, WITH THE APPROVAL OF THE CITY, MUST COORDINATE WITH ALL PROPERTY OWNERS WHEN A DISRUPTION IN WATER SERVICE IS EXPECTED. CONTRACTOR WILL BE EXPECTED TO COMPLETE WATER SERVICE RECONNECTIONS TO THE TEMPORARY WATER MAIN 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 MUST BE NSF APPROVED FOR POTABLE WATER USE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONNECTIONS ARE WATERTIGHT 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 MAIN MUST BE A MINIMUM OF 2-INCH DIAMETER UNLESS OTHERWISE SPECIFIED. ALL JOINTS MUST BE RESTRAINED. TEMPORARY WATER MAIN IS REQUIRED TO BE TESTED FOR PRESSURE AND COLIFORM BACTERIA PRIOR TO ANY SERVICE CONNECTIONS. THE TEMPORARY WATER MAIN MUST BE TESTED AT STATIC MAIN PRESSURE. THE TEMPORARY WATER MAIN MUST BE FILLED, DISINFECTED, FLUSHED AND SAMPLED. TWO PASSING CONSECUTIVE COLIFORM BACTERIA TESTS MUST BE TAKEN 24 HOURS APART PRIOR TO THE TEMPORARY WATER MAIN BEING PUT INTO SERVICE.

GRAVEL RAMPS MUST BE CONSTRUCTED OVER THE TEMPORARY WATER PIPING WHERE NECESSARY AND AT ALL DRIVEWAY APPROACHES AND WILL BE PAID FOR SEPARATELY AS

"AGGREGATE BASE COURSE". THE CONTRACTOR MUST BE RESPONSIBLE FOR MAINTAINING SIDEWALK ACCESSIBILITY.

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 MUST BE CONSIDERED INCIDENTAL TO BID ITEM FOR TEMPORARY WATER SERVICE.

THE 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 MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THE PRECONSTRUCTION SUBMITTAL.

STORM DRAINAGE

NO LIFT HOLES IN STORM DRAINAGE PIPE WALL

THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND UTILIZING PROCEDURES AND EQUIPMENT FOR HANDLING AND INSTALLING STORM DRAINAGE PIPE OR CULVERT WITHOUT PENETRATIONS THROUGH THE WALL. THE CONTRACTOR IS ALLOWED TO UTILIZE LIFTING DEVICES WHICH ARE INCORPORATED OR CAST INTO THE PIPE OR CULVERT UPON SHOP DRAWING APPROVAL BY THE ENGINEER.

ADJUSTMENT OF DROP INLETS

UNDER THIS ITEM THE ELEVATIONS OF THE EXISTING CAST IRON FRAME AND GRATE ASSEMBLIES ON THE EXISTING DROP INLETS ARE TO BE FLUSH WITH THE TOP OF THE FINISHED PAVEMENT.

IN PERFORMING THIS WORK, THE CONTRACTOR WILL BREAK DOWN THE DROP INLET WALLS SO NONE OF THE WALL INTERSECTS WITH THE PAVING EQUIPMENT DURING PLACEMENT OF THE PCC PAVEMENT. FOLLOWING THE PAVING THE DROP INLET WALLS WILL BE BUILT UP WITH BRICK AND/OR CLASS M6 CONCRETE AND THE FRAMES SEATED AT THE ELEVATION FOR THE GRATES TO BE FLUSH WITH THE TOP OF THE FINISHED PAVEMENT. EXISTING FRAMES OR GRATES WHICH ARE BROKEN OR CRACKED THROUGH CARELESSNESS OF THE CONTRACTOR'S FORCES WILL BE REPLACED WITH NEW FRAMES AND/OR GRATES AT THE CONTRACTOR'S EXPENSE. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR ADJUST DROP INLET. PAYMENT WILL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

SURFACING

WATER FOR COMPACTION

THE COST OF WATER FOR COMPACTION OF THE GRANULAR MATERIAL WILL BE INCIDENTAL TO THE VARIOUS OTHER CONTRACT ITEMS. A MINIMUM OF 4% MOISTURE WILL BE REQUIRED AT THE TIME OF COMPACTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

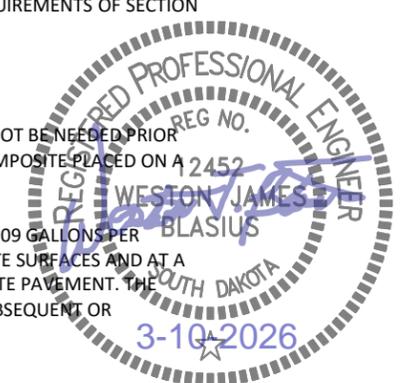
BASE COURSE

THE GRANULAR MATERIAL WILL BE BASE COURSE MEETING THE REQUIREMENTS OF SECTION 882.

ASPHALT CONCRETE COMPOSITE

ASPHALT FOR PRIME AND SS-1H OR CSS-1H ASPHALT FOR TACK WILL NOT BE NEEDED PRIOR TO THE PLACEMENT OF THE BOTTOM LIFT OF ASPHALT CONCRETE COMPOSITE PLACED ON A GRANULAR SURFACE.

SS-1H OR CSS-1H ASPHALT FOR TACK WILL BE APPLIED AT A RATE OF 0.09 GALLONS PER SQUARE YARD ON EXISTING PAVEMENT OR MILLED ASPHALT CONCRETE SURFACES AND AT A RATE OF 0.06 GALLONS PER SQUARE YARD ON NEW ASPHALT CONCRETE PAVEMENT. THE ASPHALT FOR TACK WILL BE APPLIED FOR THE FULL WIDTH OF THE SUBSEQUENT OR



ASPHALT CONCRETE COMPOSITE, CONTINUED

ADDITIONAL OR PROCEEDING LAYERS OF ASPHALT CONCRETE COMPOSITE PLUS ONE-HALF FOOT ADDITIONAL ON THE OUTSIDE SHOULDER OR THE WIDTH OF THE ASPHALT CONCRETE COMPOSITE LIFT IN AREAS WITH CURB AND GUTTER.

THE ASPHALT BINDER USED IN THE MIXTURE CAN BE PG 58H-34 OR PG 58V-34 ASPHALT BINDER.

ASPHALT CONCRETE COMPOSITE MUST CONFORM TO THE SDDOT SPECIFICATIONS FOR CLASS G, ASPHALT CONCRETE. THE TOP LIFT MUST CONFORM TO CLASS G-2 FOR THE MINERAL AGGREGATE SPECIFICATIONS. ALL LOWER LIFT(S) MUST CONFORM TO CLASS G-1 FOR THE MINERAL AGGREGATE SPECIFICATIONS UNLESS OTHERWISE NOTED OR BY DIRECTION OF THE ENGINEER.

ADJUSTMENT OF MANHOLE CASTINGS AND VALVE BOXES

ALL MANHOLE CASTINGS AND VALVE BOXES MUST BE ADJUSTED TO FINAL GRADE BEFORE THE FINAL LIFT OF ASPHALT IS INSTALLED.

EXISTING FRAMES AND/OR LIDS CRACKED OR BROKEN THROUGH THE CARELESSNESS OF THE CONTRACTOR'S FORCES MUST BE REPLACED WITH NEW FRAMES AND/OR LIDS AT THE CONTRACTOR'S EXPENSE.

CONCRETE SURFACING

PORTLAND CEMENT CONCRETE PAVEMENT, SIDEWALK CONCRETE CURB & GUTTER, CONCRETE VALLEY GUTTER, AND CONCRETE FILLET MUST COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR CLASS M6 CONCRETE, UNLESS OTHERWISE SPECIFIED IN THE PLANS.

CONCRETE SIDEWALK

THE CONCRETE SIDEWALK WILL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 651.

DUE TO THE EXTRA DEPTH REQUIRED, THE BASE COURSE MATERIAL REQUIRED, AS PER THE TYPICAL SECTIONS, WILL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER TON FOR BASE COURSE. THE BASE COURSE WILL MEET THE REQUIREMENTS OF SECTION 882. COMPACTION WILL BE TO THE SATISFACTION OF THE ENGINEER.

CONCRETE SIDEWALK SEALANT

ALL CONCRETE SIDEWALK MUST BE SEALED WITH W.R. MEADOWS INTRAGUARD PENETRATING, WATER REPELLENT, SILANE/SILOXANE SEALING COMPOUND OR AN APPROVED EQUAL. EXECUTION FOR APPLICATION MUST BE AT THE MANUFACTURER'S REQUIREMENTS. APPLICATION MUST BE APPLIED BETWEEN 14-28 DAYS AFTER NEW CONCRETE HAS BEEN INSTALLED. SURFACE AND AIR TEMPERATURES MUST BE 40° F AND RISING AND/OR 95° F AND FALLING DURING APPLICATION. THE CONTRACTOR MUST PROTECT THE SEALANT FROM COMING INTO CONTACT WITH THE ADJACENT BUILDINGS, CURB, OR OTHER SURFACES THAT ARE NOT CONCRETE SIDEWALK. THIS IS TO ENSURE NO STREAKING, RUNOFF, OR INCONSISTENCIES APPEAR ON ADJACENT SURFACES.

ACCESSIBLE CURB RAMPS AND LANDING AREAS

ACCESSIBLE CURB RAMPS AND LANDING AREAS MUST BE CONSTRUCTED AS DETAILED ON THE PLANS. THE CONTRACTOR MUST TAKE CARE TO STRICTLY ADHERE TO THE SLOPES INDICATED. NO ALLOWANCE OR TOLERANCE WILL BE GRANTED FOR SLOPES ABOVE THE MAXIMUM ALLOWABLE.

TYPE 1 DETECTABLE WARNINGS

DETECTABLE WARNINGS MUST BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT REGULATIONS.

THE DETECTABLE WARNINGS MUST BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO ENSURE A PROPER, FLUSH INSTALLATION WITHOUT VERTICAL SEPARATION OR VOIDS BELOW THE PANELS. VENT HOLES, IF PRESENT, MUST BE FILLED WITH GROUT AS NECESSARY. ANY DEFICIENCIES IDENTIFIED MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

A CONCRETE THICKNESS EQUAL TO THE ADJACENT CONCRETE SIDEWALK THICKNESS AND 6 INCHES OF BASE COURSE 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.

THE TYPE 1 DETECTABLE WARNINGS CONSIST OF A CAST IRON MATERIAL TYPE OF PANEL AND SHOULD BE INSTALLED INTO WET CONCRETE. SURFACE APPLIED PRODUCTS THAT ARE APPLIED TO CURED CONCRETE ARE NOT ALLOWED. THE DETECTABLE WARNINGS MUST BE A NATURAL PATINA (WEATHERED STEEL) COLOR FOR APPLICATION IN CONCRETE CURB RAMPS.

TYPE 1 DETECTABLE WARNINGS WILL BE INSTALLED ALONG A RADIUS AT THE LOCATIONS AS SHOWN IN THE PLANS. THE RADIUS NECESSARY WILL BE AS SHOWN IN THE PLANS.

Type 1 Detectable Warnings

<u>Product</u>	<u>Manufacturer</u>
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
Advantage Tactile Detectable Warning Cast Iron Plate	Advantage Tactile Systems, Inc. 241 Main Street, Suite 100 Buffalo, NY 14203 800-679-4022 http://advantagetactile.com/
TufTile (wet-set) Cast Iron Replaceable Tile	TufTile 1200 Flex Court Lake Zurich, IL 60047 888-960-8897 http://www.tuftile.com/

SIDEWALK DRAIN

AT THE LOCATIONS IDENTIFIED IN THE PLANS, DRAINAGE FROM ADJACENT BUILDINGS WILL BE CARRIED THROUGH THE SIDEWALK TO THE GUTTER. THE SIDEWALK DRAINS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON STANDARD PLATE 651.50. A GRADE BREAK WILL BE PRESENT AT THE SIDEWALK DRAIN LOCATIONS. DRAIN COVER WILL NEED TO BE CUT AND WELDED TO MATCH GRADE OF THE SIDEWALK. COST WILL BE INCIDENTAL TO "SIDEWALK DRAIN".

PAVEMENT MARKINGS

PAVEMENT MARKING PAINT

THE CONTRACTOR WILL ADVISE THE ENGINEER A MINIMUM OF 3 WEEKS PRIOR TO THE APPLICATION OF THE PERMANENT PAVEMENT MARKING.

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT

REFLECTIVE MEDIA WILL CONSIST OF GLASS BEADS. REFLECTIVE MEDIA WILL REQUIRE A CERTIFICATE OF COMPLIANCE FOR CERTIFICATION FOR EACH SOURCE AND LOT. ACCEPTANCE SAMPLING WILL NOT BE REQUIRED.

RATES OF MATERIALS FOR HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT

SOLID 4" LINE = 27.8 GALS/MILE
DASHED 4" LINE = 7.6 GAL/MILE
GLASS BEADS = 5.3 LBS/GAL.
COMPOSITE REFLECTIVE ELEMENTS = 2.1 LBS/GAL.

ALL COST FOR MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE PAVEMENT MARKINGS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE FOR THE RESPECTIVE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT ITEMS.

RETROREFLECTIVITY FOR PAVEMENT MARKING PAINT

THE DEPARTMENT MAY TAKE RETROREFLECTIVITY READINGS ON THE PAVEMENT MARKING LINES AFTER 2 DAYS AND WITHIN 30 DAYS OF THE LINE APPLICATION USING EITHER A PORTABLE OR MOBILE RETROREFLECTOMETER THAT CONFORMS TO 30-METER GEOMETRY. IF THE DEPARTMENT CHOOSES TO TAKE RETROREFLECTIVITY READINGS, THREE RETROREFLECTIVITY READINGS WILL BE TAKEN ON EACH LINE AT EACH TEST LOCATION. THE THREE READINGS WILL BE AVERAGED AND BECOME THE READING FOR THAT TEST LOCATION.

IF THE DEPARTMENT CHOOSES TO TAKE RETROREFLECTIVITY READINGS, THREE READINGS WILL BE TAKEN ON THE EDGE LINES AND LANE LINES IN THE DIRECTION OF APPLICATION. FOR COMBINATION SOLID YELLOW AND SKIP YELLOW LINES FOR TURN LANES AND FOR CENTERLINE MARKINGS ON TWO-WAY ROADWAYS, THREE READINGS WILL BE TAKEN IN ONE DIRECTION, THE REFLECTOMETER WILL BE TURNED 180 DEGREES AND THREE MORE READINGS WILL BE TAKEN. THE SIX READINGS FOR THE CENTERLINE MARKINGS WILL BE AVERAGED AND BECOME THE TEST READING FOR THAT TEST LOCATION.

IF THE DEPARTMENT CHOOSES TO TAKE READINGS, THE MINIMUM RETROREFLECTIVITY VALUES WILL BE 275 MC/M2/LUX FOR WHITE AND 170 MC/M2/LUX FOR YELLOW.

PAVEMENT MARKING SYMBOL FOR ACCESSIBLE PARKING SPACES

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING WITH BLUE BACKGROUND AND WHITE BORDER, MEETING THE MINIMUM DIMENSIONS SHOWN IN PART 3 OF THE MUTCD WILL BE PLACED IN ACCESSIBLE PARKING SPACES HAVING THE REQUIRED REGULATORY SIGNING. THE BLUE BACKGROUND AND WHITE BORDER SYMBOL WILL BE REQUIRED FOR ALL ACCESSIBLE PARKING SPACES FOR PERSONS WITH DISABILITIES.

TRAFFIC PAINT WILL BE FURNISHED IN WHITE AND BLUE. THE BLUE PAINT WILL MEET THE COLOR SPECIFICATION LIMITS AND LUMINANCE FACTORS LISTED IN THE TABLE BELOW FOR DAYTIME COLOR SPECIFICATION LIMITS AND LUMINANCE FACTORS FOR PAVEMENT MARKING MATERIAL WITH CIE 20 STANDARD OBSERVER AND 45/0 (0/45) GEOMETRY AND CIE STANDARD ILLUMINANT D65 WHEN TESTED IN ACCORDANCE WITH ASTM E1347 OR ASTM E1349.



PAVEMENT MARKING SYMBOL FOR ACCESSIBLE PARKING SPACES, CONTINUED

COLOR	CHROMATICITY COORDINATES (CORNER POINTS)								MIN. LUMINANCE FACTOR (Y%)
	X	Y	X	Y	X	Y	X	Y	
BLUE	0.105	0.1	0.22	0.18	0.2	0.26	0.06	0.22	5

ALL COSTS FOR FURNISHING AND INSTALLING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER EACH FOR "HIGH BUILD PAVEMENT MARKING PAINT, SYMBOL"

PERMANENT SIGNING

GENERAL PERMANENT SIGNING

NEW SIGN INSTALLATIONS WILL BE STAKED IN THE FIELD BY THE CONTRACTOR AND CHECKED BY THE ENGINEER. THE CONTRACTOR WILL GIVE THE ENGINEER A MINIMUM OF ONE WEEK TO CHECK STAKED LOCATIONS PRIOR TO SIGNPOST INSTALLATION. LATERAL OFFSET OF SIGNS WILL BE AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING SOUTH DAKOTA ONE CALL TO LOCATE THE UTILITIES AT THE STAKED SIGN INSTALLATION LOCATIONS.

WHEN SIGNS ARE MOUNTED IN AN ASSEMBLY, THEY WILL BE 1-2 INCHES APART VERTICALLY AND HORIZONTALLY.

THE HEIGHT OF THE POST MUST NOT EXCEED THE MINIMUM HEIGHT NEEDED BY MORE THAN 0.5 FEET. ANY PORTION THAT EXTENDS ABOVE THE SIGN WILL BE CUT OFF. NO SEPARATE PAYMENT WILL BE MADE FOR CUTTING THE POST OR FOR THAT LENGTH CUT OFF.

ALUMINUM U-CHANNEL STIFFENERS WILL BE USED ON ALL SIGNS 36 INCHES OR GREATER IN WIDTH AND WILL CONFORM TO ASTM B221 ALLOY 6063-T6 OR 6061-T6. THE U-CHANNEL WILL BE 2 INCHES IN WIDTH AND FREE OF HOLES. THE U-CHANNEL STIFFENERS WILL ALSO BE USED TO CONNECT VARIOUS SIGNS TOGETHER SO THAT AN ENTIRE SIGN ASSEMBLY CAN BE ERECTED ON A SINGLE INSTALLATION. STIFFENERS MAY BE FASTENED TO SIGNS BY USE OF 1/4-INCH DIAMETER DRIVE RIVETS.

THE CONTRACTOR WILL USE 3/8-INCH DIAMETER RUST PROOF MACHINE SIGN BOLTS, FLAT METAL WASHERS, NEOPRENE WASHERS (AGAINST THE SIGN SHEETING), LOCK WASHERS, AND NUTS TO FASTEN THE SIGN TO THE CHANNEL ALUMINUM AND POSTS. A MINIMUM OF TWO BOLTS WILL EXTEND THROUGH EACH POST.

PRIOR TO ORDERING SIGNS, THE CONTRACTOR WILL VERIFY DIMENSIONS, BACKGROUND, BORDER, AND LEGEND OF THE SIGNS.

PRIOR TO USE, THE CONTRACTOR WILL PROVIDE DOCUMENTATION FOR THE SIGN SUPPORT DEVICES SHOWING THEY MEET THE APPLICABLE NCHRP 350 OR MASH REQUIREMENTS.

NEW PERMANENT SIGNING

ALL SIGNS WILL BE MANUFACTURED IN ACCORDANCE WITH THE SHEETING MANUFACTURER'S RECOMMENDATIONS UTILIZING A MATCHED COMPONENT SYSTEM, INCLUDING INKS, ELECTRONIC CUTTABLE FILMS, AND PROTECTIVE OVERLAY FILMS.

ALL FLAT ALUMINUM SIGNS, NONREMOVABLE COPY HIGH INTENSITY, WILL HAVE SHEETING IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM D4956 TYPE IV. ALL FLAT ALUMINUM SIGNS, NONREMOVABLE COPY SUPER/VERY HIGH INTENSITY WILL HAVE SHEETING IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM D4956 TYPE XI.

ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING THE NEW PERMANENT SIGNS, AND WITH FURNISHING AND INSTALLING STIFFENERS AND HARDWARE WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY"

SQUARE TUBE ANCHOR SLEEVE

THE CONTRACTOR WILL FURNISH AND INSTALL NEW 2.5" X 2.5" X 18", 12 GAUGE SQUARE TUBE ANCHOR SLEEVE OR EQUIVALENT COMPONENTS AS APPROVED BY THE ENGINEER FOR 2.0" X 2.0" PERFORATED TUBE POSTS. A 2.25" X 2.25" X 4', 12 GAUGE PERFORATED TUBE POST WILL BE USED AS THE ANCHOR POST FOR INSTALLATION WITH THE SQUARE TUBE ANCHOR SLEEVE

SIGNPOST INSTALLATION IN CONCRETE

ON CONCRETE SURFACES, A 4" PVC SLEEVE MUST BE CAST INTO THE CONCRETE TO ALLOW FOR SIGN INSTALLATION. AFTER SIGN INSTALLATION THE ANNULAR SPACE BETWEEN THE SLEEVE AND SIGN POST MUST BE FILLED WITH BASE COURSE.

ALL COSTS ASSOCIATED WITH INSTALLATION IN CONCRETE WILL BE INCIDENTAL TO THE SIGN INSTALLATION.

ELECTRICAL AND LIGHTING

REMOVAL

REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND LIGHTING WILL BE PERFORMED BY OTHERS. THE CONTRACTOR MUST COORDINATE REMOVAL OF FACILITIES OR ELECTRICAL PROTECTION NEEDS WITH THE CITY OF COLTON. CONTACT JERRIT PEDERSON AT 605-340-2052

INSTALLATION

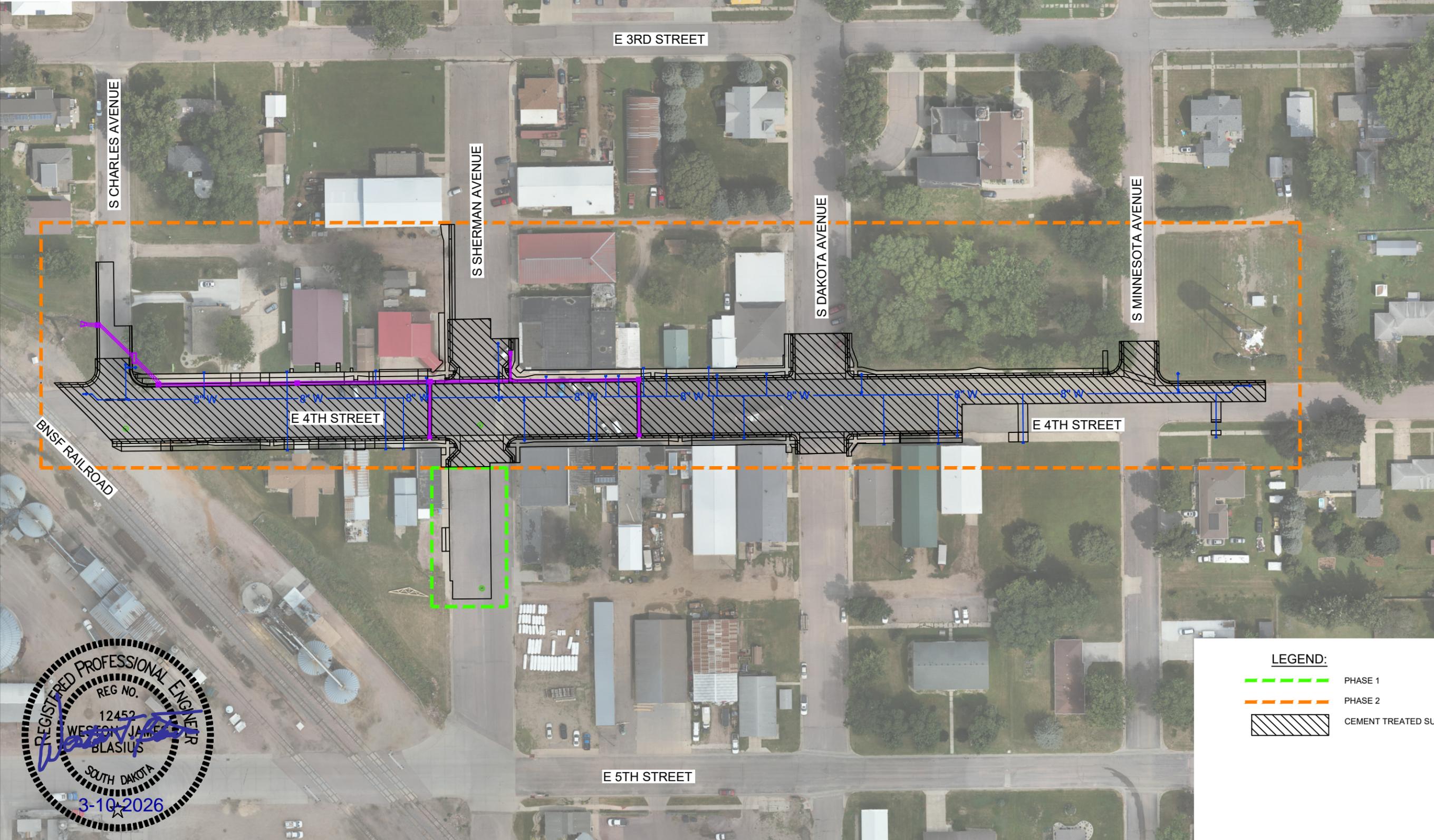
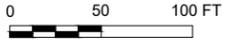
INSTALLATION OF NEW ELECTRICAL FACILITIES INCLUDING CONDUIT, LIGHT FOUNDATIONS, ELECTRICAL CABLE AND STREET LIGHT POLES WILL BE PERFORMED BY OTHERS. THE CONTRACTOR MUST COORDINATE THEIR EFFORTS TO ALLOW FOR THE CITY'S CONTRACTOR TO INSTALL THE NEW ELECTRICAL FACILITIES. CONTACT JERRIT PEDERSON WITH THE CITY OF COLTON AT 605-340-2052.



OVERALL IMPROVEMENTS MAP

BAI JOB # 24327-00	STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 14	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



REGISTERED PROFESSIONAL ENGINEER
REG. NO. 12452
WESLON JAMES BLASIUS
SOUTH DAKOTA
3-10-2026

LEGEND:

	PHASE 1
	PHASE 2
	CEMENT TREATED SUBGRADE

NON-PARTICIPATING 09P2

NON-PARTICIPATING OVERALL IMPROVEMENTS MAP

BAI JOB # 24327-00

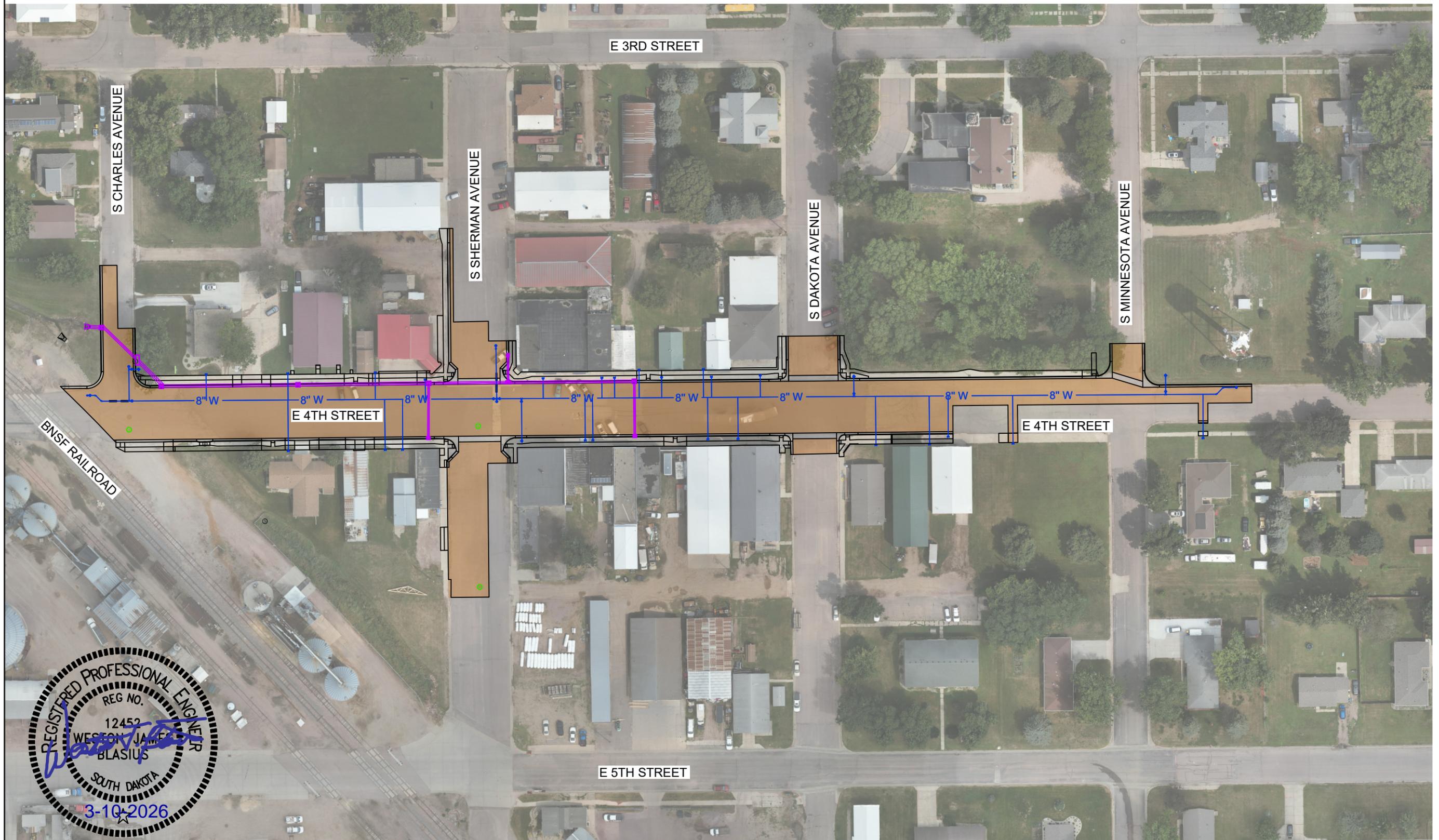
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
15

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



NOTE:
1. ALL SIDEWALK, CURB & GUTTER, VALLEY GUTTER, AND FILLETS ARE PARTICIPATING (09G6) 2. ALL STORM SEWER IMPROVEMENTS ARE PARTICIPATING (09G6) 3. ALL WATER IMPROVEMENTS ARE NON-PARTICIPATING (09P2)

EXISTING UTILITIES MAP

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

16

TOTAL SHEETS

112

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Rev: ---



NOTE:
WATER SERVICE TO T.J'S BAR,
COLTON PLUMBING AND HEATING,
AND LAMER PROPERTIES



TYPICAL GRADING AND SURFACING SECTIONS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT

PTAPR(67), CA 024A, C462135-05

SHEET

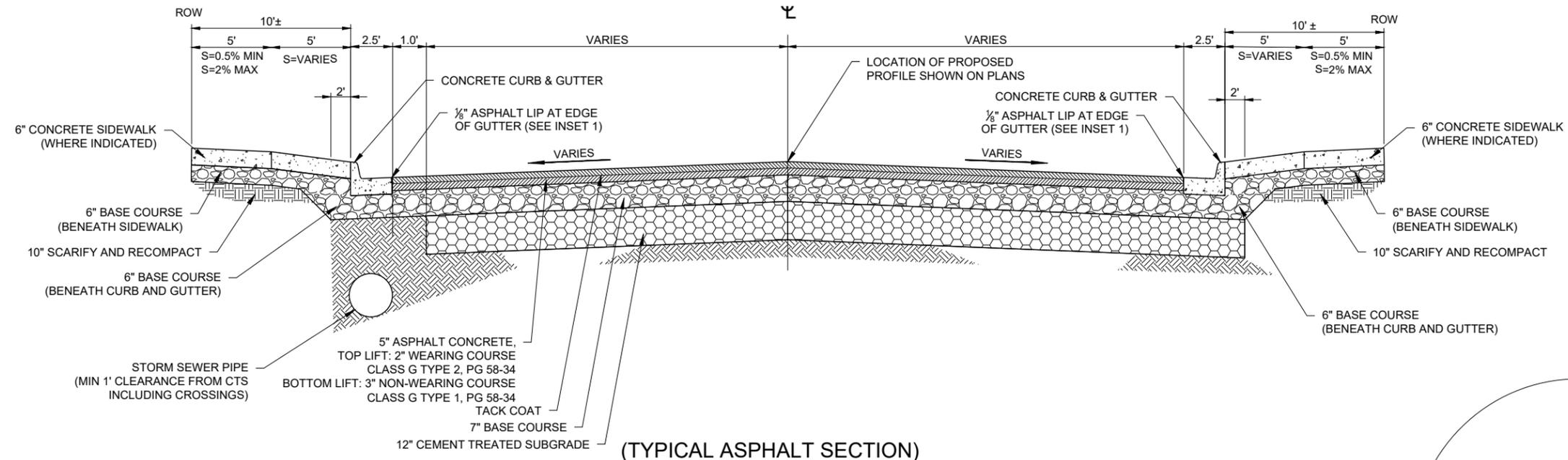
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TOTAL SHEETS

112

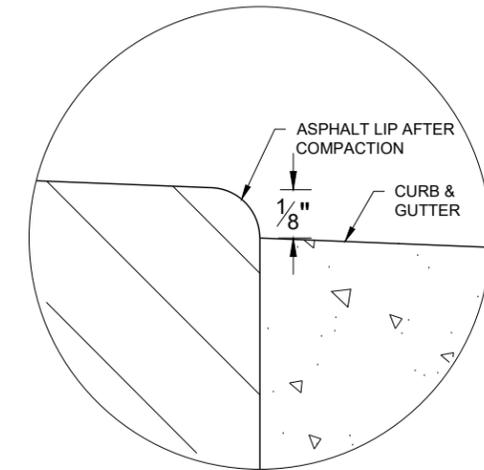
Plotting Date: 03/10/2026

Rev: ---

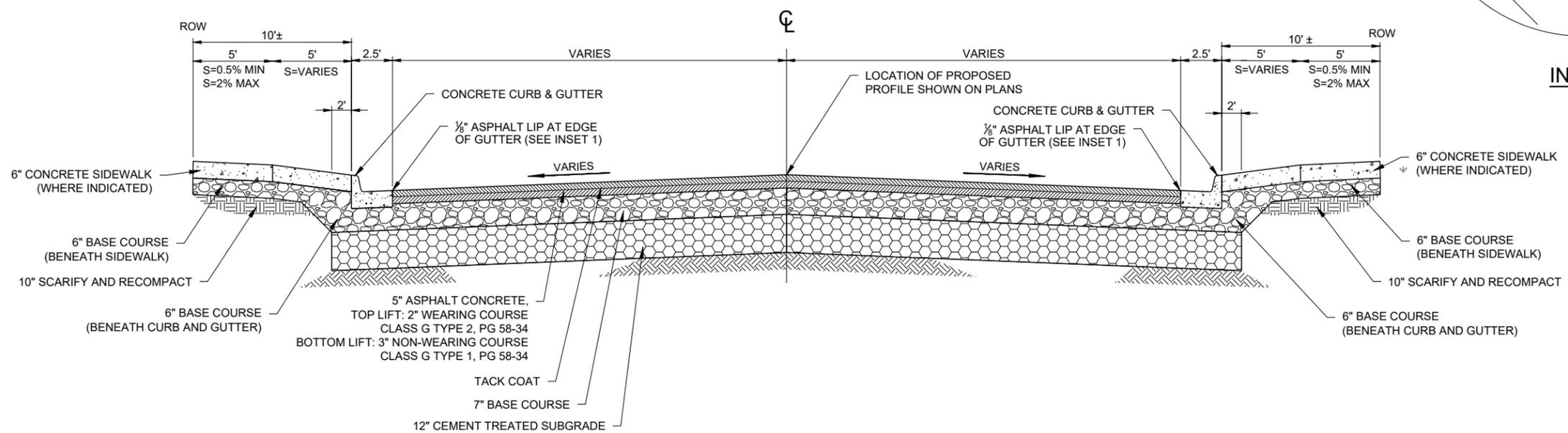


TYPICAL SECTION - URBAN FULL STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE

E 4TH STREET - STA 2+58 TO STA 8+35

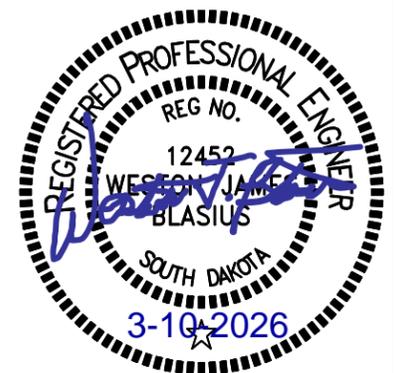


INSET 1



TYPICAL SECTION - URBAN FULL STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE

E 4TH STREET - STA 8+35 TO STA 11+68



TYPICAL GRADING AND SURFACING SECTIONS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT

PTAPR(67), CA 024A, C462135-05

SHEET

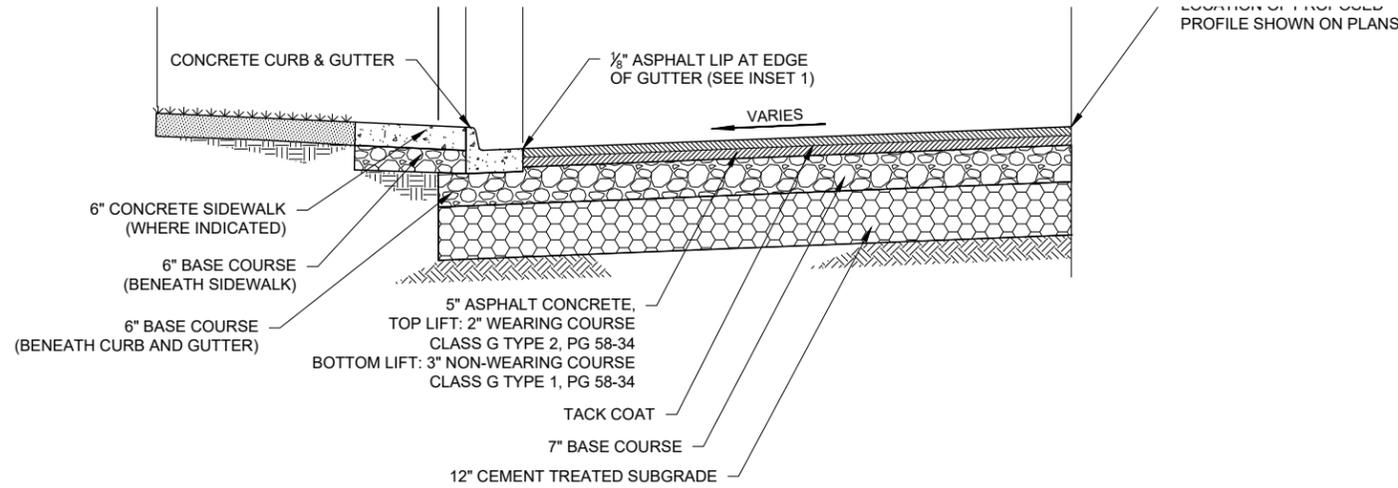
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TOTAL SHEETS

112

Plotting Date: 03/10/2026

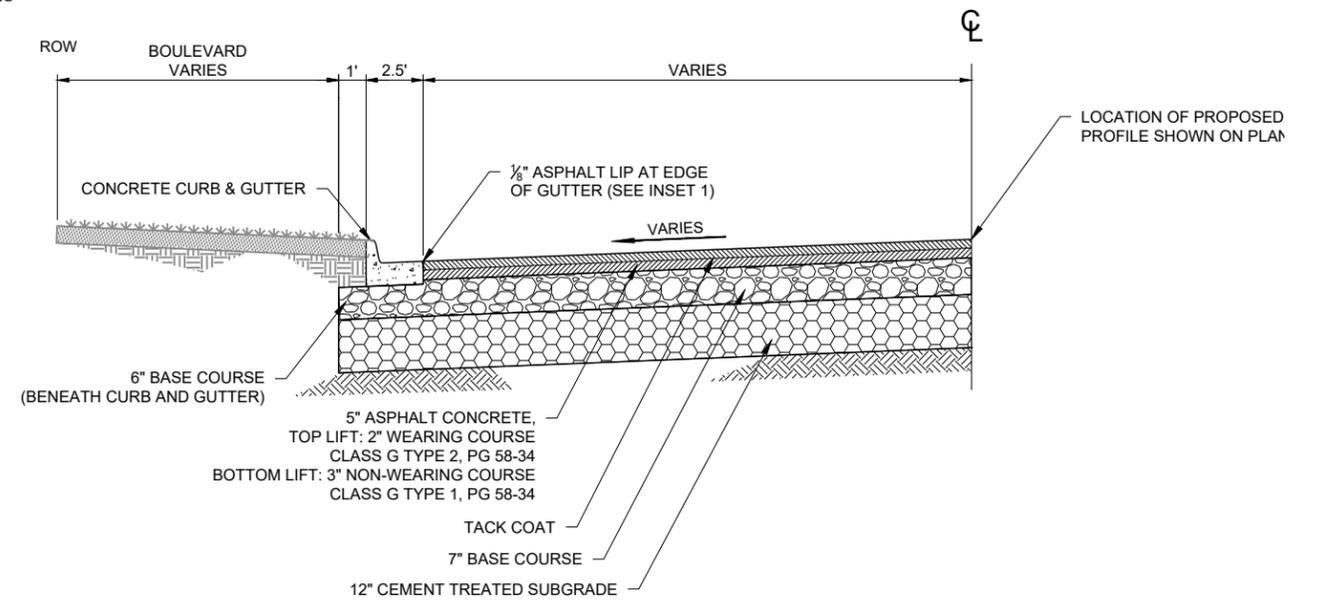
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(TYPICAL ASPHALT SECTION)

TYPICAL SECTION - URBAN HALF STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE

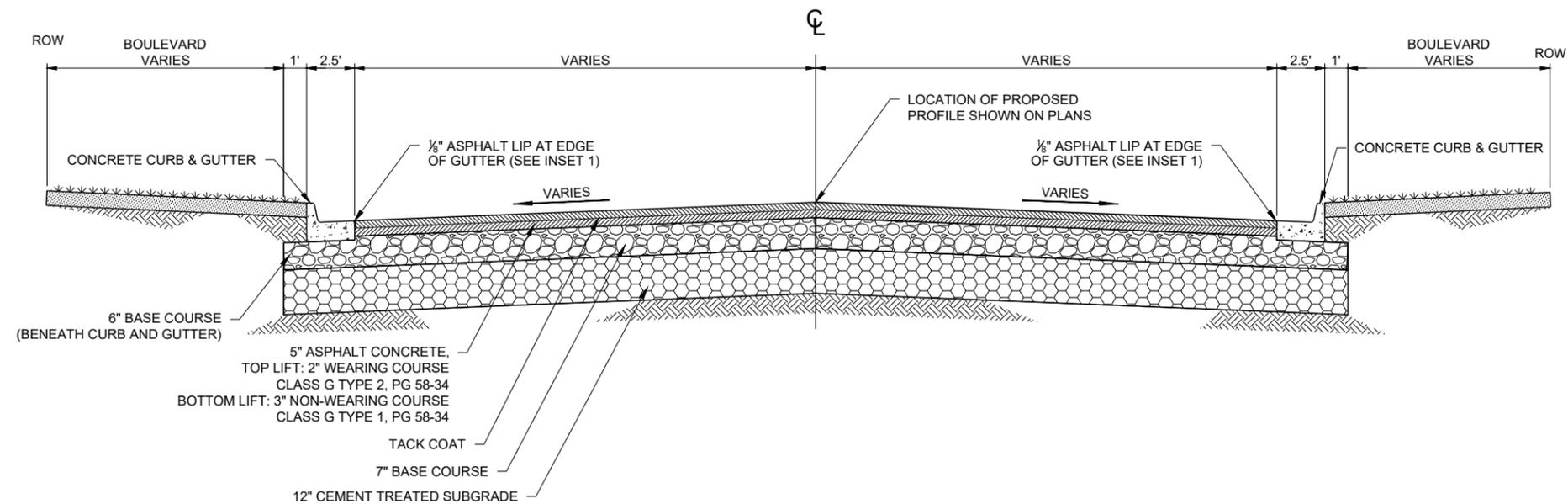
E 4TH STREET - STA 11+68 TO STA 13+19



(TYPICAL ASPHALT SECTION)

TYPICAL SECTION - URBAN HALF STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE

E 4TH STREET - STA 13+19 TO STA 14+83



(TYPICAL ASPHALT SECTION)

TYPICAL SECTION - URBAN FULL STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE

CHARLES AVENUE - STA 1+77 TO STA 2+40

MINNESOTA AVENUE - STA 2+01 TO STA 2+36



TYPICAL GRADING AND SURFACING SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

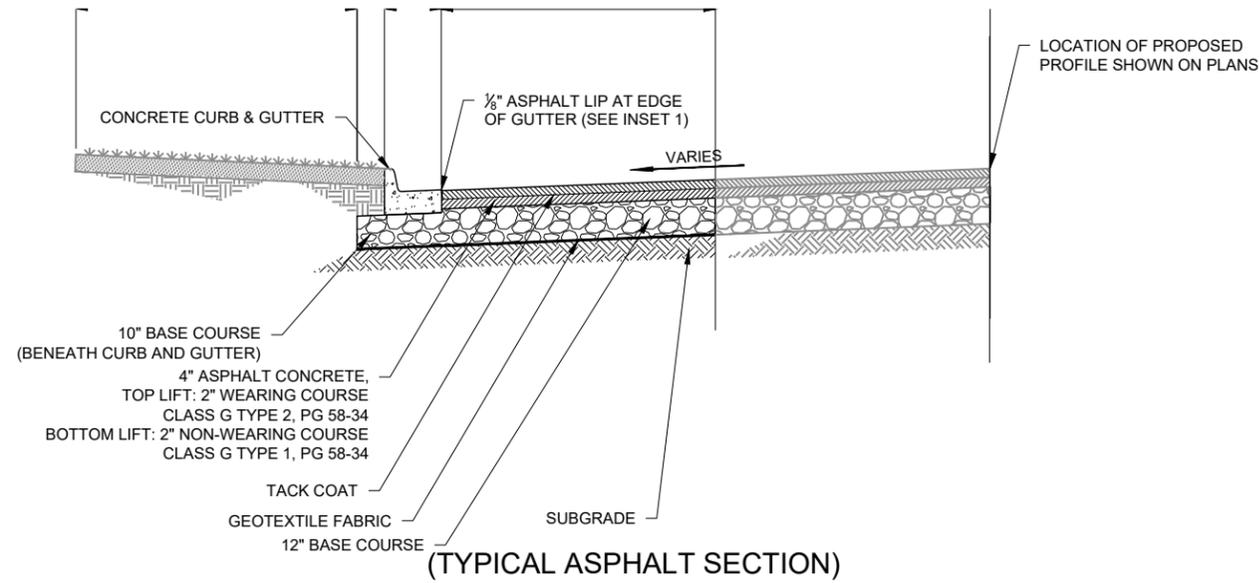
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TOTAL
SHEETS

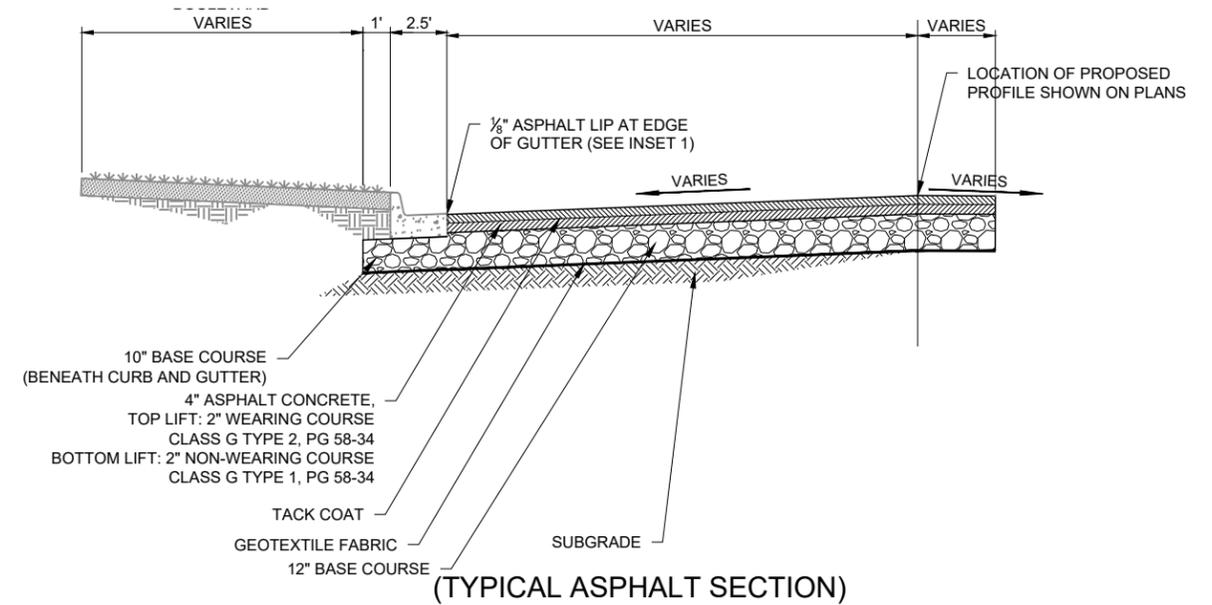
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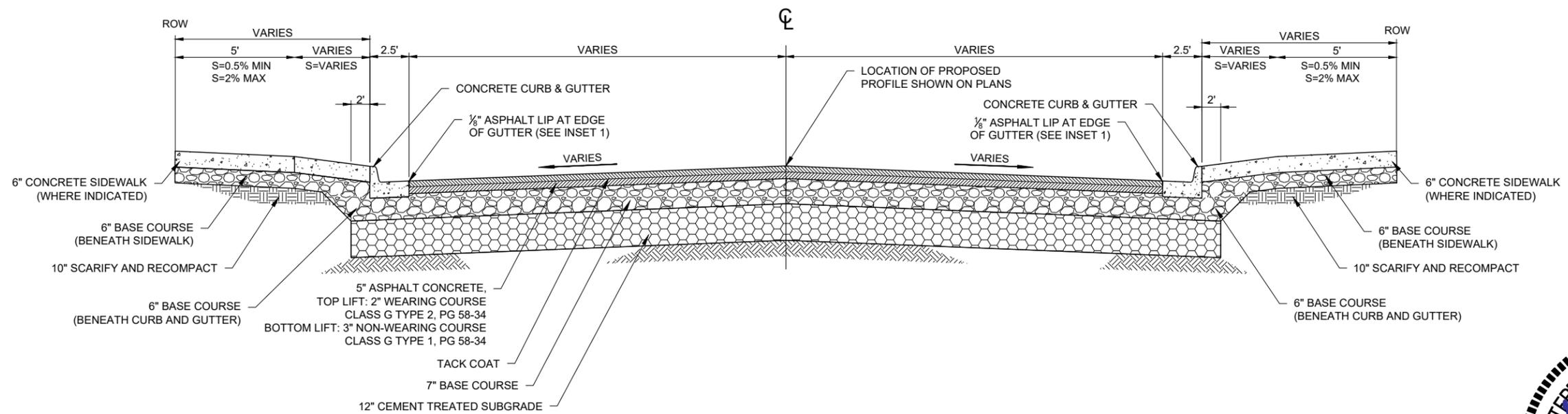
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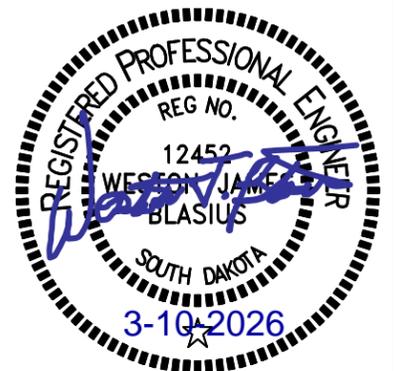
(TYPICAL ASPHALT SECTION)
TYPICAL SECTION - URBAN PARTIAL STREET REPLACEMENT
CHARLES AVENUE - STA 2+40 TO STA 3+06



(TYPICAL ASPHALT SECTION)
TYPICAL SECTION - URBAN PARTIAL STREET REPLACEMENT
SHERMAN AVENUE - STA 2+13 TO STA 3+53



(TYPICAL ASPHALT SECTION)
TYPICAL SECTION - URBAN FULL STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE
SHERMAN AVENUE - STA 3+53 TO STA 3+76 AND STA 4+42 TO STA 4+82
DAKOTA AVENUE - STA 4+73 TO STA 5+15



TYPICAL GRADING AND SURFACING SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET

20

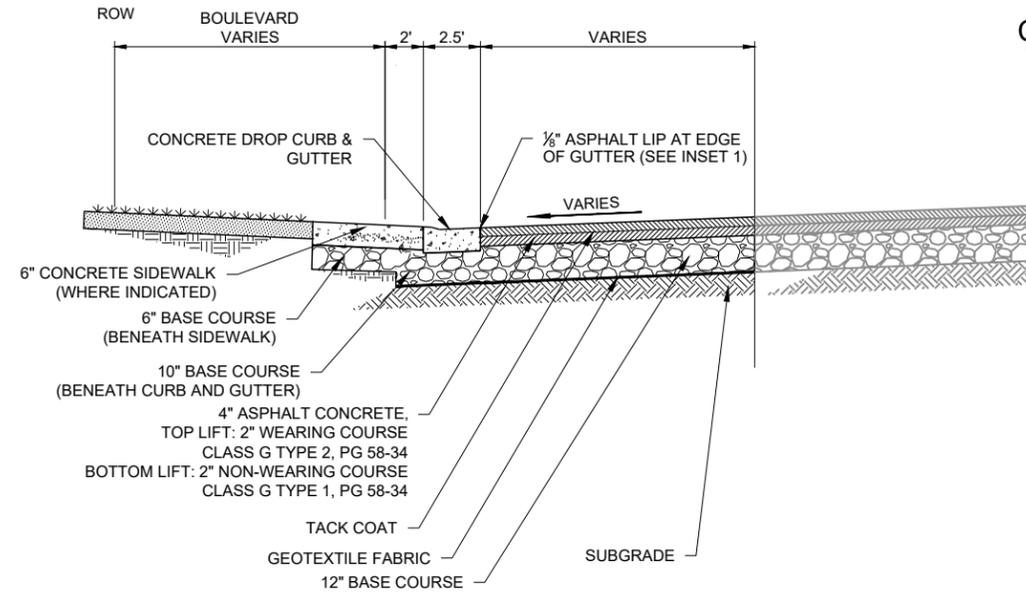
TOTAL
SHEETS

112

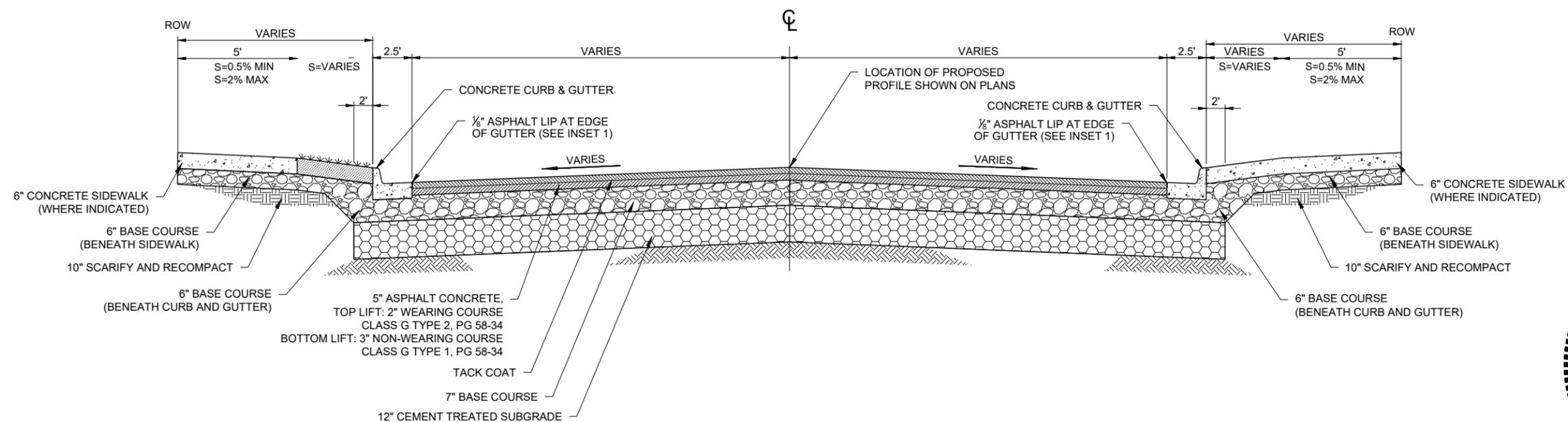
Plotting Date:

03/10/2026

Rev: ---



(TYPICAL ASPHALT SECTION)
TYPICAL SECTION - URBAN PARTIAL STREET REPLACEMENT
SHERMAN AVENUE - STA 4+82 TO STA 6+00



(TYPICAL ASPHALT SECTION)
TYPICAL SECTION - URBAN FULL STREET REPLACEMENT WITH CEMENT TREATED SUBGRADE
DAKOTA AVENUE - STA 3+91 TO STA 4+07



HAUL ROUTE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

21

TOTAL SHEETS

112

Plotting Date: 03/10/2026

Rev: ---

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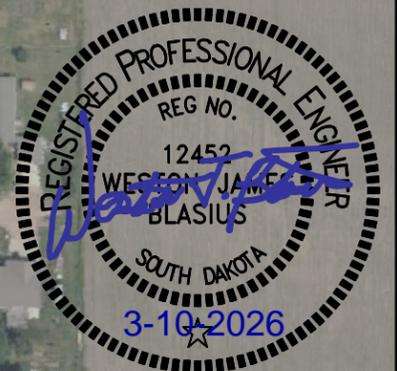
LEGEND

-  LOADED CONSTRUCTION TRAFFIC
-  ONLY EMPTY CONSTRUCTION TRAFFIC



ACCESS ROAD AND HAUL ROUTE NOTES

1. ACCESS ROADS WITHIN THE PROJECT AREA MUST BE KEPT OPEN AND MAINTAINED IN A PASSABLE CONDITION AT ALL TIMES.
2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE GOVERNING AGENCY IF A HAUL ROUTE AGREEMENT IS NECESSARY BEFORE HAULING ON ANY ROADWAYS FROM NON-COMMERCIAL SITES AND FOR CITY, COUNTY AND/OR TOWNSHIP ROADS.
3. ALL HAUL ROUTES USED MUST BE MAINTAINED, REPAIRED, AND/OR RECONSTRUCTED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR. ALL HAUL ROUTES IRRESPECTIVE OF AN AGREEMENT MUST BE APPROVED BY THE APPROPRIATE GOVERNING AGENCY. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT THE PRE-CONSTRUCTION CONDITION OF ALL HAUL ROUTES, ACCESS ROADS AND ALL OTHER SURROUNDING ROADWAYS.
4. CONTRACTOR MUST AVOID SUSCEPTIBLE ROADWAYS DURING THE SPRING THAW OR SATURATED CONDITIONS THAT WILL CAUSE DAMAGE TO SAID ROADWAYS. ANY RUTTING, PUMPING OR TRACKING MUST BE CORRECTED THE SAME DAY IT OCCURS. ANY NEGLIGENT DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE ROAD AUTHORITY BY THE CONTRACTOR AT THEIR EXPENSE.



TRAFFIC CONTROL NOTES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PTAPR(57), CA 024A, C462135-05	22	112

SEQUENCE OF OPERATIONS

CONTRACTOR REQUESTS TO DEVIATE FROM THE SEQUENCE OF OPERATIONS WILL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. APPROVAL OF AN ALTERNATE SEQUENCE OF OPERATIONS WILL ONLY BE ALLOWED WHEN THE PROPOSED CHANGES MEET WITH THE DEPARTMENT'S INTENT FOR TRAFFIC CONTROL AND SEQUENCING OF THE WORK. AN ALTERNATE SEQUENCE WILL BE SUBMITTED FOR REVIEW A MINIMUM OF ONE WEEK PRIOR TO POTENTIAL IMPLEMENTATION.

PHASE 1

1. INSTALL TRAFFIC CONTROL AS SHOWN ON THE DRAWINGS
2. INSTALL EROSION CONTROL AS SHOWN ON THE DRAWINGS
3. REMOVING EXISTING ASPHALT SURFACING
4. CONDITION AND CONSTRUCT ROADWAY EMBANKMENT
5. INSTALL GEOTEXTILE FABRIC AND BASE COURSE
6. COMPLETE CONCRETE SURFACING WORK
7. INSTALL ROADWAY SURFACING
8. CLEAN ALL AREAS WITHIN PROJECT LIMITS
9. OPEN PROJECT AREA TO TRAFFIC

PHASE 2

1. INSTALL TRAFFIC CONTROL AS SHOWN ON THE DRAWINGS
2. INSTALL EROSION CONTROL AS SHOWN ON THE DRAWINGS
3. COORDINATE REMOVAL OF LIGHTING WITH THE CITY OF COLTON
4. REMOVE EXISTING ASPHALT SURFACING AND OTHER SURFACING REQUIRED TO INSTALL UTILITIES
5. INSTALL WATER UTILITY AND STRUCTURES
6. INSTALL STORM SEWER UTILITY AND STRUCTURES
7. REMOVE REMAINING SURFACING AND CONCRETE SIDEWALK
8. COORDINATE INSTALLATION OF ELECTRICAL UTILITIES WITH THE CITY OF COLTON
9. CONDITION AND CONSTRUCT ROADWAY AND SIDEWALK EMBANKMENT
10. PERFORM CEMENT TREATED SUBGRADE STABILIZATION, WHERE INDICATED IN THE CONSTRUCTION PLANS
11. INSTALL ROADWAY SURFACING
12. COORDINATE LIGHT POLE FOOTING INSTALLATION WITH CITY OF COLTON
13. INSTALL CONCRETE SIDEWALK
14. COMPLETE SEEDING RESTORATION
15. COORDINATE INSTALLATION OF LIGHT POLES WITH THE CITY OF COLTON
16. COMPLETE PERMANENT SIGNING
17. COMPLETE PERMANENT PAVEMENT MARKINGS
18. CLEAN ALL AREAS WITHIN PROJECT LIMITS
19. OPEN PROJECT AREA TO TRAFFIC
20. COMPLETE ANY REMAINING RESTORATION ITEMS AND REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES

SPECIAL CONDITIONS

1. PHASE 2 CANNOT COMMENCE UNTIL THE POST OFFICE HAS ACCESS TO ITS PARKING LOT AND PHASE 1 IS OPEN TO PEDESTRIAN AND VEHICLE TRAFFIC.
2. ACCESS THROUGH ALLEYWAYS WILL BE MAINTAINED THROUGHOUT THE PROJECT. CLOSURES OF ALLEYWAYS ARE PERMITTED ONLY WHEN UTILITY WORK WOULD RESTRICT THE FLOW OF TRAFFIC OR WHEN ROADWAY CONSTRUCTION WOULD MAKE THE ALLEYWAY IMPASSABLE. ALLEYWAY ACCESS IS TO BE RESTORED AT THE END OF EACH DAY AND WILL NOT BE ALLOWED TO BE CLOSED PRIOR TO 8:00AM.

3. SIDEWALKS WILL BE MAINTAINED AND TRAVERSABLE FOR USE BY RESIDENTS. SIDEWALK AND PEDESTRIAN RAMP REMOVAL WILL TAKE PLACE IMMEDIATELY BEFORE UTILITY INSTALLATION IN THE AREA.

GENERAL TRAFFIC CONTROL

EXISTING GUIDE, ROUTE, INFORMATIONAL LOGO, REGULATORY, AND WARNING SIGNS WILL BE TEMPORARILY RESET AND MAINTAINED DURING CONSTRUCTION. REMOVING, RELOCATING, COVERING, SALVAGING, AND RESETTING OF EXISTING TRAFFIC CONTROL DEVICES, INCLUDING DELINEATION, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. COST FOR THIS WORK WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICES FOR THE VARIOUS ITEMS UNLESS OTHERWISE SPECIFIED IN THE PLANS. ANY DELINEATORS AND SIGNS DAMAGED OR LOST WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE STATE.

ALL TEMPORARY TRAFFIC CONTROL SIGN LOCATIONS WILL BE SET IN THE FIELD BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

IF THERE IS A DISCREPANCY BETWEEN THE TRAFFIC CONTROL PLANS, STANDARD PLATES, AND THE MUTCD, WHICHEVER IS MORE STRINGENT WILL BE USED, AS DETERMINED BY THE ENGINEER.

UNLESS OTHERWISE STATED IN THESE PLANS, WORK WILL NOT BE ALLOWED DURING HOURS OF DARKNESS.

FIXED LOCATION SIGNING PLACED MORE THAN 4 CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION WILL BE COVERED OR LAID DOWN UNTIL THE TIME OF CONSTRUCTION. THE COVERS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THE COST OF MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK WILL BE INCIDENTAL TO OTHER CONTRACT ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

ALL FIXED LOCATION SIGNS, SIGN POSTS, AND BREAKAWAY BASES WILL BE REMOVED WITHIN 7 CALENDAR DAYS FOLLOWING PAVEMENT MARKING.

ALL HAUL TRUCKS WILL BE EQUIPPED WITH AN ADDITIONAL FLASHING AMBER LIGHT THAT IS VISIBLE FROM THE BACKSIDE OF THE HAUL TRUCK. THE COSTS FOR THE FLASHING AMBER LIGHTS WILL BE INCIDENTAL TO THE VARIOUS RELATED CONTRACT ITEMS.

AT NO TIME WILL A VERTICAL DROP-OFF OF GREATER THAN 3 INCHES BE LEFT OVERNIGHT ADJACENT TO THE TRAVELED WAY. THE CONTRACTOR WILL UTILIZE EMBANKMENT MATERIAL TO ENSURE A 3-INCH VERTICAL DROP-OFF IS NOT

EXCEEDED. THE SLOPE OF THE EMBANKMENT MATERIAL WILL NOT BE STEEPER THAN A 4:1 WITHIN 30 FEET OF THE TRAVELED WAY.

THE CONTRACTOR WILL NOTIFY BUSINESSES/HOMEOWNERS A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION TO INFORM THEM OF UPCOMING CONSTRUCTION AND AGAIN A MINIMUM OF 48 HOURS PRIOR TO ANY BLOCKED ACCESS TO MAKE APPROPRIATE ARRANGEMENTS.

TEMPORARY PEDESTRIAN ACCESS ROUTE

A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) WILL BE PROVIDED WHEN CROSSWALKS, SIDEWALKS, OR OTHER PEDESTRIAN FACILITIES ARE BLOCKED, CLOSED, OR RELOCATED. A TPAR MAY CONSIST OF A COMBINATION OF EXISTING AND/OR TEMPORARY PEDESTRIAN FACILITIES. THE TPAR WILL BE KEPT FREE OF ANY OBSTRUCTIONS AND HAZARDS, SUCH AS HOLES, DEBRIS, MUD, SNOW, CONSTRUCTION EQUIPMENT, TRAFFIC CONTROL SIGNING, STORED MATERIALS, ETC.

ACCESS CAN BE ACHIEVED BY UTILIZING THE EXISTING CONCRETE SIDEWALK, TEMPORARY BOARDWALKS (REF. DETAILS), OR FLEXIBLE SIDEWALK.

THE CONTRACTOR WILL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO START OF ANY CONSTRUCTION OPERATION THAT WILL NECESSITATE A CHANGE IN PEDESTRIAN ACCESS. PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING A CROSSWALK THAT IS CLOSED WILL BE COVERED OR REMOVED.

TYPE II BARRICADES USED FOR TEMPORARY PEDESTRIAN SIGNING ARE INCIDENTAL TO THE BID ITEM FOR "TEMPORARY PEDESTRIAN ACCESS ROUTE".

TEMPORARY PEDESTRIAN SIDEWALK

TEMPORARY PEDESTRIAN SIDEWALK WILL BE A SMOOTH, CONTINUOUS, NON-SLIP, HARD SURFACE. THERE SHOULD BE NO CURBS OR ABRUPT CHANGES IN GRADE OR TERRAIN THAT COULD CAUSE TRIPPING OR BE A BARRIER TO WHEELCHAIR USE.

TEMPORARY PEDESTRIAN SIDEWALK WILL HAVE A MINIMUM WIDTH OF 48 INCHES, WITH 60 INCHES RECOMMENDED. THE CONTRACTOR WILL TRY TO PROVIDE BOULEVARD SIDEWALK, WHENEVER POSSIBLE, FOR TEMPORARY PEDESTRIAN SIDEWALK THAT IS 48 INCHES WIDE. TEMPORARY PEDESTRIAN SIDEWALK LESS THAN 60 INCHES WIDE WILL PROVIDE FOR A 60-INCH X 60-INCH PASSING SPACE AT INTERVALS NOT TO EXCEED 200 FEET. TEMPORARY PEDESTRIAN SIDEWALK WILL HAVE A MAXIMUM CROSS SLOPE OF 2%. THE MAXIMUM GRADE WILL BE 5% WHERE THE TEMPORARY PEDESTRIAN SIDEWALK DOES NOT FOLLOW THE GRADE OF THE ROAD.

ALL COSTS ASSOCIATED WITH INSTALLING AND MAINTAINING A TEMPORARY PEDESTRIAN ACCESS ROUTE, INCLUDING TEMPORARY PEDESTRIAN SIDEWALK, CONSTRUCTION AND MAINTENANCE OF A TEMPORARY BOARDWALK AND/OR FLEXIBLE MAT WILL BE INCIDENTAL TO THE CONTRACT LUMP SUM PRICE FOR "TEMPORARY PEDESTRIAN ACCESS ROUTE".



TEMPORARY CURB RAMP

TEMPORARY CURB RAMPS SHOULD BE FIRM, STABLE, AND HAVE A NON-SLIP SURFACE. THEY WILL NOT WARP OR BUCKLE, AND SHOULD BE MADE OF MATERIALS STRONG ENOUGH TO SUPPORT A WEIGHT OF 800 POUNDS. TEMPORARY CURB RAMPS WILL BE YELLOW OR COLOR CONTRASTING AND CONTAIN MARKED EDGES, SO THEY ARE NOTICEABLE BY PEDESTRIANS WHO HAVE VISUAL IMPAIRMENTS. LATERAL JOINTS OR GAPS BETWEEN SURFACES WILL BE A MAXIMUM OF 0.5 INCHES IN WIDTH. TEMPORARY CURB RAMPS WILL INCLUDE DETECTABLE WARNING PANELS.

TEMPORARY CURB RAMPS WILL BE THE SAME WIDTH AS THE TEMPORARY PEDESTRIAN ACCESS ROUTE, WITH A RECOMMENDED WIDTH OF 60 INCHES AND A MINIMUM WIDTH OF 48 INCHES. TEMPORARY CURB RAMPS WILL HAVE A MAXIMUM SLOPE OF 8.3% AND HAVE FREE DRAINING SURFACES WITH A MAXIMUM CROSS SLOPE OF 2%. HANDRAILS ON TEMPORARY CURB RAMPS ARE NOT REQUIRED UNLESS THE CURB RAMP HAS A RISE EXCEEDING 6 INCHES AND A LENGTH EXCEEDING 72 INCHES.

ALL COSTS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER EACH FOR "TEMPORARY CURB RAMP".

LONGITUDINAL PEDESTRIAN BARRICADE

LONGITUDINAL PEDESTRIAN BARRICADES SHOULD NOT BE USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS.

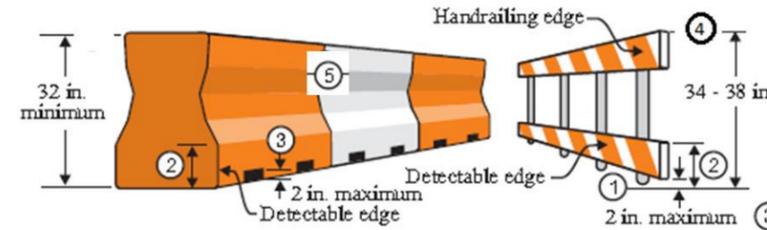
TO PREVENT ANY TRIPPING HAZARD TO PEDESTRIANS, BALLAST WILL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE.

WHEN LONGITUDINAL PEDESTRIAN BARRICADES ARE COMBINED IN A SERIES, THE MAXIMUM GAP BETWEEN DEVICES THAT DO NOT INTERLOCK WILL BE ONE INCH. JOINTS BETWEEN DEVICES THAT DO INTERLOCK WILL BE CLOSED AND FLUSH TO PREVENT CANES OR SMALL WHEELS FROM BEING TRAPPED AND TO FACILITATE SAFE HAND TRAILING. WHEN USED AS A SIDEWALK CLOSURE MECHANISM, LONGITUDINAL PEDESTRIAN BARRICADE MUST RUN THE ENTIRE WIDTH OF THE SIDEWALK. LONGITUDINAL PEDESTRIAN BARRICADE SHOULD PROVIDE A COLOR CONTRASTING PATTERN. BLACK SHOULD NOT BE USED TO COLOR ANY BASE ON A DEVICE. THE DEVICES SHOULD COMPLY WITH THE GENERAL COLOR AND STRIPE PATTERN REQUIREMENTS OF SECTION 6F.68 OF THE MUTCD.

LONGITUDINAL PEDESTRIAN BARRICADE WILL HAVE CONTINUOUS BOTTOM AND TOP SURFACES. THE TOP SURFACE WILL BE SMOOTH TO ALLOW SAFE HAND TRAILING. BOTH UPPER AND LOWER SURFACES WILL SHARE A COMMON VERTICAL PLANE.

ALL COSTS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER FOOT FOR "LONGITUDINAL PEDESTRIAN BARRICADE".

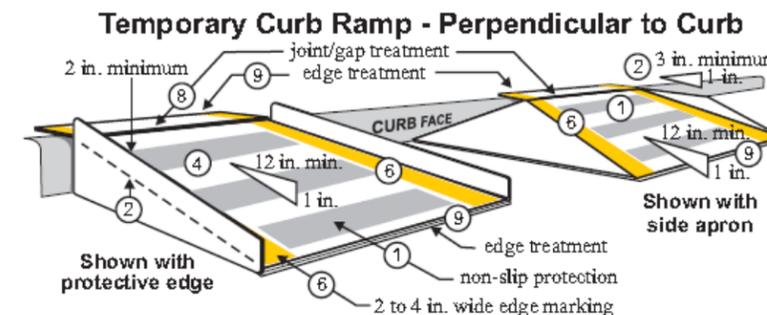
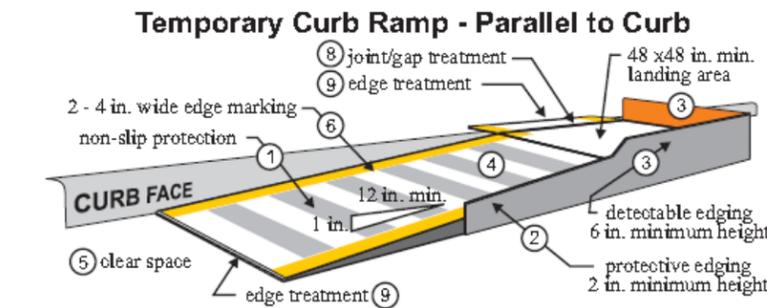
PEDESTRIAN CHANNELIZING DEVICE DETAILS



Longitudinal Pedestrian Barrier Longitudinal Pedestrian Barricade

- BARRICADE RAIL SUPPORTS MAY NOT EXTEND INTO THE PEDESTRIAN WALKWAY MORE THAN 4 INCHES FROM THE FACE OF THE BARRICADE.
- THE TOP EDGE OF THE BOTTOM PORTION WILL BE A MINIMUM OF 8 INCHES ABOVE THE WALKWAY.
- DEVICES WILL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IN HEIGHT IS ALLOWED FOR DRAINAGE PURPOSES.
- THE TOP EDGE OF THE LONGITUDINAL PEDESTRIAN BARRICADE IS TO BE USED AS A GUIDERAIL TO PROVIDE VISUAL AND TACTILE GUIDANCE TO PEDESTRIANS ALONG A DESIGNATED ROUTE. THE TOP SURFACE SHOULD HAVE A MINIMUM WIDTH OF 0.5 INCHES TO ALLOW THE HAND TO FEEL THE SURFACE. THE SURFACE SHOULD BE SMOOTH AND FREE OF ANY SHARP OR ABRASIVE ELEMENTS TO ALLOW SAFE HAND TRAILING.
- LONGITUDINAL PEDESTRIAN BARRIER USED TO PROVIDE POSITIVE PROTECTION FROM TRAFFIC TO PEDESTRIANS SHOULD BE CRASHWORTHY.

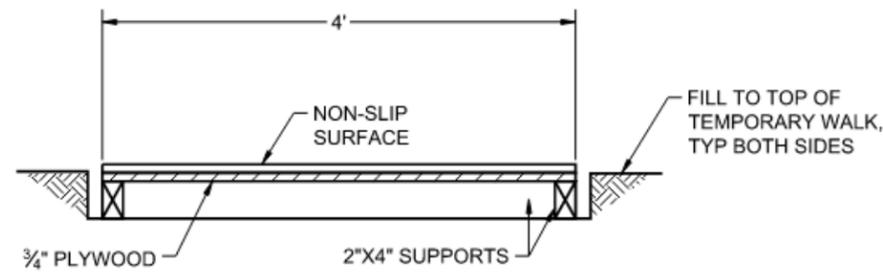
TEMPORARY CURB RAMP DETAILS



- CURB RAMPS WILL BE 48-INCH MINIMUM WIDTH WITH A FIRM, STABLE, AND NON-SLIP SURFACE.
- PROTECTIVE EDGING WITH A 2-INCH MINIMUM HEIGHT WILL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 INCHES OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 33:1 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 INCHES OR MORE.
- DETECTABLE EDGING WITH 6 INCHES MINIMUM HEIGHT AND CONTRASTING COLOR WILL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- CURB RAMPS AND LANDINGS SHOULD HAVE A 50:1 (2%) MAXIMUM CROSS SLOPE.
- A MINIMUM CLEAR SPACE OF 48 INCH X 48 INCH MINIMUM WILL BE PROVIDED ABOVE AND BELOW THE CURB RAMP, WITH A 60 INCH X 60 INCH CLEAR SPACE PREFERRED.
- THE CURB RAMP WALKWAY EDGE WILL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 INCH WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- WATER FLOW IN THE GUTTER SYSTEM WILL HAVE MINIMAL RESTRICTION.
- LATERAL JOINTS OR GAPS BETWEEN SURFACES WILL BE LESS THAN 0.5 INCHES IN WIDTH.
- CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 INCHES. LATERAL EDGES BETWEEN 0.25 INCHES AND 0.5 INCHES IN HEIGHT, SHOULD BE VERTICAL UP TO 0.25 INCHES IN HEIGHT AND BEVELED AT 2:1 between 0.25 inches and 0.5 inches in height.



BOARDWALK INSTALLATION DETAIL

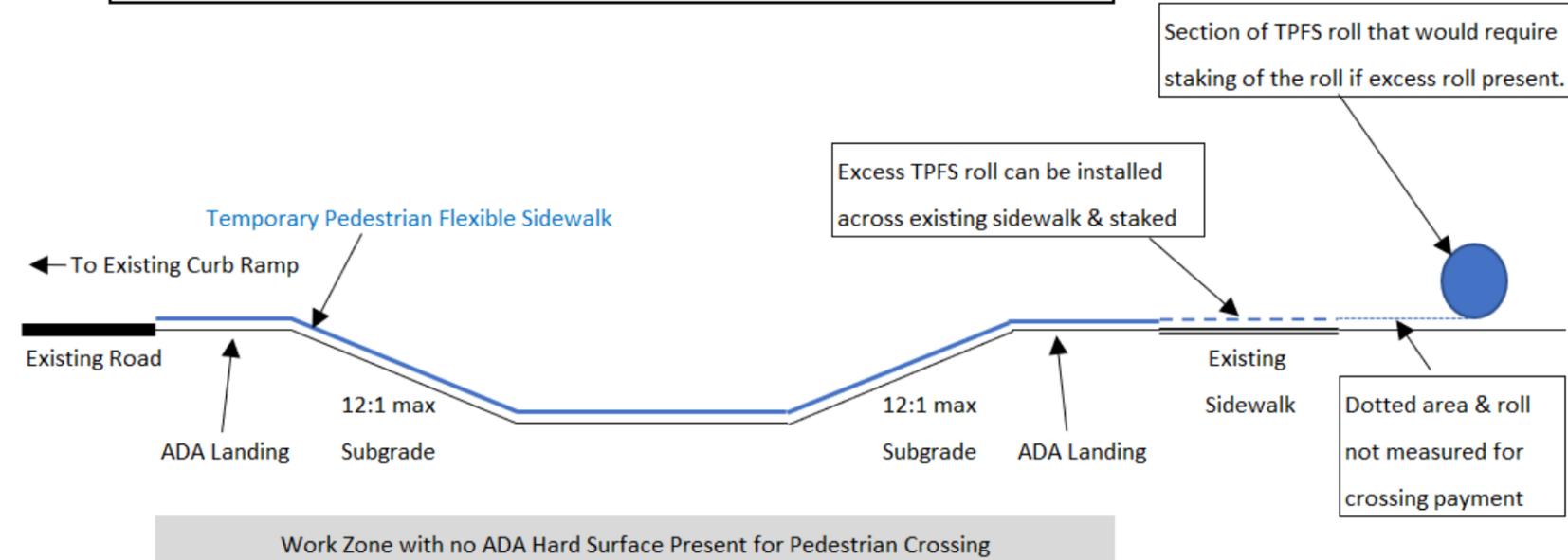


NOTES:

1. ALL CONNECTIONS TO 3/4" PLYWOOD TO BE MADE WITH SCREWS - NO NAILS.
2. CONTRACTOR MAY PROVIDE ALTERNATE DESIGNS FOR APPROVAL BY ENGINEER. ALTERNATE OPTIONS MAY BE FODS GROUND PROTECTION MATS OR MOBI MAT.

FLEXIBLE SIDEWALK INSTALLATION GUIDE FOR PARTIAL WIDTH CONSTRUCTION

Typical Section for Pedestrian Crossing Across an Active Work Zone with Temporary Pedestrian Flexible Sidewalk for Partial Width Construction



Notes:

1. TPFS is to be installed in accordance with the manufacturer's recommendations, or as approved by the Engineer.
2. ADA Landing will be placed as required and meet typical ADA standards described in the plans.
3. Subsurface work will meet the required ADA typical slopes and cross slopes to support the TPFS.
4. Excess Length of TPFS will require staking to prevent inadvertent moving of the roll by the public.

THE CONTRACTOR WILL PROVIDE FLEXIBLE SIDEWALK FROM THE LIST BELOW. THE CONTRACTOR MAY SUBMIT AN EQUIVALENT TYPE OF FLEXIBLE SIDEWALK MAT FOR APPROVAL BY THE DEPARTMENT.

1. MOBI-MATS (REC PATH) AFX BLUE JAY
 DESCHAMPS MATS SYSTEMS
 218 LITTLE FALLS ROAD, UNIT 12
 CEDAR GROVE, NJ 07009
 PH# 1-973-928-3040



TRAFFIC CONTROL PLAN

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

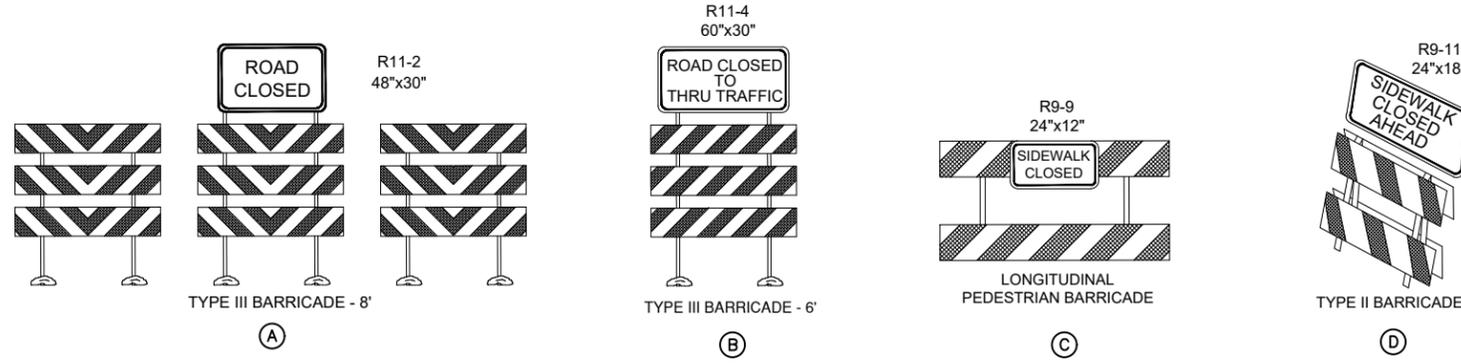
SHEET
25

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

0 75 150 FT



TRAFFIC CONTROL LEGEND	
	BARRICADE
	SIGN
	PHASE 1 WORK ZONE
	PHASE 2 WORK ZONE

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS (4TH STREET)					
SIGN CODE	SIGN DESCRIPTION	NUMBER	CONVENTIONAL ROAD		
			SIGN SIZE	SQFT PER SIGN	SQFT
R9-9	SIDEWALK CLOSED (TAP 09G6)	8	24" x 12"	2.0	16.0
R9-11	SIDEWALK CLOSED AHEAD (TAP 09G6)	4	24" x 18"	3.0	12.0
R11-2	ROAD CLOSED (CAG 09P2)	10	48" x 30"	10.0	100.0
R11-4	ROAD CLOSED TO THRU TRAFFIC (CAG 09P2)	9	60" x 30"	12.5	112.5
CONTROL SIGNS SQFT					240.5

BARRICADES (4TH STREET)	
ITEM DESCRIPTION	QUANTITY
TYPE 2 BARRICADE (TAP 09G6)	12 EACH
LONGITUDINAL PEDESTRIAN BARRICADE (TAP 09G6)	48 LF
TYPE 3 BARRICADE - 8' DOUBLE SIDED (CAG 09P2)	28 EACH



- NOTES:**
- CONTRACTOR MUST MAINTAIN PEDESTRIAN ACCESS DURING CONSTRUCTION TO ALL BUSINESSES.
 - EXISTING CONCRETE SIDEWALK MUST BE REMOVED AND CONSTRUCTED IN APPROVED SEGMENTS. TEMPORARY BOARDWALK MUST BE INSTALLED AT EACH DOOR IN REMOVED AREA UNTIL NEW SIDEWALK IS COMPLETED AND ACCESSIBLE.
 - ONCE MAIN ROADWAY IS CONSTRUCTED, TEMPORARY SIDEWALK ACCESS TO BUSINESSES MUST BE REDIRECTED TO THE ROADWAY WHILE THE SIDEWALK IS BEING CONSTRUCTED. IF MODIFICATIONS ARE ANTICIPATED TO THIS SEQUENCING, AN APPROVED PLAN MUST BE SUBMITTED TO THE ENGINEER.
 - COORDINATION WILL BE REQUIRED WITH ALL BUSINESSES 48 HOURS IN ADVANCE PRIOR TO ANY INTERRUPTIONS TO ACCESS.
 - PEDESTRIAN ACCESS TO THE FRONT ENTRANCE OF THE POST OFFICE MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR TO COORDINATE WITH THE POST OFFICE 7 DAYS PRIOR TO REMOVAL/REPLACEMENT OF THE SIDEWALK IN FRONT OF THE DOOR. IT IS RECOMMENDED THIS WORK IS PERFORMED OVER THE WEEKEND, DURING A HOLIDAY BREAK, OR SATURDAY AFTERNOON.



BUSINESS AND PEDESTRIAN ACCESS PLAN

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

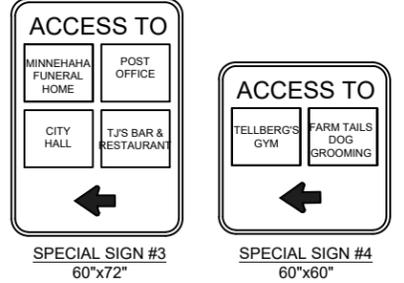
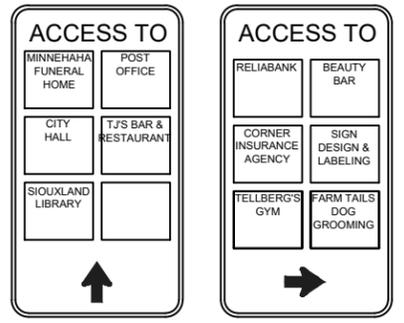
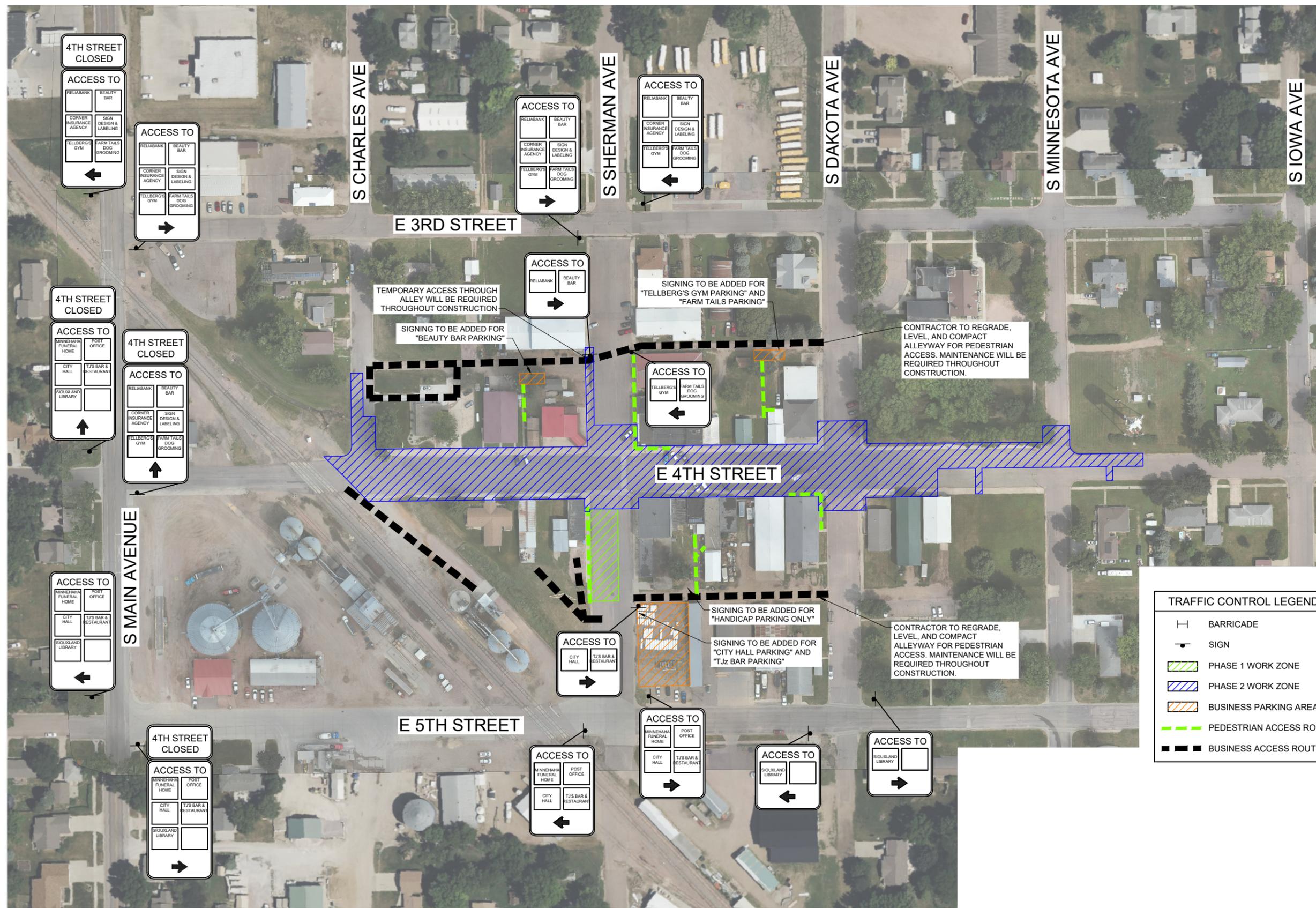
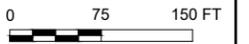
PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
26

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---



TRAFFIC CONTROL LEGEND

	BARRICADE
	SIGN
	PHASE 1 WORK ZONE
	PHASE 2 WORK ZONE
	BUSINESS PARKING AREA
	PEDESTRIAN ACCESS ROUTE
	BUSINESS ACCESS ROUTE

NOTE:
6.0" RADIUS, 1.3" BORDER, BLACK ON ORANGE, "4TH STREET CLOSED" & "ACCESS TO" BLACK TYPE D FONT; 0.5" BLACK OUTLINE FOR RECTANGLES; 4" BLACK TYPE C FONT WITHIN RECTANGLES; BLACK STANDARD ARROW, CUSTOM 14.0" X 8.5"

CONTRACTOR TO SUBMIT SHOP DRAWING OF SIGN LAYOUT PRIOR TO FABRICATION.



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** 2.6 Acres
- **5.3 (3b): Total Area to be Disturbed** 2.6 Acres
- **5.3 (3c): Maximum Area Disturbed at One Time** 2.4 Acres
- **5.3 (3d): Existing Vegetative Cover (%)** 7.3
- **5.3 (3d): Description of Vegetative Cover** Grass
- **5.3 (3e): Soil Properties:** Class C Loamy soils consisting of Egan-Ethan-Trent Complex, Ethan-Egan complex, and Worthing-Davison complex.
- **5.3 (3f): Name of Receiving Water Body/Bodies** Colton Creek
- **5.3 (3g): Location of Construction Support Activity Areas** 4th Street Colton, South Dakota

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 Detail Plan Sheets)

Description	Estimated Start Date
<input type="checkbox"/> Natural Buffers (within 50 ft of Waters of State)	
<input checked="" type="checkbox"/> Silt Fence	
<input type="checkbox"/> Erosion Control Wattles	
<input type="checkbox"/> Temporary Berm / Windrow	
<input type="checkbox"/> Floating Silt Curtain	
<input checked="" type="checkbox"/> Stabilized Construction Entrances	
<input type="checkbox"/> Entrance/Exit Equipment Tire Wash	
<input type="checkbox"/> Other:	

Structural Erosion and Sediment Controls

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

Dust Controls

Description	Estimated Start Date
<input type="checkbox"/> Tarps & Wind impervious fabrics	
<input type="checkbox"/> Watering	
<input type="checkbox"/> Stockpile location/orientation	
<input type="checkbox"/> Dust Control Chlorides	
<input type="checkbox"/> Other	

Dewatering BMPs

Description	Estimated Start Date
<input type="checkbox"/> Sediment Basins	
<input type="checkbox"/> Dewatering bags	
<input type="checkbox"/> Weir tanks	
<input type="checkbox"/> Temporary Diversion Channel	
<input type="checkbox"/> Other:	

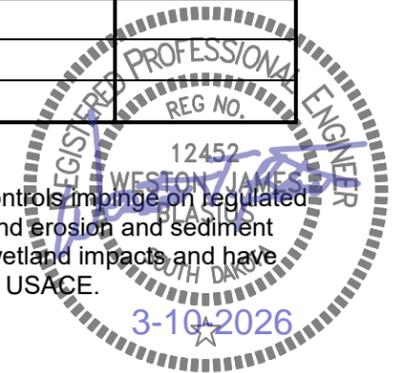
Stabilization Practices (See Detail Plan Sheets)

(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
<input type="checkbox"/> Vegetation Buffer Strips	
<input type="checkbox"/> Temporary Seeding (Cover Crop Seeding)	
<input checked="" type="checkbox"/> Permanent Seeding	
<input type="checkbox"/> Sodding	
<input type="checkbox"/> Planting (Woody Vegetation for Soil Stabilization)	
<input type="checkbox"/> Mulching (Grass Hay or Straw)	
<input type="checkbox"/> Fiber Mulching (Wood Fiber Mulch)	
<input type="checkbox"/> Soil Stabilizer	
<input type="checkbox"/> Bonded Fiber Matrix	
<input type="checkbox"/> Fiber Reinforced Matrix	
<input type="checkbox"/> Erosion Control Blankets	
<input type="checkbox"/> Surface Roughening (e.g. tracking)	
<input type="checkbox"/> 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 on form DOT 298 for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents.
- The SDDOT Project Engineer and Contractor's Erosion Control Supervisor are responsible for inspections. Maintenance and repair activities are the responsibility of the Contractor. The SDDOT Project Engineer will complete the inspection and maintenance reports and distribute copies per the distribution instructions on DOT 298.

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.

- 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

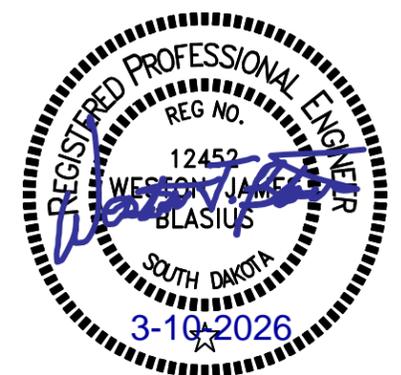
- All liquid waste materials will be collected and stored in approved sealed containers. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. 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.



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.

➤ **South Dakota Department of Transportation**

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: _____

➤ **SDDOT Project Engineer**

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

➤ **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

➤ **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.

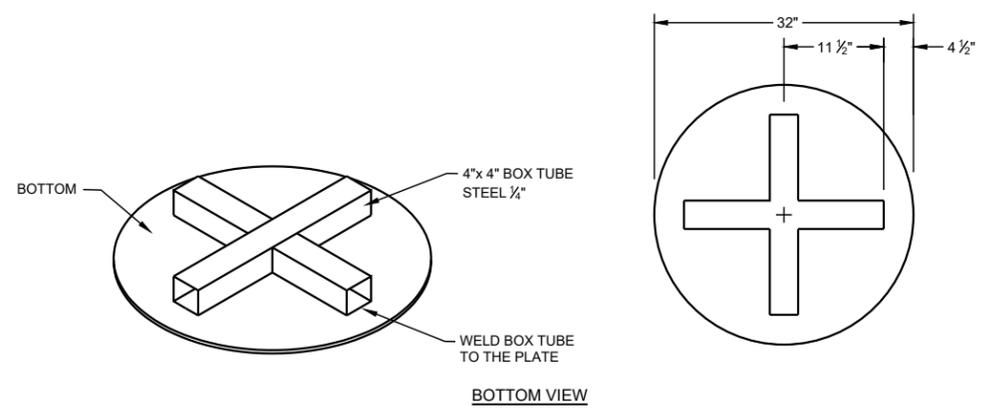
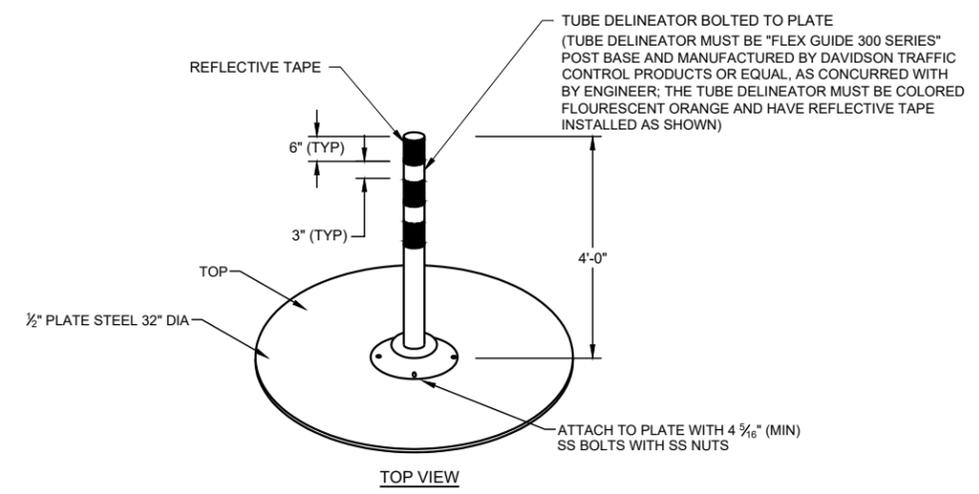
➤ **5.5 (4): Certification Requirements**

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.

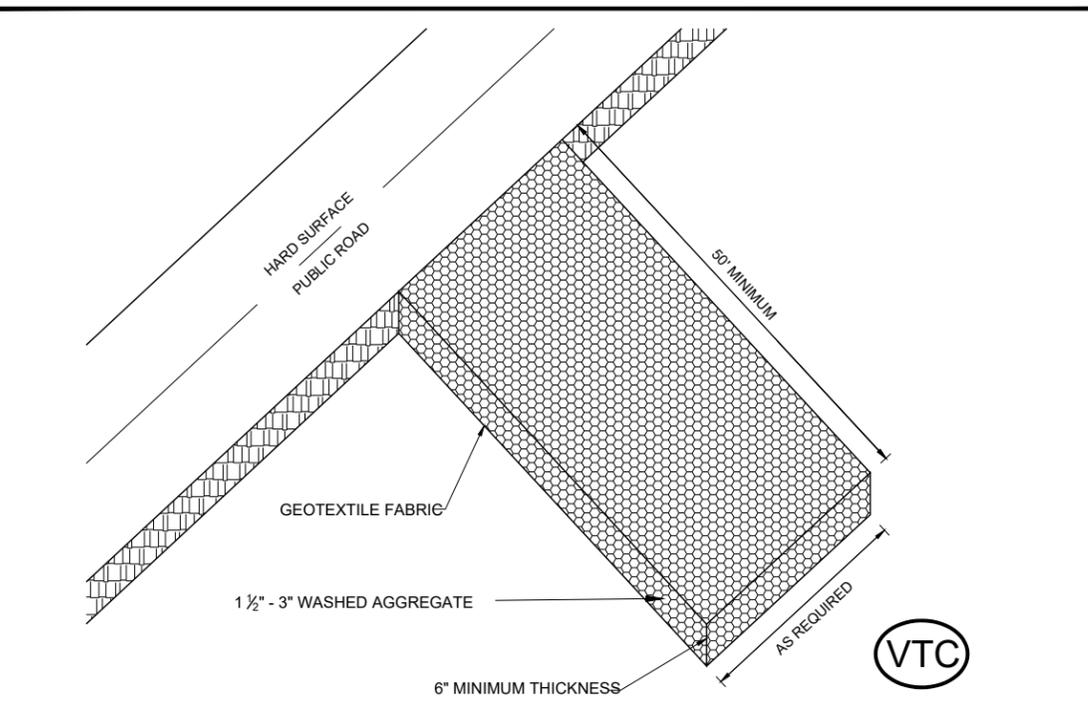
When modifications as described above occur, the SWPPP will be modified to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SDDOT Project Engineer will modify the SWPPP using the DOT 298 form and drawings on the plan will be modified to reflect the needed changes. Copies of the DOT 298 forms and the SWPPP will be retained on site in a designated place for review throughout the course of the project. A copy of the DOT 298 form will be given to the Contractor Erosion Control Supervisor and a copy will be emailed to the SDDOT Environmental Section in accordance with the DOT 298 Form.



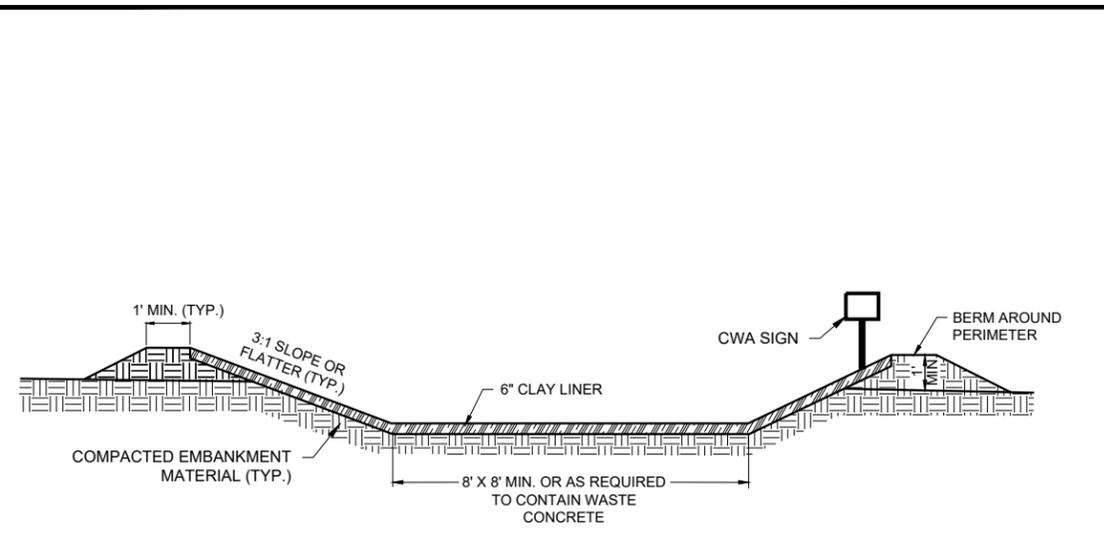
- NOTE:
1. A SEALANT MATERIAL MUST BE INSTALLED BETWEEN THE MANHOLE CONSTRUCTION PLATE MARKER AND THE MANHOLE TO FORM A WATERTIGHT SEAL.
 2. BREAKAWAY LIFT HOOKS WILL BE ALLOWED ON THE TOP OF THE PLATE FOR USE IN INSTALLING AND REMOVING THE PLATE. THE LIFT HOOKS MUST BE LOCATED WITHIN A 10 INCH RADIUS OF THE PLATE CENTER.

MANHOLE CONSTRUCTION PLATE MARKER

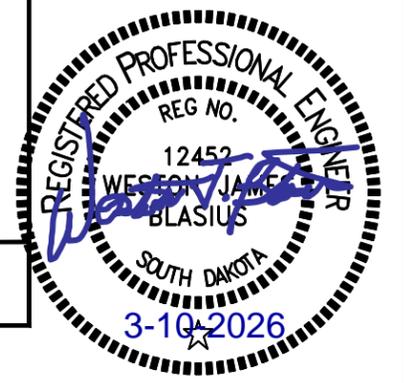
MODIFIED



TEMPORARY VEHICLE TRACKING CONTROL



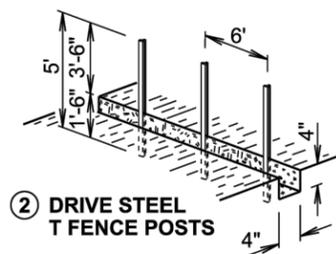
CONCRETE WASHOUT AREA DETAIL



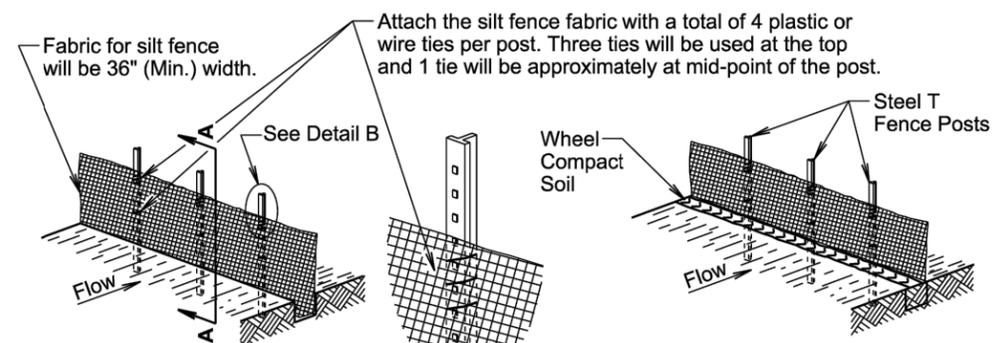
MANUAL HIGH FLOW SILT FENCE INSTALLATION



① EXCAVATE TRENCH



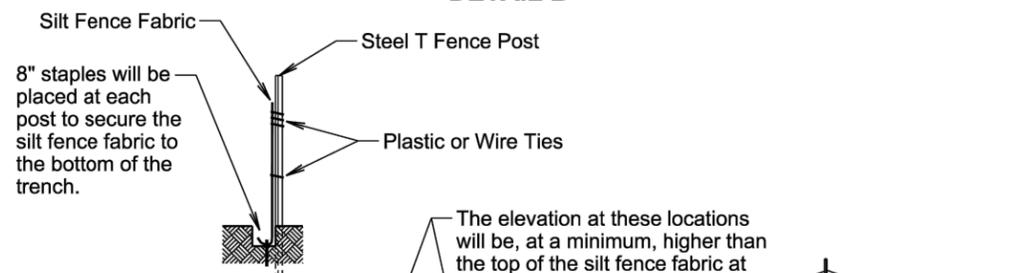
② DRIVE STEEL T FENCE POSTS



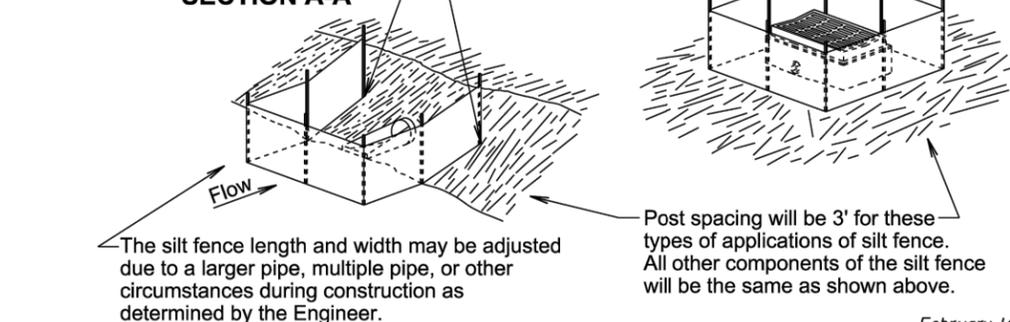
③ ATTACH SILT FENCE FABRIC

④ BACKFILL TRENCH AND WHEEL COMPACT SOIL

DETAIL B



SECTION A-A



The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

Post spacing will be 3' for these types of applications of silt fence. All other components of the silt fence will be the same as shown above.

February 14, 2020

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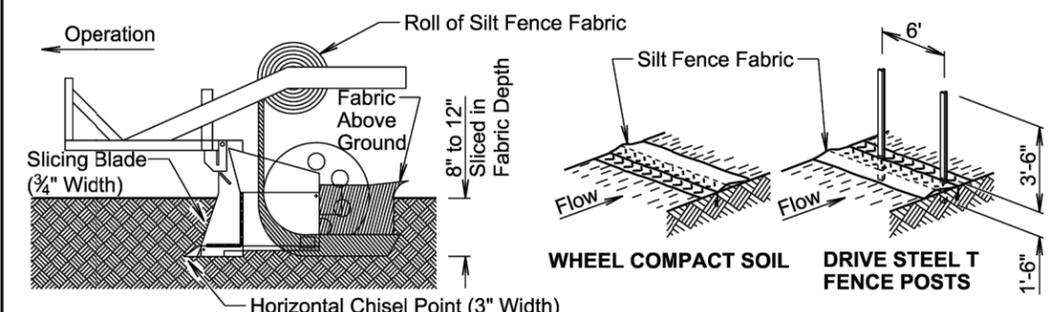
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HIGH FLOW SILT FENCE

PLATE NUMBER
734.05

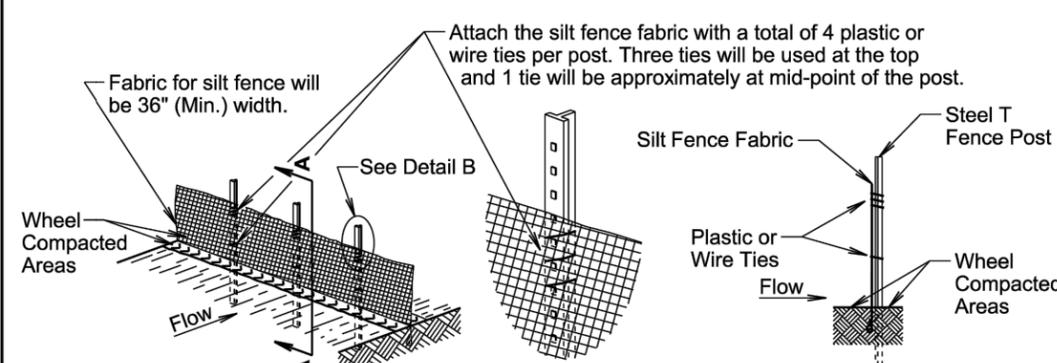
Sheet 1 of 2

MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION



① INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.

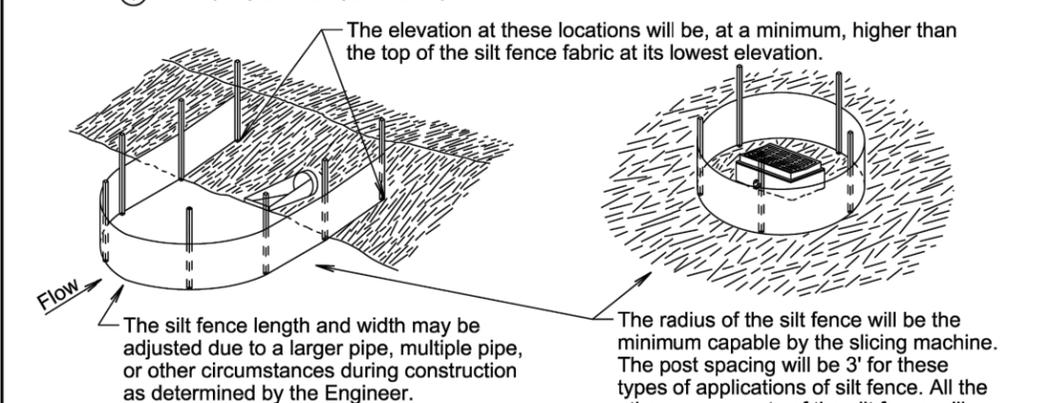
② WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.



③ ATTACH SILT FENCE FABRIC

DETAIL B

SECTION A-A



The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

The radius of the silt fence will be the minimum capable by the slicing machine. The post spacing will be 3' for these types of applications of silt fence. All the other components of the silt fence will be the same as shown above.

GENERAL NOTE:

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end will be provided on top of the extra length of silt fence fabric to prevent underflow.

February 14, 2020

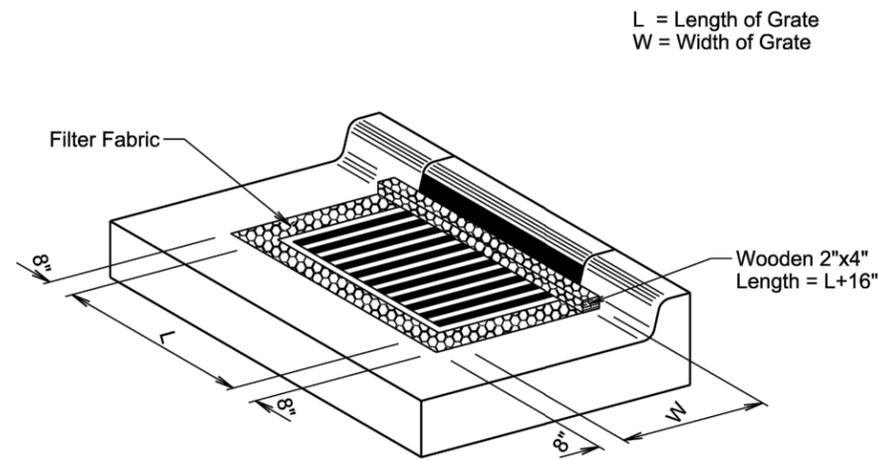
Published Date: 2026

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HIGH FLOW SILT FENCE

PLATE NUMBER
734.05

Sheet 2 of 2



ISOMETRIC VIEW

GENERAL NOTES:

The grate and curb and gutter shown are for illustrative purposes only.

The sediment control at inlet with frame and grate will be placed at locations stated in the plans or at locations determined by the Engineer.

The filter fabric will be the type specified in the plans.

The filter fabric will be placed in the inlet opening prior to placing the grate. Approximately 18 inches of excess filter fabric will be wrapped around the 2"x4" and stapled securely to the 2"x4" after the grate has been placed.

The Contractor and Engineer will inspect the sediment control device in accordance with the storm water permit. The Contractor will maintain the sediment control device by removing accumulated sediment and replacing torn filter fabric with new filter fabric.

The removed sediment will be placed at a location away from the drop inlet where the sediment will not be washed back into the drop inlet or other storm sewer system.

All costs for furnishing, installing, inspecting, maintaining, removing, and replacing the sediment control device at the inlet including labor, equipment, and materials will be incidental to the contract unit price per each for "Sediment Control at Inlet with Frame and Grate".

February 14, 2020

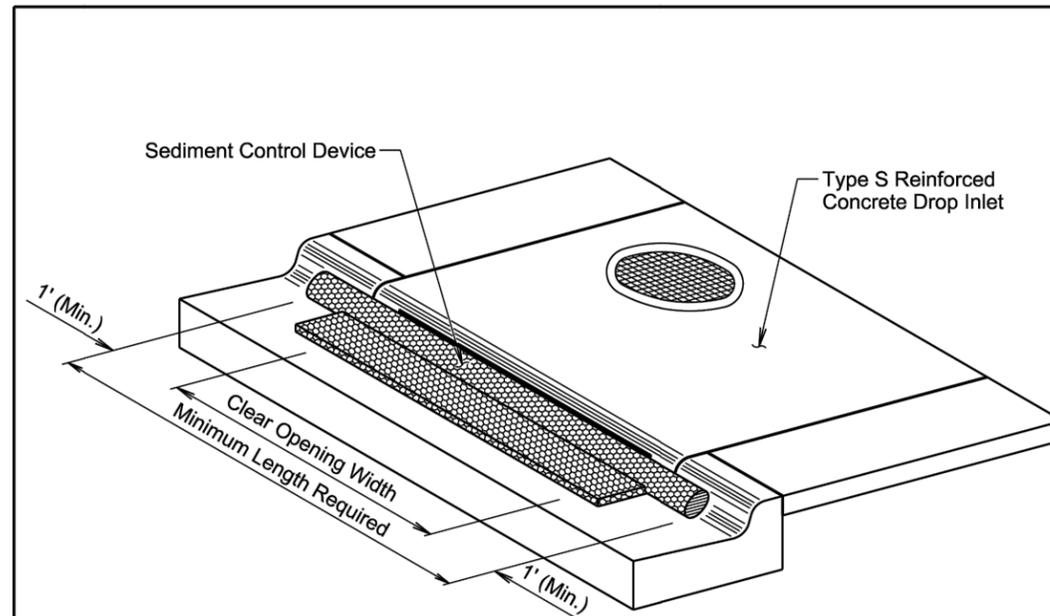
Published Date: 2026

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**SEDIMENT CONTROL AT INLETS
WITH FRAMES AND GRATES**

PLATE NUMBER
734.10

Sheet 1 of 1



ISOMETRIC VIEW

GENERAL NOTES:

The type of sediment control device shown is for illustrative purposes only.

The type of sediment control device used will be one of the types as specified in the plans.

The sediment control device will be placed at the drop inlets according to the manufacturer's installation instructions.

The sediment control at inlet for type S reinforced concrete drop inlet will be placed at locations stated in the plans or at locations determined by the Engineer.

The Contractor and Engineer will inspect the sediment control device in accordance with the storm water permit. The Contractor will maintain the sediment control device by removing the device, removing accumulated sediment, and resetting the device.

The removed sediment will be placed at a location away from the drop inlet where the sediment will not be washed back into the drop inlet or other storm sewer system.

Payment for the "Sediment Control at Type S Drop Inlet" will be based on the minimum length required at the drop inlets. Some of the sediment control devices specified in the plans will have to be longer due to available length.

All costs for furnishing, installing, inspecting, maintaining, removing, and resetting the sediment control device at the drop inlet including labor, equipment, and materials will be incidental to the contract unit price per foot for "Sediment Control at Type S Reinforced Concrete Drop Inlet".

February 14, 2020

Published Date: 2026

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**SEDIMENT CONTROL AT INLETS
FOR TYPE S REINFORCED CONCRETE
DROP INLETS**

PLATE NUMBER
734.11

Sheet 1 of 1

EROSION AND SEDIMENT CONTROL

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

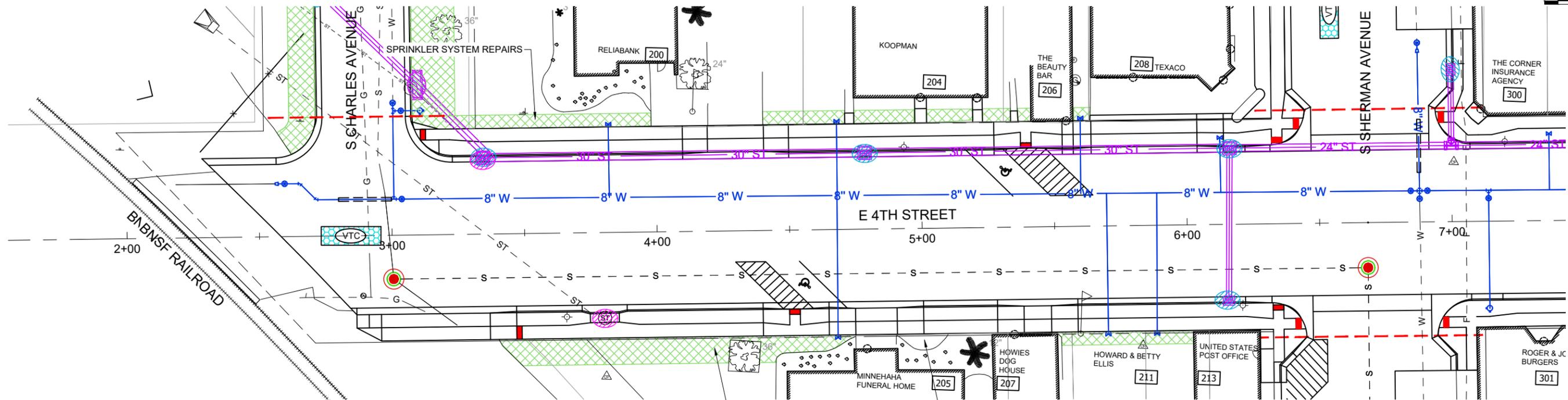
SHEET
34

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



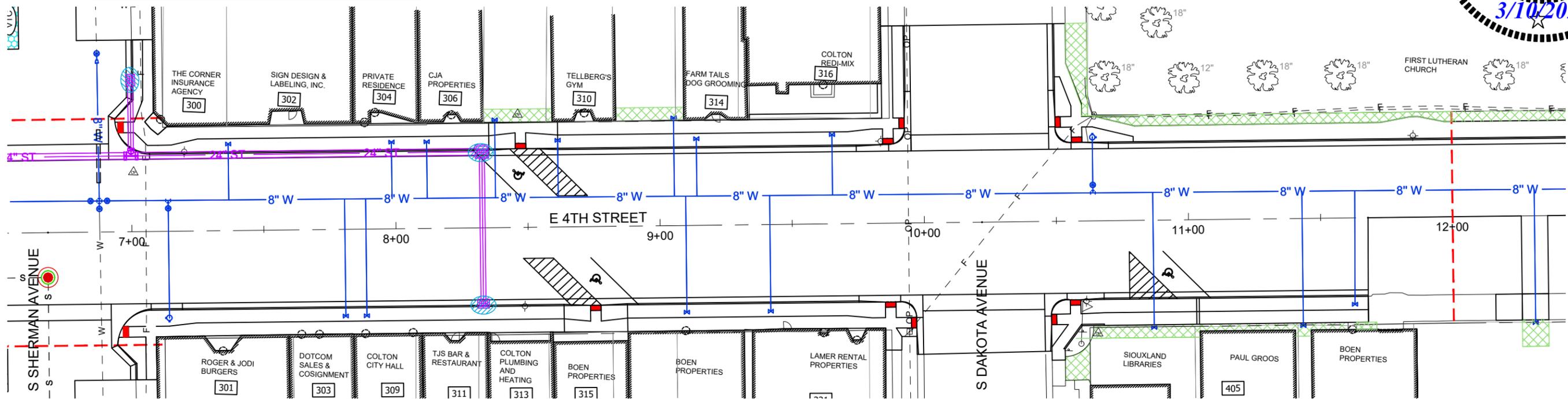
EROSION CONTROL LEGEND

- 6" TOPSOIL, SEED, FERTILIZE & MULCH
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT AREA
- MANHOLE CONSTRUCTION PLATE MARKER
- EXISTING INLET SEDIMENT PROTECTION
- PROPOSED INLET SEDIMENT PROTECTION
- SILT FENCE
- MATCH LINE FOR QUANTITIES

QUANTITIES

- 41 CY - PLACING TOPSOIL
- 41 CY - CONTRACTOR FURNISHED TOPSOIL
- 27 LB - TYPE D PERMANENT SEED MIXTURE
- 131 LB - FERTILIZING
- 174 LB - FIBER MULCHING
- 60 FT - HIGH FLOW SILT FENCE
- 7 EA - SEDIMENT CONTROL AT INLET W/ FRAME AND GRATE
- 4 HR - OPERATOR, STREET SWEEPING
- 1 EA - CONSTRUCTION ENTRANCE
- 2 EA - MANHOLE CONSTRUCTION PLATE MARKER (INCIDENTAL)
- 1 EA - CONCRETE WASHOUT FACILITY

NOTE:
ALL EXISTING AND PROPOSED INLETS SHALL BE PROTECTED FROM SEDIMENT DURING ALL STAGES OF CONSTRUCTION WITH INLET PROTECTION AND SILT FENCE. SEE NOTES FOR DESCRIPTIONS AND QUANTITIES OF THE ITEMS TO BE INSTALLED.



EROSION AND SEDIMENT CONTROL

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

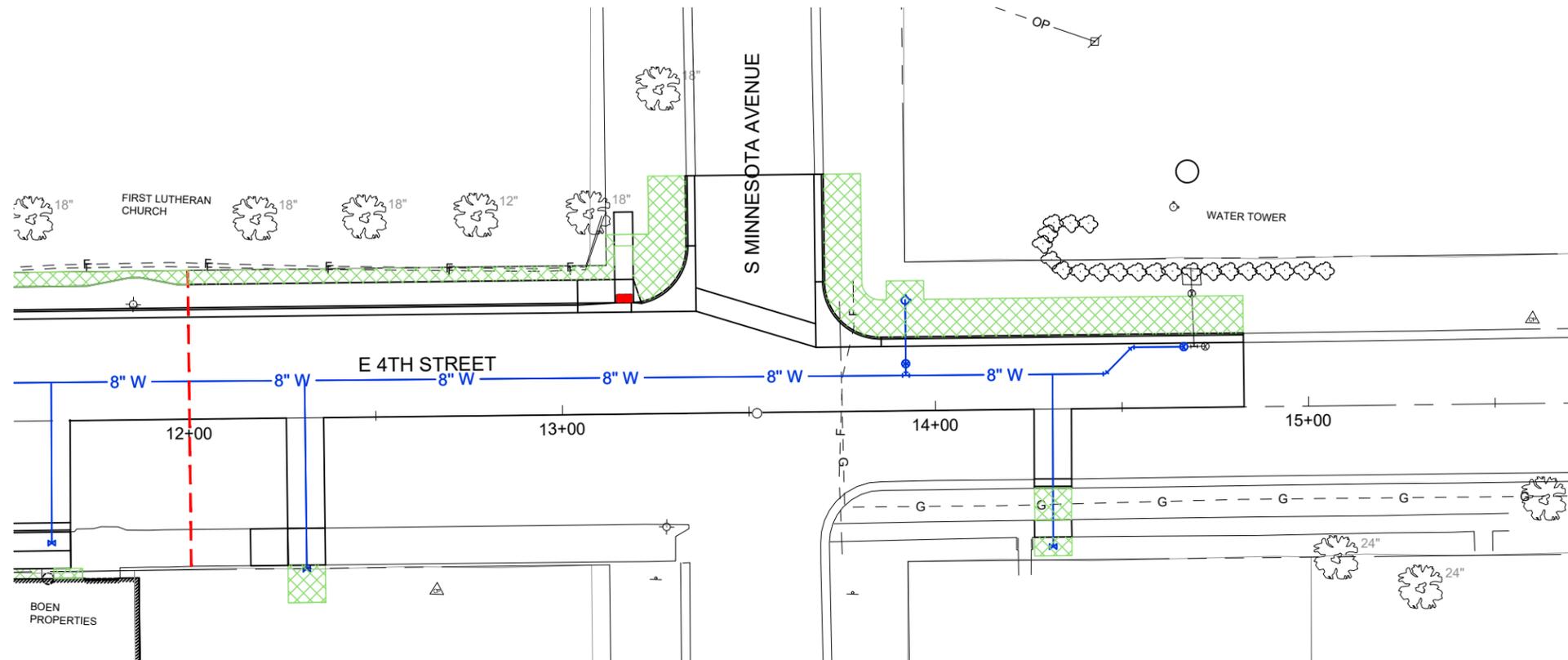
PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET	TOTAL SHEETS
35	112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



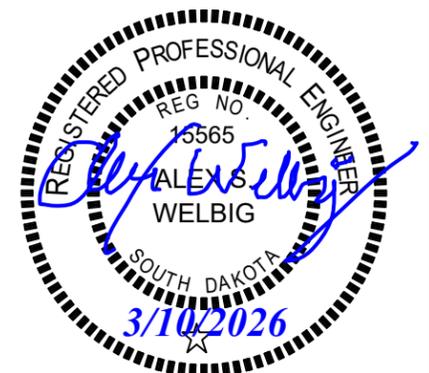
EROSION CONTROL LEGEND	
	6" TOPSOIL, SEED, FERTILIZE & MULCH
	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT AREA
	MANHOLE CONSTRUCTION PLATE MARKER
	EXISTING INLET SEDIMENT PROTECTION
	PROPOSED INLET SEDIMENT PROTECTION
	SILT FENCE
	MATCH LINE FOR QUANTITIES

QUANTITIES

- 27 CY - PLACING TOPSOIL
- 27 CY - CONTRACTOR FURNISHED TOPSOIL
- 18 LB - TYPE D PERMANENT SEED MIXTURE
- 87 LB - FERTILIZING
- 116 LB - FIBER MULCHING
- 2 HR - OPERATOR, STREET SWEEPING

NOTE:

ALL EXISTING AND PROPOSED INLETS SHALL BE PROTECTED FROM SEDIMENT DURING ALL STAGES OF CONSTRUCTION WITH INLET PROTECTION AND SILT FENCE. SEE NOTES FOR DESCRIPTIONS AND QUANTITIES OF THE ITEMS TO BE INSTALLED.



EROSION AND SEDIMENT CONTROL

BAI JOB # 24327-00

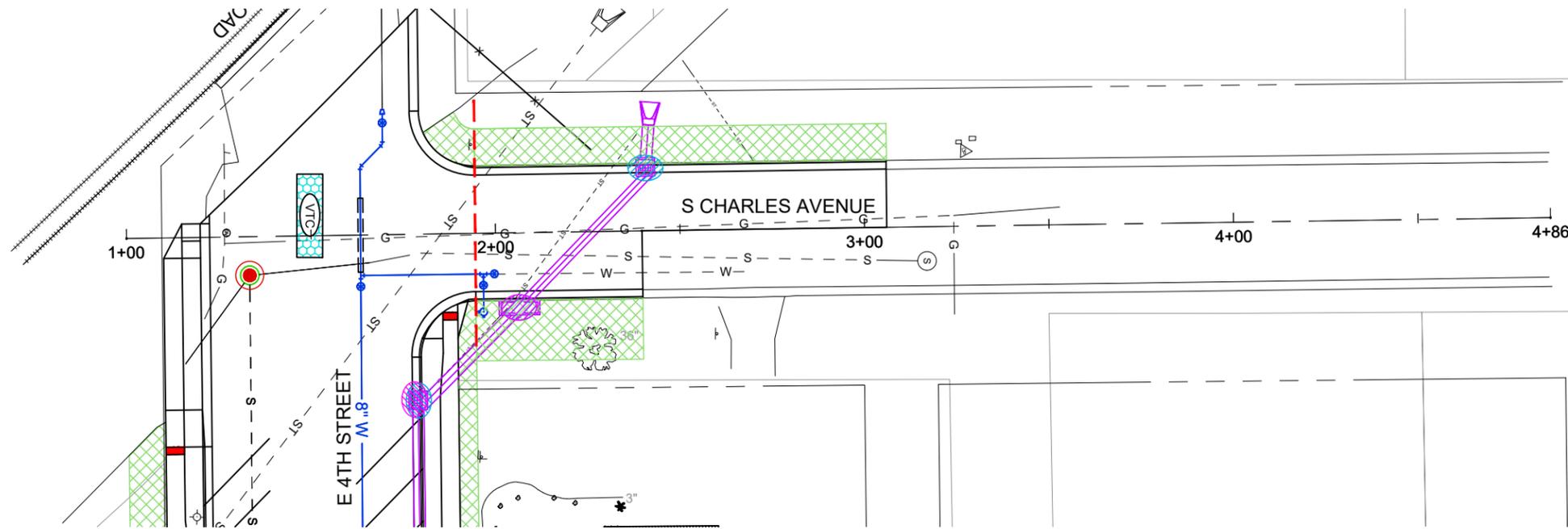
STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
36	112

Plotting Date: 03/10/2026

Rev: ---



EROSION CONTROL LEGEND	
	6" TOPSOIL, SEED, FERTILIZE & MULCH
	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT AREA
	MANHOLE CONSTRUCTION PLATE MARKER
	EXISTING INLET SEDIMENT PROTECTION
	PROPOSED INLET SEDIMENT PROTECTION
	SILT FENCE
	MATCH LINE FOR QUANTITIES

QUANTITIES

- 20 CY - PLACING TOPSOIL
- 20 CY - CONTRACTOR FURNISHED TOPSOIL
- 13 LB - TYPE D PERMANENT SEED MIXTURE
- 64 LB - FERTILIZING
- 85 LB - FIBER MULCHING
- 2 EA - SEDIMENT CONTROL AT INLET W/ FRAME AND GRATE
- 2 HR - OPERATOR, STREET SWEEPING

NOTE:

ALL EXISTING AND PROPOSED INLETS SHALL BE PROTECTED FROM SEDIMENT DURING ALL STAGES OF CONSTRUCTION WITH INLET PROTECTION AND SILT FENCE. SEE NOTES FOR DESCRIPTIONS AND QUANTITIES OF THE ITEMS TO BE INSTALLED.

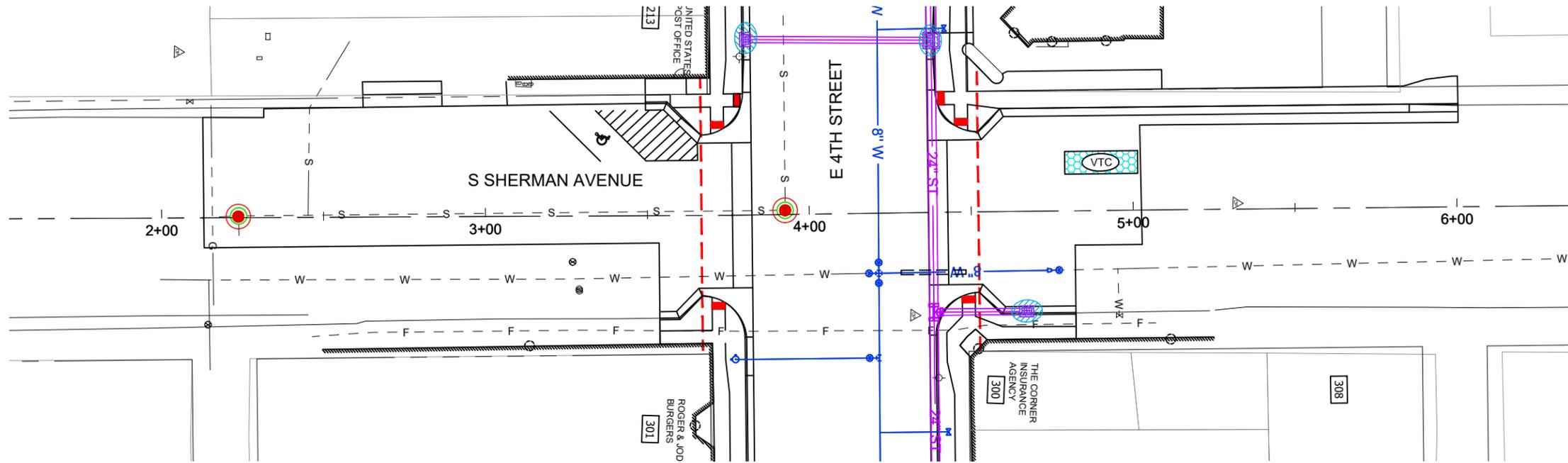


EROSION AND SEDIMENT CONTROL

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(67), CA 024A, C462135-05	SHEET 37	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



EROSION CONTROL LEGEND	
	6" TOPSOIL, SEED, FERTILIZE & MULCH
	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT AREA
	MANHOLE CONSTRUCTION PLATE MARKER
	EXISTING INLET SEDIMENT PROTECTION
	PROPOSED INLET SEDIMENT PROTECTION
	SILT FENCE
	MATCH LINE FOR QUANTITIES

QUANTITIES

- 1 EA - SEDIMENT CONTROL AT INLET W/ FRAME AND GRATE
- 2 HR - OPERATOR, STREET SWEEPING
- 1 EA - CONSTRUCTION ENTRANCE
- 1 EA - MANHOLE CONSTRUCTION PLATE MARKER (INCIDENTAL)

NOTE:
ALL EXISTING AND PROPOSED INLETS SHALL BE PROTECTED FROM SEDIMENT DURING ALL STAGES OF CONSTRUCTION WITH INLET PROTECTION AND SILT FENCE. SEE NOTES FOR DESCRIPTIONS AND QUANTITIES OF THE ITEMS TO BE INSTALLED.



HORIZONTAL ALIGNMENT DATA

4TH STREET ROADWAY CENTERLINE ALIGNMENT				
PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
1+00.00	548228.65	2866938.85	189.94	N87°18'01"E
2+89.94	548237.59	2867128.58	378.34	N87°18'01"E
6+68.28	548255.41	2867506.50	353.60	N87°24'31"E
10+21.87	548271.40	2867859.74	330.27	N87°22'40"E
13+52.14	548286.51	2868189.66	369.62	N87°22'40"E
17+21.76	548303.42	2868558.88		

CHARLES AVENUE ROADWAY CENTERLINE ALIGNMENT				
PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
1+00.00	548187.90	2867131.04	139.69	N2°50'12"W
2+39.69	548327.42	2867124.13	246.22	N2°50'12"W
4+85.91	548573.33	2867111.95		

SHERMAN AVENUE ROADWAY CENTERLINE ALIGNMENT				
PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
1+00.00	547946.18	2867520.18	113.02	N2°16'00"W
2+13.02	548059.11	2876515.71	163.25	N2°16'00"W
3+76.26	548222.23	2867509.25	66.50	N2°50'00"W
4+42.78	548288.64	2867505.96	39.20	N2°50'00"W
4+81.96	548327.80	2867504.17	20.63	N2°37'00"W
5+02.60	548348.41	2867503.23	246.22	N2°37'00"W
7+48.81	548594.38	2867492.03		

DAKOTA AVENUE ROADWAY CENTERLINE ALIGNMENT				
PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
1+00.00	547931.46	2867876.91	291.02	N2°53'00"W
3+91.02	548222.11	2867862.27	22.10	N2°53'00"W
4+13.13	548244.19	2867861.16	54.51	N3°26'19"W
4+67.63	548298.59	2867857.90	312.37	N2°36'12"W
7+80.00	548610.65	2867842.7		

MINNESOTA AVENUE ROADWAY CENTERLINE ALIGNMENT				
PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
1+00.00	548213.85	2868193.00	294.30	N2°37'52"W
3+94.30	548507.84	2868179.48		



CONTROL DATA

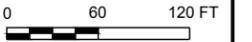
BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
39	112

Plotting Date: 03/10/2026 Rev: ---



SURVEY CONTROL POINTS							
POINT	ALIGNMENT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
200	4th Street	12+66	46.47' RT	CP-BASE	548236.134	2868105.511	1612.81
215	4th Street	6+35	405.09' RT	CP 215	547849.191	2867491.989	1604.19
217	4th Street	8+46	42.72' LT	CP 217	548306.151	2867682.594	1607.96
218	4th Street	10+65	42.44' RT	CP 218	548230.993	2867905.096	1609.13
219	4th Street	15+60	22.58' LT	CP 219	548318.590	2868396.526	1615.44
220	4th Street	10+57	197.17' LT	CP 220	548469.966	2867885.671	1613.09
221	4th Street	6+31	306.53' LT	CP 221	548559.833	2867454.505	1606.67
222	4th Street	2+69	177.61' LT	CP 222	548414.024	2867099.507	1600.26

SURVEY CONTROL POINTS							
POINT	ALIGNMENT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
223	4th Street	3+80	54.17' RT	CP 223	548187.737	2867221.339	1601.41
224	4th Street	5+83	45.19' RT	CP 224	548206.248	2867423.251	1603.47
711	4th Street	6+17	203.93' RT	CP SHERMAN WEST	548049.298	2867464.938	1603.35
2003	4th Street	7+01	22.52' LT	CP 4TH-SHERMAN	548279.383	2867538.011	1606.29
2004	4th Street	6+68	122.38' LT	CP SHERMAN	548377.623	2867500.043	1606.86
2005	4th Street	4+31	379.43' RT	CP RAILROAD	547865.227	2867287.244	1604.37
2006	4th Street	1+28	0.84' RT	CP 4TH-WEST	548229.108	2866966.563	1603.12



E 4TH STREET UTILITY

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

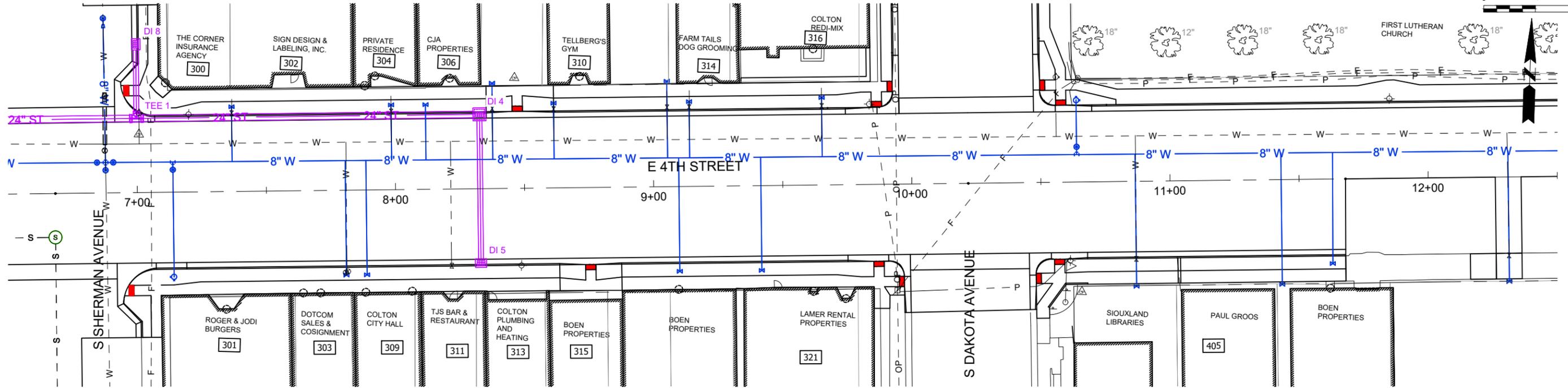
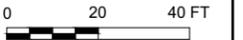
PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
42

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---



WATER:

- STA 6+88 - 12' L TO 12+00 - 11' L
512 LF - 8" DIA. PVC WATER MAIN
512 LF - TRACER WIRE
1 EA - 8" GATE VALVE WITH BOX & JOINT RESTRAINTS
1 EA - ADJUST WATER VALVE BOX
- STA 7+14 - 12' L TO STA 7+14 - 33' R
45 LF - 6" DIA. PVC WATER MAIN
45 LF - TRACER WIRE
1 EA - 8"x6" PIPE TEE W/ JOINT RESTRAINTS
1 EA - 6" GATE VALVE WITH BOX & JOINT RESTRAINTS
1 EA - ADJUST WATER VALVE BOX
1 EA - STANDARD FIRE HYDRANT
CONCRETE THRUST BLOCKS

- STA 10+64 - 11' L TO STA 10+64 - 32' L
21 LF - 6" DIA. PVC WATER MAIN
21 LF - TRACER WIRE
1 EA - 8"x6" PIPE TEE W/ JOINT RESTRAINTS
1 EA - 6" GATE VALVE WITH BOX & JOINT RESTRAINTS
1 EA - ADJUST WATER VALVE BOX
1 EA - STANDARD FIRE HYDRANT
CONCRETE THRUST BLOCKS

- REMOVE:
- STA 7+20 - 30' L
1 EA - SALVAGE FIRE HYDRANT
 - STA 10+56 - 41' L
1 EA - SALVAGE FIRE HYDRANT

1" WATER SERVICES (8" MAIN):

- PROVIDE WATER SERVICES AT APPROXIMATE LOCATIONS:
- STA 7+37 - 12' L TO 32' L - 20 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
32 SQFT PIPE INSULATION
 - STA 7+81 - 11' L TO 32' R - 43 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
32 SQFT PIPE INSULATION
 - STA 7+89 - 11' L TO 32' R - 43 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
32 SQFT PIPE INSULATION
 - STA 7+99 - 11' L TO 32' L - 21 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
32 SQFT PIPE INSULATION
 - STA 8+12 - 11' L TO 32' L - 21 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
32 SQFT PIPE INSULATION
 - STA 8+38 - 11' L TO 40' L - 29 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 8+62 - 11' L TO 32' L - 21 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 9+06 - 11' L TO 40' L - 29 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 9+10 - 11' L TO 32' R - 43 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 9+14 - 11' L TO 32' L - 21 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 9+42 - 11' L TO 32' R - 43 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 9+65 - 11' L TO 33' L - 22 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 10+87 - 11' L TO 40' R - 51 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 11+43 - 11' L TO 40' R - 51 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
 - STA 11+63 - 11' L TO 32' R - 43 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX

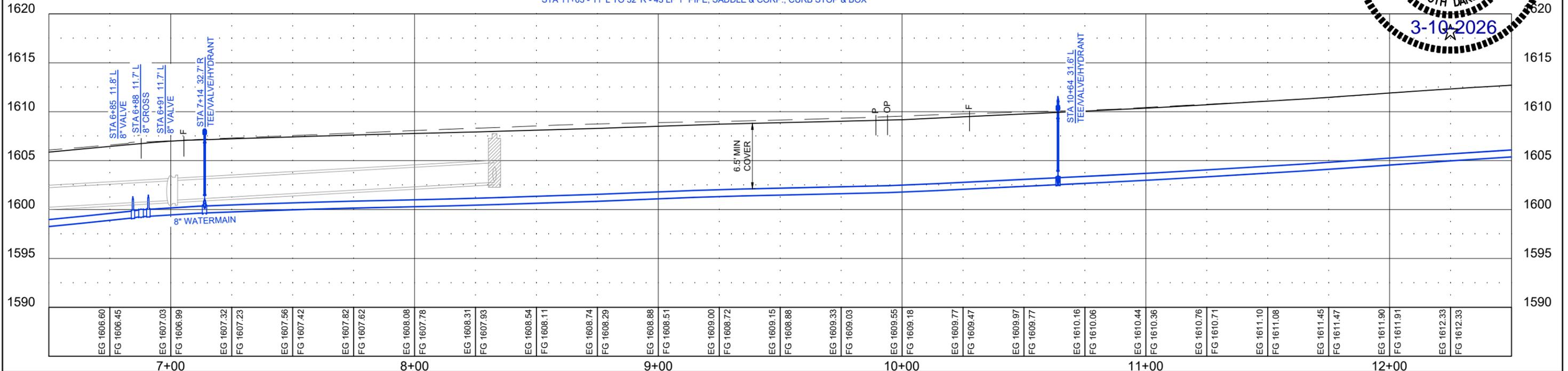
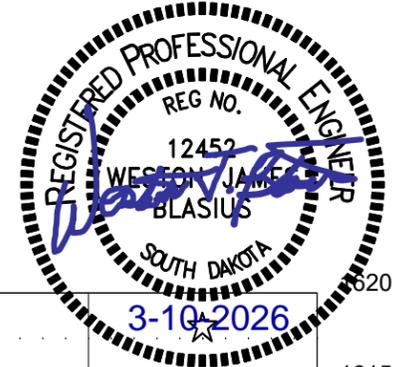
REMOVAL / ABANDONED NOTE:

ALL PIPE THAT IS REMOVED MUST BE CONSIDERED PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE. ALL PIPE THAT IS ABANDONED MUST HAVE ENDS PLUGGED WITH CONCRETE OR CAPPED.
NOTE: NOT ALL CAP LOCATIONS HAVE BEEN IDENTIFIED. ADDITIONAL CAPS MAY BE REQUIRED.

NOTE:

LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR WILL BE RESPONSIBLE TO HAVE UTILITIES AND SERVICES LOCATED PRIOR TO ANY EXCAVATION.

2" RIGID INSULATION WILL BE REQUIRED WHERE PROPOSED STORM SEWER CROSSES PROPOSED WATER SERVICES.



E 4TH STREET UTILITY

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

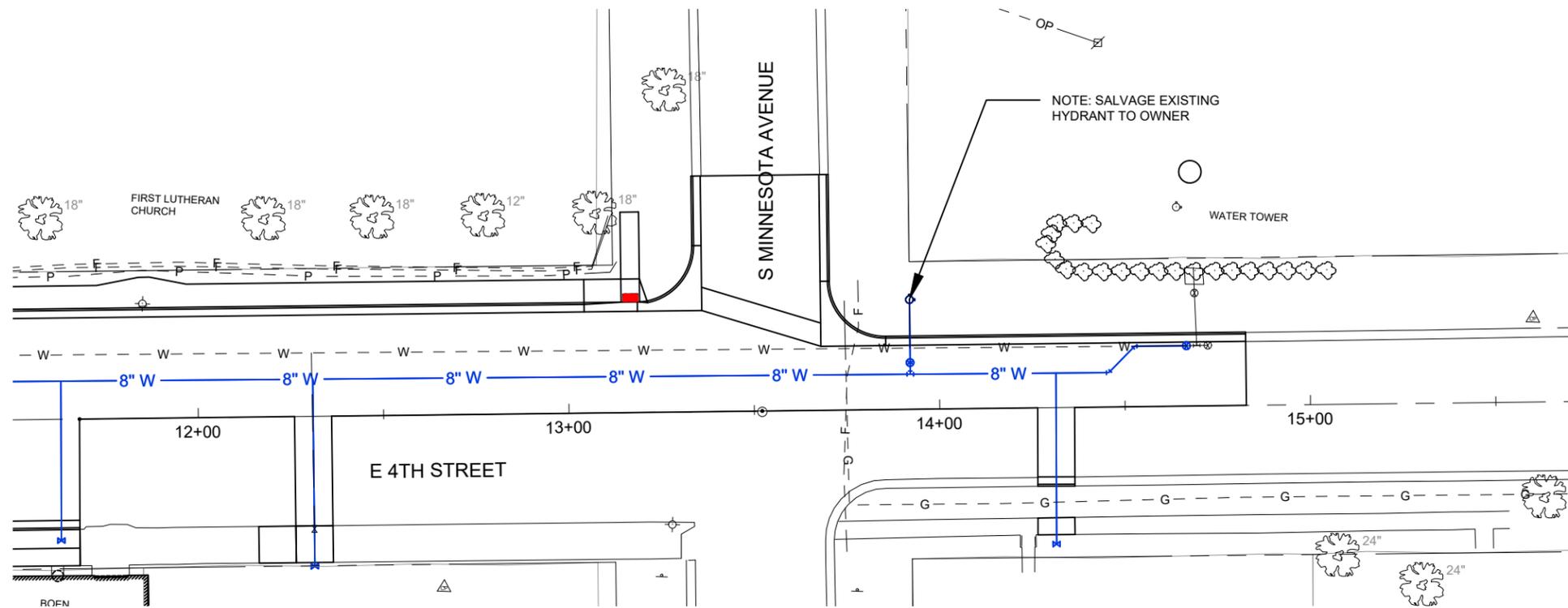
SHEET
43

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



WATER:

- STA 12+00 - 11' L TO 14+67 - 16' L
- 267 LF - 8" DIA. PVC WATER MAIN
- 267 LF - TRACER WIRE
- 2 EA - 8" MJ 45 DEG BEND W/ JOINT RESTRAINTS
- 1 EA - 8" GATE VALVE WITH BOX & JOINT RESTRAINTS
- 1 EA - ADJUST WATER VALVE BOX
- 1 EA - 8" MJ SLEEVE W/ JOINT RESTRAINTS
- 1 EA - CUT AND TIE TO EXISTING WATER MAIN
- (CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION)

- STA 13+92 - 9' L TO STA 13+92 - 30' L
- 21 LF - 6" DIA. PVC WATER MAIN
- 21 LF - TRACER WIRE
- 1 EA - 8"X6" PIPE TEE W/ JOINT RESTRAINTS
- 1 EA - 6" GATE VALVE WITH BOX & JOINT RESTRAINTS
- 1 EA - ADJUST WATER VALVE BOX
- 1 EA - STANDARD FIRE HYDRANT
- CONCRETE THRUST BLOCKS

- STA 14+72 - 16' L
- 1 EA - ADJUST WATER VALVE BOX

1" WATER SERVICES (8" MAIN):

- PROVIDE WATER SERVICES AT APPROXIMATE LOCATIONS:
- STA 12+31 - 10' L TO 40' R - 50 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX
- STA 14+31 - 9' L TO 36' R - 45 LF 1" PIPE, SADDLE & CORP., CURB STOP & BOX

- REMOVE:**
- STA 14+53 - 30' L TO 14+67 - 30' L
 - 14 LF - REMOVE 8" DIA. PVC WATER MAIN

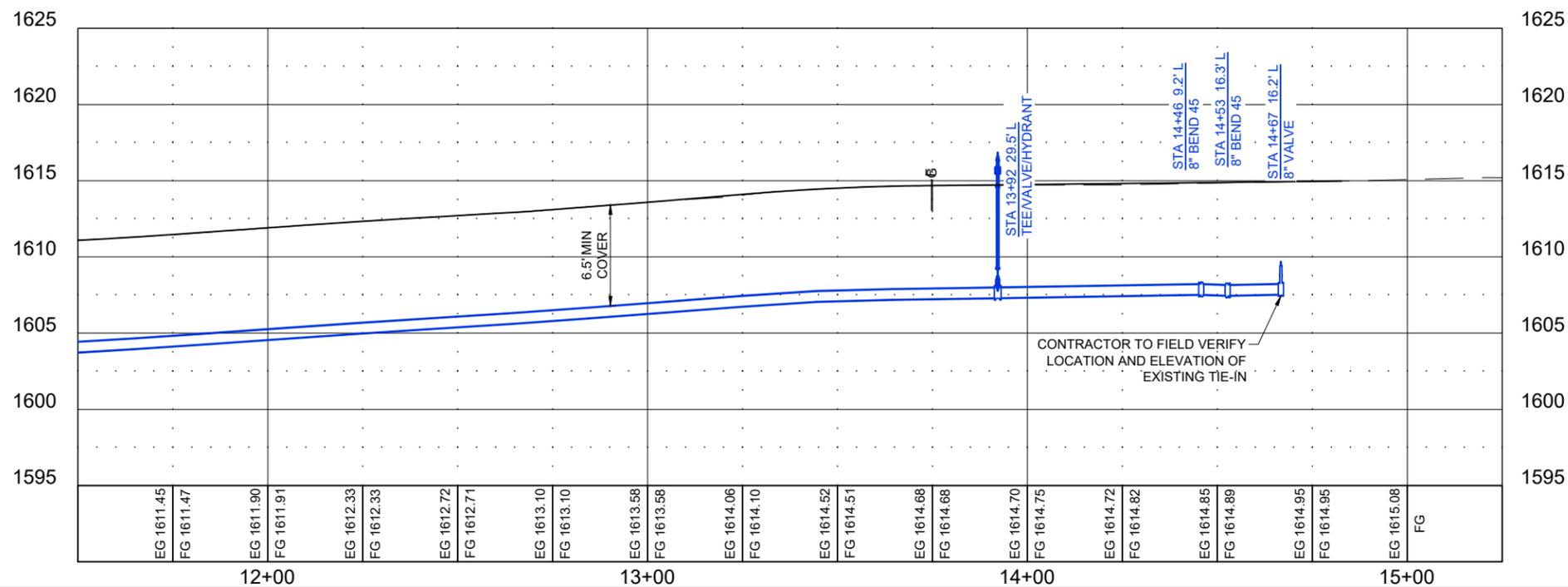
- STA 13+92 - 30' L
- 1 EA - SALVAGE FIRE HYDRANT

REMOVAL / ABANDONED NOTE:

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NOTE:

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S CHARLES AVENUE UTILITY

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

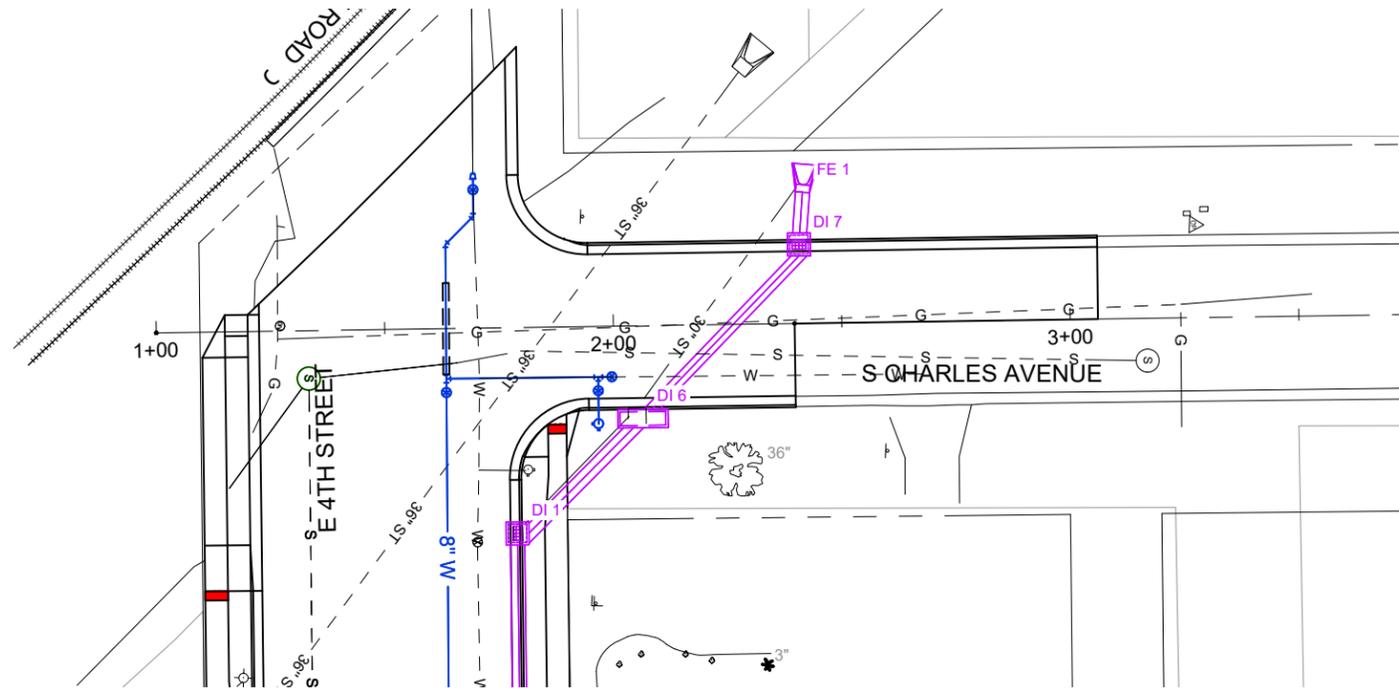
PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
44

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---

0 20 40 FT



WATER:

- STA 1+63 - 11' R TO 2+00 - 11' R
- 36 LF - 6" DIA. PVC WATER MAIN
- 36 LF - TRACER WIRE
- 1 EA - 6" GATE VALVE WITH BOX & JOINT RESTRAINTS
- 1 EA - ADJUST WATER VALVE BOX
- 1 EA - 6" MJ SLEEVE W/ JOINT RESTRAINTS
- 1 EA - CUT AND TIE TO EXISTING WATER MAIN
- (CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION)
- CONCRETE THRUST BLOCKS

STA 1+97 - 21.3' R

- 10 LF - 6" DIA. PVC WATER MAIN
- 10 LF - TRACER WIRE
- 1 EA - 6"X6" PIPE TEE W/ JOINT RESTRAINTS
- 1 EA - 6" GATE VALVE WITH BOX & JOINT RESTRAINTS
- 1 EA - ADJUST WATER VALVE BOX
- 1 EA - STANDARD FIRE HYDRANT
- CONCRETE THRUST BLOCKS

REMOVE:

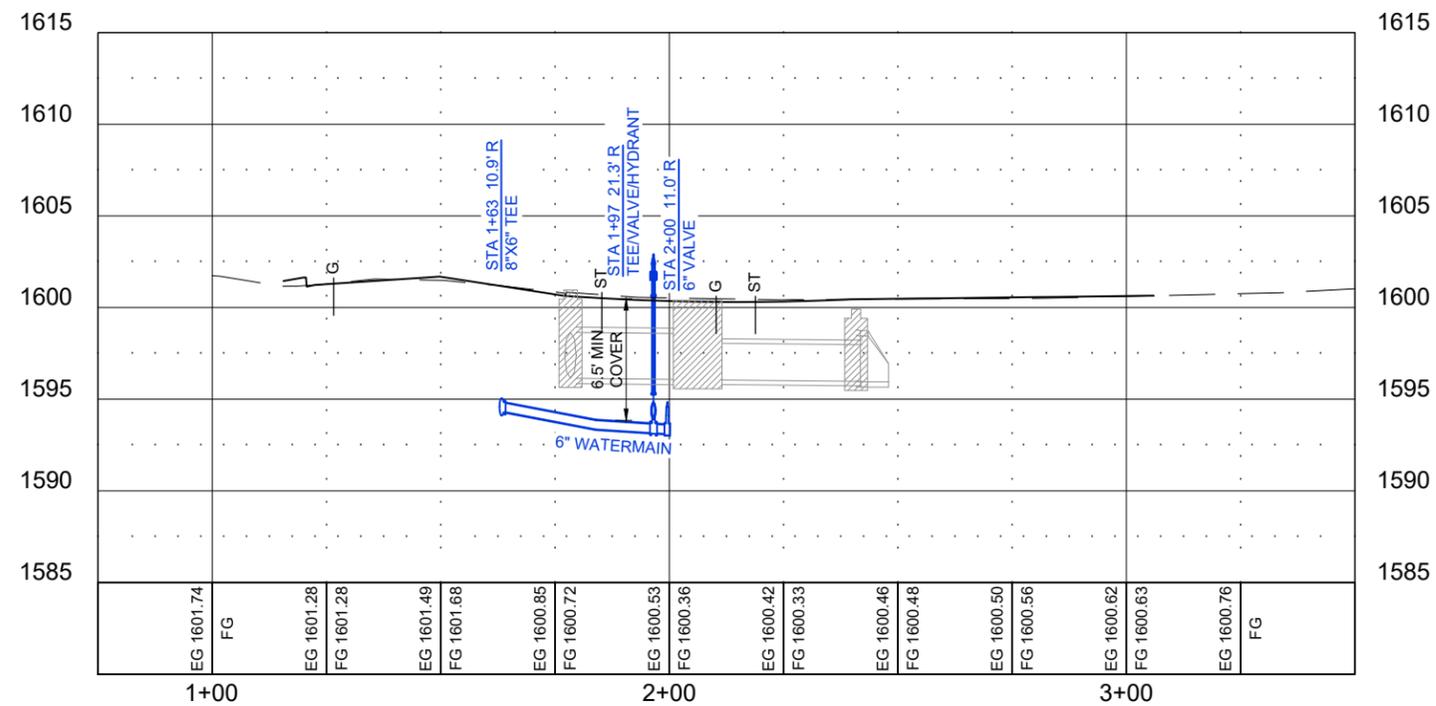
- STA 1+63 - 11' R TO 2+00 - 11' R
- 36 LF - REMOVE 6" DIA. PVC WATER MAIN

REMOVAL / ABANDONED NOTE:

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S SHERMAN AVENUE UTILITY

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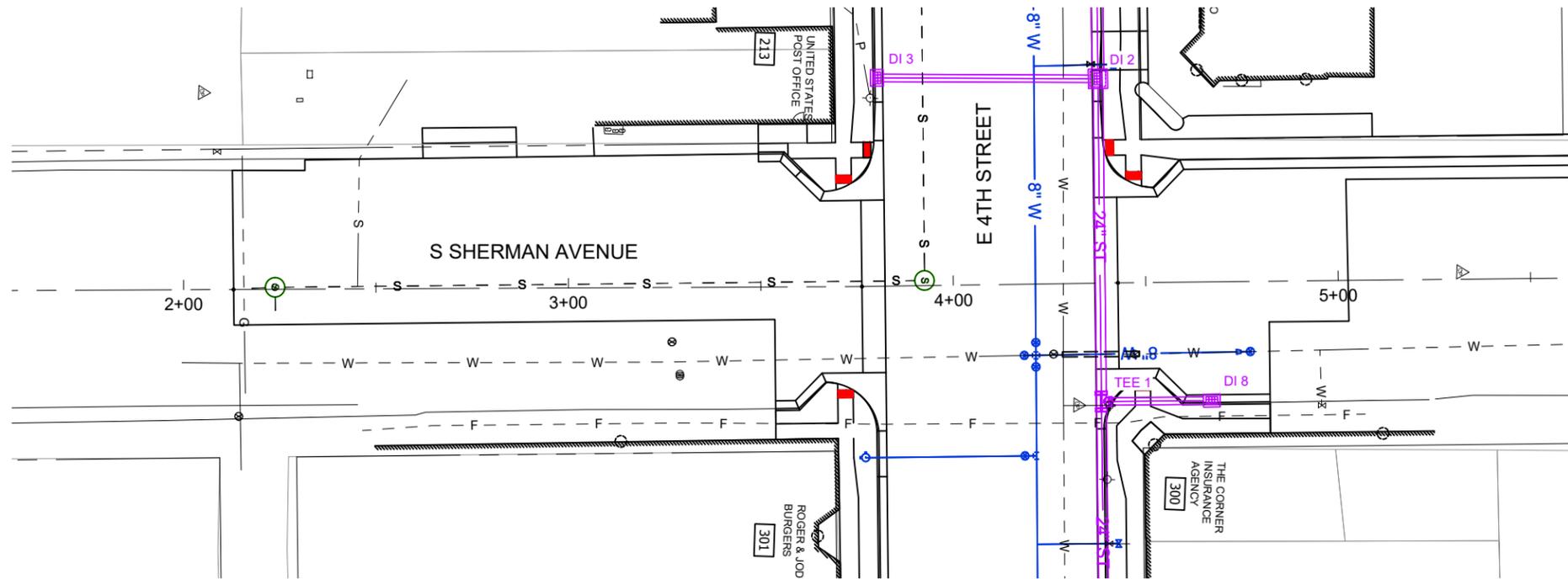
SHEET
45

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



WATER:

- STA 4+18 - 19' R TO 4+21 - 19' R**
 3 LF - 8" DIA. PVC WATER MAIN
 3 LF - TRACER WIRE
 1 EA - 8" GATE VALVE WITH BOX & JOINT RESTRAINTS
 1 EA - ADJUST WATER VALVE BOX
 1 EA - CUT AND TIE TO EXISTING WATER MAIN
 (CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION)
 1 EA - 8" MJ SLEEVE W/ JOINT RESTRAINTS

- STA 4+21 - 19' R TO 4+77 - 19' R**
 53 LF - 8" DIA. PVC WATER MAIN
 3 LF - 6" DIA. PVC WATER MAIN
 56 LF - TRACER WIRE
 20 LF - 16" PVC ENCASEMENT PIPE
 1 EA - 8"x6" PIPE REDUCER
 1 EA - 6" GATE VALVE WITH BOX & JOINT RESTRAINTS
 1 EA - ADJUST WATER VALVE BOX
 1 EA - CUT AND TIE TO EXISTING WATER MAIN
 (CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION)
 1 EA - 6" MJ SLEEVE W/ JOINT RESTRAINTS

STA 2+24 0.5' LT - ADJUST MANHOLE

- REMOVE:**
 STA 4+18 - 19' R TO 4+77 - 19' R
 59 LF - REMOVE 6" DIA. PVC WATER MAIN

- STA 4+26 - 19' R**
 1 EA - REMOVE VALVE BOX

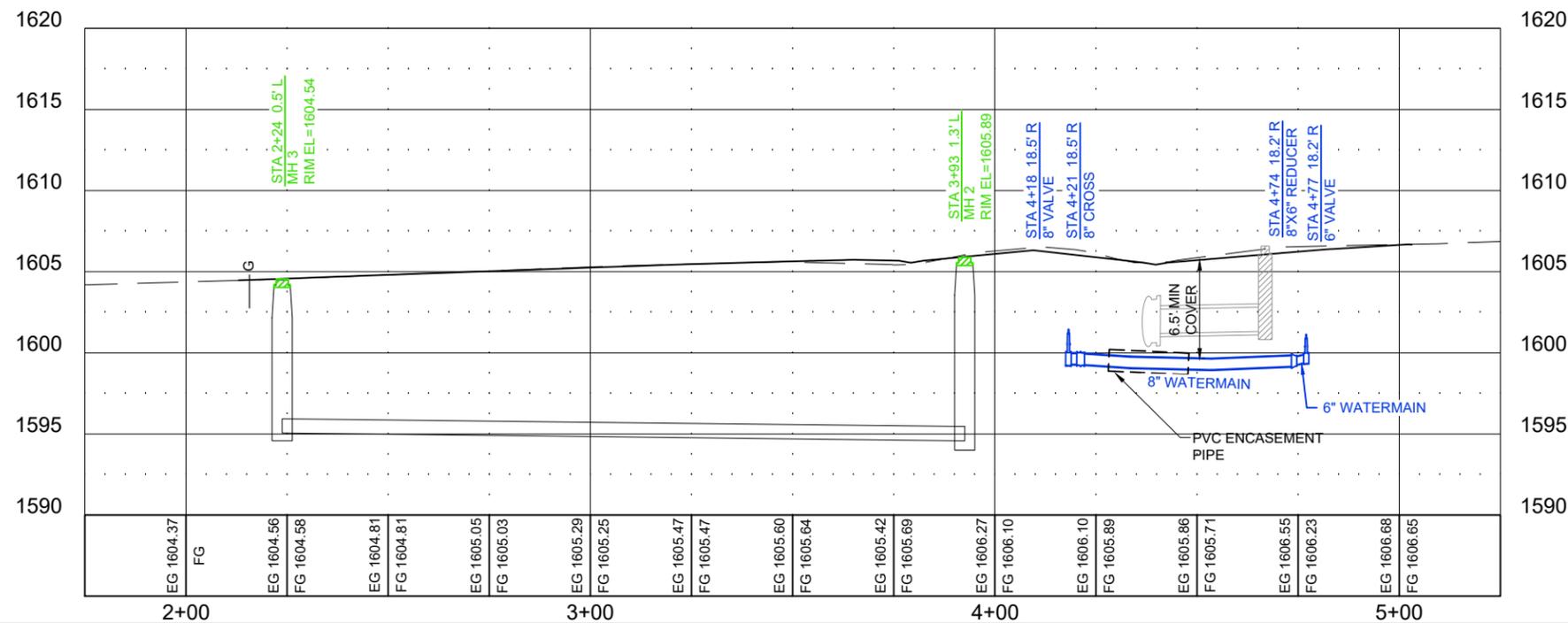
- STA 4+47 - 19' R**
 1 EA - REMOVE VALVE BOX

REMOVAL / ABANDONED NOTE:

ALL PIPE THAT IS REMOVED MUST BE CONSIDERED PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE. ALL PIPE THAT IS ABANDONED MUST HAVE ENDS PLUGGED WITH CONCRETE OR CAPPED.
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NOTE:

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E 4TH STREET UTILITY

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STATE OF SOUTH DAKOTA

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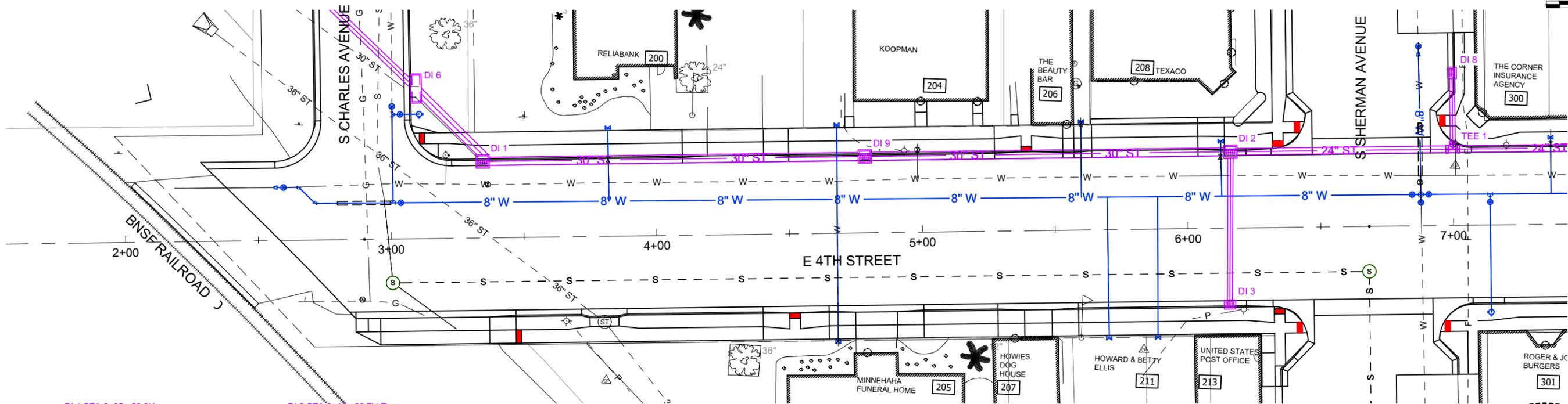
SHEET
46

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



DI 1 STA 3+35 - 28.8' L
1 EA - 4'X4' TYPE B DROP INLET
1 EA - ADJUST DROP INLET

DI 2 STA 6+16 - 28.7' L
1 EA - 4'X4' TYPE B DROP INLET
1 EA - ADJUST DROP INLET

STA 3+35 - 28.8' L TO STA 4+79 - 28.7' L
140 LF - 30" RCP CLASS 3, FURNISH
140 LF - 30" RCP, INSTALL

STA 6+16 - 28.7' L TO STA 7+00 - 28.6' L
80 LF - 24" RCP CLASS 3, FURNISH
80 LF - 24" RCP, INSTALL

DI 9 STA 4+79 - 28.7' L
1 EA - 4'X4' TYPE B DROP INLET
1 EA - ADJUST DROP INLET

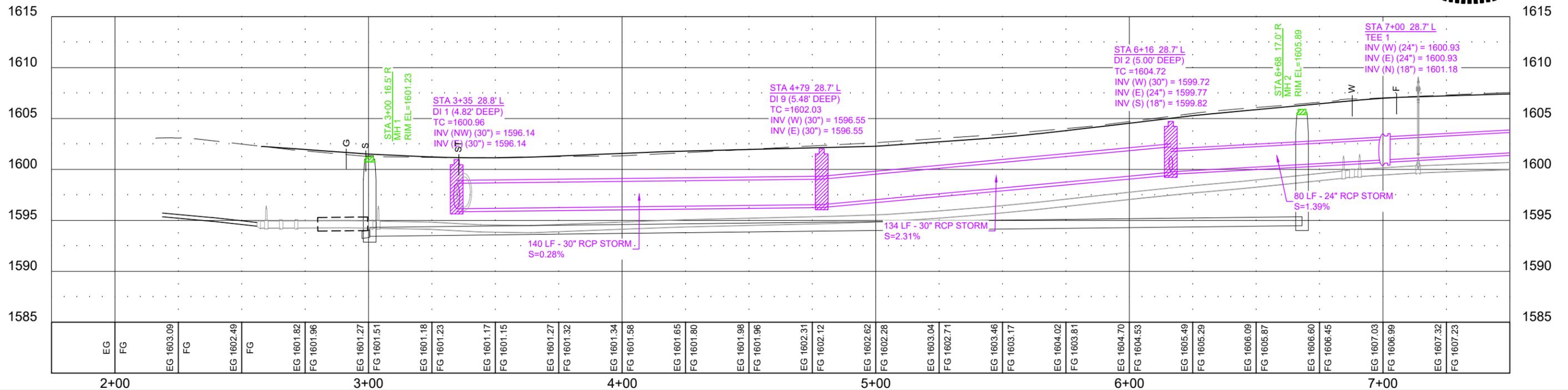
TEE 1 STA 7+00 - 28.7' L
1 EA - RCP TEE

STA 4+79 - 28.8' L TO STA 6+16 - 28.7' L
134 LF - 30" RCP CLASS 3, FURNISH
134 LF - 30" RCP, INSTALL

STA 7+00 - 28.7' L TO STA 7+25 - 28.6' L
24 LF - 24" RCP CLASS 3, FURNISH
24 LF - 24" RCP, INSTALL

REMOVAL / ABANDONED NOTE:
ALL PIPE THAT IS REMOVED MUST BE CONSIDERED PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE. ALL PIPE THAT IS ABANDONED MUST HAVE ENDS PLUGGED WITH CONCRETE OR CAPPED.
NOTE: NOT ALL CAP LOCATIONS HAVE BEEN IDENTIFIED. ADDITIONAL CAPS MAY BE REQUIRED.

NOTE:
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E 4TH STREET UTILITY

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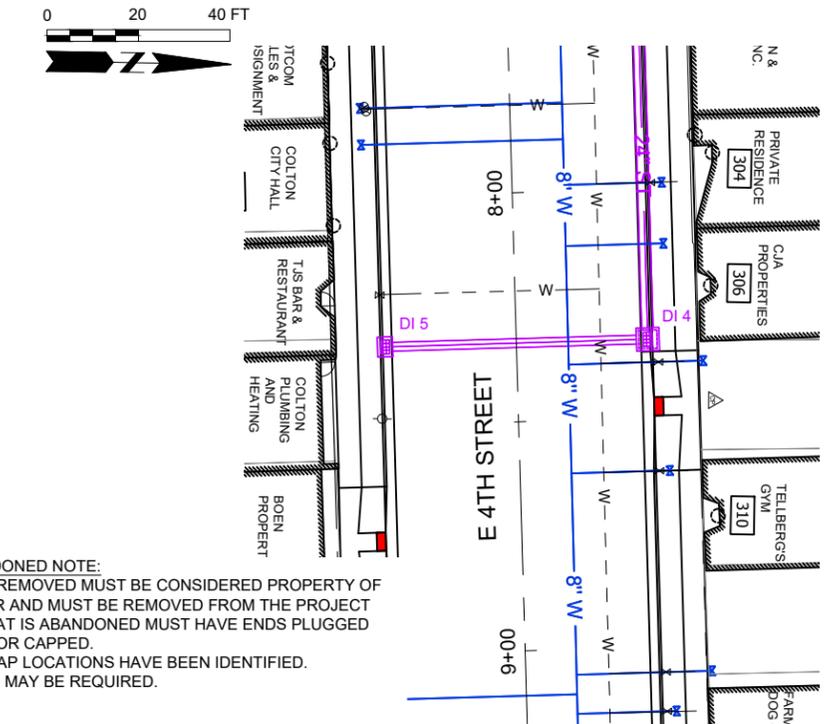
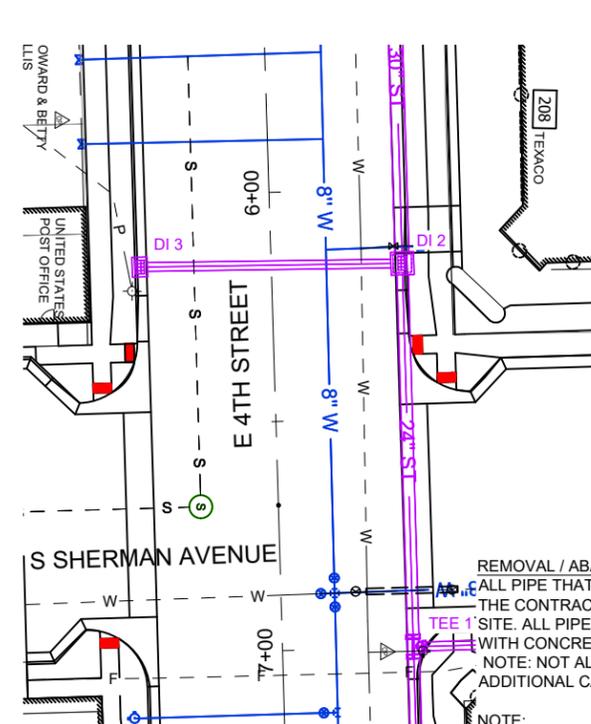
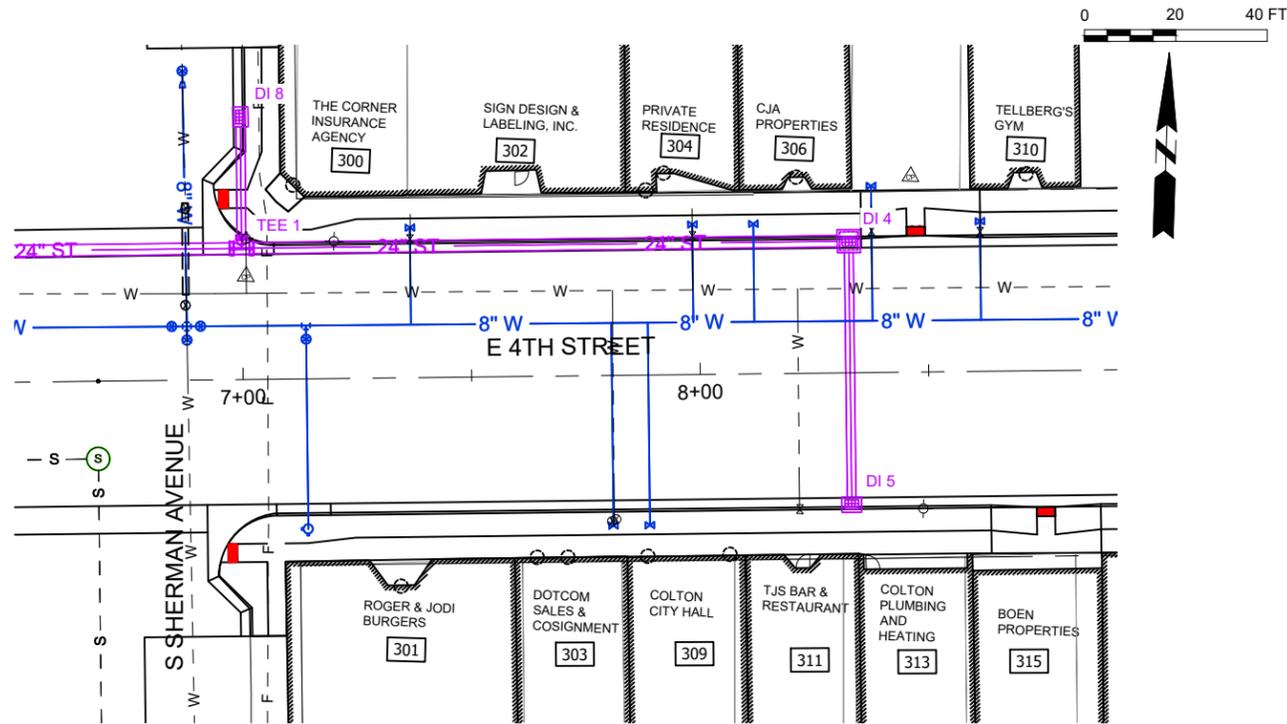
STATE OF SOUTH DAKOTA

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SHEET
47

TOTAL SHEETS
112

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STA 7+25 - 28.6' LT TO STA 8+33 - 28.8' LT
107 LF - 24" RCP CLASS 3, FURNISH
107 LF - 24" RCP, INSTALL

DI 4 STA 8+33 - 28.8' LT
1 EA - 4'X4' TYPE B DROP INLET
1 EA - ADJUST DROP INLET

REMOVAL / ABANDONED NOTE:
ALL PIPE THAT IS REMOVED MUST BE CONSIDERED PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE. ALL PIPE THAT IS ABANDONED MUST HAVE ENDS PLUGGED WITH CONCRETE OR CAPPED.
NOTE: NOT ALL CAP LOCATIONS HAVE BEEN IDENTIFIED. ADDITIONAL CAPS MAY BE REQUIRED.

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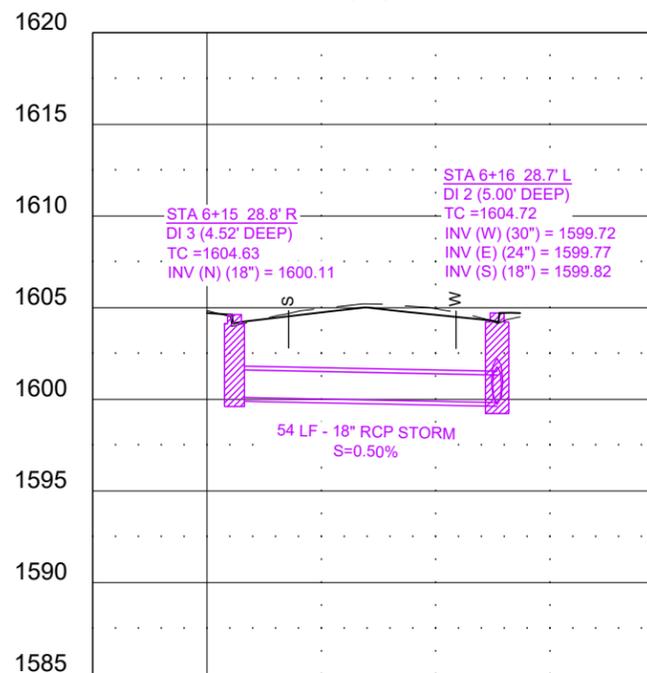
DI 3 STA 6+15 - 28.8' RT
1 EA - TYPE B INLET 3'X2'
1 EA - ADJUST INLET

STA 6+15 - 28.8' RT TO STA 6+16 - 28.7' LT
54 LF - 18" RCP CLASS 3, FURNISH
54 LF - 18" RCP, INSTALL

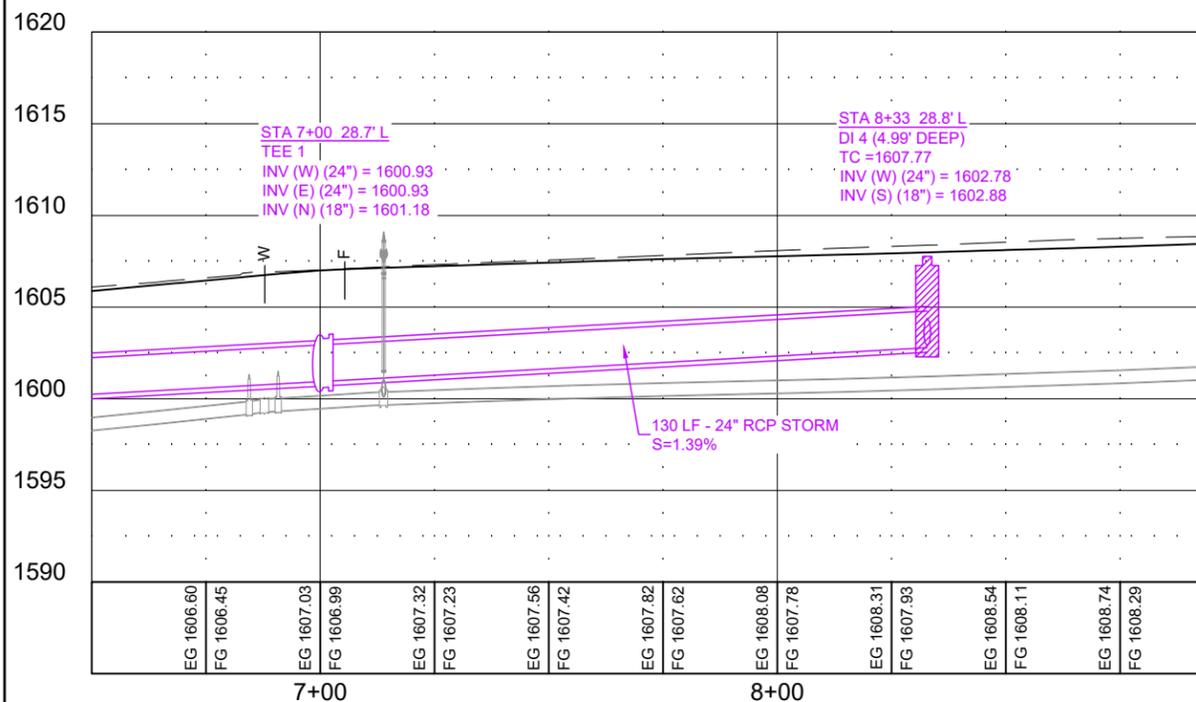
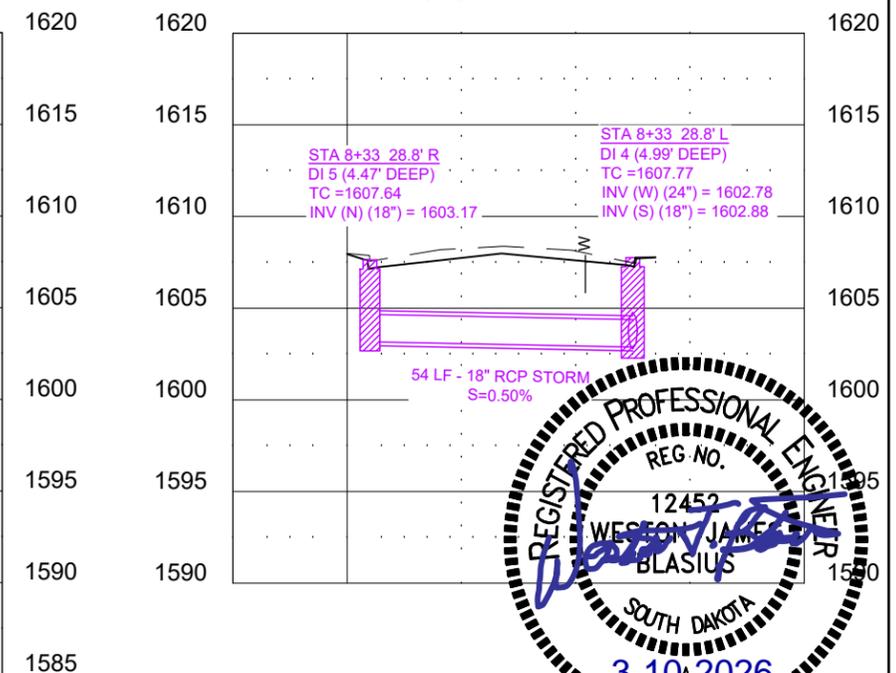
DI 5 STA 8+33 - 28.8' RT
1 EA - TYPE B INLET 3'X2'
1 EA - ADJUST INLET

STA 8+33 - 28.8' RT TO 28.8' LT
55 LF - 18" RCP CLASS 3, FURNISH
55 LF - 18" RCP, INSTALL

STA 6+16 CROSSING
DI 3 TO DI 2



STA 8+33 CROSSING
DI 5 TO DI 4



S CHARLES AVENUE UTILITY

BAI JOB # 24327-00

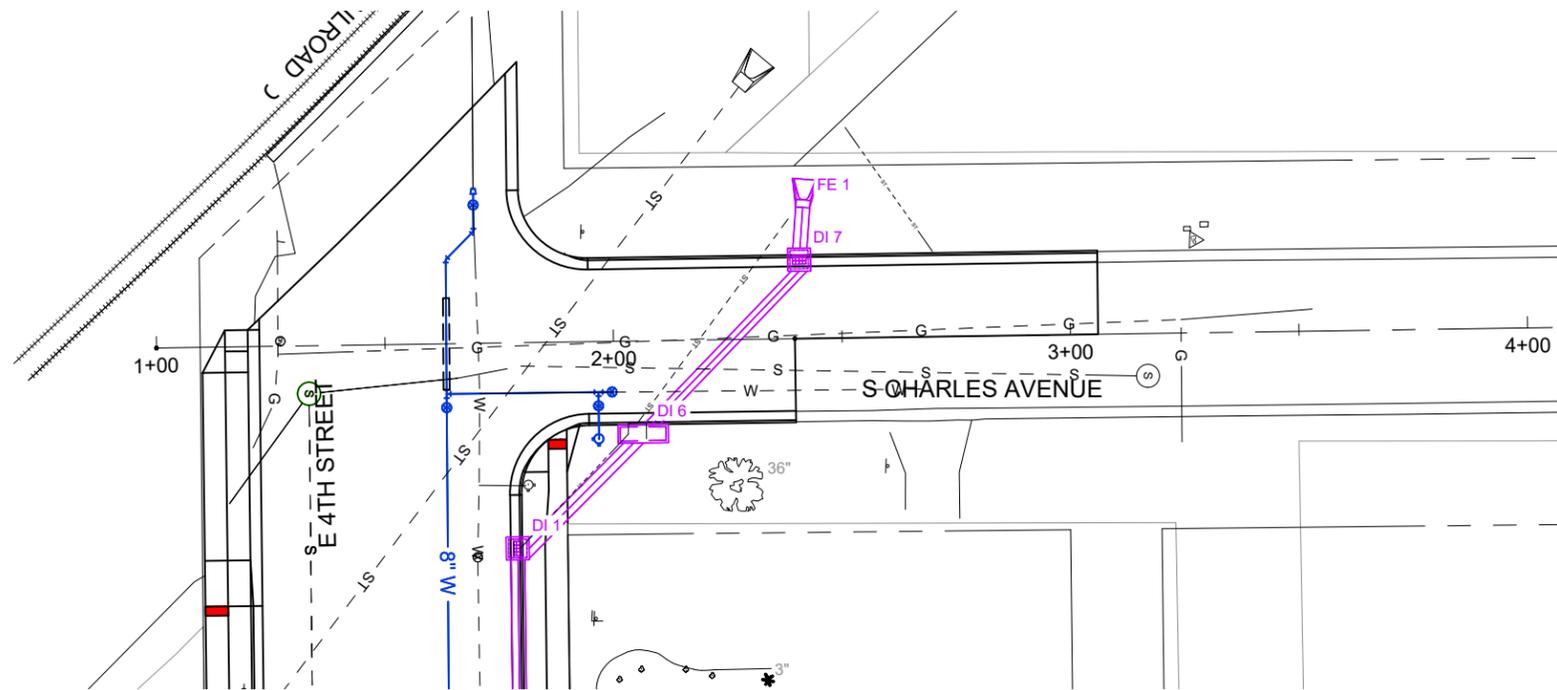
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
48

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



STA 1+78 - 44.9' RT TO STA 2+06 - 20.3' RT
34 LF - 30" RCP CLASS 3, FURNISH
34 LF - 30" RCP, INSTALL

STA 2+41 - 17.2' LT TO STA 2+42 - 28.6' LT
9 LF - 30" RCP CLASS 3, FURNISH
9 LF - 30" RCP, INSTALL

REMOVE:
STA 1+77 - 45' R TO 2+42 - 29' L
100 LF - REMOVE 30" STORM SEWER PIPE

DI 6 STA 2+06 - 20.3' RT
3.6 CY - CLASS M6 CONCRETE
595 LB - REINFORCING STEEL
1 EA - SPECIAL FRAME AND GRATE ASSEMBLY

FE 1 STA 2+42 - 28.6' LT
1 EA - 30" RCP FLARED END

STA 1+77 45' R
1 EA - REMOVE DROP INLET

STA 2+06 - 20.3' RT TO STA 2+41 - 17.2' LT
48 LF - 30" RCP ARCH CLASS 3, FURNISH
48 LF - 30" RCP ARCH, INSTALL

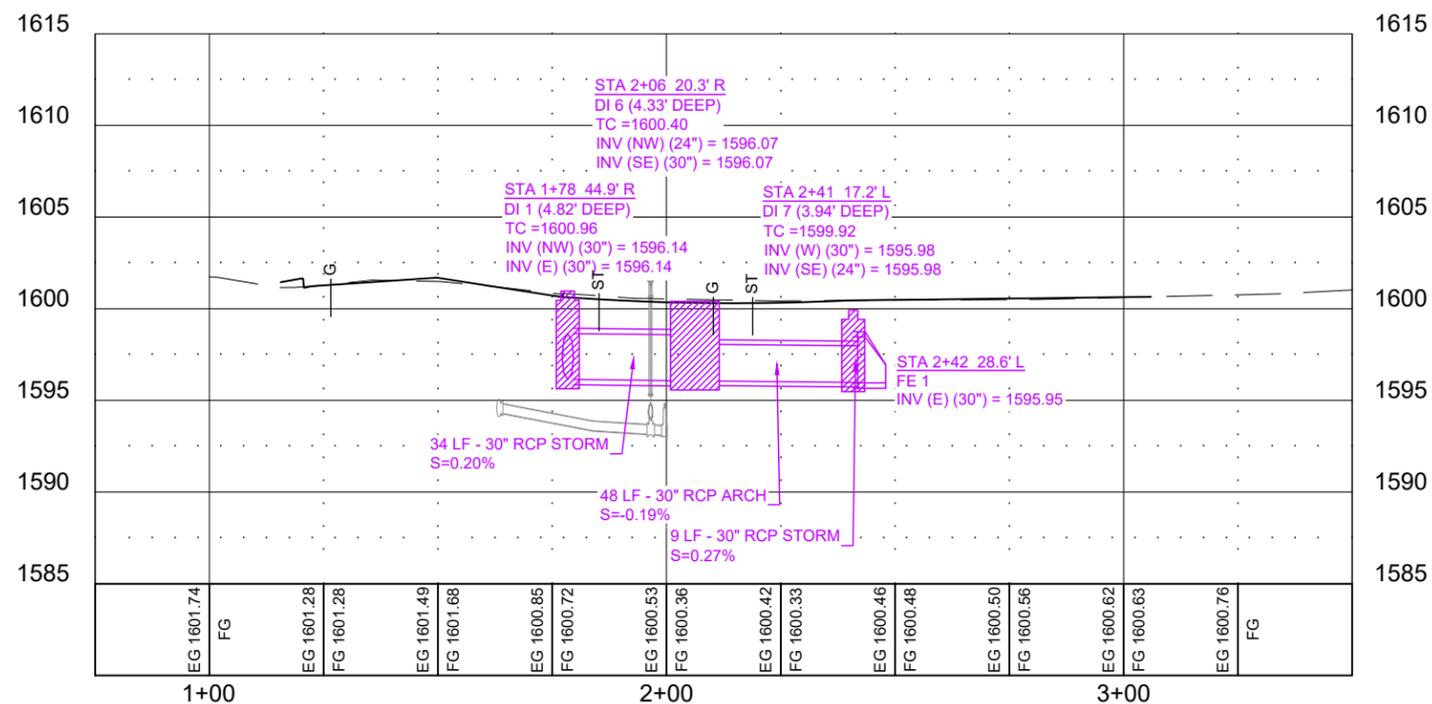
STA 2+06 20' R
1 EA - REMOVE DROP INLET

DI 7 STA 2+41 - 17.2' LT
1 EA - TYPE B DROP INLET 4'X4'
1 EA - ADJUST DROP INLET

STA 2+42 - 29' L
1 EA - REMOVE PIPE END SECTION

REMOVAL / ABANDONED NOTE:
ALL PIPE THAT IS REMOVED MUST BE CONSIDERED PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE. ALL PIPE THAT IS ABANDONED MUST HAVE ENDS PLUGGED WITH CONCRETE OR CAPPED.
NOTE: NOT ALL CAP LOCATIONS HAVE BEEN IDENTIFIED. ADDITIONAL CAPS MAY BE REQUIRED.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR WILL BE RESPONSIBLE TO HAVE UTILITIES AND SERVICES LOCATED PRIOR TO ANY EXCAVATION.



S SHERMAN AVENUE UTILITY

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

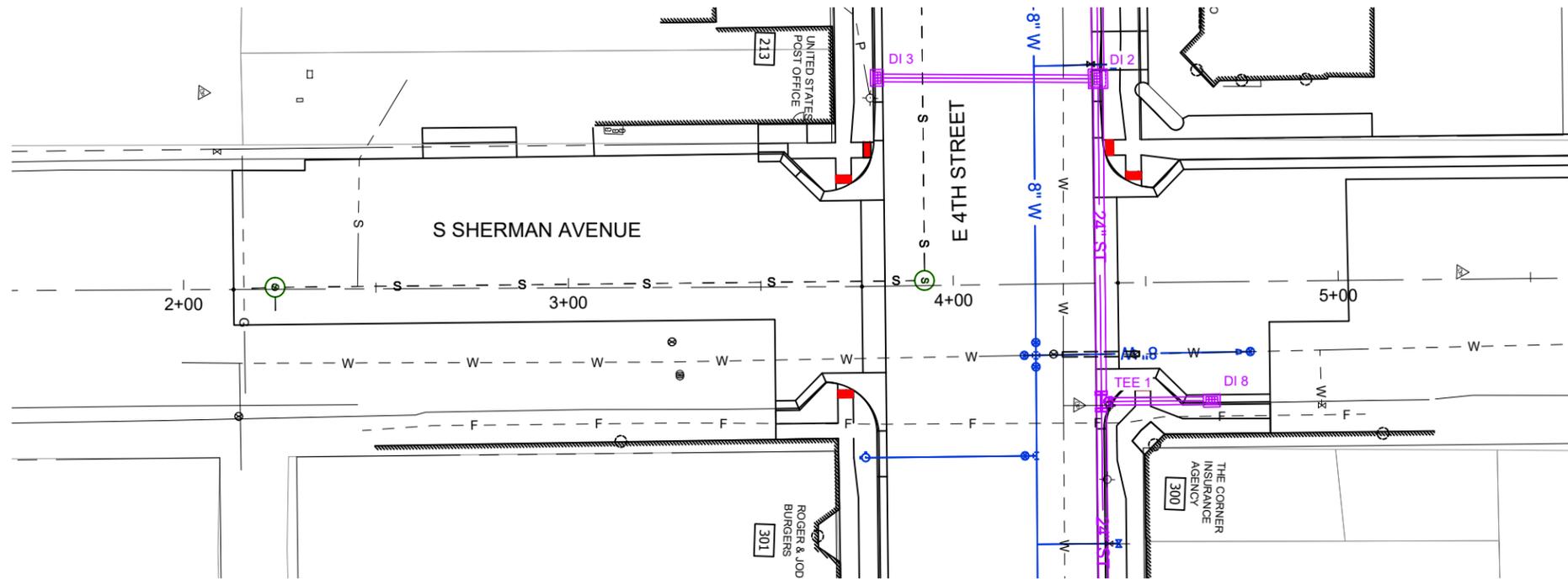
PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
49

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---



STA 4+38 - 30.7' RT TO STA 4+67 30.8' RT
26 LF - 18" RCP CLASS 3, FURNISH
26 LF - 18" RCP, INSTALL

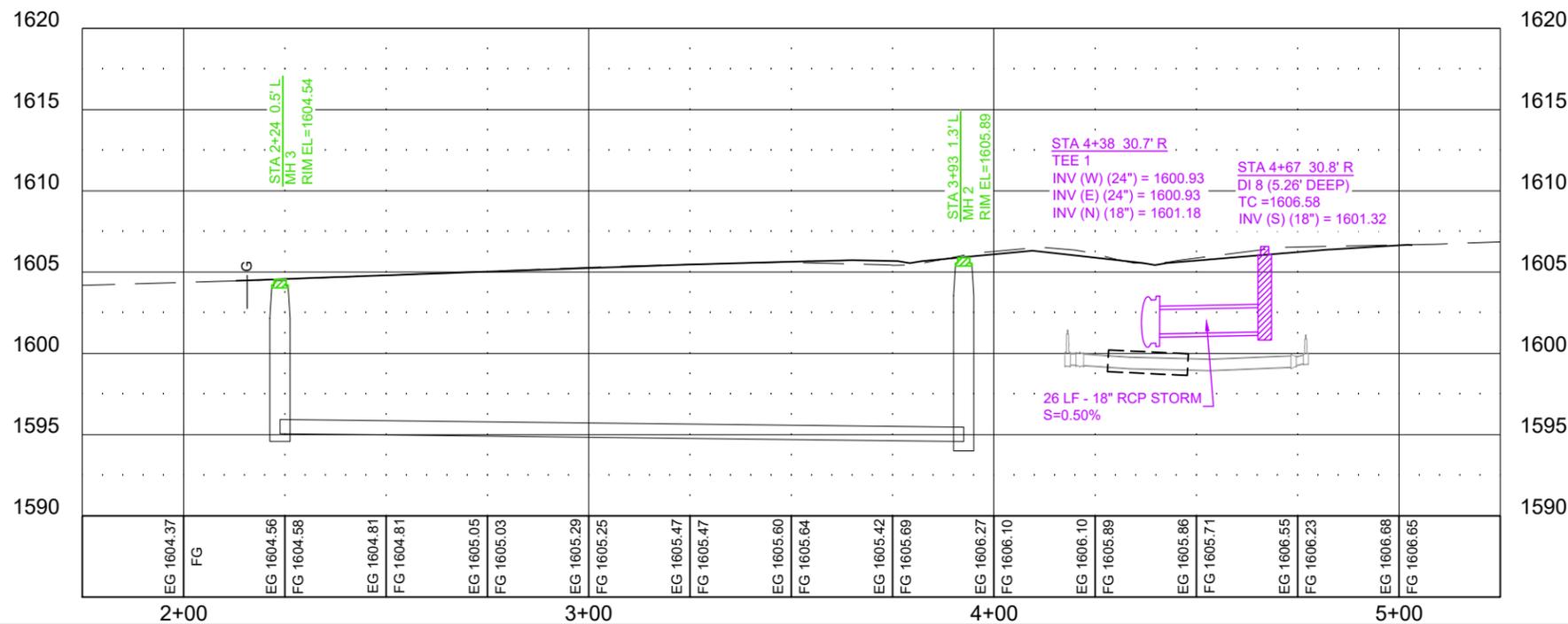
DI 8 STA 4+67 - 30.8' RT
1 EA - TYPE B INLET 3'X2'
1 EA - ADJUST INLET

REMOVAL / ABANDONED NOTE:

ALL PIPE THAT IS REMOVED MUST BE CONSIDERED PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE. ALL PIPE THAT IS ABANDONED MUST HAVE ENDS PLUGGED WITH CONCRETE OR CAPPED.
NOTE: NOT ALL CAP LOCATIONS HAVE BEEN IDENTIFIED. ADDITIONAL CAPS MAY BE REQUIRED.

NOTE:

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PROPERTY INFORMATION AND EASEMENTS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
50	112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



LEGEND:

 TEMPORARY CONSTRUCTION EASEMENT



PROPERTY INFORMATION AND EASEMENTS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
51	112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



LEGEND:

 TEMPORARY CONSTRUCTION EASEMENT



PROPERTY INFORMATION AND EASEMENTS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

52

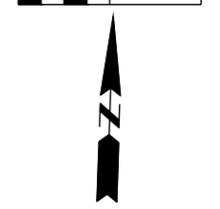
TOTAL
SHEETS

112

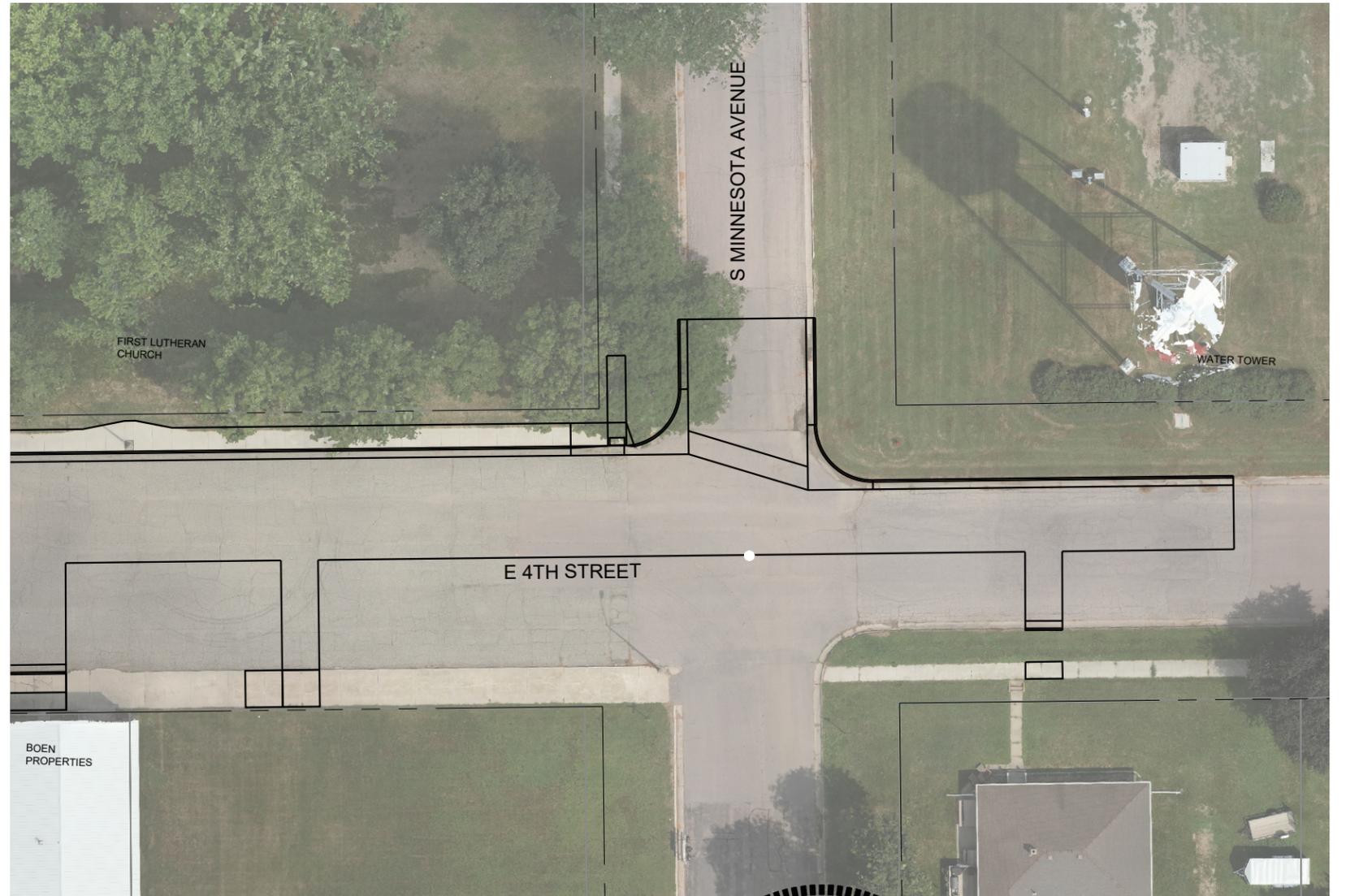
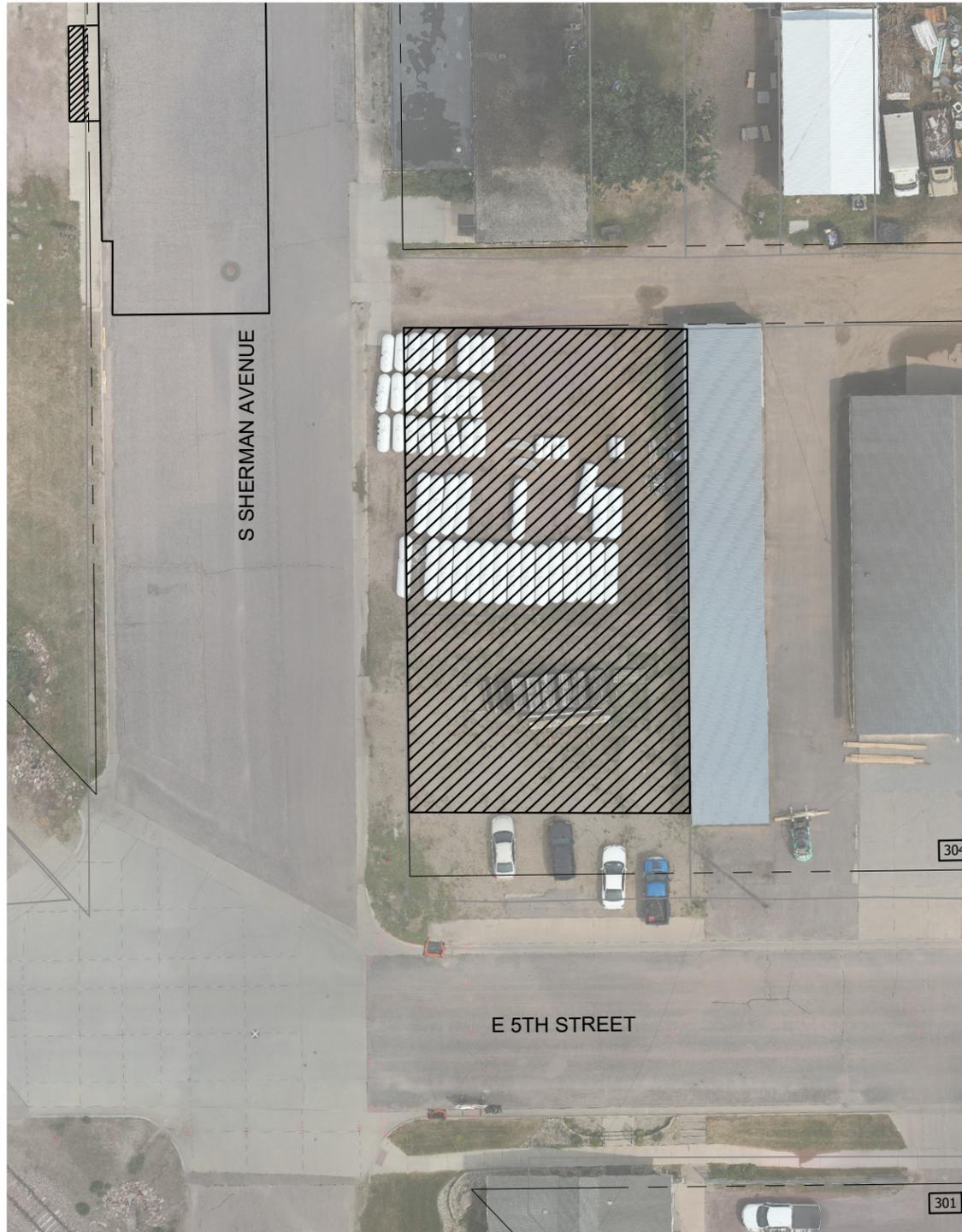
Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



0 20 40 FT



LEGEND:



REMOVALS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT

PTAPR(67), CA 024A, C462135-05

SHEET

53

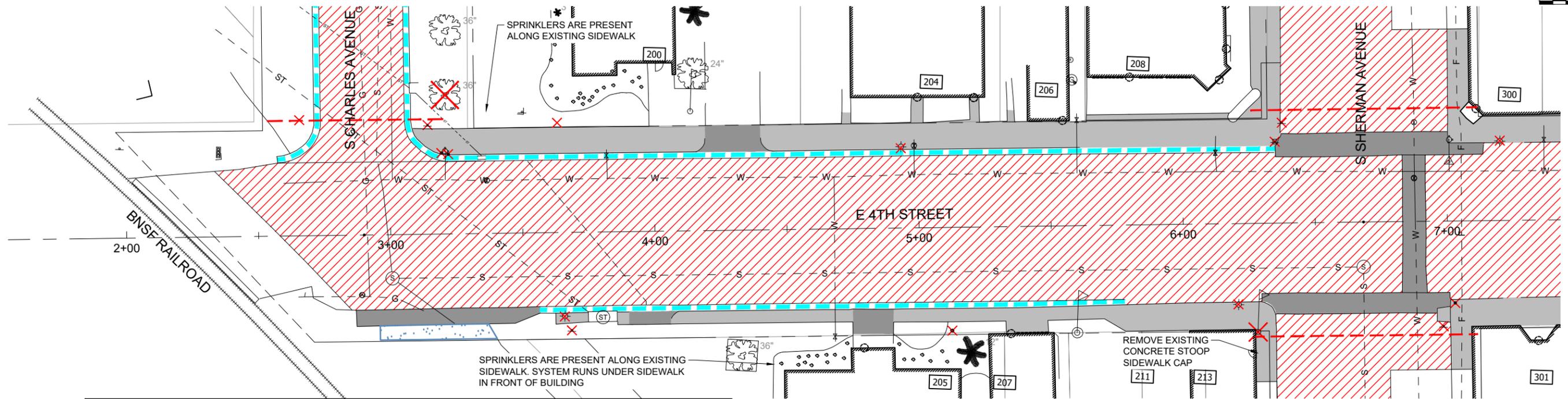
TOTAL SHEETS

112

Plotting Date: 03/10/2026

Rev: ---

0 20 40 FT



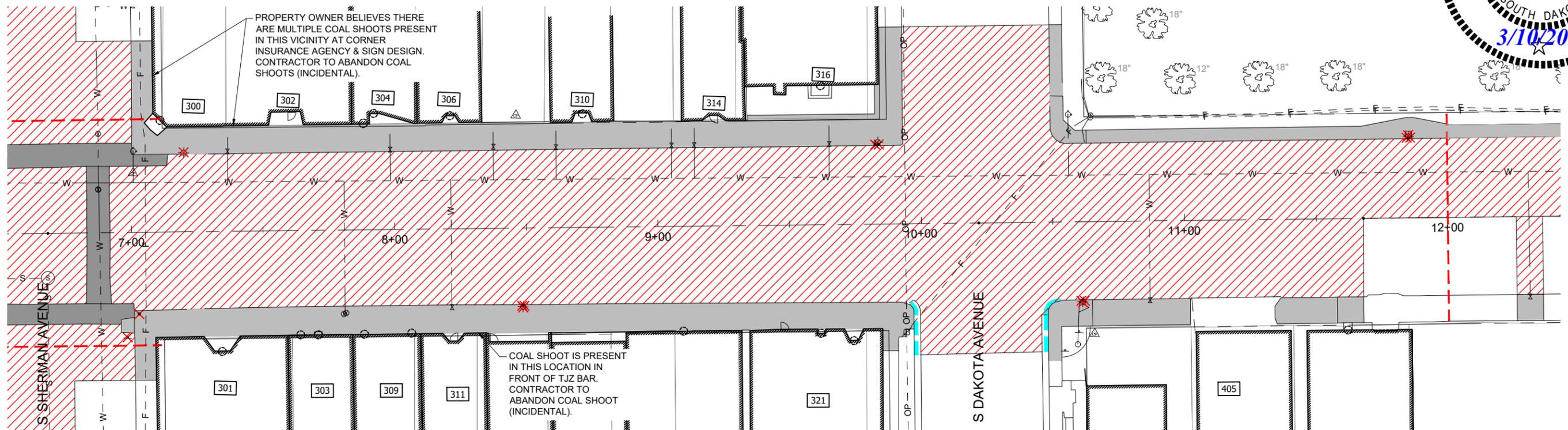
REMOVAL LEGEND	
	REMOVAL OF ASPHALT CONCRETE PAVEMENT
	REMOVAL OF CONCRETE SIDEWALK
	REMOVAL OF CONCRETE PAVEMENT
	REMOVAL OF GRAVEL SURFACE (INCIDENTAL)
	FULL DEPTH RECLAMATION
	REMOVAL OF CURB AND GUTTER
	MATCH LINE FOR QUANTITIES
	CLEAR AND GRUB TREE -- REMOVE STUMP (BY OTHERS)
	REMOVE & RESET: TRAFFIC SIGN -- MAILBOX
	REMOVE: POWER POLE -- LIGHT POLE

QUANTITIES:

- 566 LF - REMOVE CONCRETE CURB & GUTTER
- 6417 SY - REMOVE ASPHALT CONCRETE PAVEMENT
- 273 SY - REMOVE CONCRETE PAVEMENT
- 1432 SY - REMOVE CONCRETE SIDEWALK
- 245 LF - SAW EXISTING ASPHALT (INCIDENTAL)
- 25 LF - SAW EXISTING PCC CONCRETE (INCIDENTAL)
- 1714 CY - UNCLASSIFIED EXCAVATION
- 11 EA - REMOVE SIGN FOR RESET
- 7 EA - REMOVE LUMINAIRE POLE FOOTING

NOTE:

LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR WILL BE RESPONSIBLE TO HAVE ALL THE UTILITIES AND SERVICES LOCATED PRIOR TO ANY EXCAVATION



REMOVALS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET
54

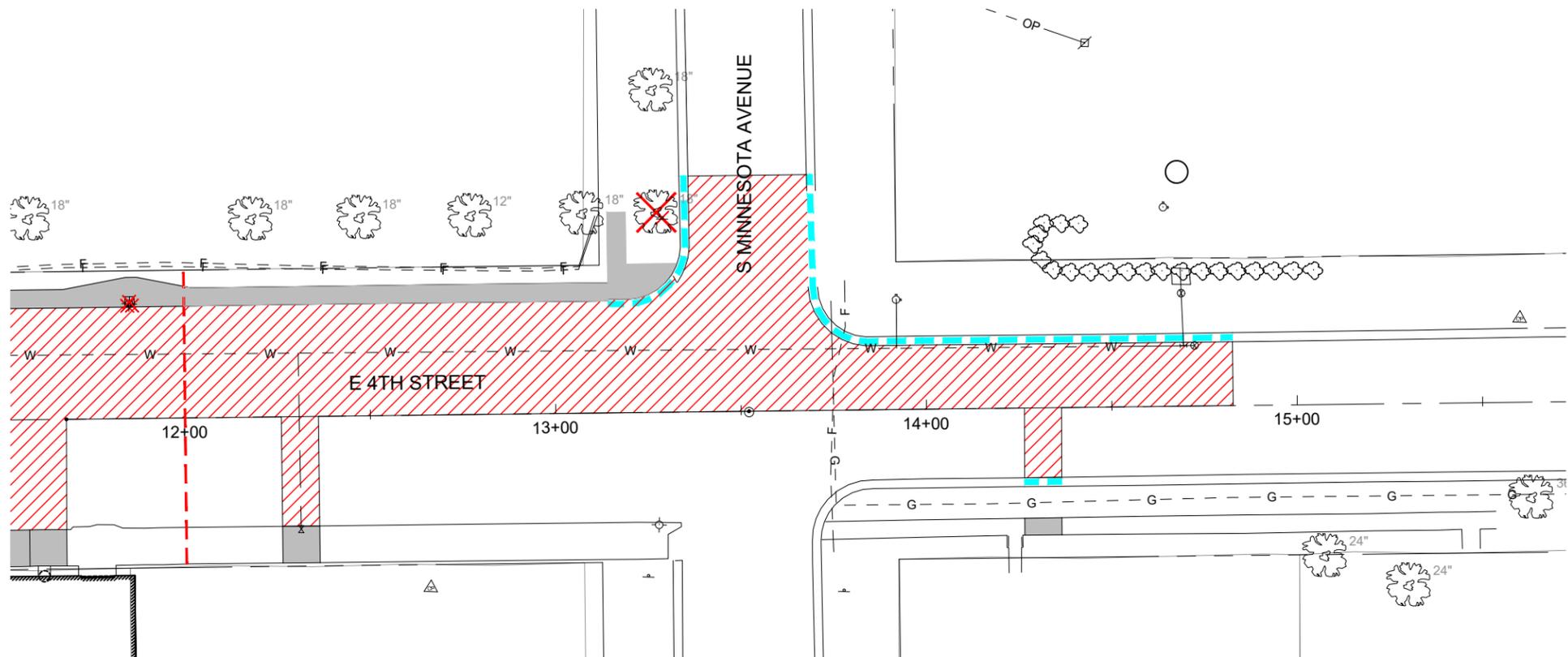
TOTAL SHEETS
112

Plotting Date:

03/10/2026

Rev: ---

0 20 40 FT



NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR WILL BE RESPONSIBLE TO HAVE ALL THE UTILITIES AND SERVICES LOCATED PRIOR TO ANY EXCAVATION.

REMOVAL LEGEND

	REMOVAL OF ASPHALT CONCRETE PAVEMENT		REMOVAL OF CURB AND GUTTER
	REMOVAL OF CONCRETE SIDEWALK		MATCH LINE FOR QUANTITIES
	REMOVAL OF CONCRETE PAVEMENT		CLEAR AND GRUB TREE -- REMOVE STUMP (BY OTHERS)
	REMOVAL OF GRAVEL SURFACE (INCIDENTAL)		REMOVE & RESET: TRAFFIC SIGN -- MAILBOX
	FULL DEPTH RECLAMATION		REMOVE: POWER POLE -- LIGHT POLE

QUANTITIES:

- 210 LF - REMOVE CONCRETE CURB & GUTTER
- 968 SY - REMOVE ASPHALT CONCRETE PAVEMENT
- 159 SY - REMOVE CONCRETE SIDEWALK
- 353 LF - SAW EXISTING ASPHALT (INCIDENTAL)
- 20 LF - SAW EXISTING PCC CONCRETE (INCIDENTAL)
- 286 CY - UNCLASSIFIED EXCAVATION
- 1 EA - CLEAR AND GRUB TREE
- 1 EA - REMOVE SIGN FOR RESET



REMOVALS

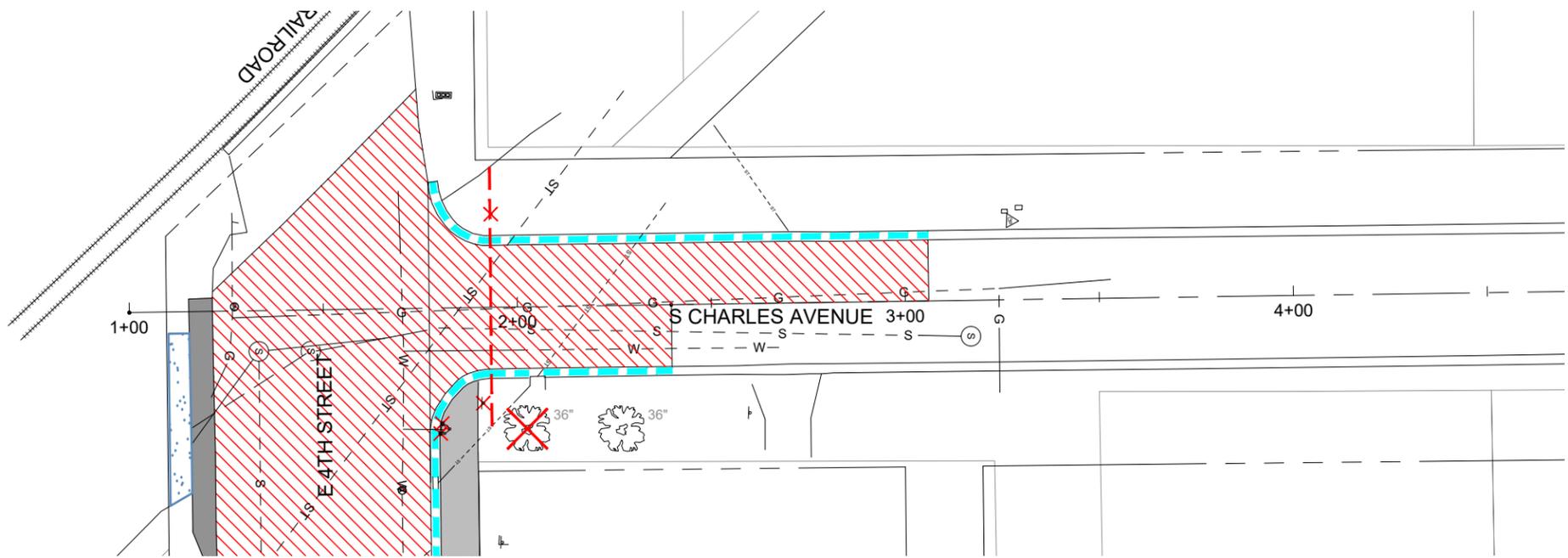
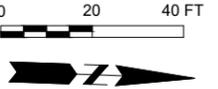
BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
55	112

Plotting Date: 03/10/2026 Rev: ---



REMOVAL LEGEND			
	REMOVAL OF ASPHALT CONCRETE PAVEMENT		REMOVAL OF CURB AND GUTTER
	REMOVAL OF CONCRETE SIDEWALK		MATCH LINE FOR QUANTITIES
	REMOVAL OF CONCRETE PAVEMENT		CLEAR AND GRUB TREE -- REMOVE STUMP (BY OTHERS)
	REMOVAL OF GRAVEL SURFACE (INCIDENTAL)		REMOVE & RESET: TRAFFIC SIGN -- MAILBOX
	FULL DEPTH RECLAMATION		REMOVE: POWER POLE -- LIGHT POLE

QUANTITIES:

- 168 LF - REMOVE CONCRETE CURB & GUTTER
- 280 SY - REMOVE ASPHALT CONCRETE PAVEMENT
- 100 LF - SAW EXISTING ASPHALT (INCIDENTAL)
- 5 LF - SAW EXISTING PCC CONCRETE (INCIDENTAL)
- 114 CY - UNCLASSIFIED EXCAVATION
- 1 EA - CLEAR AND GRUB TREE

NOTE:

LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR WILL BE RESPONSIBLE TO HAVE ALL THE UTILITIES AND SERVICES LOCATED PRIOR TO ANY EXCAVATION.



REMOVALS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

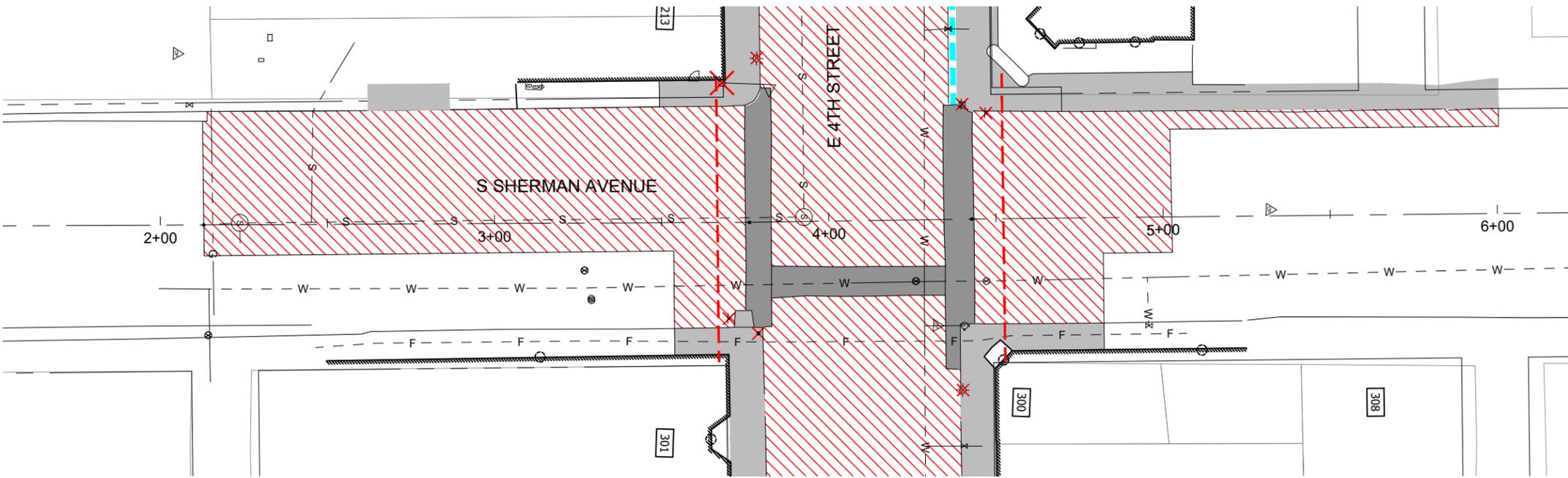
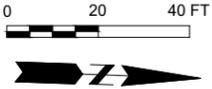
SHEET
56

TOTAL SHEETS
112

Plotting Date:

03/10/2026

Rev: ---



REMOVAL LEGEND			
	REMOVAL OF ASPHALT CONCRETE PAVEMENT		REMOVAL OF CURB AND GUTTER
	REMOVAL OF CONCRETE SIDEWALK		MATCH LINE FOR QUANTITIES
	REMOVAL OF CONCRETE PAVEMENT		CLEAR AND GRUB TREE -- REMOVE STUMP (BY OTHERS)
	REMOVAL OF GRAVEL SURFACE (INCIDENTAL)		REMOVE & RESET: TRAFFIC SIGN -- MAILBOX
	FULL DEPTH RECLAMATION		REMOVE: POWER POLE -- LIGHT POLE

QUANTITIES:

- 1092 SY - REMOVE ASPHALT CONCRETE PAVEMENT
- 221 SY - REMOVE CONCRETE SIDEWALK
- 396 LF - SAW EXISTING ASPHALT (INCIDENTAL)
- 32 LF - SAW EXISTING PCC CONCRETE (INCIDENTAL)
- 230 CY - UNCLASSIFIED EXCAVATION

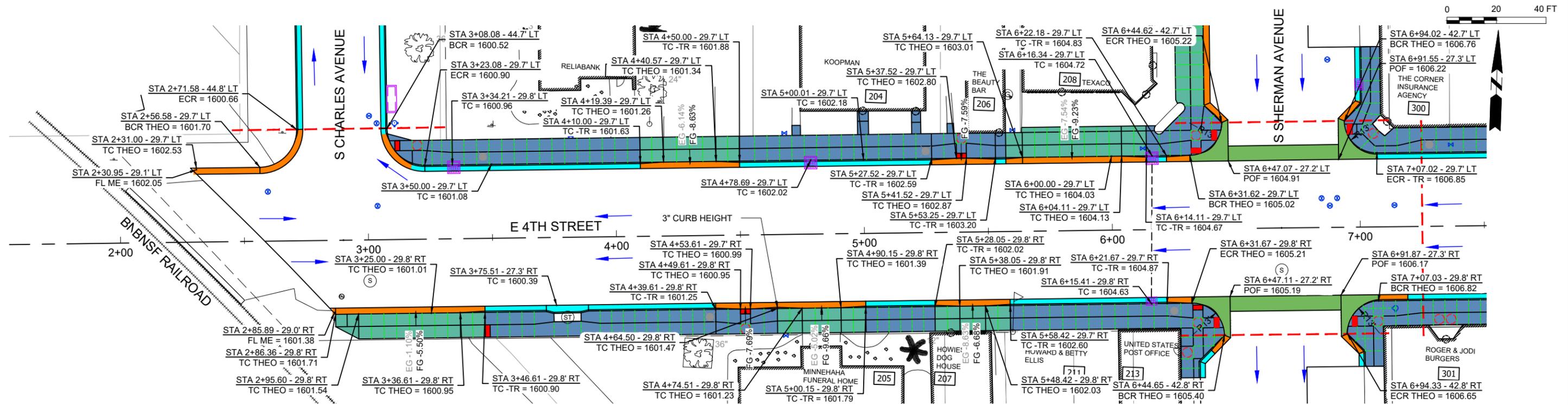
NOTE:

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4TH STREET ROADWAY PLAN AND PROFILE

Plotting Date: 03/10/2026 Rev: ---



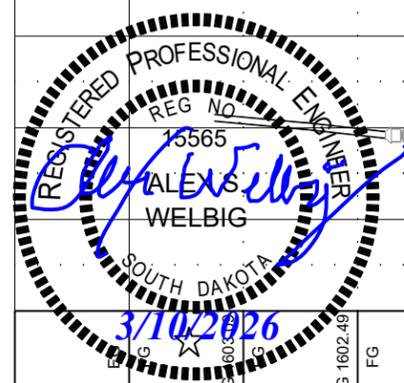
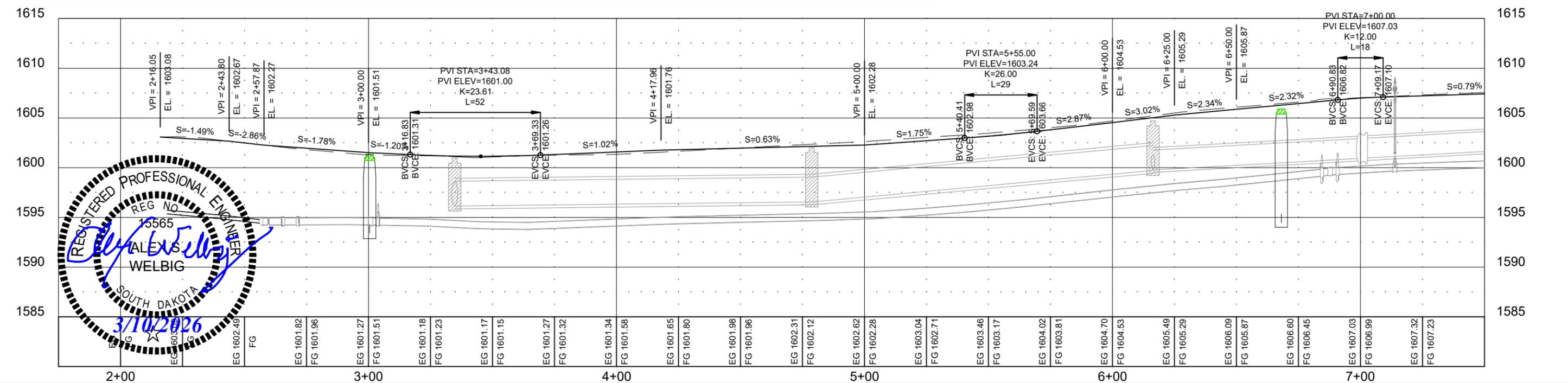
LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		SANITARY SEWER MANHOLE
	6" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	DROP CONCRETE CURB & GUTTER		STORM SEWER DROP INLET
	CONCRETE CURB & GUTTER		FIRE HYDRANT
	6" REINFORCED CONCRETE SIDEWALK		WATER VALVE
	8" REINFORCED CONCRETE		CURB STOP
	SHALLOW STORM CROSSING		ADA RAMP LANDING AREA (2% MAX SLOPE)
	DRAINAGE FLOW ARROW		
	MATCH LINE FOR QUANTITIES		
	ADA DETECTABLE WARNING PANEL		
	4" CONCRETE SIDEWALK		
	SIDEWALK DRAIN		
	PROPOSED LIGHT POLE (BY OTHERS)		

QUANTITIES:

- 1730 TONS - BASE COURSE
- 90 TONS - SUBBASE FOUNDATION AGGREGATE
- 858 TONS - ASPHALT CONCRETE COMPOSITE
- 48 SY - 8" PCC FILLET SECTION
- 60 SY - 8" CONCRETE VALLEY GUTTER
- 915 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER
- 2322 SF - 6" REINFORCED CONCRETE SIDEWALK
- 3941 SF - 6" CONCRETE SIDEWALK
- 29020 SF - CEMENT TREATED SUBGRADE
- 87 TONS - PORTLAND CEMENT
- 82 SF - TYPE 1 DETECTABLE WARNING

NOTES:

- CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
- ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



4TH STREET ROADWAY PLAN AND PROFILE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

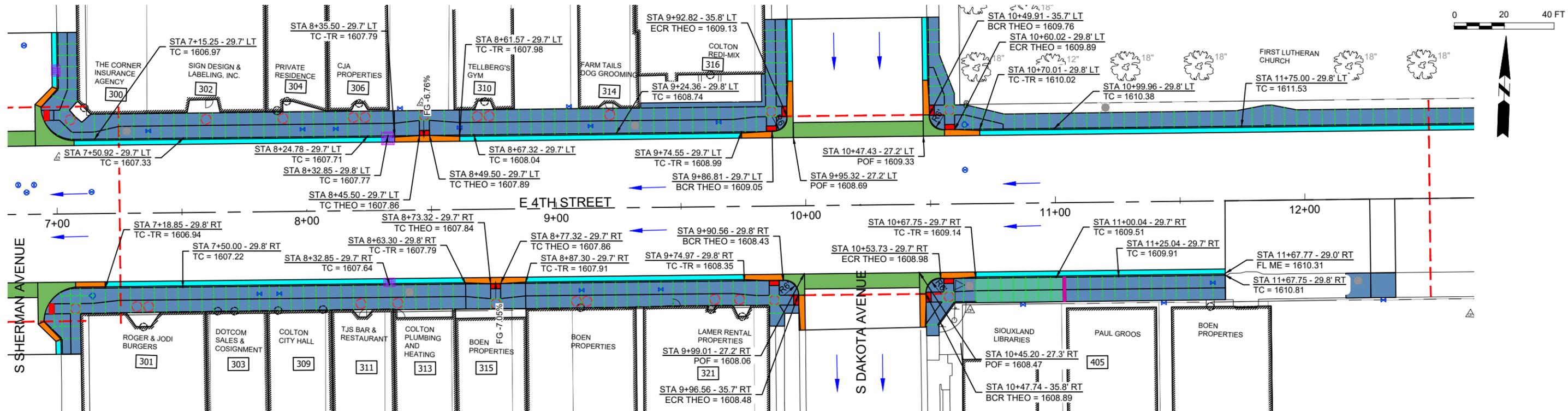
PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
58

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

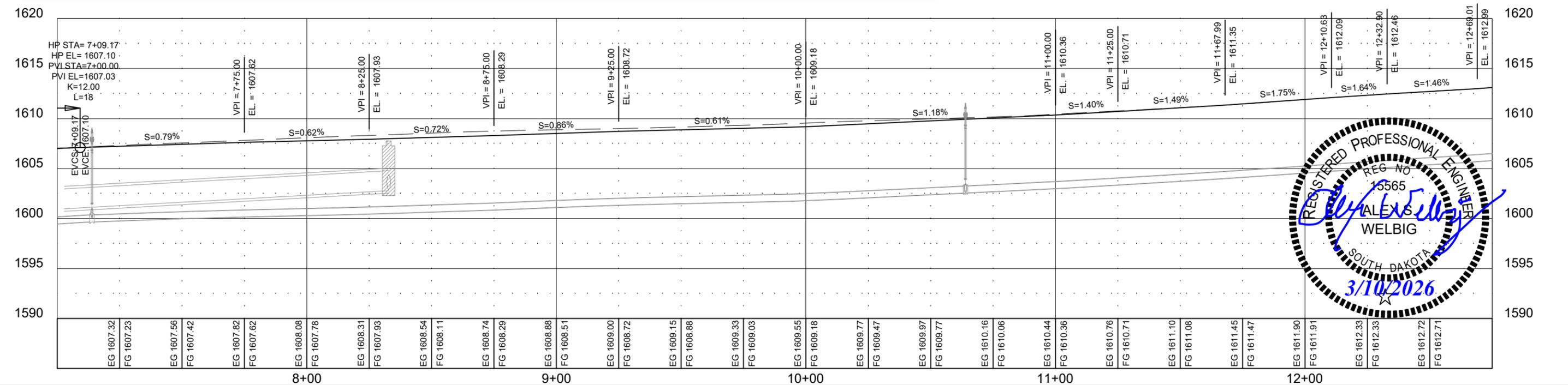


LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BCR: BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		ECR: END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FL: FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		ME: MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POF: POINT OF FILLET ELEVATION
	8" REINFORCED CONCRETE		R: RADIUS DIMENSION
	SHALLOW STORM CROSSING		SW: SIDEWALK FINISH GRADE ELEVATION
	GRAVEL SURFACING		TC: TOP OF CURB ELEVATION
	DRAINAGE FLOW ARROW		THEO: THEORETICAL ELEVATION
	MATCH LINE FOR QUANTITIES		TR: TRANSITION TO DROP CURB
	ADA DETECTABLE WARNING PANEL		SANITARY SEWER MANHOLE
	4" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	SIDEWALK DRAIN		STORM SEWER DROP INLET
	PROPOSED LIGHT POLE (BY OTHERS)		FIRE HYDRANT
			WATER VALVE
			CURB STOP
			ADA RAMP LANDING AREA (2% MAX SLOPE)

QUANTITIES:

- 1740 TONS - BASE COURSE
- 90 TONS - SUBBASE FOUNDATION AGGREGATE
- 858 TONS - ASPHALT CONCRETE COMPOSITE
- 20 SY - 8" PCC FILLET SECTION
- 65 SY - 8" CONCRETE VALLEY GUTTER
- 971 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER
- 351 SF - 6" REINFORCED CONCRETE SIDEWALK
- 9116 SF - 6" CONCRETE SIDEWALK
- 31541 SF - CEMENT TREATED SUBGRADE
- 94 TONS - PORTLAND CEMENT
- 48 SF - TYPE 1 DETECTABLE WARNING
- 10 LF - SIDEWALK DRAIN

NOTES:
CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



4TH STREET ROADWAY PLAN AND PROFILE

BAI JOB # 24327-00

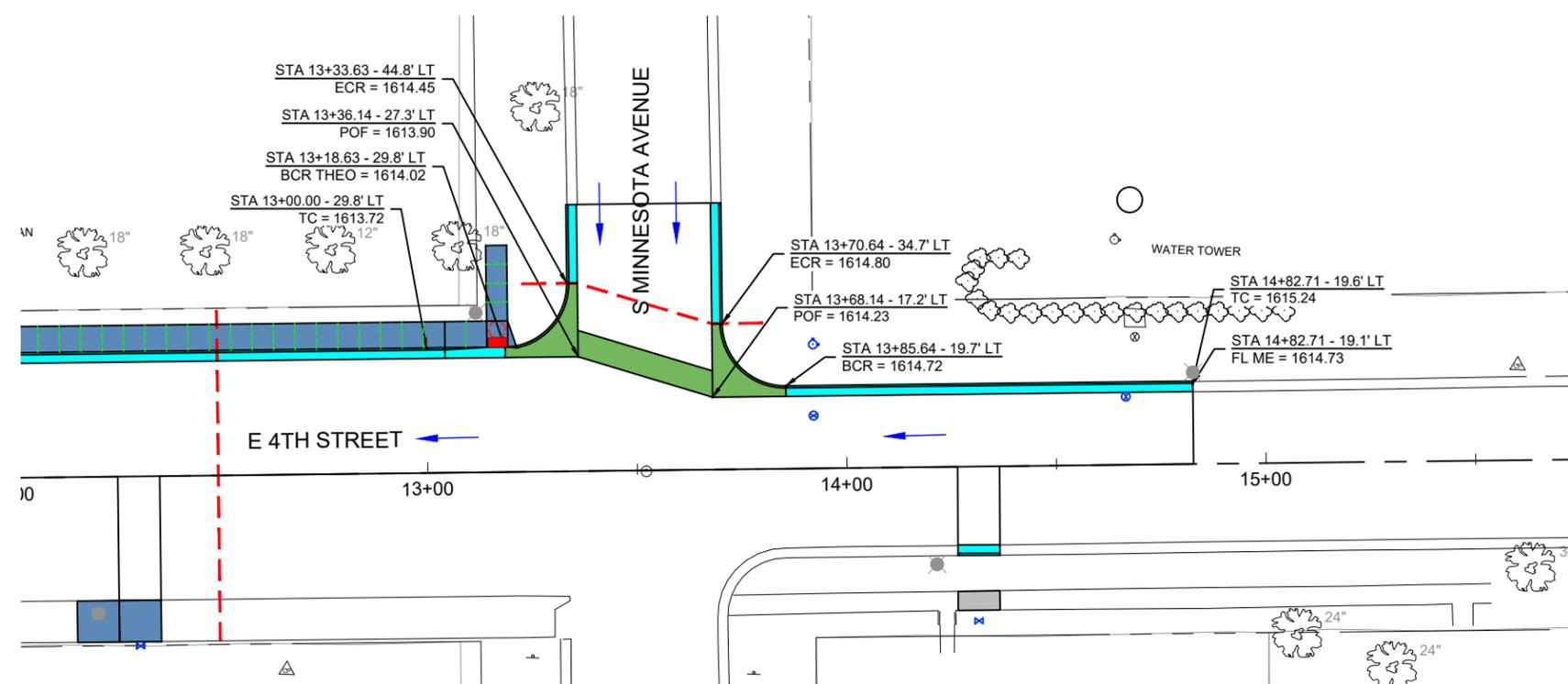
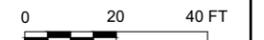
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
59

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



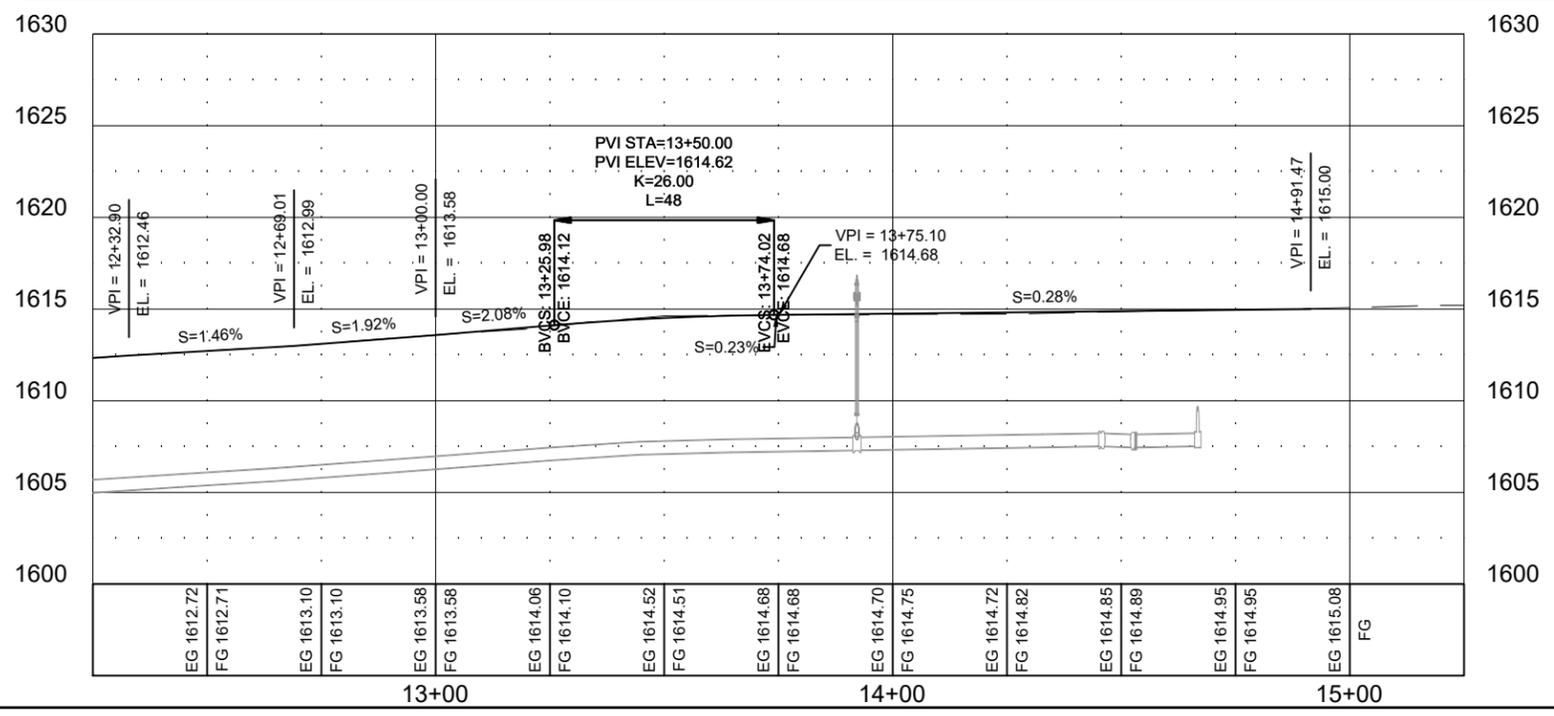
LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POINT OF FILLET ELEVATION
	8" REINFORCED CONCRETE		RADIUS DIMENSION
	SHALLOW STORM CROSSING		SIDEWALK FINISH GRADE ELEVATION
	GRAVEL SURFACING		TOP OF CURB ELEVATION
	DRAINAGE FLOW ARROW		THEORETICAL ELEVATION
	MATCH LINE FOR QUANTITIES		TRANSITION TO DROP CURB
	ADA DETECTABLE WARNING PANEL		SANITARY SEWER MANHOLE
	4" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	SIDEWALK DRAIN		STORM SEWER DROP INLET
	PROPOSED LIGHT POLE (BY OTHERS)		FIRE HYDRANT
			WATER VALVE
			CURB STOP
			ADA RAMP LANDING AREA (2% MAX SLOPE)

QUANTITIES:

- 330 TONS - BASE COURSE
- 20 TONS - SUBBASE FOUNDATION AGGREGATE
- 178 TONS - ASPHALT CONCRETE COMPOSITE
- 29 SY - 8" PCC FILLET SECTION
- 22 SY - 8" CONCRETE VALLEY GUTTER
- 224 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER
- 375 SF - 6" CONCRETE SIDEWALK
- 46 SF - 4" CONCRETE SIDEWALK
- 6658 SF - CEMENT TREATED SUBGRADE
- 19 TONS - PORTLAND CEMENT
- 8 SF - TYPE 1 DETECTABLE WARNING

NOTES:

- CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
- ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



S CHARLES ROADWAY PLAN AND PROFILE

BAI JOB # 24327-00

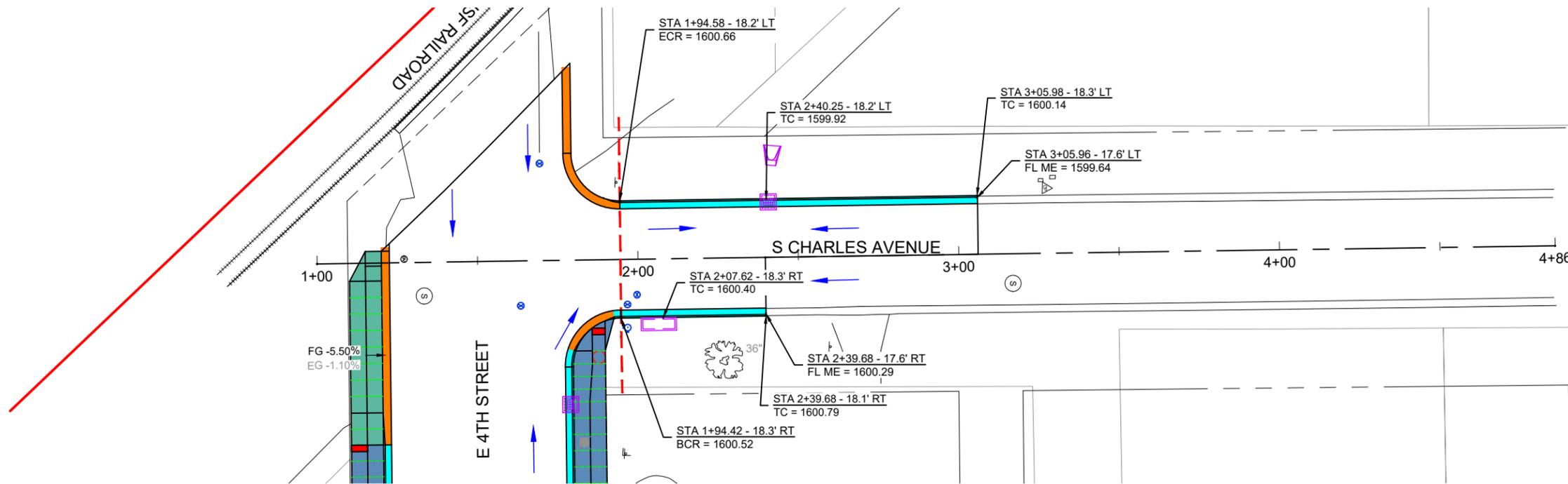
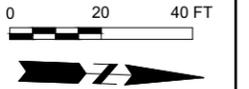
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET
60

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



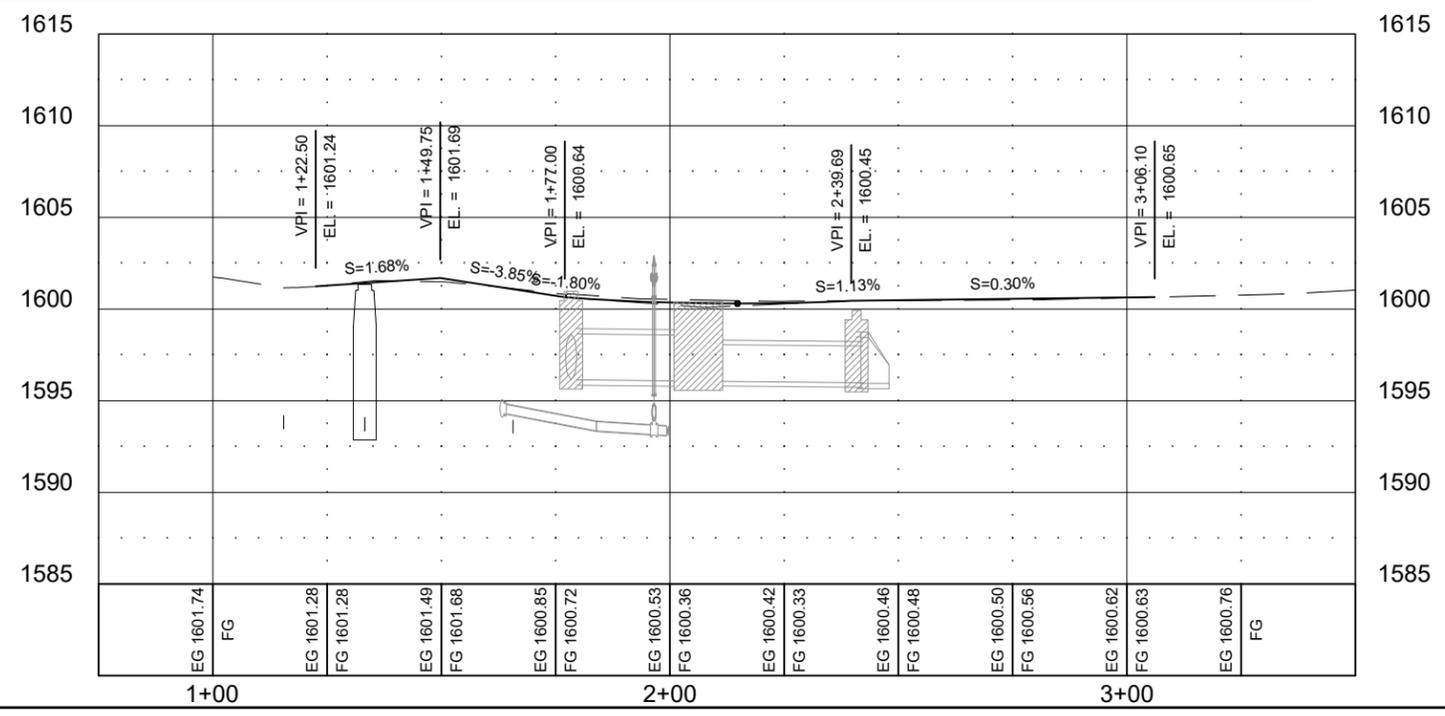
LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		SANITARY SEWER MANHOLE
	6" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	DROP CONCRETE CURB & GUTTER		STORM SEWER DROP INLET
	CONCRETE CURB & GUTTER		FIRE HYDRANT
	6" REINFORCED CONCRETE SIDEWALK		WATER VALVE
	8" REINFORCED CONCRETE		CURB STOP
	SHALLOW STORM CROSSING		ADA RAMP LANDING AREA (2% MAX SLOPE)
	DRAINAGE FLOW ARROW		
	MATCH LINE FOR QUANTITIES		
	ADA DETECTABLE WARNING PANEL		
	4" CONCRETE SIDEWALK		
	SIDEWALK DRAIN		
	PROPOSED LIGHT POLE (BY OTHERS)		

QUANTITIES:

- 140 TONS - BASE COURSE
- 10 TONS - SUBBASE FOUNDATION AGGREGATE
- 79 TONS - ASPHALT CONCRETE COMPOSITE
- 158 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER

NOTES:

- CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
- ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



S SHERMAN ROADWAY PLAN AND PROFILE

BAI JOB # 24327-00

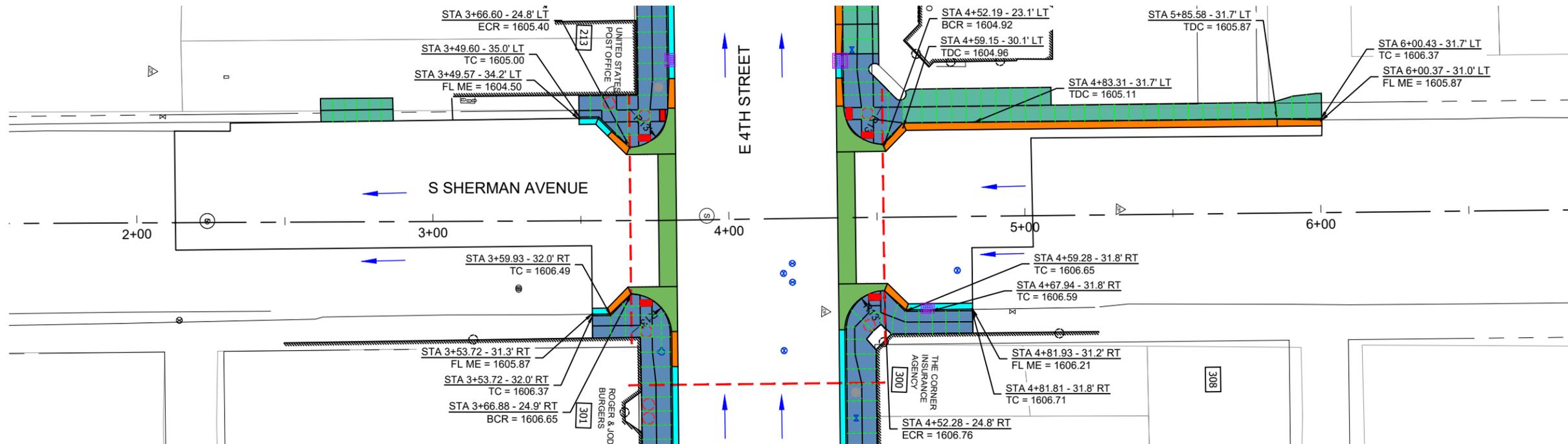
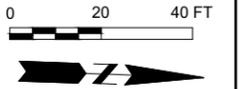
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
61

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



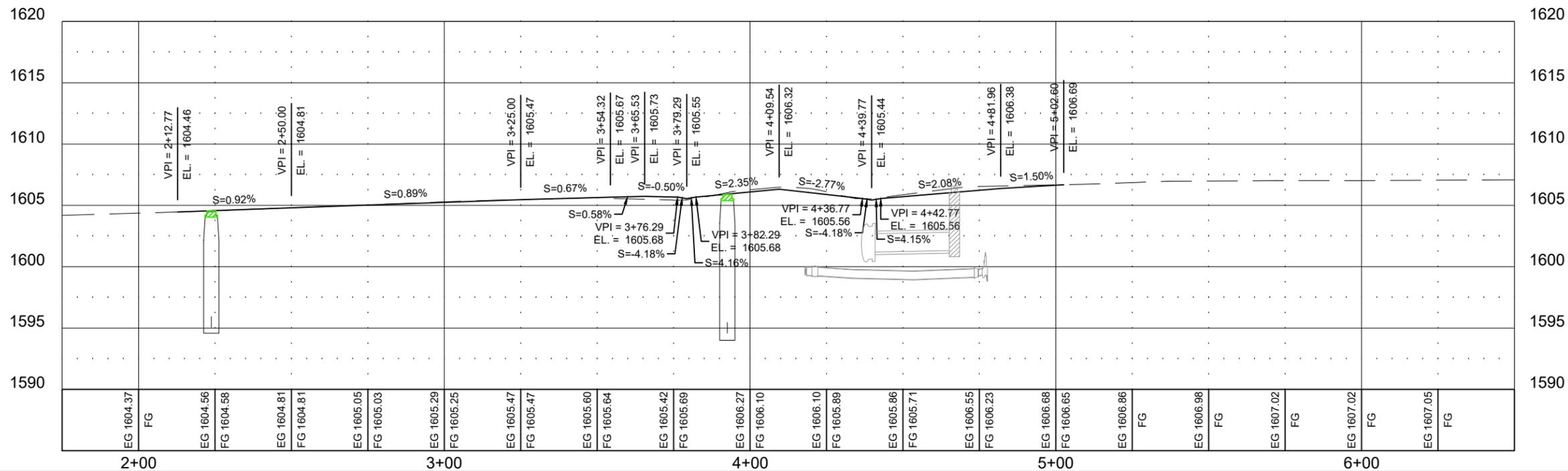
LEGEND			ABBREVIATIONS		
	ASPHALT CONCRETE PAVEMENT		GRAVEL SURFACING		SANITARY SEWER MANHOLE
	6" CONCRETE SIDEWALK		DRAINAGE FLOW ARROW		STORM SEWER JUNCTION BOX
	DROP CONCRETE CURB & GUTTER		MATCH LINE FOR QUANTITIES		STORM SEWER DROP INLET
	CONCRETE CURB & GUTTER		ADA DETECTABLE WARNING PANEL		FIRE HYDRANT
	6" REINFORCED CONCRETE SIDEWALK		4" CONCRETE SIDEWALK		WATER VALVE
	8" REINFORCED CONCRETE		SIDEWALK DRAIN		CURB STOP
	SHALLOW STORM CROSSING		PROPOSED LIGHT POLE (BY OTHERS)		ADA RAMP LANDING AREA (2% MAX SLOPE)

QUANTITIES:

- 560 TONS - BASE COURSE
- 30 TONS - SUBBASE FOUNDATION AGGREGATE
- 302 TONS - ASPHALT CONCRETE COMPOSITE
- 215 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER
- 1297 SF - 6" REINFORCED CONCRETE SIDEWALK
- 636 SF - 6" CONCRETE SIDEWALK
- 3284 SF - CEMENT TREATED SUBGRADE
- 11 TONS - PORTLAND CEMENT

NOTES:

- CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
- ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



S DAKOTA ROADWAY PLAN AND PROFILE

BAI JOB # 24327-00

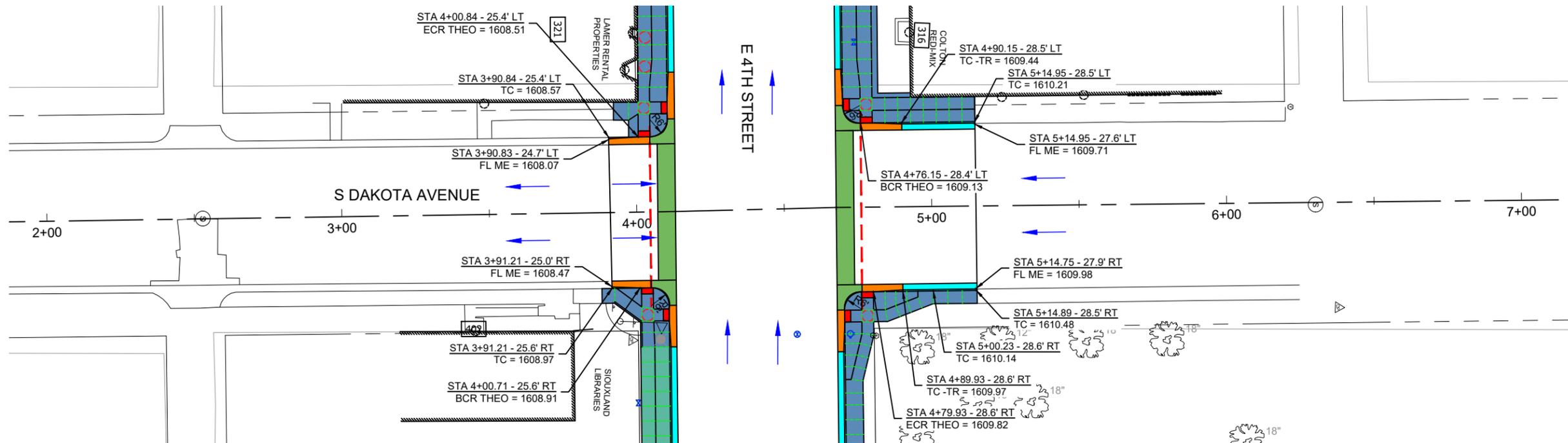
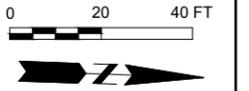
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET
62

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POINT OF FILLET ELEVATION
	8" REINFORCED CONCRETE		RADIUS DIMENSION
	SHALLOW STORM CROSSING		SIDEWALK FINISH GRADE ELEVATION
	GRAVEL SURFACING		TOP OF CURB ELEVATION
	DRAINAGE FLOW ARROW		THEORETICAL ELEVATION
	MATCH LINE FOR QUANTITIES		TRANSITION TO DROP CURB
	ADA DETECTABLE WARNING PANEL		SANITARY SEWER MANHOLE
	4" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	SIDEWALK DRAIN		STORM SEWER DROP INLET
	PROPOSED LIGHT POLE (BY OTHERS)		FIRE HYDRANT
			WATER VALVE
			CURB STOP
			ADA RAMP LANDING AREA (2% MAX SLOPE)

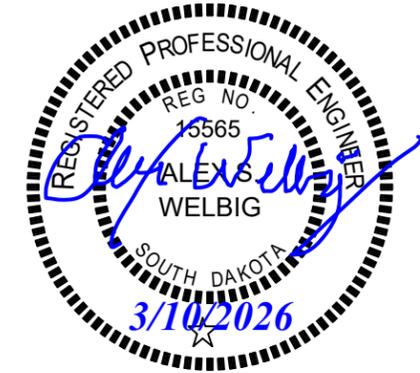
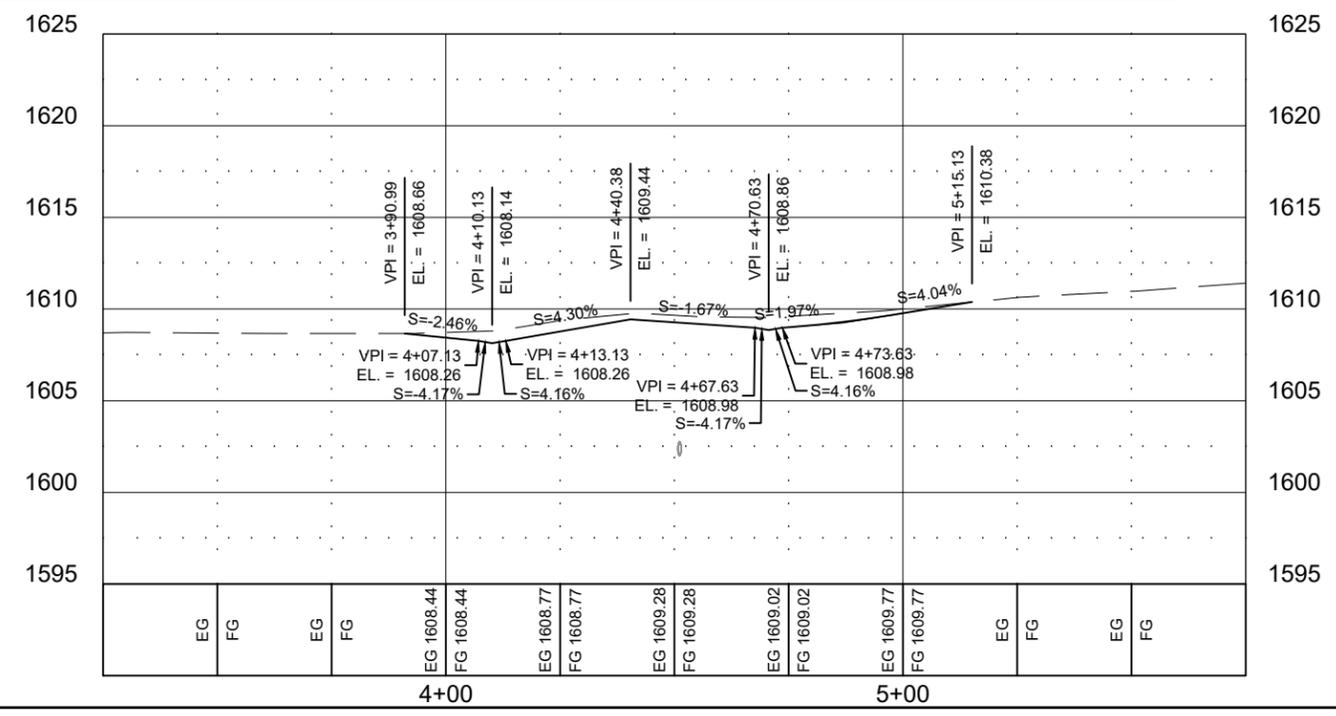
QUANTITIES:

- 180 TONS - BASE COURSE
- 10 TONS - SUBBASE FOUNDATION AGGREGATE
- 84 TONS - ASPHALT CONCRETE COMPOSITE
- 106 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER
- 884 SF - 6" CONCRETE SIDEWALK
- 3103 SF - CEMENT TREATED SUBGRADE
- 10 TONS - PORTLAND CEMENT
- 32 SF - TYPE 1 DETECTABLE WARNING

NOTES:

CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.

ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



S MINNESOTA ROADWAY PLAN AND PROFILE

BAI JOB # 24327-00

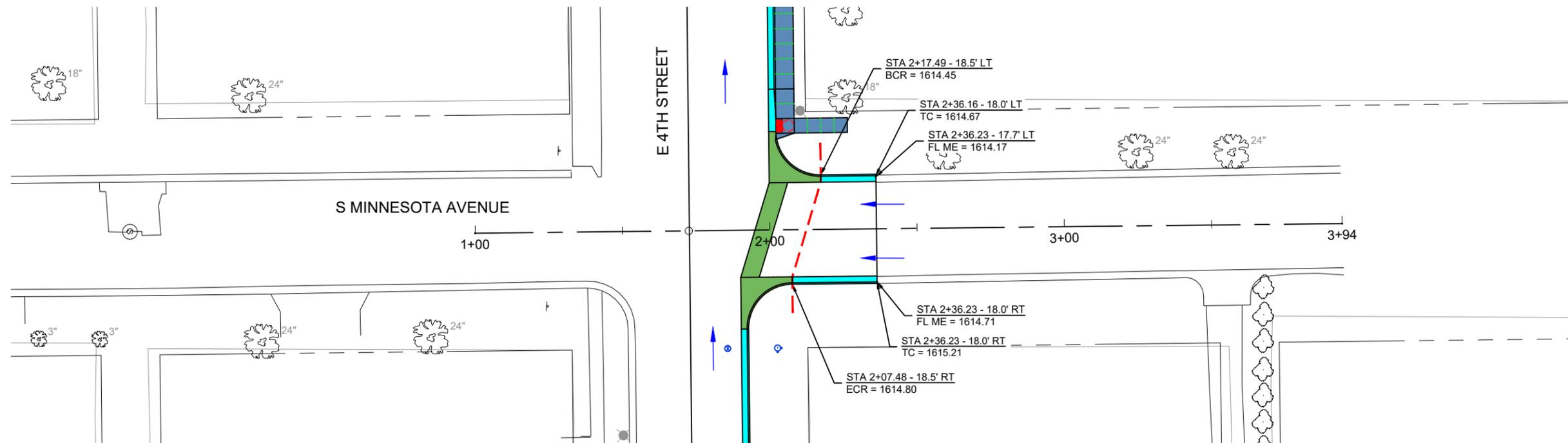
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET
63

TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



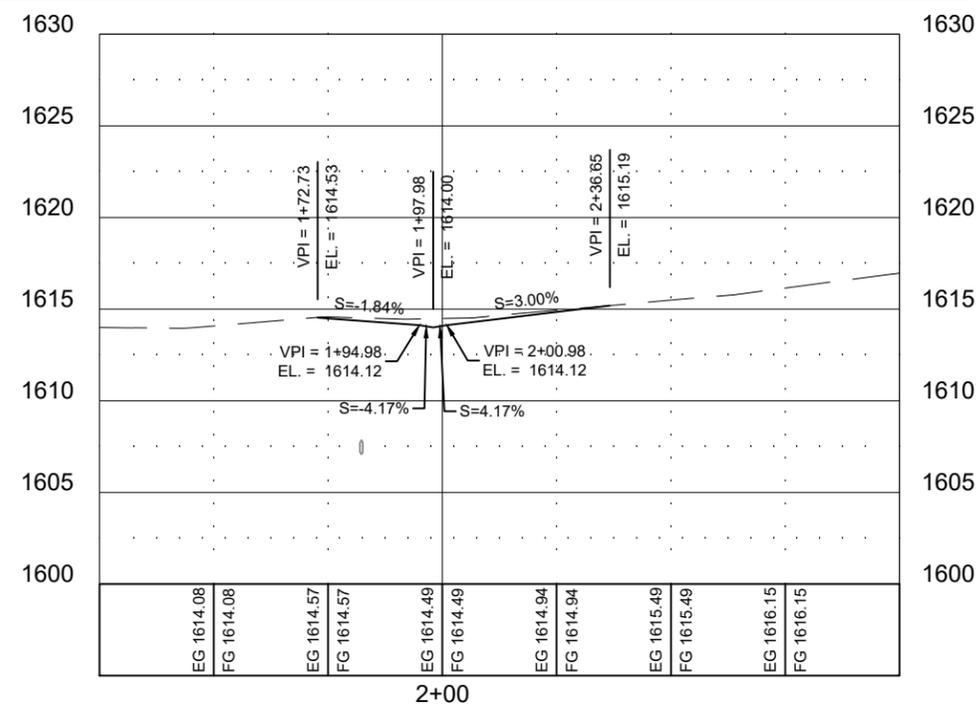
LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		SANITARY SEWER MANHOLE
	6" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	DROP CONCRETE CURB & GUTTER		STORM SEWER DROP INLET
	CONCRETE CURB & GUTTER		FIRE HYDRANT
	6" REINFORCED CONCRETE SIDEWALK		WATER VALVE
	8" REINFORCED CONCRETE		CURB STOP
	SHALLOW STORM CROSSING		ADA RAMP LANDING AREA (2% MAX SLOPE)
	GRAVEL SURFACING		MATCH LINE FOR QUANTITIES
	DRAINAGE FLOW ARROW		ADA DETECTABLE WARNING PANEL
	MATCH LINE FOR QUANTITIES		4" CONCRETE SIDEWALK
	ADA DETECTABLE WARNING PANEL		SIDEWALK DRAIN
	4" CONCRETE SIDEWALK		PROPOSED LIGHT POLE (BY OTHERS)

QUANTITIES:

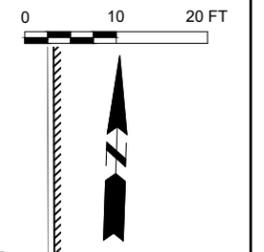
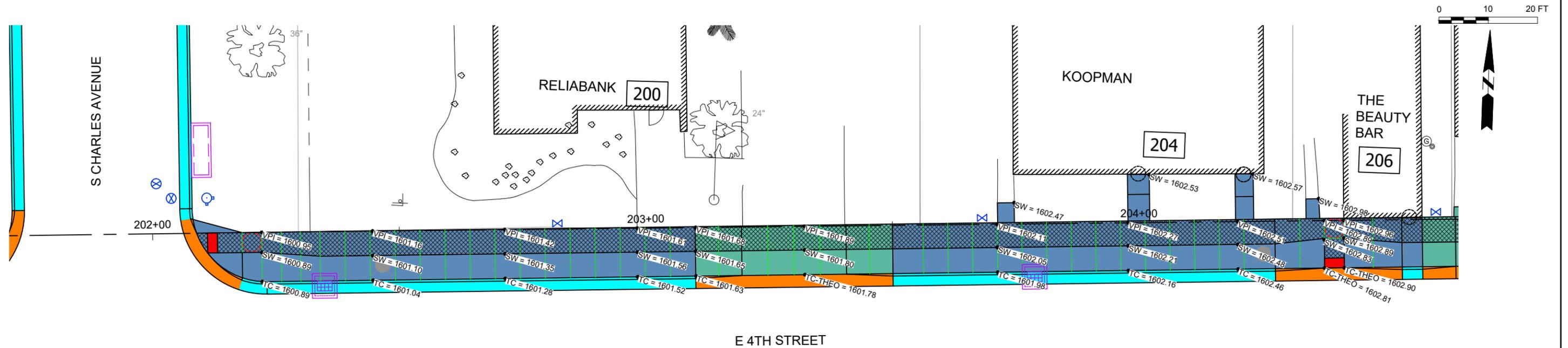
- 50 TONS - BASE COURSE
- 25 TONS - ASPHALT CONCRETE COMPOSITE
- 48 LF - MODIFIED TYPE B66 CONCRETE CURB AND GUTTER
- 930 SF - CEMENT TREATED SUBGRADE
- 3 TONS - PORTLAND CEMENT

NOTES:

- CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
- ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



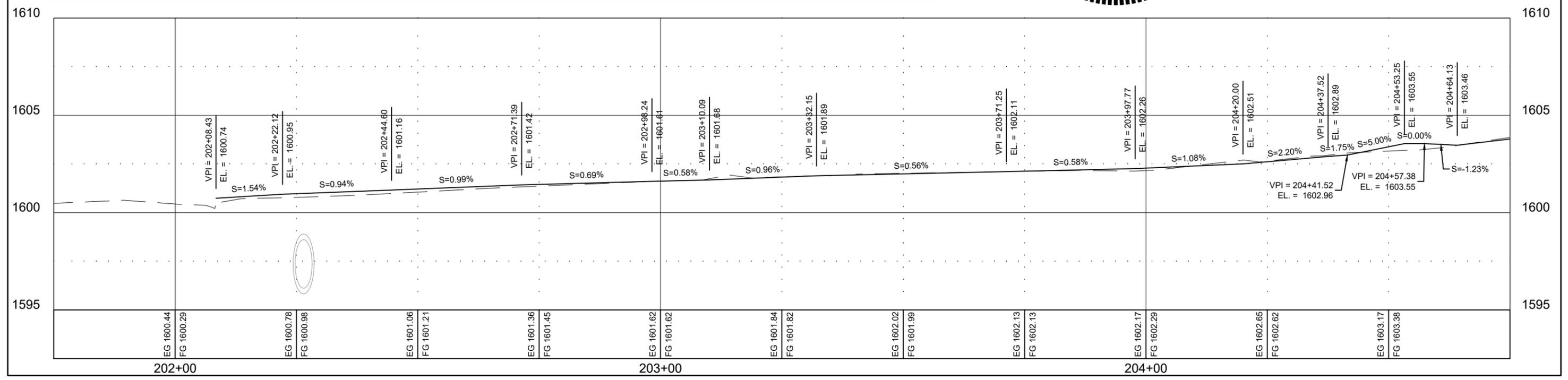
NORTH 4TH STREET SIDEWALK PLAN AND PROFILE



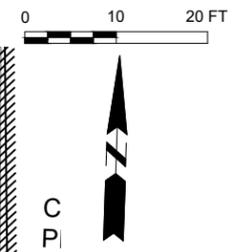
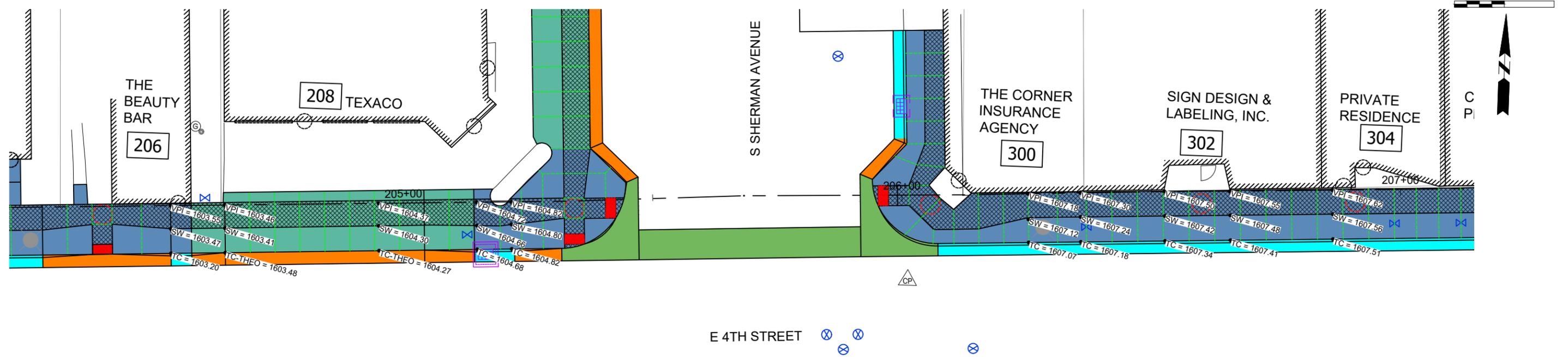
LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BCR: BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		ECR: END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FL: FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		ME: MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POF: POINT OF FILLET ELEVATION
	8.5" REINFORCED CONCRETE		R: RADIUS DIMENSION
	GRAVEL SURFACING		SW: SIDEWALK FINISH GRADE ELEVATION
	DRAINAGE FLOW ARROW		TC: TOP OF CURB ELEVATION
	MATCH LINE FOR QUANTITIES		THEO: THEORETICAL ELEVATION
	PEDESTRIAN ACCESS ROUTE		TR: TRANSITION TO DROP CURB
	SANITARY SEWER MANHOLE		VPI: VERTICAL POINT OF INTERSECTION
	STORM SEWER JUNCTION BOX		
	STORM SEWER DROP INLET		
	FIRE HYDRANT		
	WATER VALVE		
	CURB STOP		
	ADA RAMP LANDING AREA (2% MAX SLOPE)		
	PROPOSED LIGHT POLE (BY OTHERS)		



NOTES:
 CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
 ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



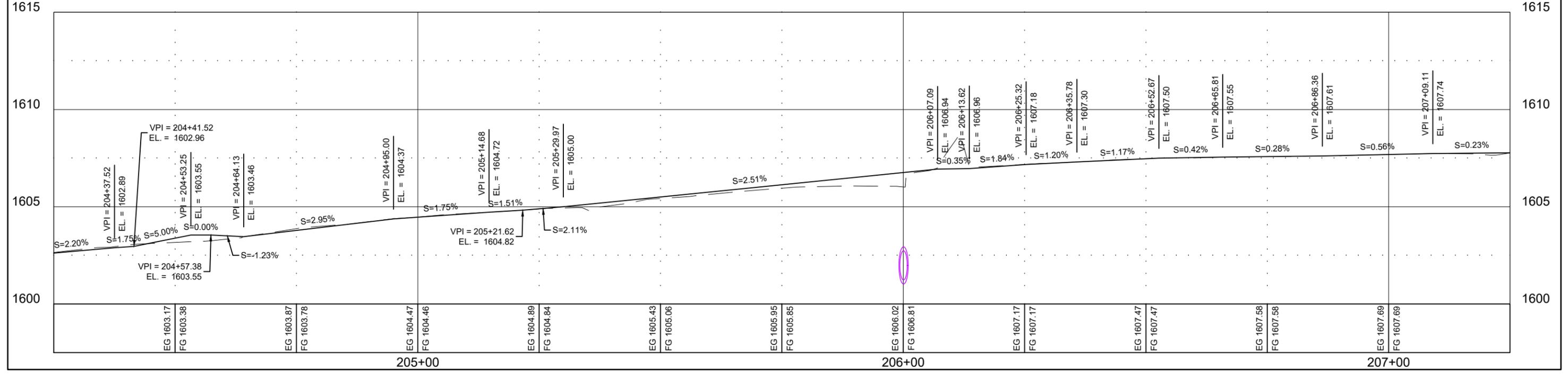
NORTH 4TH STREET SIDEWALK PLAN AND PROFILE



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BCR: BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		ECR: END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FL: FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		ME: MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POF: POINT OF FILLET ELEVATION
	8.5" REINFORCED CONCRETE		R: RADIUS DIMENSION
	GRAVEL SURFACING		SW: SIDEWALK FINISH GRADE ELEVATION
	DRAINAGE FLOW ARROW		TC: TOP OF CURB ELEVATION
	MATCH LINE FOR QUANTITIES		THEO: THEORETICAL ELEVATION
	PEDESTRIAN ACCESS ROUTE		TR: TRANSITION TO DROP CURB
	SIDEWALK DRAIN		VPI: VERTICAL POINT OF INTERSECTION
	ADA DETECTABLE WARNING PANEL		SANITARY SEWER MANHOLE
	PROPOSED LIGHT POLE (BY OTHERS)		STORM SEWER JUNCTION BOX
	FIRE HYDRANT		STORM SEWER DROP INLET
	WATER VALVE		CURB STOP
	ADA RAMP LANDING AREA (2% MAX SLOPE)		



NOTES:
 ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



NORTH 4TH STREET SIDEWALK PLAN AND PROFILE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

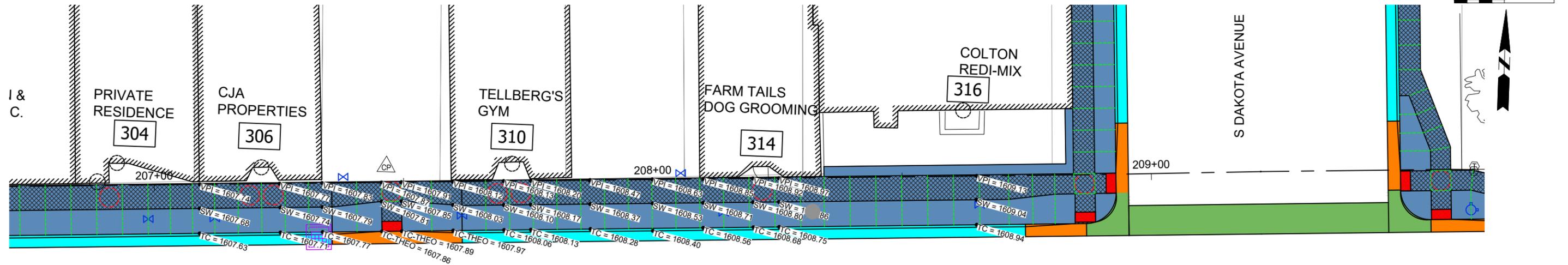
SHEET
66

TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---

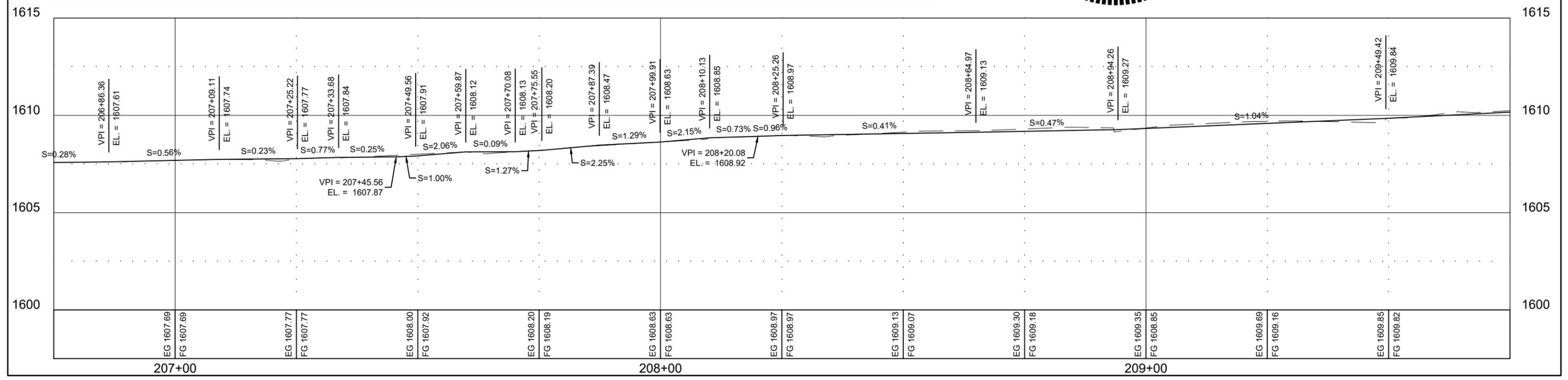
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LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		SANITARY SEWER MANHOLE
	6" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	DROP CONCRETE CURB & GUTTER		STORM SEWER DROP INLET
	CONCRETE CURB & GUTTER		FIRE HYDRANT
	6" REINFORCED CONCRETE SIDEWALK		WATER VALVE
	8.5" REINFORCED CONCRETE		CURB STOP
	GRAVEL SURFACING		ADA RAMP LANDING AREA (2% MAX SLOPE)
	DRAINAGE FLOW ARROW		PROPOSED LIGHT POLE (BY OTHERS)
	MATCH LINE FOR QUANTITIES		
	PEDESTRIAN ACCESS ROUTE		
	SIDEWALK DRAIN		
	ADA DETECTABLE WARNING PANEL		



NOTES:
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



NORTH 4TH STREET SIDEWALK PLAN AND PROFILE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

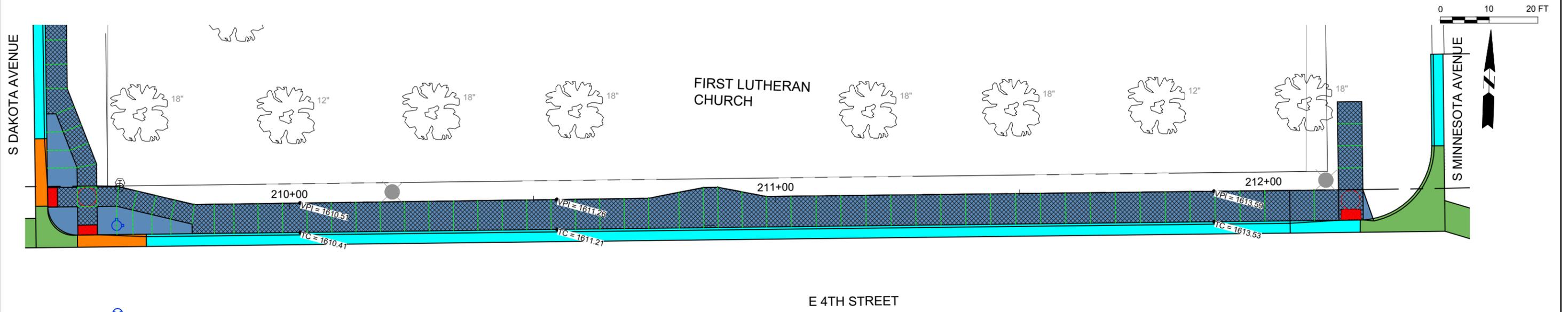
PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
67

TOTAL SHEETS
112

Plotting Date: 03/10/2026

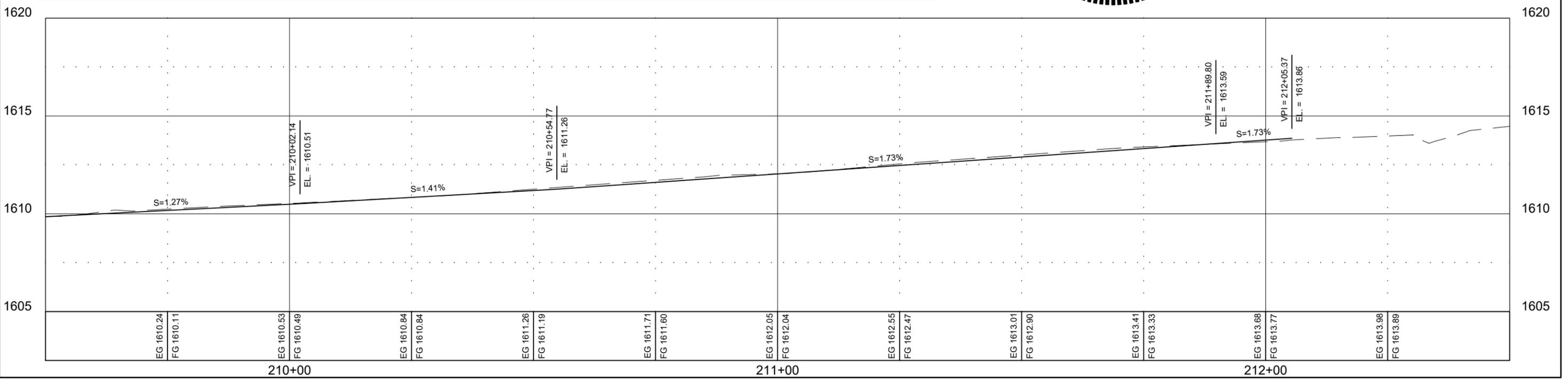
Rev: ---



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		SANITARY SEWER MANHOLE
	GRAVEL SURFACING		STORM SEWER JUNCTION BOX
	6" CONCRETE SIDEWALK		STORM SEWER DROP INLET
	DROP CONCRETE CURB & GUTTER		FIRE HYDRANT
	CONCRETE CURB & GUTTER		WATER VALVE
	6" REINFORCED CONCRETE SIDEWALK		CURB STOP
	8.5" REINFORCED CONCRETE		ADA RAMP LANDING AREA (2% MAX SLOPE)
	DRAINAGE FLOW ARROW		PROPOSED LIGHT POLE (BY OTHERS)
	MATCH LINE FOR QUANTITIES		
	PEDESTRIAN ACCESS ROUTE		
	SIDEWALK DRAIN		
	ADA DETECTABLE WARNING PANEL		



NOTES:
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



SOUTH 4TH STREET SIDEWALK PLAN AND PROFILE

BAI JOB # 24327-00

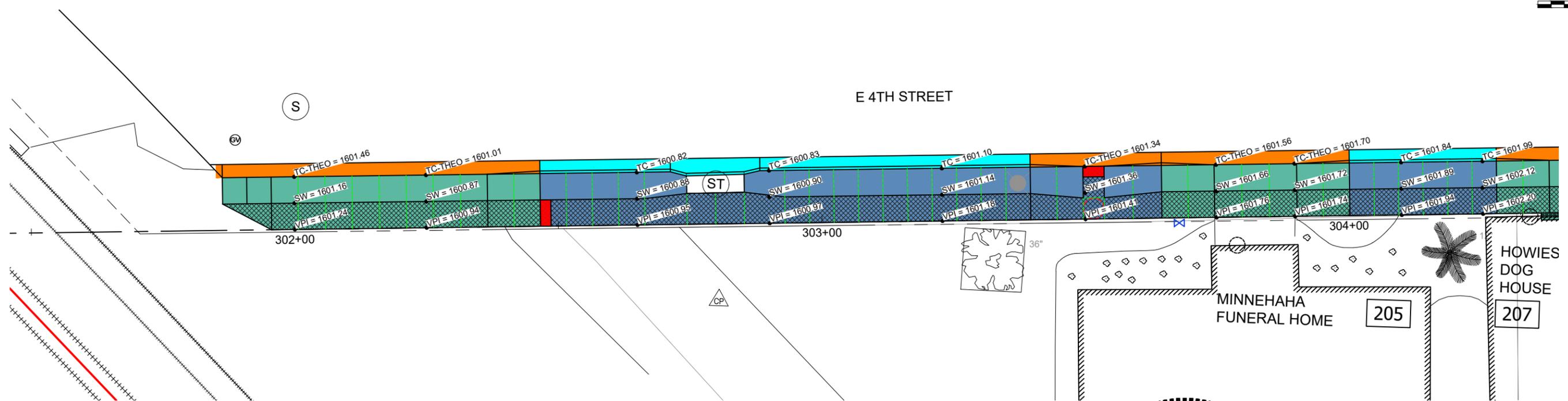
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
68

TOTAL SHEETS
112

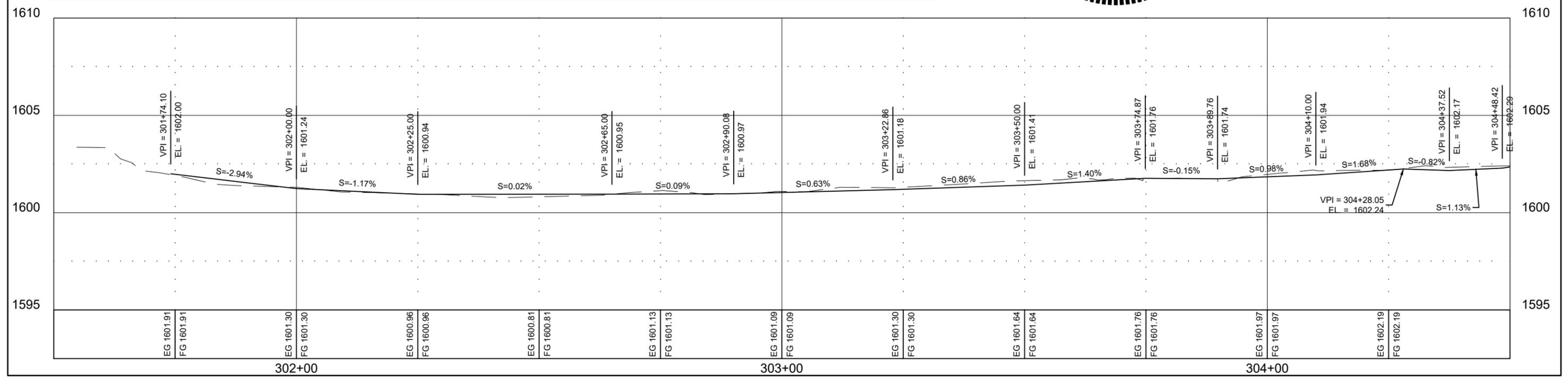
Plotting Date: 03/10/2026 Rev: ---



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BCR: BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		ECR: END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FL: FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		ME: MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POF: POINT OF FILLET ELEVATION
	8.5" REINFORCED CONCRETE		R: RADIUS DIMENSION
	GRAVEL SURFACING		SW: SIDEWALK FINISH GRADE ELEVATION
	DRAINAGE FLOW ARROW		TC: TOP OF CURB ELEVATION
	MATCH LINE FOR QUANTITIES		THEO: THEORETICAL ELEVATION
	PEDESTRIAN ACCESS ROUTE		TR: TRANSITION TO DROP CURB
	SIDEWALK DRAIN		VPI: VERTICAL POINT OF INTERSECTION
	ADA DETECTABLE WARNING PANEL		SANITARY SEWER MANHOLE
	PROPOSED LIGHT POLE (BY OTHERS)		STORM SEWER JUNCTION BOX
	FIRE HYDRANT		STORM SEWER DROP INLET
	WATER VALVE		CURB STOP
	ADA RAMP LANDING AREA (2% MAX SLOPE)		PROPOSED LIGHT POLE (BY OTHERS)



NOTES:
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.

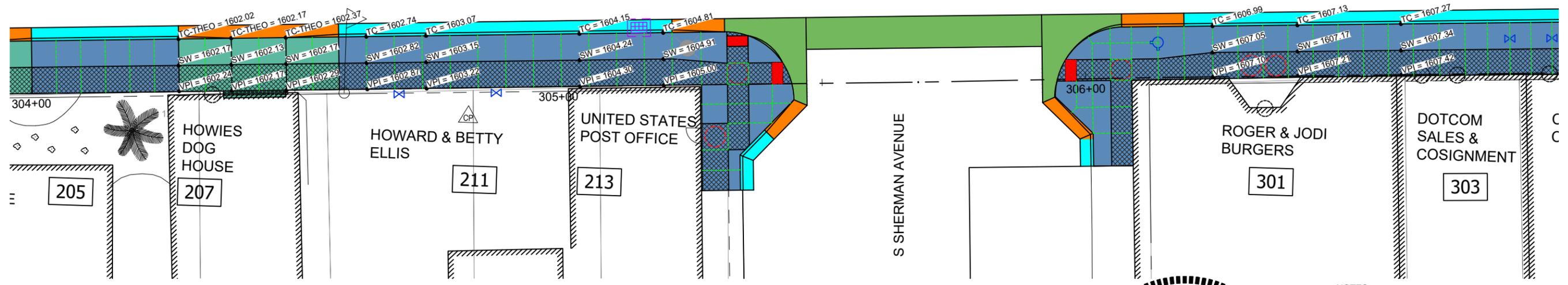


SOUTH 4TH STREET SIDEWALK PLAN AND PROFILE

Plotting Date: 03/10/2026 Rev: ---



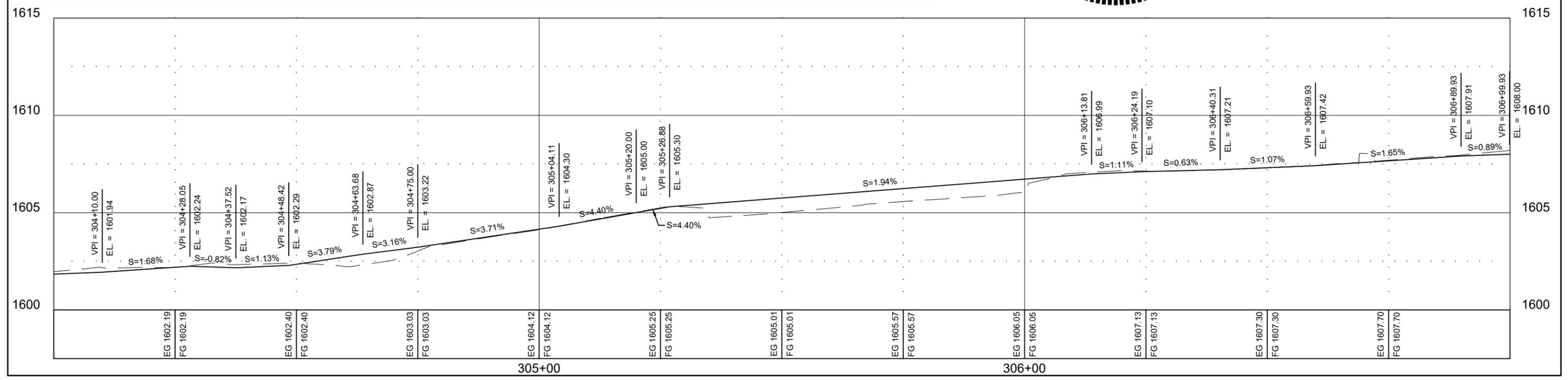
E 4TH STREET



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		SANITARY SEWER MANHOLE
	6" CONCRETE SIDEWALK		STORM SEWER JUNCTION BOX
	DROP CONCRETE CURB & GUTTER		STORM SEWER DROP INLET
	CONCRETE CURB & GUTTER		FIRE HYDRANT
	6" REINFORCED CONCRETE SIDEWALK		WATER VALVE
	8.5" REINFORCED CONCRETE		CURB STOP
	GRAVEL SURFACING		ADA RAMP LANDING AREA (2% MAX SLOPE)
	DRAINAGE FLOW ARROW		
	MATCH LINE FOR QUANTITIES		
	PEDESTRIAN ACCESS ROUTE		
	SIDEWALK DRAIN		
	ADA DETECTABLE WARNING PANEL		
	PROPOSED LIGHT POLE (BY OTHERS)		



NOTES:
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



SOUTH 4TH STREET SIDEWALK PLAN AND PROFILE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET
70

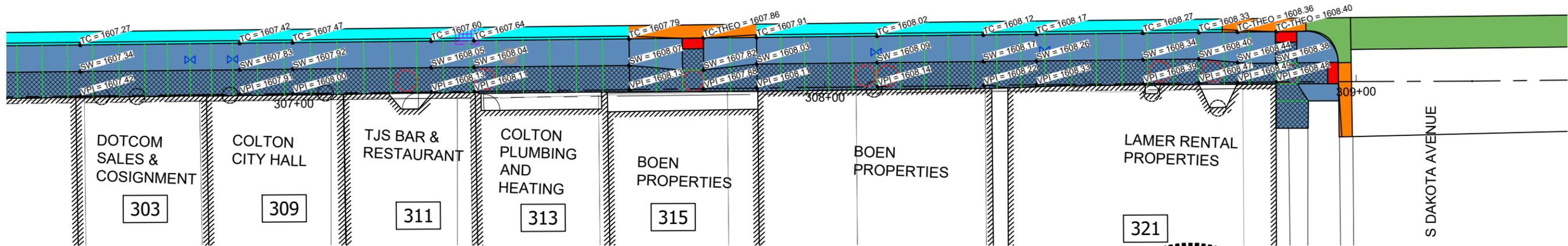
TOTAL SHEETS
112

Plotting Date: 03/10/2026

Rev: ---



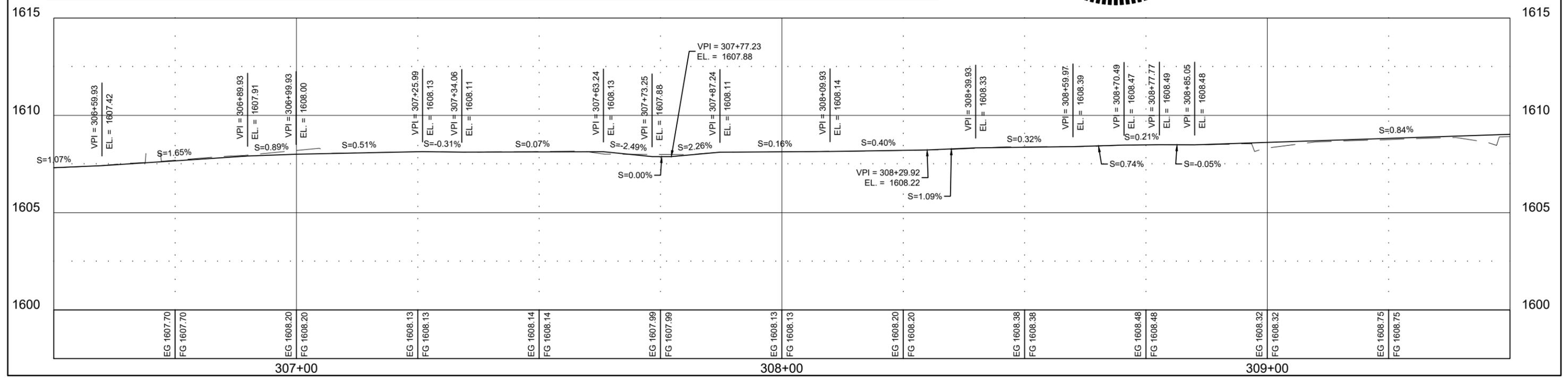
E 4TH STREET



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BCR: BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		ECR: END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FL: FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		ME: MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POF: POINT OF FILLET ELEVATION
	8.5" REINFORCED CONCRETE		R: RADIUS DIMENSION
	GRAVEL SURFACING		SW: SIDEWALK FINISH GRADE ELEVATION
	DRAINAGE FLOW ARROW		TC: TOP OF CURB ELEVATION
	MATCH LINE FOR QUANTITIES		THEO: THEORETICAL ELEVATION
	PEDESTRIAN ACCESS ROUTE		TR: TRANSITION TO DROP CURB
	SANITARY SEWER MANHOLE		VPI: VERTICAL POINT OF INTERSECTION
	STORM SEWER JUNCTION BOX		
	STORM SEWER DROP INLET		
	FIRE HYDRANT		
	WATER VALVE		
	SIDEWALK DRAIN		
	ADA DETECTABLE WARNING PANEL		
	PROPOSED LIGHT POLE (BY OTHERS)		
	CURB STOP		
	ADA RAMP LANDING AREA (2% MAX SLOPE)		



NOTES:
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.

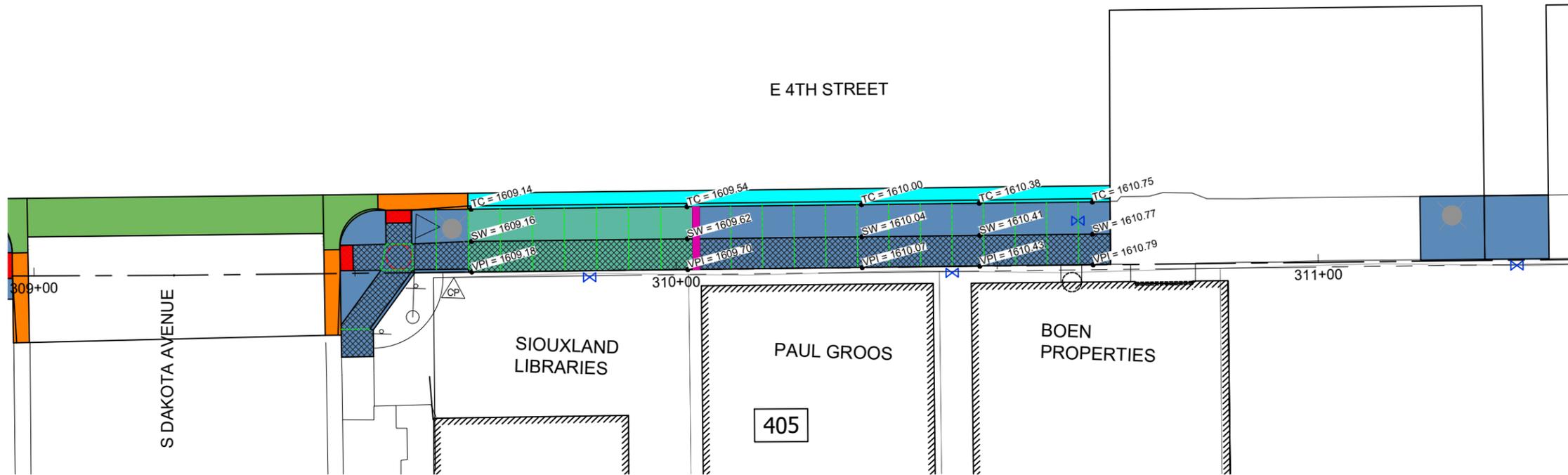


SOUTH 4TH STREET SIDEWALK PLAN AND PROFILE

BAI JOB # 24327-00

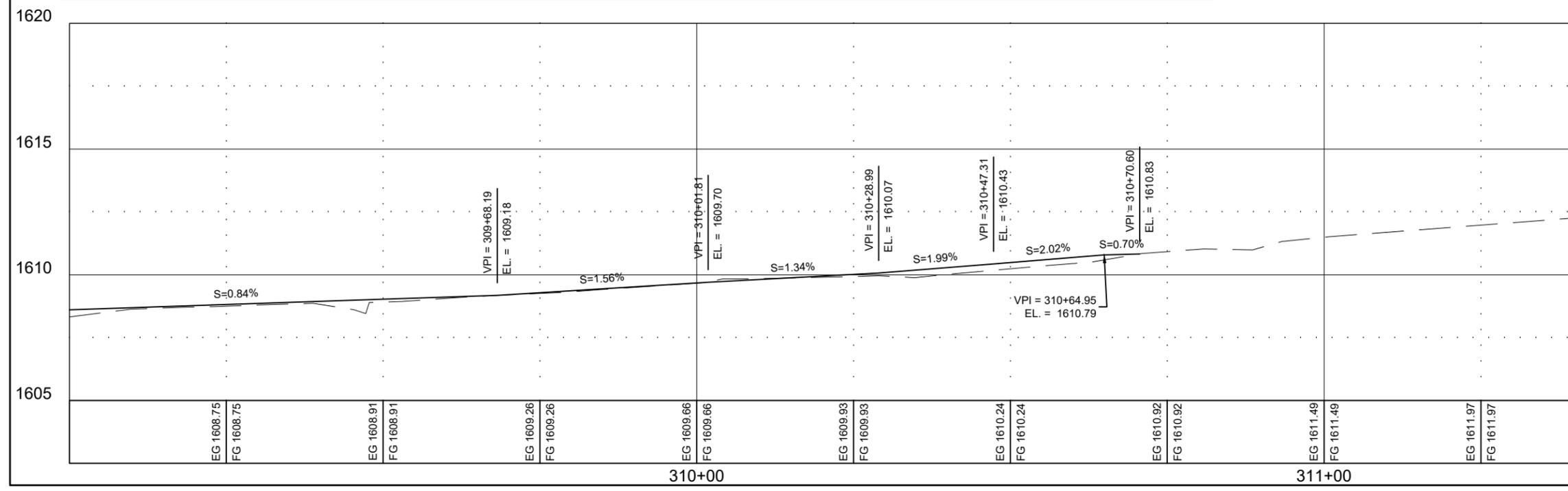
STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 71	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



LEGEND		ABBREVIATIONS	
	ASPHALT CONCRETE PAVEMENT		BCR: BEGIN CURB RADIUS ELEVATION
	6" CONCRETE SIDEWALK		ECR: END CURB RADIUS ELEVATION
	DROP CONCRETE CURB & GUTTER		FL: FLOW LINE ELEVATION
	CONCRETE CURB & GUTTER		ME: MATCH EXISTING ELEVATION
	6" REINFORCED CONCRETE SIDEWALK		POF: POINT OF FILLET ELEVATION
	8.5" REINFORCED CONCRETE		R: RADIUS DIMENSION
	GRAVEL SURFACING		SW: SIDEWALK FINISH GRADE ELEVATION
	DRAINAGE FLOW ARROW		TC: TOP OF CURB ELEVATION
	MATCH LINE FOR QUANTITIES		THEO: THEORETICAL ELEVATION
	PEDESTRIAN ACCESS ROUTE		TR: TRANSITION TO DROP CURB
	SANITARY SEWER MANHOLE		VPI: VERTICAL POINT OF INTERSECTION
	STORM SEWER JUNCTION BOX		
	STORM SEWER DROP INLET		
	FIRE HYDRANT		
	WATER VALVE		
	SIDEWALK DRAIN		
	ADA DETECTABLE WARNING PANEL		
	PROPOSED LIGHT POLE (BY OTHERS)		
	CURB STOP		
	ADA RAMP LANDING AREA (2% MAX SLOPE)		

NOTES:
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



INTERSECTION OF 4TH STREET & CHARLES AVENUE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 72	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



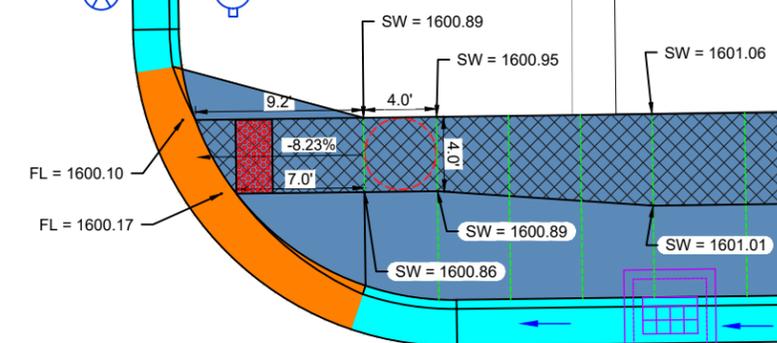
S CHARLES AVENUE

E 4TH STREET

3+00

S

GV



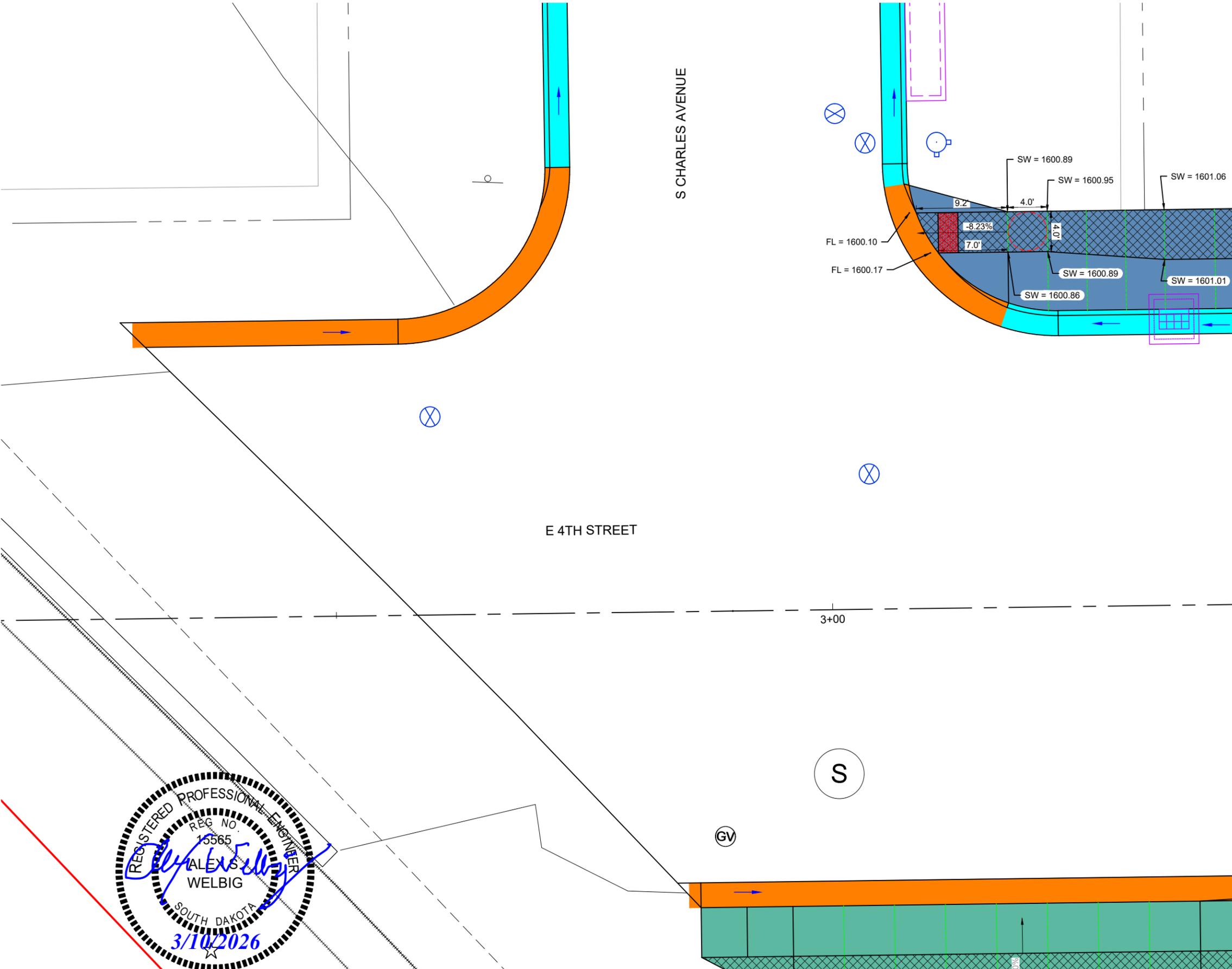
LEGEND

- ASPHALT CONCRETE PAVEMENT
- 6" CONCRETE SIDEWALK
- DROP CONCRETE CURB & GUTTER
- CONCRETE CURB & GUTTER
- 6" REINFORCED CONCRETE SIDEWALK
- 8" REINFORCED CONCRETE
- ADA DETECTABLE WARNING PANEL
- ADA RAMP LANDING AREA (2% MAX SLOPE)
- DRAINAGE FLOW ARROW
- PEDESTRIAN ACCESS ROUTE
- SANITARY SEWER MANHOLE
- STORM SEWER JUNCTION BOX
- STORM SEWER DROP INLET
- FIRE HYDRANT
- WATER VALVE
- CURB STOP

ABBREVIATIONS

- BCR: BEGIN CURB RADIUS ELEVATION
- ECR: END CURB RADIUS ELEVATION
- FL: FLOW LINE ELEVATION
- ME: MATCH EXISTING ELEVATION
- POF: POINT OF FILLET ELEVATION
- R: RADIUS DIMENSION
- SW: SIDEWALK FINISH GRADE ELEVATION
- TC: TOP OF CURB ELEVATION
- THEO: THEORETICAL ELEVATION
- TR: TRANSITION TO DROP CURB

NOTES:
CURB RADII ARE 15' TO BACK OF CURB UNLESS OTHERWISE INDICATED.
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.

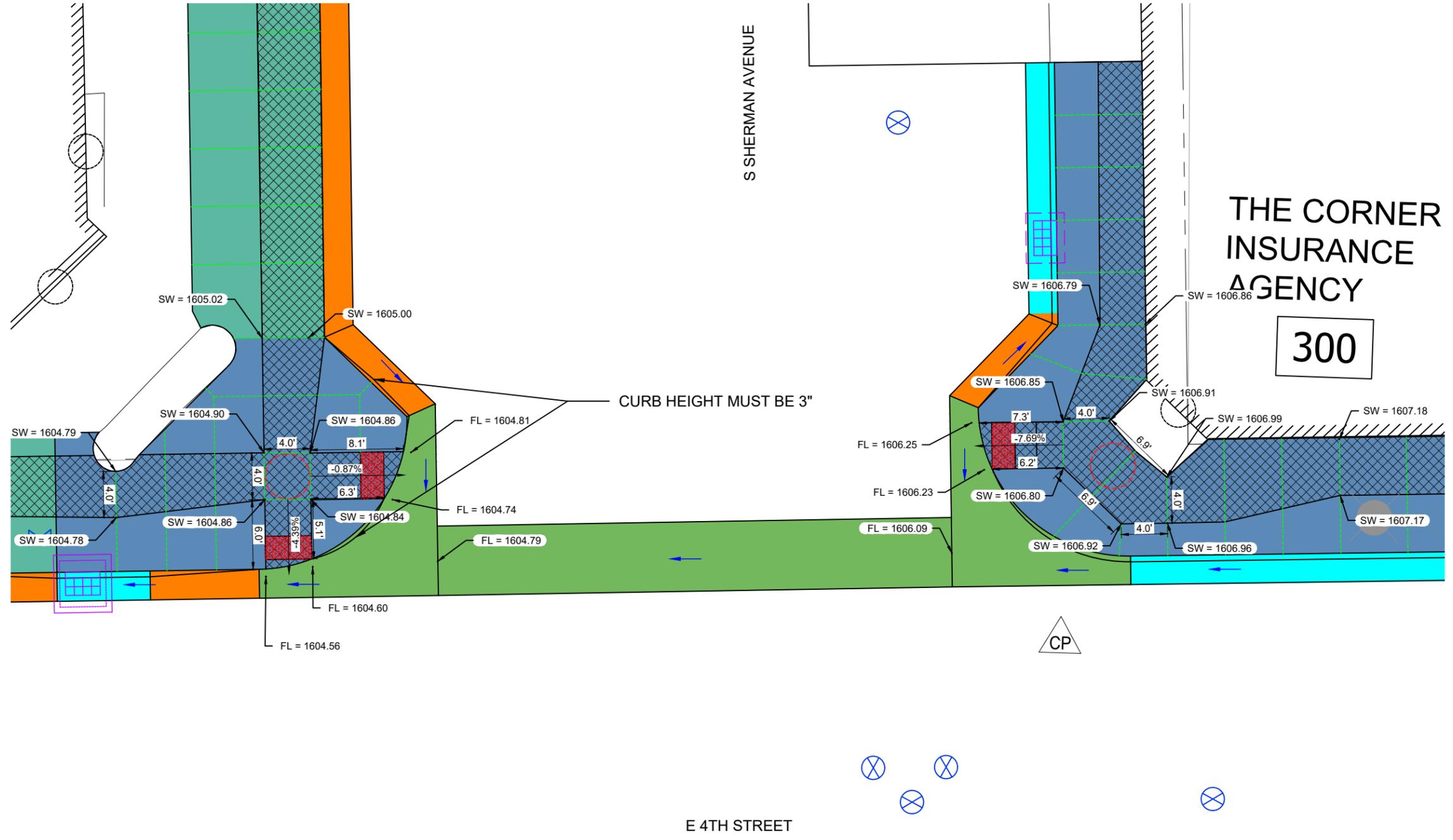


INTERSECTION OF NORTH 4TH STREET & SHERMAN AVENUE

BAJ JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 73	TOTAL SHEETS 112
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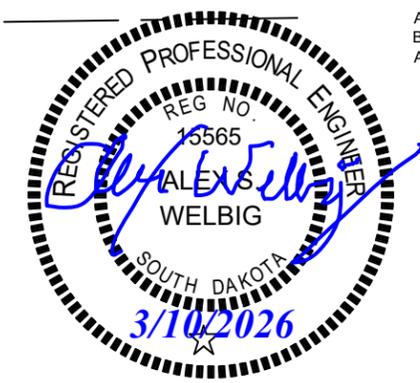
Plotting Date: 03/10/2026 Rev: ---



LEGEND	
	ASPHALT CONCRETE PAVEMENT
	6" CONCRETE SIDEWALK
	DROP CONCRETE CURB & GUTTER
	CONCRETE CURB & GUTTER
	6" REINFORCED CONCRETE SIDEWALK
	8" REINFORCED CONCRETE
	ADA DETECTABLE WARNING PANEL
	ADA RAMP LANDING AREA (2% MAX SLOPE)
	DRAINAGE FLOW ARROW
	PEDESTRIAN ACCESS ROUTE
	SANITARY SEWER MANHOLE
	STORM SEWER JUNCTION BOX
	STORM SEWER DROP INLET
	FIRE HYDRANT
	WATER VALVE
	CURB STOP

ABBREVIATIONS	
BCR:	BEGIN CURB RADIUS ELEVATION
ECR:	END CURB RADIUS ELEVATION
FL:	FLOW LINE ELEVATION
ME:	MATCH EXISTING ELEVATION
POF:	POINT OF FILLET ELEVATION
R:	RADIUS DIMENSION
SW:	SIDEWALK FINISH GRADE ELEVATION
TC:	TOP OF CURB ELEVATION
THEO:	THEORETICAL ELEVATION
TR:	TRANSITION TO DROP CURB

NOTES:
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 ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



S

7+00

INTERSECTION OF SOUTH 4TH STREET & SHERMAN AVENUE

BAJ JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 74	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---

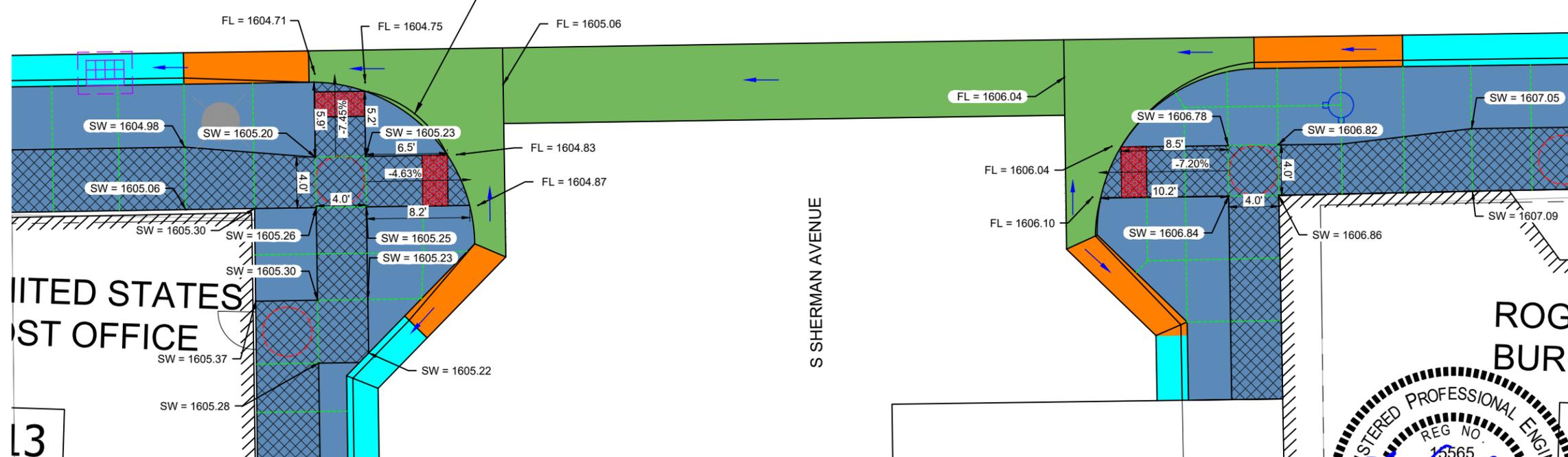


E 4TH STREET

S

S SHERMAN AVENUE

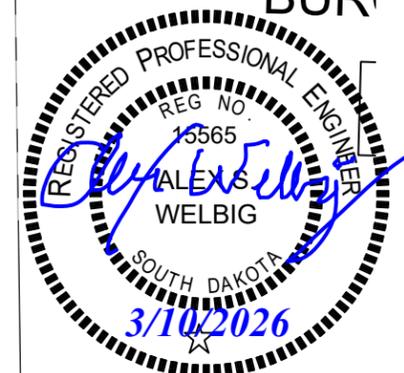
CURB HEIGHT MUST BE 3"



UNITED STATES
POST OFFICE

13

ROG
BUR



LEGEND	
	ASPHALT CONCRETE PAVEMENT
	6" CONCRETE SIDEWALK
	DROP CONCRETE CURB & GUTTER
	CONCRETE CURB & GUTTER
	6" REINFORCED CONCRETE SIDEWALK
	8" REINFORCED CONCRETE
	ADA DETECTABLE WARNING PANEL
	ADA RAMP LANDING AREA (2% MAX SLOPE)
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	PEDESTRIAN ACCESS ROUTE
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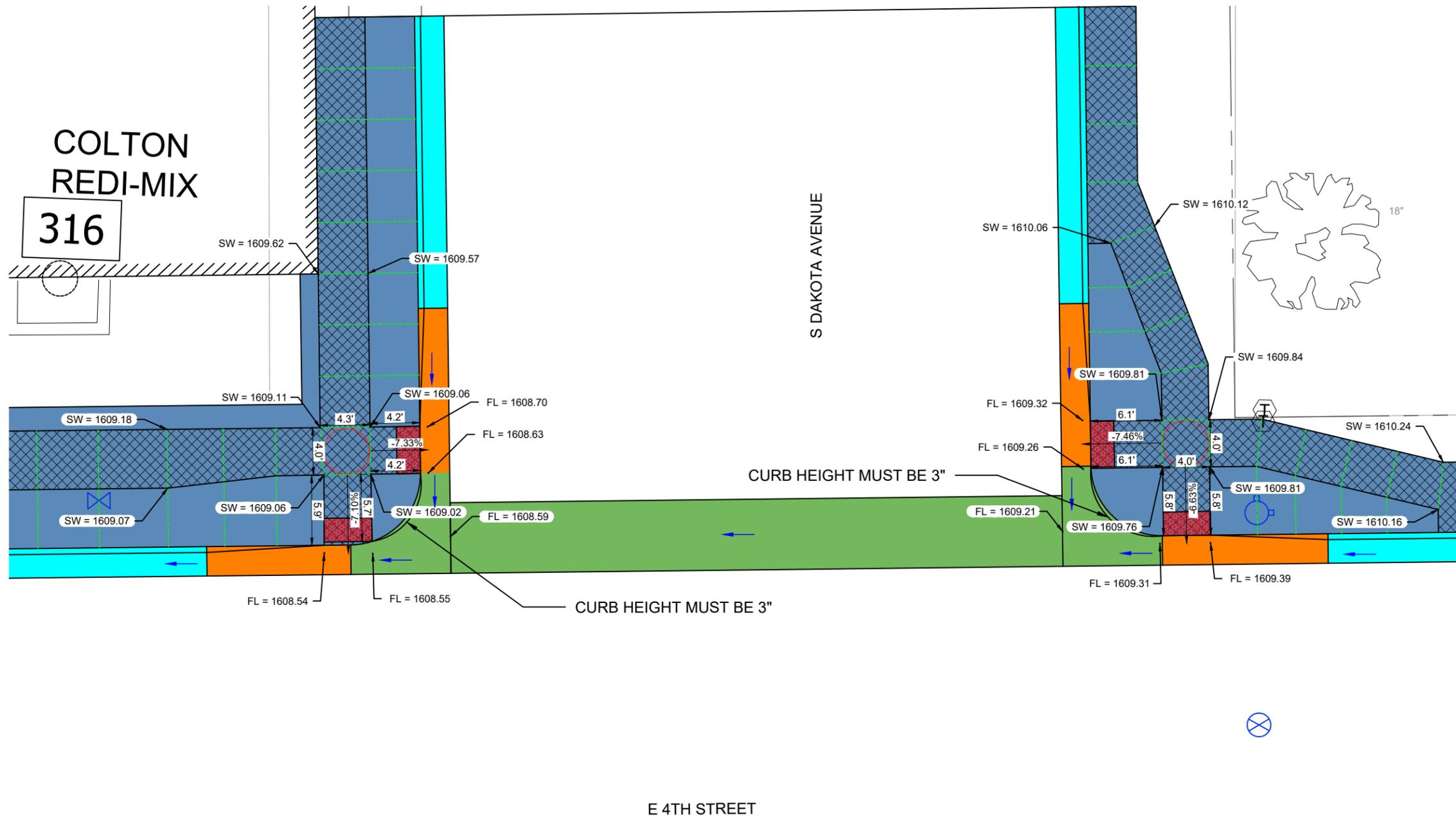
ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.

INTERSECTION OF NORTH 4TH STREET & SOUTH DAKOTA AVENUE

BAJ JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 75	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



LEGEND

- ASPHALT CONCRETE PAVEMENT
- 6" CONCRETE SIDEWALK
- DROP CONCRETE CURB & GUTTER
- CONCRETE CURB & GUTTER
- 6" REINFORCED CONCRETE SIDEWALK
- 8" REINFORCED CONCRETE
- ADA DETECTABLE WARNING PANEL
- ADA RAMP LANDING AREA (2% MAX SLOPE)
- DRAINAGE FLOW ARROW
- PEDESTRIAN ACCESS ROUTE
- SANITARY SEWER MANHOLE
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- FIRE HYDRANT
- WATER VALVE
- CURB STOP

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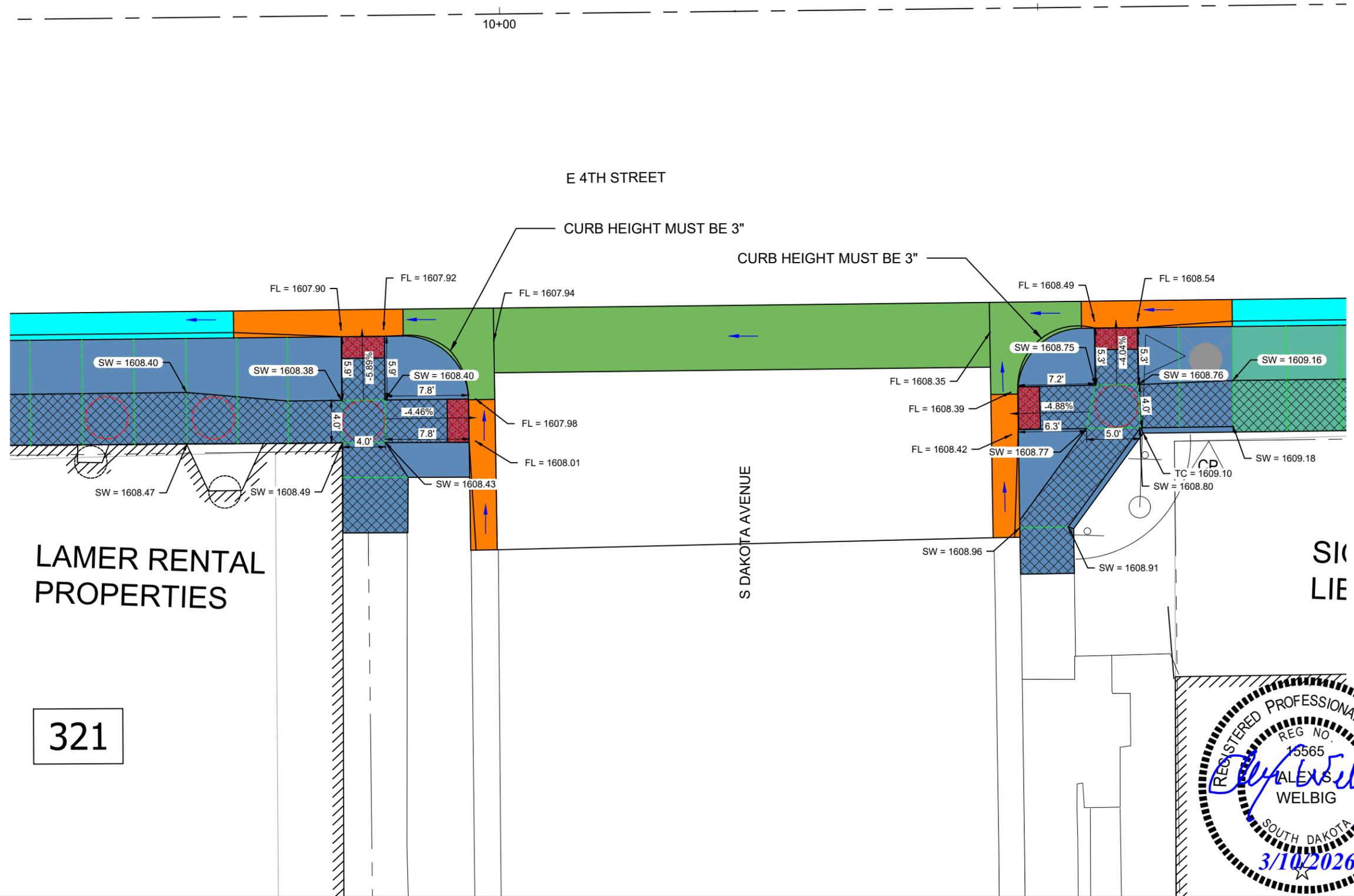
10+00

INTERSECTION OF SOUTH 4TH STREET & SOUTH DAKOTA AVENUE

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 76	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



LEGEND

- ASPHALT CONCRETE PAVEMENT
- 6" CONCRETE SIDEWALK
- DROP CONCRETE CURB & GUTTER
- CONCRETE CURB & GUTTER
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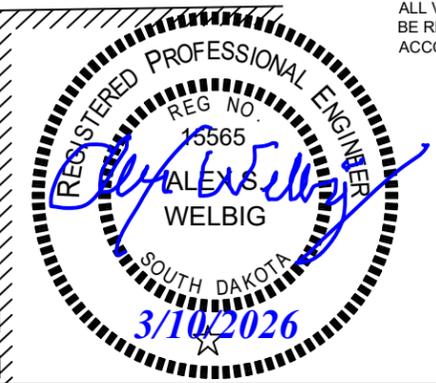
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LAMER RENTAL PROPERTIES

S DAKOTA AVENUE

SILIE

321

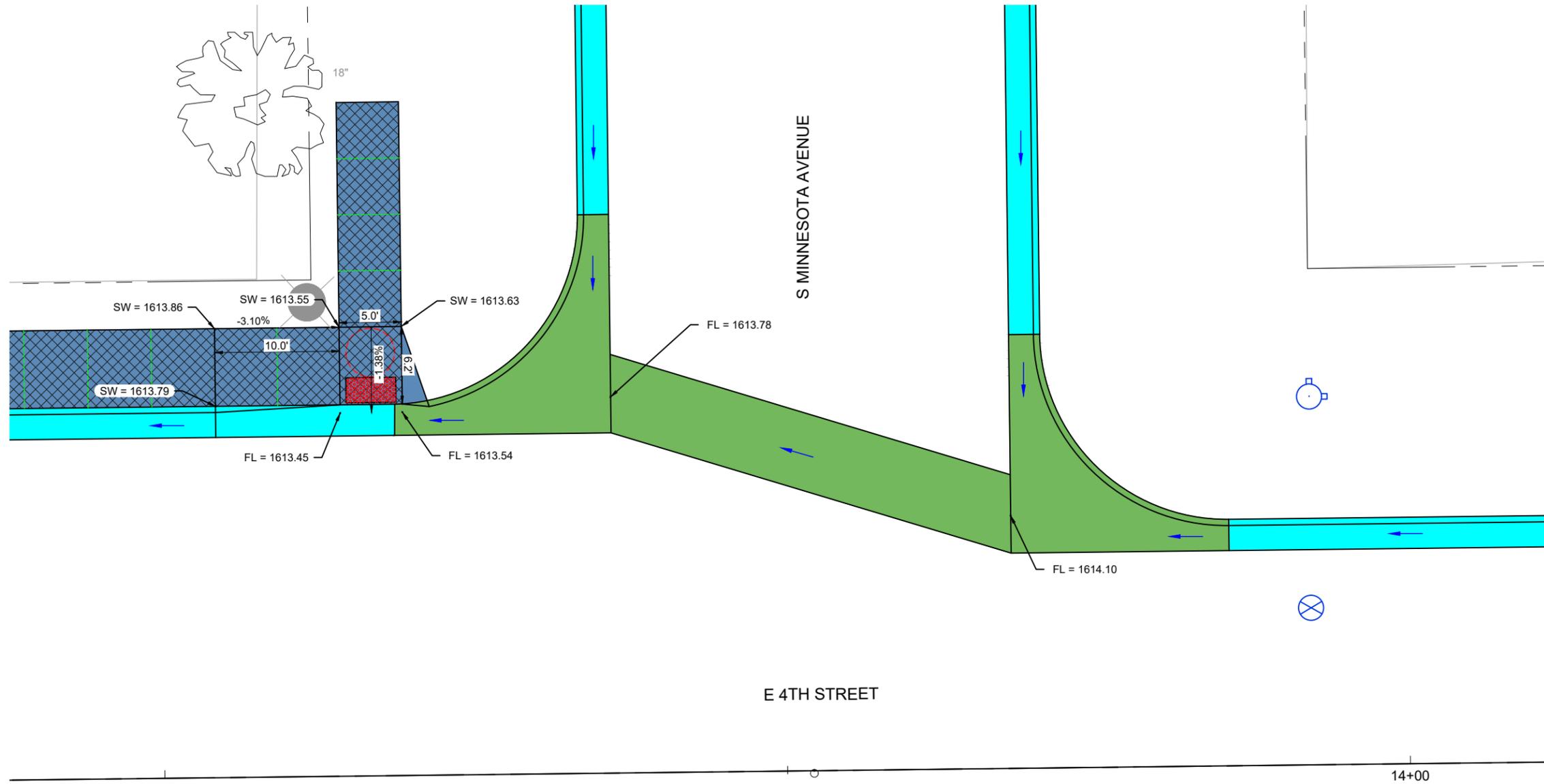


INTERSECTION OF 4TH STREET & MINNESOTA AVENUE

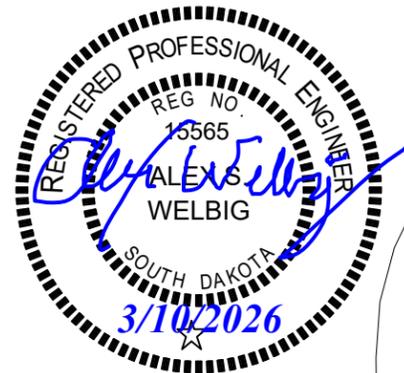
BAI JOB # 24327-00

STATE OF SOUTH DAKOTA	PROJECT PTAPR(57), CA 024A, C462135-05	SHEET 77	TOTAL SHEETS 112
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Plotting Date: 03/10/2026 Rev: ---



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 ALL VALLEY GUTTERS AND FILLETS WILL BE REINFORCED CONCRETE IN ACCORDANCE WITH PROJECT DETAILS.



PAVEMENT MARKING

BAI JOB # 24327-00

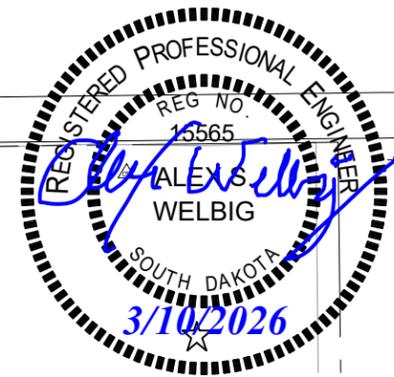
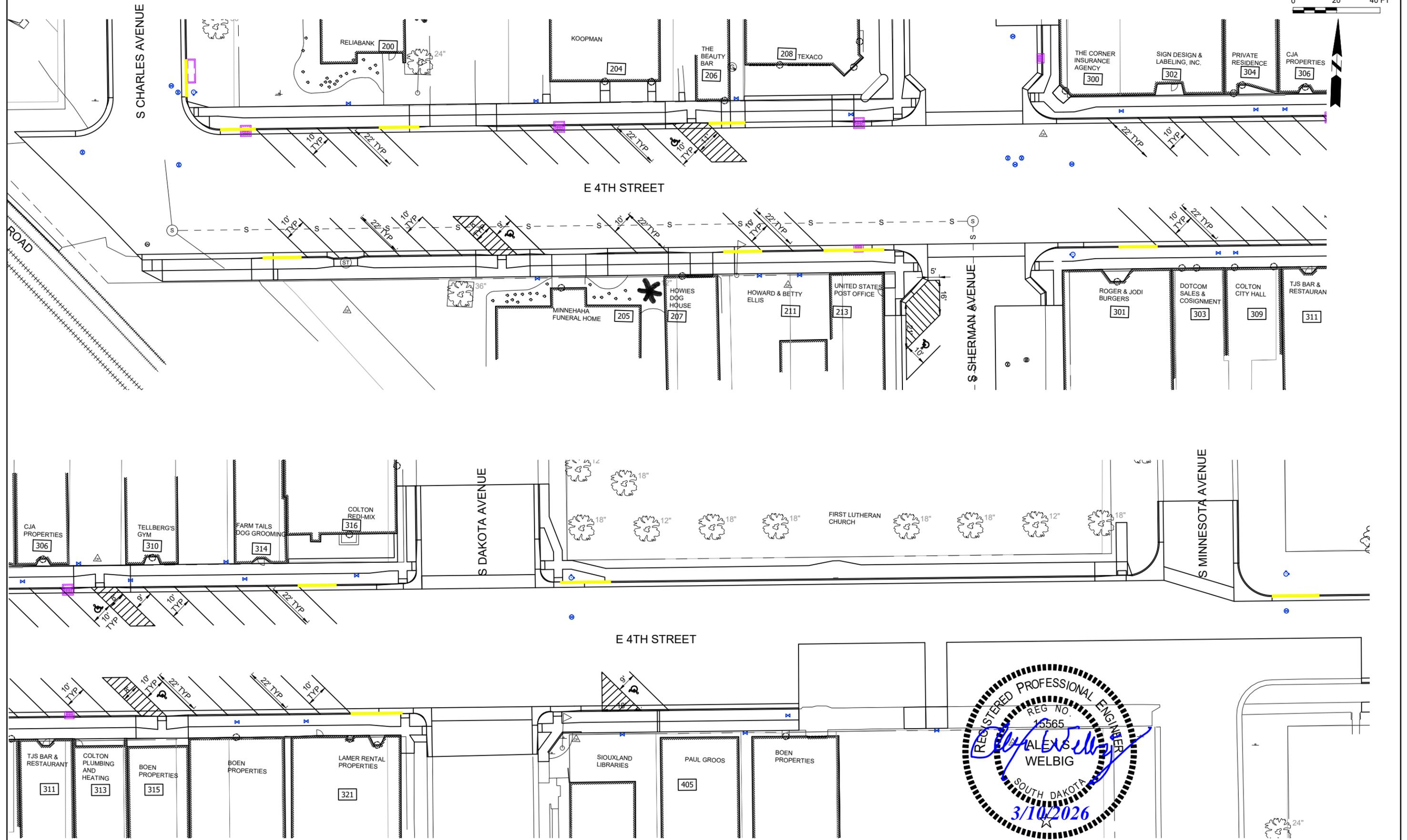
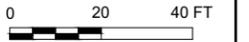
STATE OF SOUTH DAKOTA

PROJECT
PTAPR(67), CA 024A, C462135-05

SHEET
78

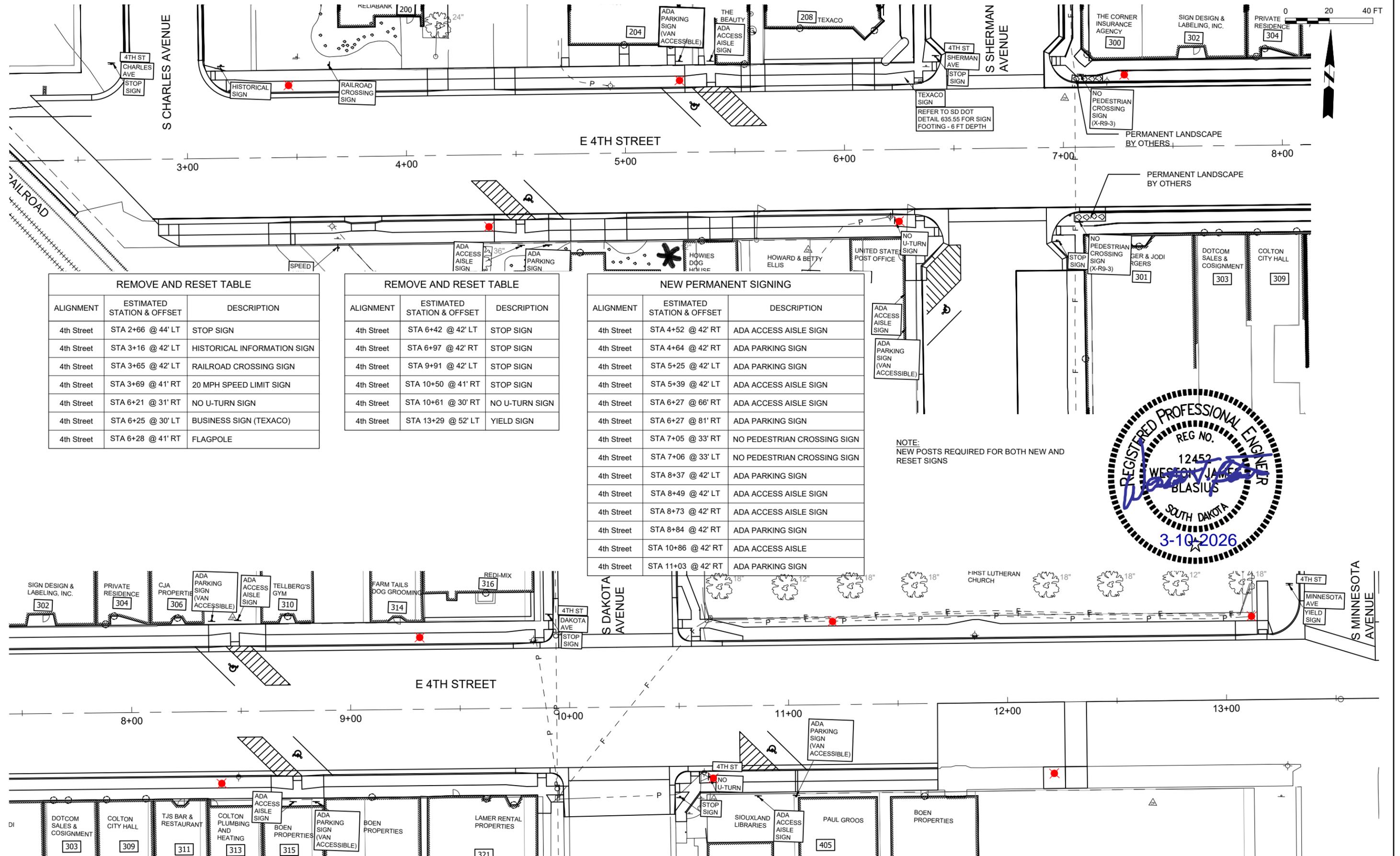
TOTAL SHEETS
112

Plotting Date: 03/10/2026 Rev: ---



ROADWAY LIGHTING AND SIGNING

Plotting Date: 03/10/2026 Rev: ---

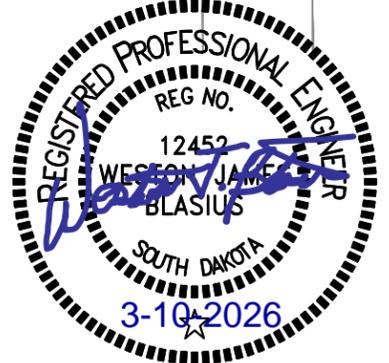


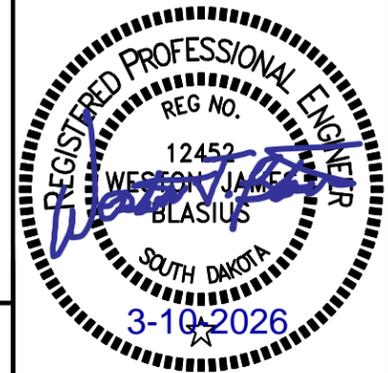
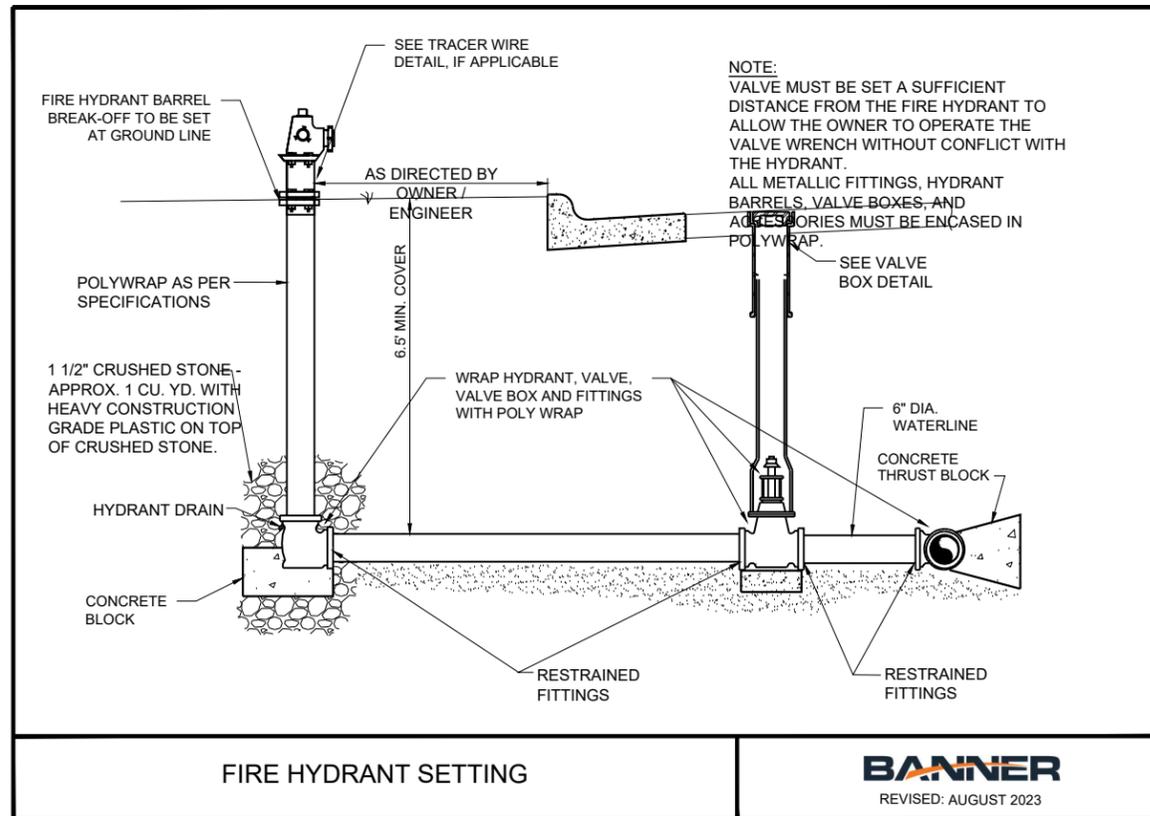
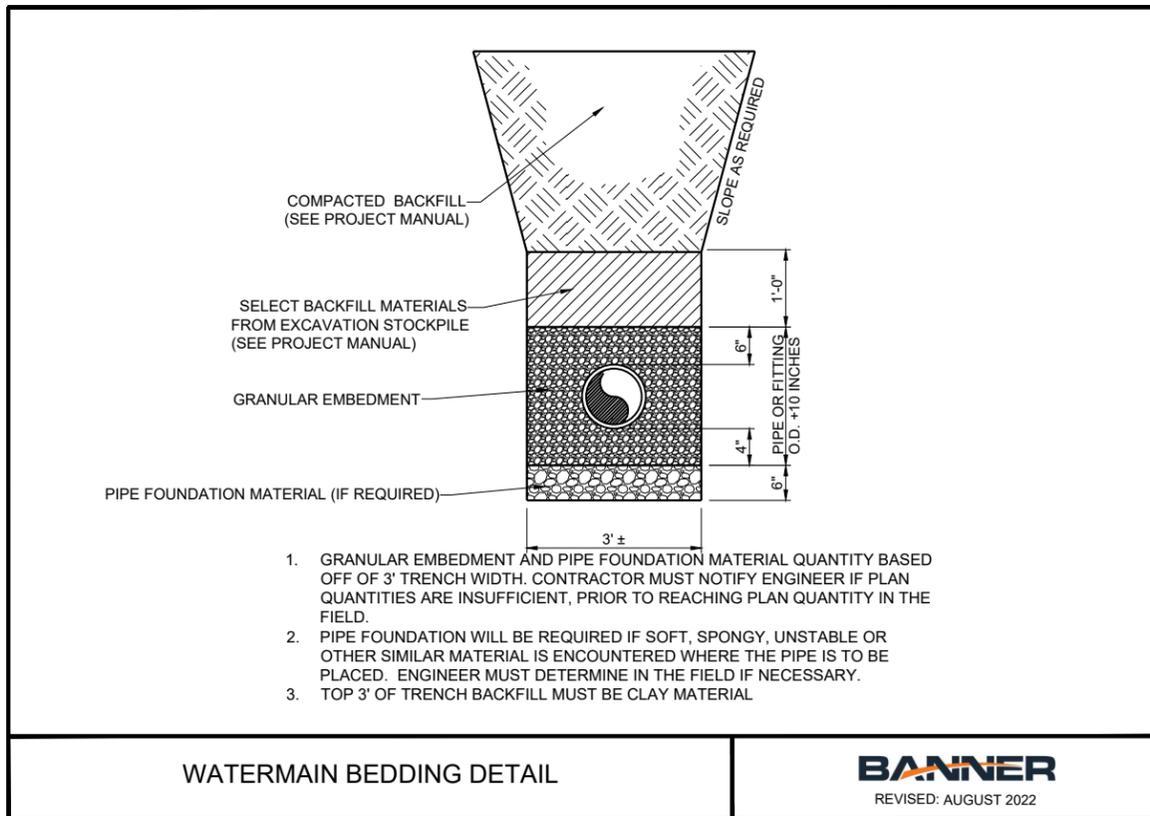
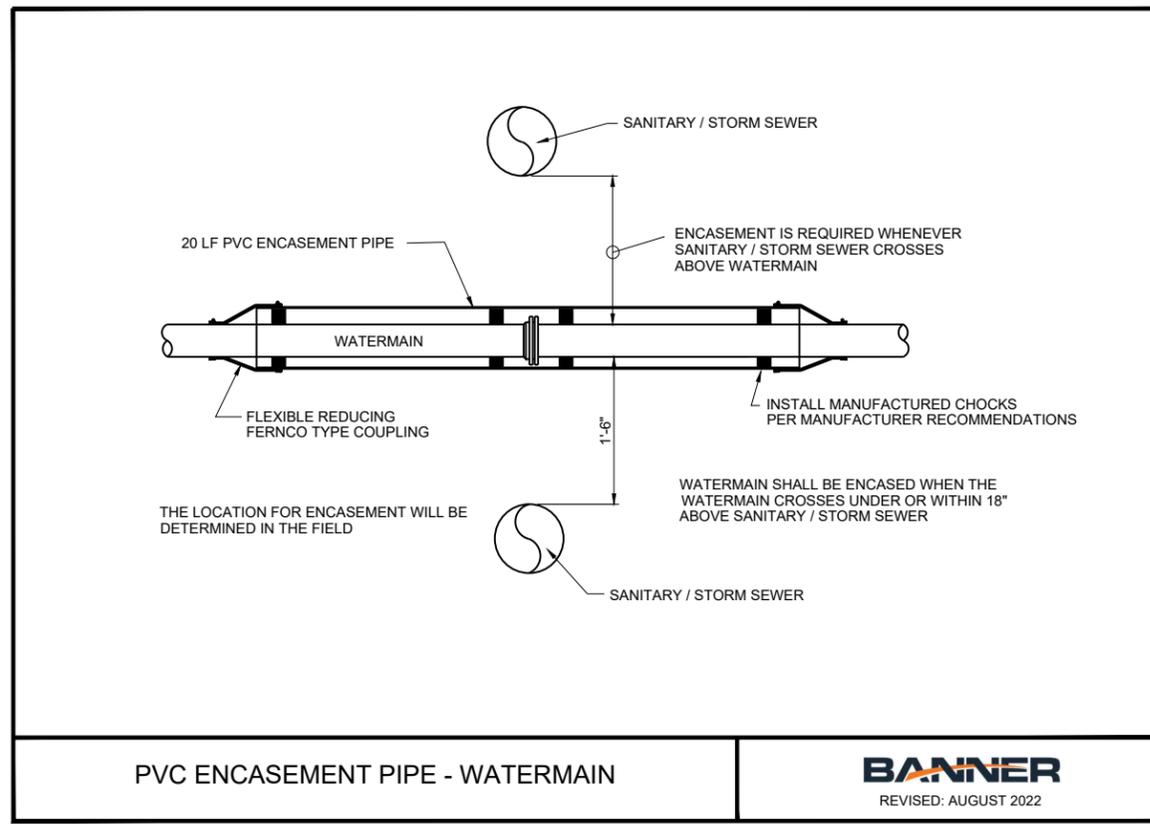
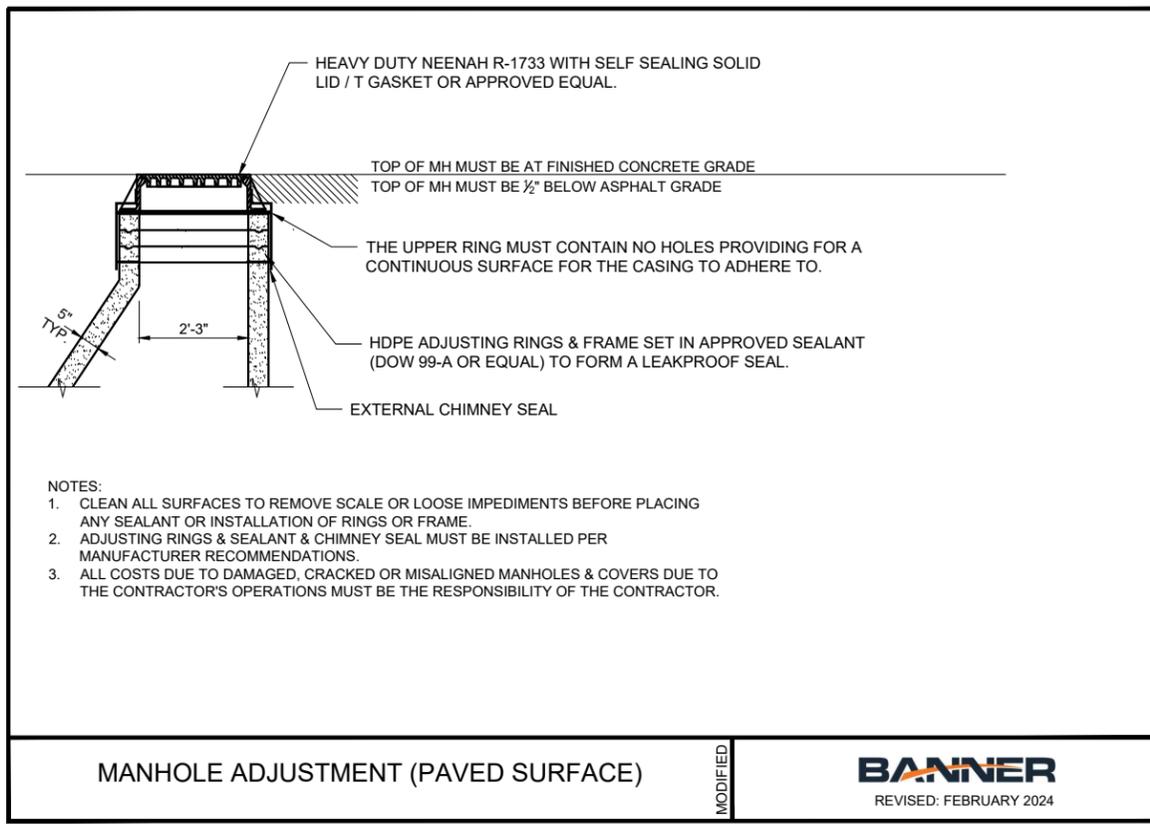
REMOVE AND RESET TABLE		
ALIGNMENT	ESTIMATED STATION & OFFSET	DESCRIPTION
4th Street	STA 2+66 @ 44' LT	STOP SIGN
4th Street	STA 3+16 @ 42' LT	HISTORICAL INFORMATION SIGN
4th Street	STA 3+65 @ 42' LT	RAILROAD CROSSING SIGN
4th Street	STA 3+69 @ 41' RT	20 MPH SPEED LIMIT SIGN
4th Street	STA 6+21 @ 31' RT	NO U-TURN SIGN
4th Street	STA 6+25 @ 30' LT	BUSINESS SIGN (TEXACO)
4th Street	STA 6+28 @ 41' RT	FLAGPOLE

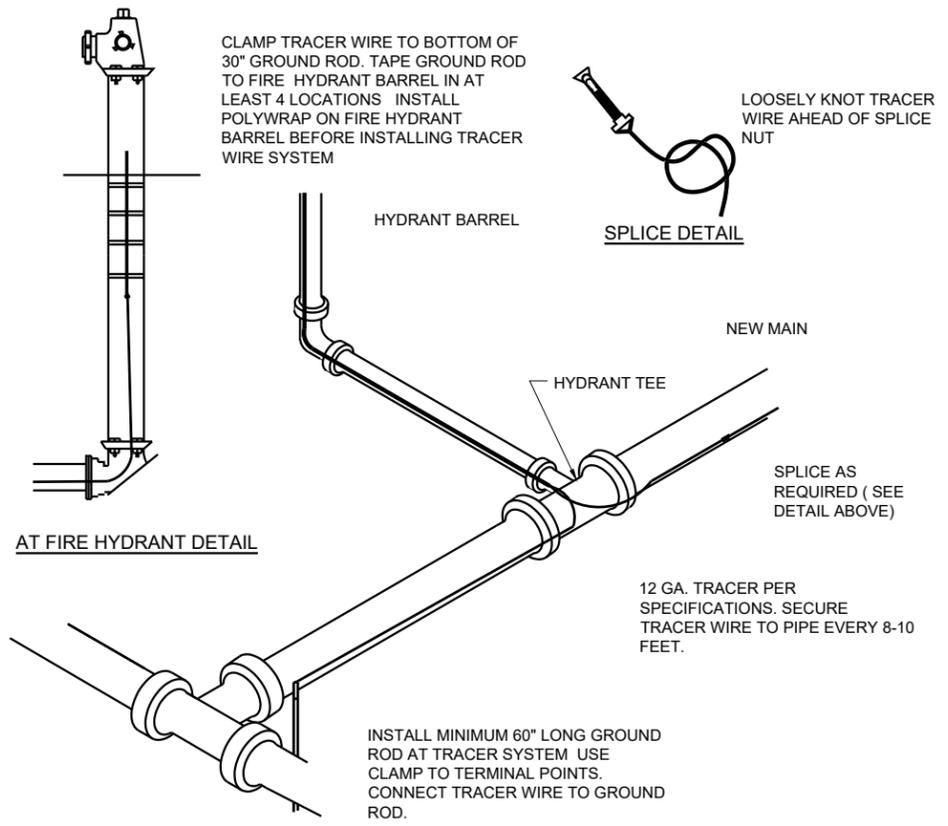
REMOVE AND RESET TABLE		
ALIGNMENT	ESTIMATED STATION & OFFSET	DESCRIPTION
4th Street	STA 6+42 @ 42' LT	STOP SIGN
4th Street	STA 6+97 @ 42' RT	STOP SIGN
4th Street	STA 9+91 @ 42' LT	STOP SIGN
4th Street	STA 10+50 @ 41' RT	STOP SIGN
4th Street	STA 10+61 @ 30' RT	NO U-TURN SIGN
4th Street	STA 13+29 @ 52' LT	YIELD SIGN

NEW PERMANENT SIGNING		
ALIGNMENT	ESTIMATED STATION & OFFSET	DESCRIPTION
4th Street	STA 4+52 @ 42' RT	ADA ACCESS AISLE SIGN
4th Street	STA 4+64 @ 42' RT	ADA PARKING SIGN
4th Street	STA 5+25 @ 42' LT	ADA PARKING SIGN
4th Street	STA 5+39 @ 42' LT	ADA ACCESS AISLE SIGN
4th Street	STA 6+27 @ 66' RT	ADA ACCESS AISLE SIGN
4th Street	STA 6+27 @ 81' RT	ADA PARKING SIGN
4th Street	STA 7+05 @ 33' RT	NO PEDESTRIAN CROSSING SIGN
4th Street	STA 7+06 @ 33' LT	NO PEDESTRIAN CROSSING SIGN
4th Street	STA 8+37 @ 42' LT	ADA PARKING SIGN
4th Street	STA 8+49 @ 42' LT	ADA ACCESS AISLE SIGN
4th Street	STA 8+73 @ 42' RT	ADA ACCESS AISLE SIGN
4th Street	STA 8+84 @ 42' RT	ADA PARKING SIGN
4th Street	STA 10+86 @ 42' RT	ADA ACCESS AISLE
4th Street	STA 11+03 @ 42' RT	ADA PARKING SIGN

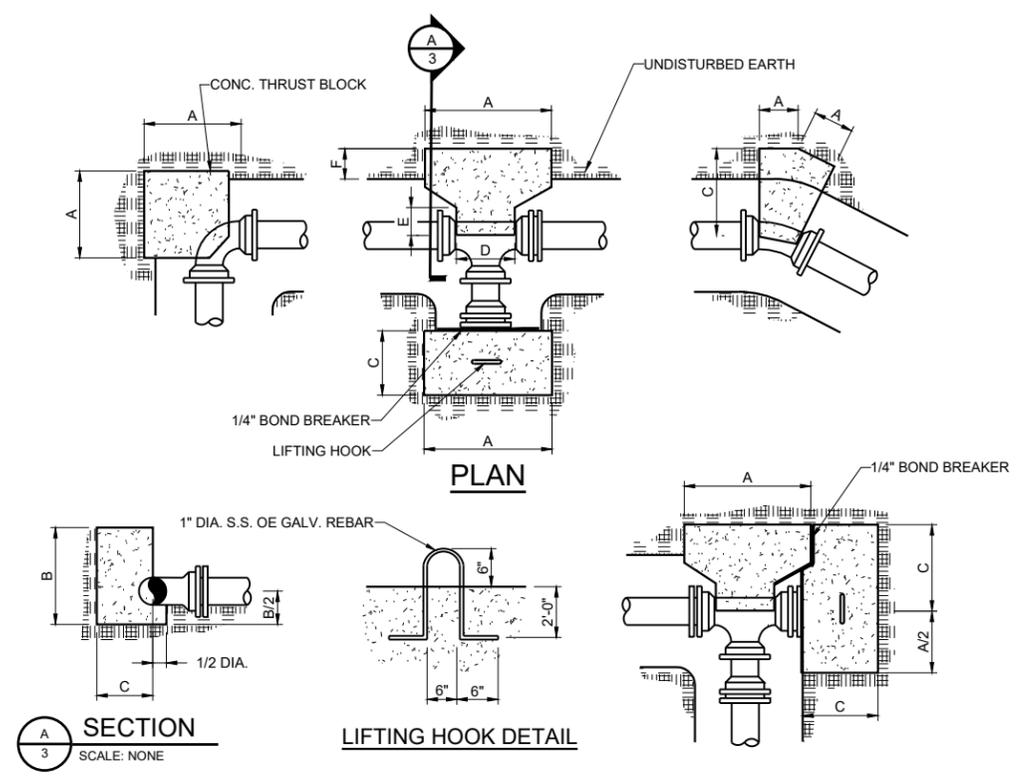
NOTE: NEW POSTS REQUIRED FOR BOTH NEW AND RESET SIGNS







TRACER WIRE TERMINATION

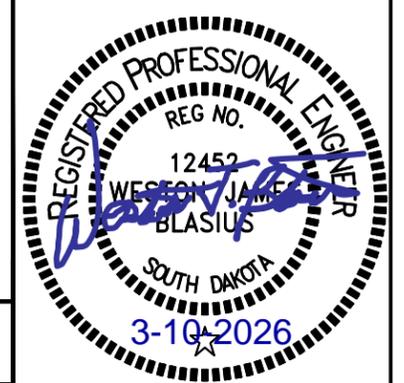


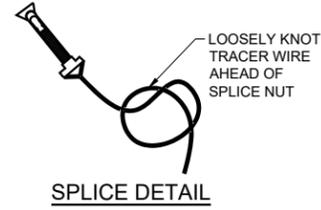
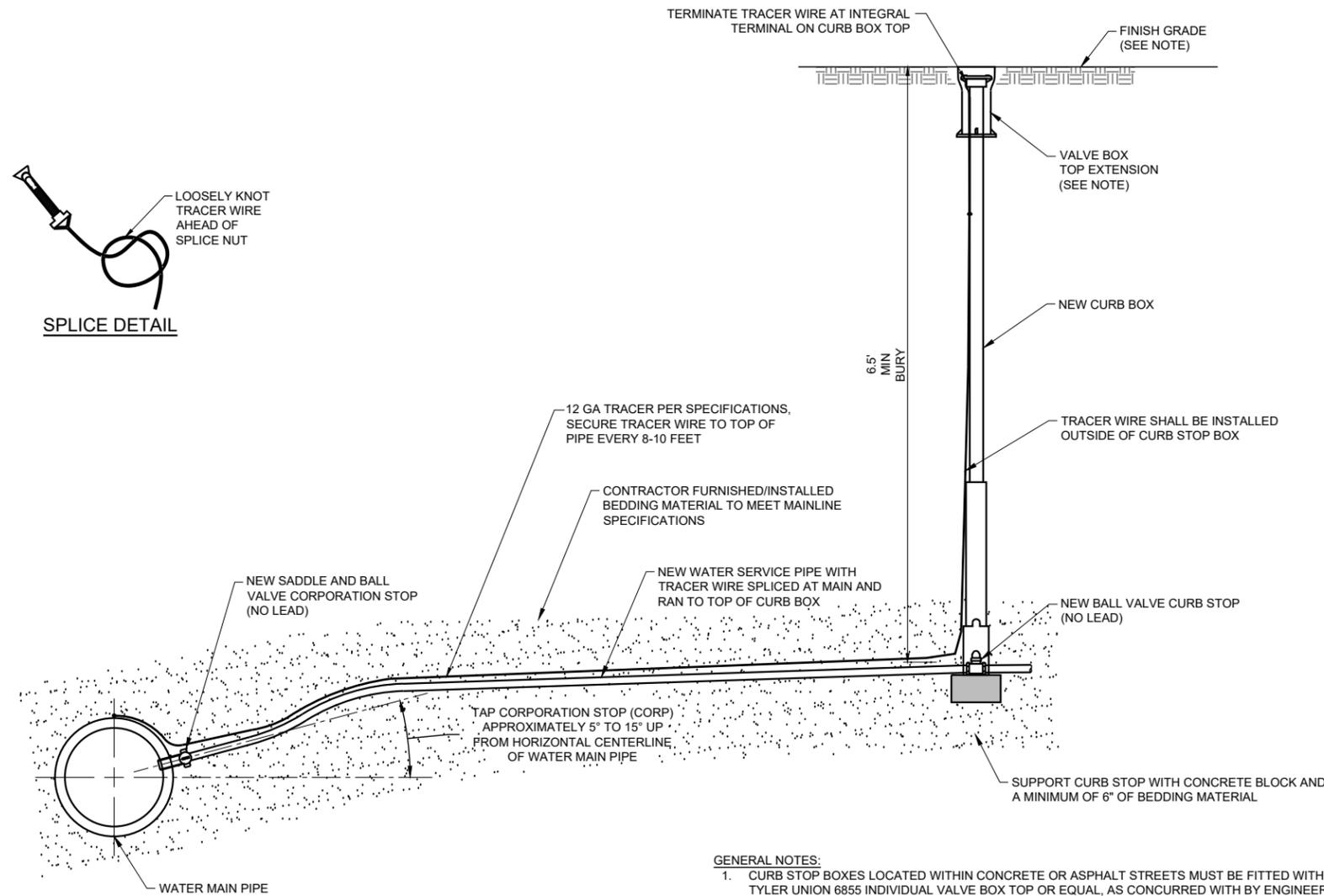
PIPE DIA.	BLOCKING DIMENSIONS																				
	TEES						PLUGS			90° BENDS			45° BENDS			22 1/2° BENDS			11 1/4° BENDS		
	A	B	C	D	E	F	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
4"	18	18	15	12	5	10	18	18	15	22	22	18	16	16	13	12	12	10	8	8	7
6"	26	26	21	14	6	14	26	26	21	32	32	26	24	24	20	16	16	13	12	12	10
8"	34	34	28	16	7	19	34	34	28	42	42	34	30	30	24	22	22	18	16	16	13
10"	44	44	36	20	8	24	44	44	36	52	52	42	38	38	31	28	28	23	20	20	16

NOTE:
ALL DIMENSIONS ARE IN INCHES. BLOCKING DESIGN FOR 1500 PSI AND 1500 PSI SOIL BEARING. BLOCKING FOR REDUCED BRANCH TEE MUST BE AS LISTED UNDER TEES AND BRANCH DIAMETER. MAINTAIN MINIMUM "F" DIMENSION.

- THRUST BLOCKING NOTES:**
1. PLACE DOUBLE LAYER OF PAPER BETWEEN CONCRETE BLOCKING AND PLUG.
 2. MINIMUM THICKNESS OF CONCRETE BETWEEN FITTING AND UNDISTURBED SOIL MUST BE 8".
 3. ALL THRUST BLOCKS MUST BE CAST-IN-PLACE. PRECAST BLOCKS ARE NOT ACCEPTABLE.
 4. ALL VALVES AND FITTINGS MUST BE POLY WRAPPED.
 5. COMPRESSIVE STRENGTH FOR THRUST BLOCKS MUST NOT BE LESS THAN 3000 PSI.

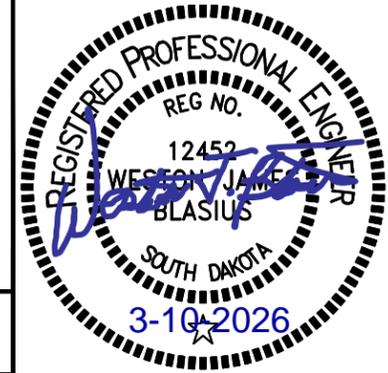
CAST IN PLACE CONCRETE BLOCKING DETAILS



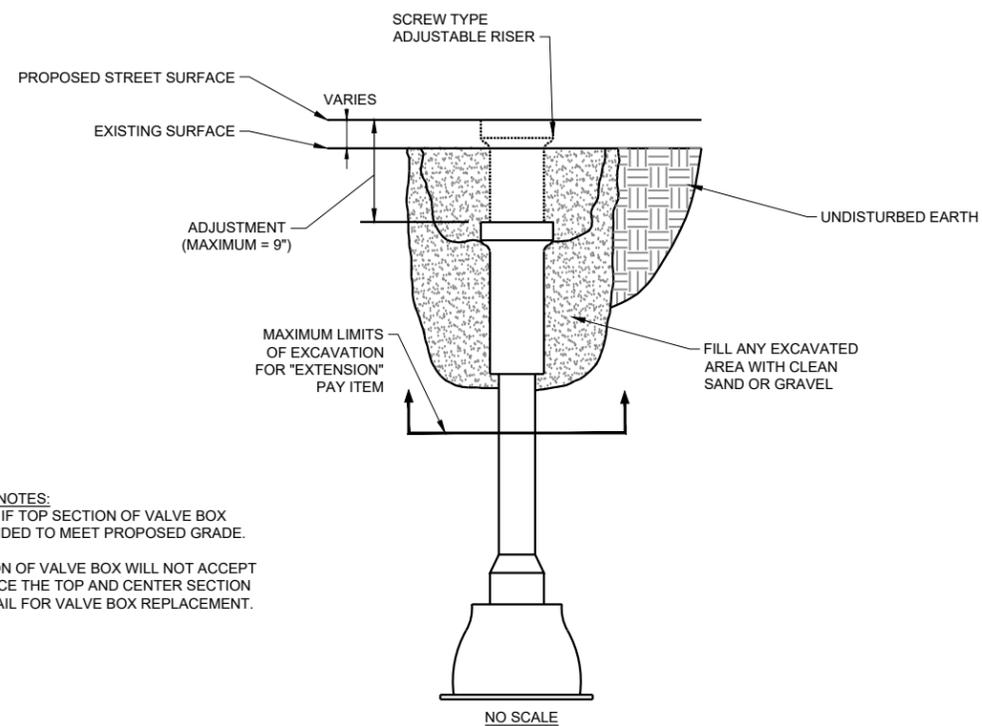


GENERAL NOTES:

1. CURB STOP BOXES LOCATED WITHIN CONCRETE OR ASPHALT STREETS MUST BE FITTED WITH TYLER UNION 6855 INDIVIDUAL VALVE BOX TOP OR EQUAL, AS CONCURRED WITH BY ENGINEER, (10" MINIMUM LENGTH) AND 5.25" DROP LID. THE CURB STOP WILL BE CENTERED WITHIN THE VALVE BOX TOP EXTENSION WITH MINIMUM OF 4" VERTICAL CLEARANCE FROM VALVE BOX DROP LID. THE VALVE BOX TOP EXTENSION WILL SIT FLUSH WITH THE FINISH GRADE.
2. THE BALL VALVE OPERATIONAL NUT MUST BE LOCATED ON THE TOP HALF OF THE CORPORATION STOP UPON INSTALLATION.
3. DEPTH OF EXISTING SERVICE LINES ARE UNKNOWN. CONTRACTORS MUST HAVE ON HAND VARYING LENGTHS OF BOX AND RODS TO ACCOMMODATE VARYING DEPTHS.



**VALVE BOX EXTENSION
(OR REPLACEMENT OF TOP SECTION)**



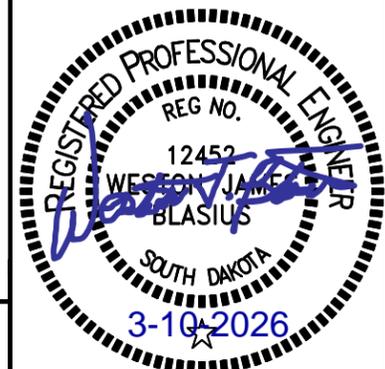
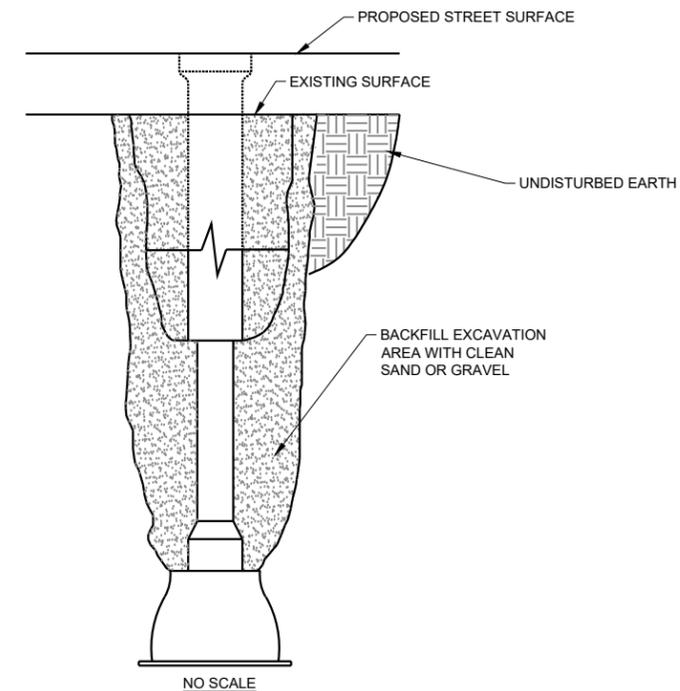
VALVE BOX EXTENSION NOTES:

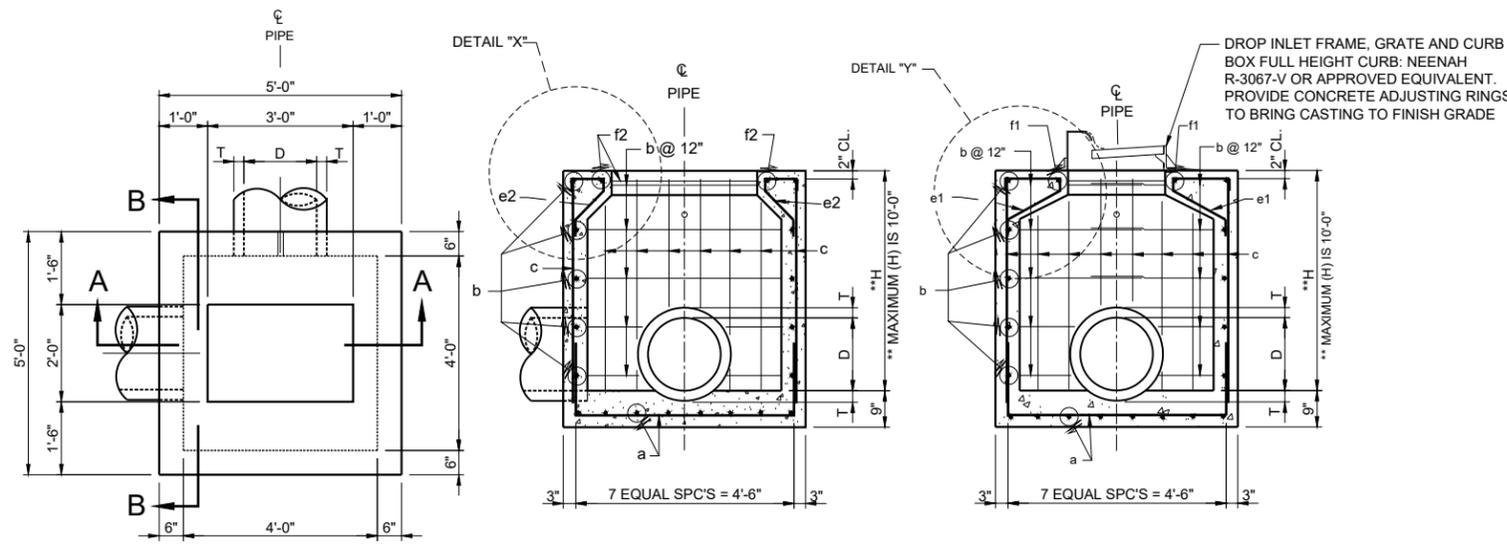
1. USE THIS METHOD IF TOP SECTION OF VALVE BOX CANNOT BE EXTENDED TO MEET PROPOSED GRADE.
2. IF THE TOP SECTION OF VALVE BOX WILL NOT ACCEPT THE RISER, REPLACE THE TOP AND CENTER SECTION AS SHOWN IN DETAIL FOR VALVE BOX REPLACEMENT.

GENERAL NOTES:

1. NON-THREADED ADJUSTMENTS WILL NOT BE ALLOWED.
2. PLUMB VALVE BOX PRIOR TO BACKFILLING. ALL VALVE BOXES MUST 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 MUST BE 0" TO 1/2" LOW. IN NO CASE MUST THE VALVE BOX BE ABOVE THE SURFACE OF THE PAVEMENT.
3. IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A SYSTEM TO PREVENT MATERIAL FROM ENTERING THE VALVE BOX DURING THE WORK.
4. ALL ADJUSTMENTS MUST BE COMPLETED PRIOR TO OPENING UP THE STREET TO TRAFFIC.

VALVE BOX INSTALLATION

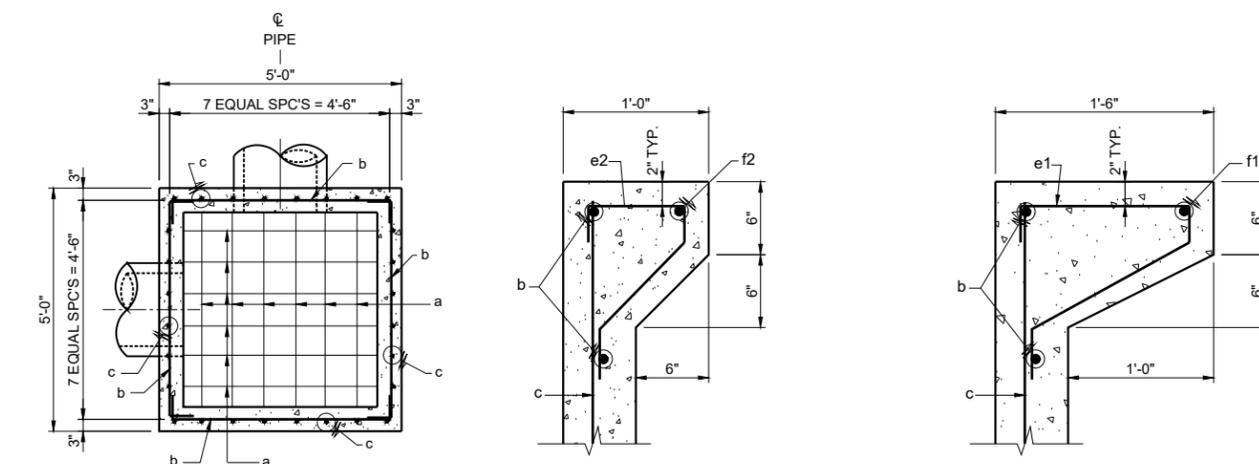




PLAN

SECTION A-A

SECTION B-B



BOTTOM SECTION

TYPICAL SEC. TOP OF WALL

TYPICAL SEC. TOP OF WALL

PIPE DISPLACEMENT REDUCTIONS		
R.C. PIPE DIAMETER INCHES	T INCHES	CONCRETE CU. YD.
12	2	0.03
15	2 1/4	0.04
18	2 1/2	0.05
24	3	0.09
30	3 1/2	0.14
36	4	0.20

DROP INLETS FOR 12" TO 36" DIAMETER PIPE			
ESTIMATED QUANTITIES			
ITEM	UNIT	CONSTANT QUANTITY	VARIABLE QUANTITY
*CLASS M-6 CONCRETE	CU. YD.	0.97	0.33H
REINFORCING STEEL	LB.	207	43.90H
GRATE ASSEMBLY	EACH	1	

REINFORCING SCHEDULE				
MK.	NO.	SIZE	LENGTH	TYPE
a	16	5	8'-0"	17
b	4H	4	5'-6"	17
c	28	5	H-2"	STR.
e1	12	5	3'-3"	16A
e2	8	5	2'-6"	16A
f1	2	5	4'-6"	17
f2	2	5	3'-6"	17

TYPE 17

TYPE 17

TYPE 17

TYPE 16A

TYPE 16A

TYPE 16A

NOTE:
ALL DIMENSIONS ARE OUT TO OUT OF BARS.

GENERAL NOTES:

* REDUCE TOTAL QUANTITIES OF CONCRETE BY THE AMOUNT OF CONCRETE DISPLACED BY THE PIPE. TOTAL QUANTITY OF CONCRETE TO BE COMPUTED TO THE NEAREST HUNDREDTH OF A CU. YD. TOTAL QUANTITY OF REINFORCING STEEL TO BE COMPUTED TO THE NEAREST POUND.

DROP INLETS SHOWN MAY BE MODIFIED BY THE ADDITION OR OMISSION OF CONNECTING PIPES AS SHOWN ON LAYOUT.

REINFORCING STEEL MUST CONFORM TO ASTM A615 GRADE 60. CUT AND BEND REINFORCING STEEL AS REQUIRED TO PLACE PIPE(S) THRU DROP INLET WALL.

USE 2" CLEAR COVER ON ALL REINFORCING STEEL UNLESS OTHERWISE NOTED.

PRECASTING OF REINFORCED DROP INLETS WILL BE PERMISSIBLE. PRIOR TO PRECASTING THE CONTRACTOR MUST SUBMIT DETAILS TO THE ENGINEER FOR APPROVAL.

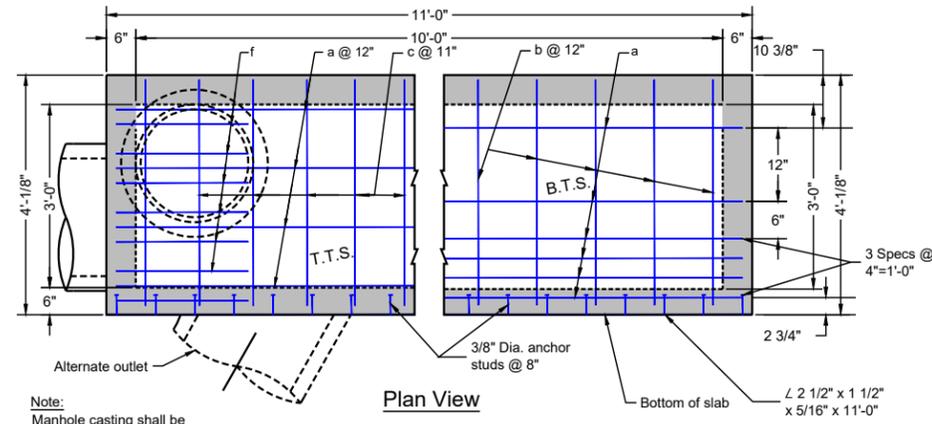
THE DIMENSION OF "H" IS IN FEET.

WEEP HOLES MUST BE PROVIDED AT STREET SUBGRADE ON THE STREET SIDE OF DROP INLET.

REINFORCED CONCRETE DROP INLET
- SPECIAL TYPE B (4'x4')

BANNER
REVISED: AUGUST 2022

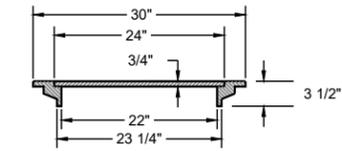




Plan View

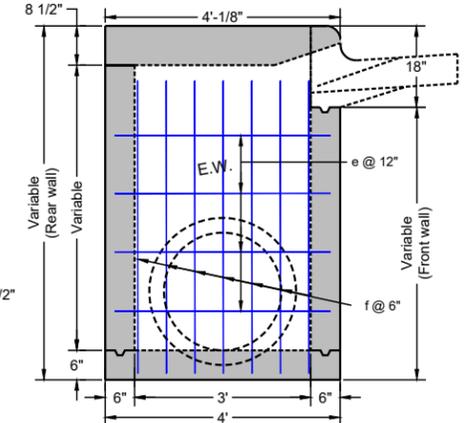
Legend For Placing Re-Steel

- T.T.S. ~ Top of top slab
- B.T.S. ~ Bottom of top slab
- F.W. ~ Front wall
- R.W. ~ Rear wall
- E.W. ~ End wall
- B.S. ~ Bottom slab

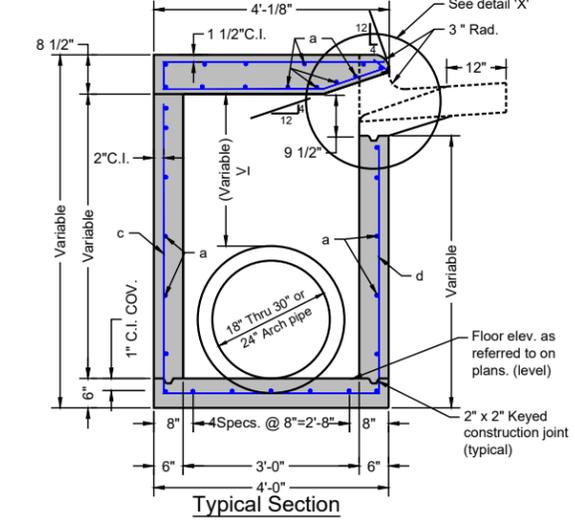


Typical Section Thru Manhole Assembly

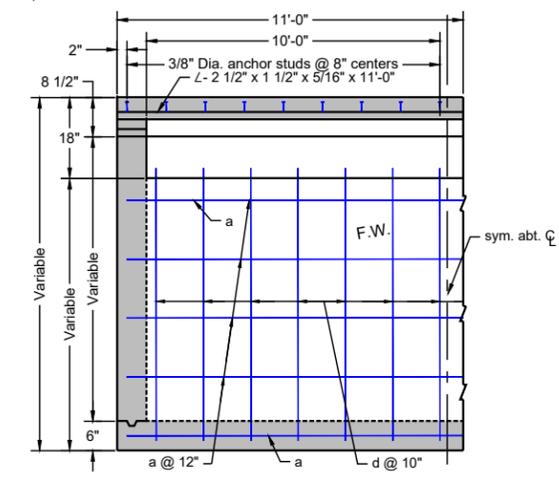
Manhole frame and cover shall be a Neenah R-6040, Type Y or engineer approved equal.



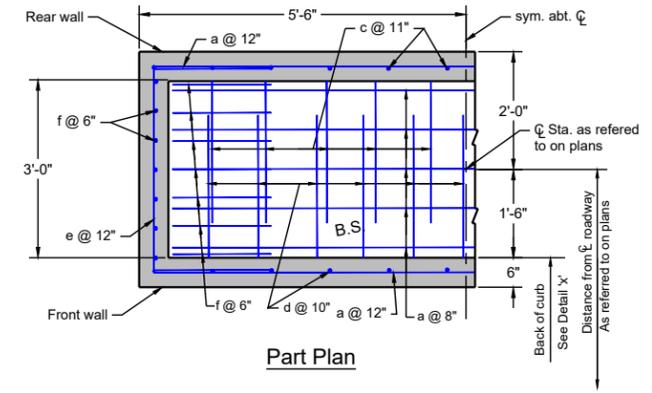
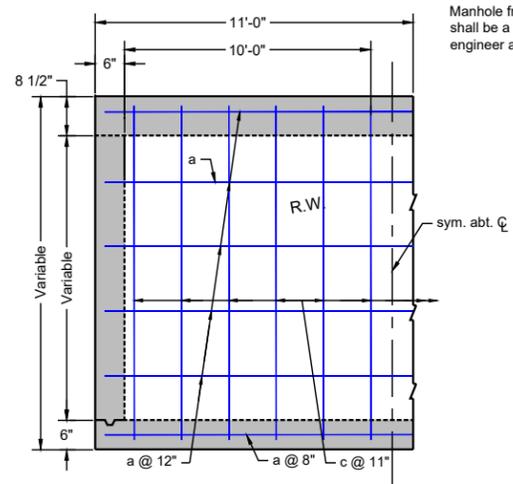
End Elevation



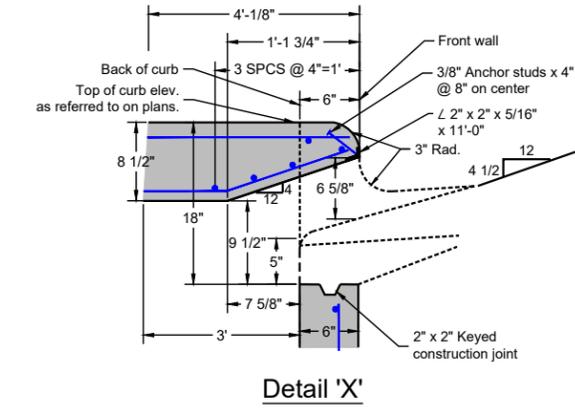
Typical Section



Part Elevation



Part Plan



Detail 'X'

General Notes

- All exposed edges MUST be chamfered 1".
- Design specification: A.A.S.H.T.O. Specifications for highway bridges, latest edition.
- All reinforcing steel MUST conform to A.S.T.M. A615 Grade 60.
- Unit stresses: Concrete: $f_c = 1,600$ P.S.I.; $f_c = 4,000$ P.S.I. Reinforcing steel: $f_s = 20,000$ P.S.I.
- The cost of angle, studs and galv. MUST be absorbed in the price bid for reinforcing steel or unit price for each inlet.
- Transition to full inlet opening depth MUST be 3" each side of outside walls.
- Minimum 3/8" expansion material MUST be placed between the curb and the inlet lid on both sides of the inlet.
- Tooled joints MUST be placed across the gutter pan at the outside walls of the inlet structure.
- It is not acceptable to construct this structure with the pipe connection as a non-monoolithic installation.
- All reinforcing steel is to be tied in place prior to the start of concrete placement.

Specification Note

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.

Estimated Quantities

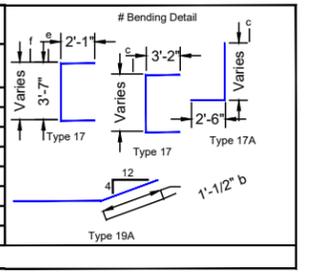
Item	Unit	10' Long Inlet											
		18" Dia. Outlet		21" Dia. Outlet		24" Dia. Outlet		27" Dia. Outlet		30" Dia. Outlet		24" Arch Outlet	
		Constant	Variable										
* Class M6 concrete	CuYds	2.75	0.49V	2.89	0.49V	3.03	0.49V	3.17	0.49V	3.31	0.49V	2.79	0.49V
Reinforcement-conc. masonry	LBS	466	68.6V	476	68.6V	485	68.6V	528	68.6V	538	68.6V	469	68.6V
Manhole rim & cover-type Y	Each	1	---	1	---	1	---	1	---	1	---	1	---

* Constant shall be reduced for the appropriate pipe or combination of pipes, thus: 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. and arch = -0.09 C.Y.

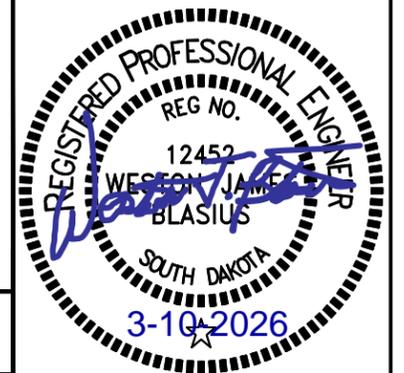
Reinforcing Schedule

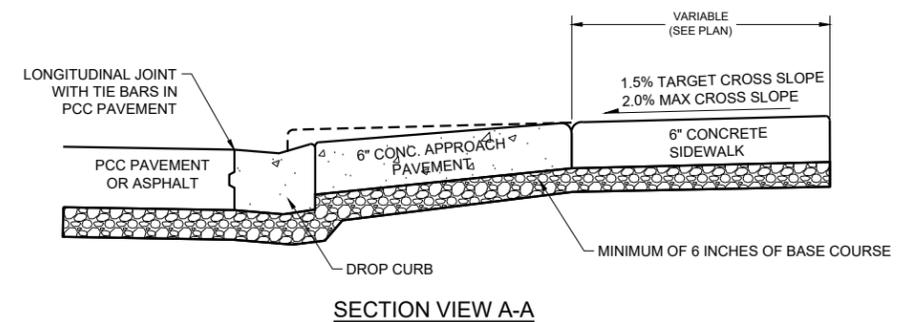
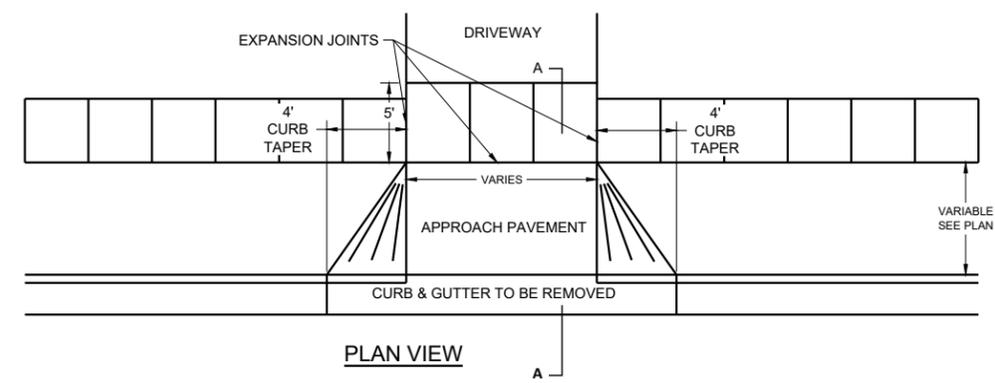
MK	SZ	Type	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
*a	5	STR	21+2V	10'-3"	21+2V	10'-3"	21+2V	10'-3"	23+2V	10'-3"	23+2V	10'-3"	21+2V	10'-3"
*b	4	19A	11	3'-9"	11	3'-3"	11	3'-3"	11	3'-3"	11	3'-3"	11	3'-3"
*c	4	17	12	8'-1"+V	12	8'-41/4"+V	12	8'-71/2"+V	12	8'103/4"+V	12	9'-2"+V	12	8'-2"+V
d	5	17A	13	3'-8"+V	13	3'-11"+V	13	4'-2"+V	13	4'-6"+V	13	4'-9"+V	13	3'-9"+V
*e	4	17	4+2V	7'-9"	4+2V	7'-9"	4+2V	7'-9"	6+2V	7'-9"	6+2V	7'-9"	4+2V	7'-9"
*f	4	17	14	6'-6"+V	14	6'-91/4"+V	14	7'-1/2"+V	14	7'-33/4"+V	14	7'-7"+V	14	6'-7"+V

* Cut and bend in field as necessary to fit # All reinforcing steel dimensions are outside to outside.



10'-00" SF TYPE INLET FOR STORM WATER (18" TO 30" PIPES)





GENERAL NOTES

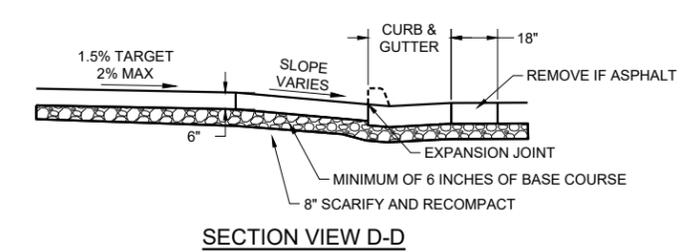
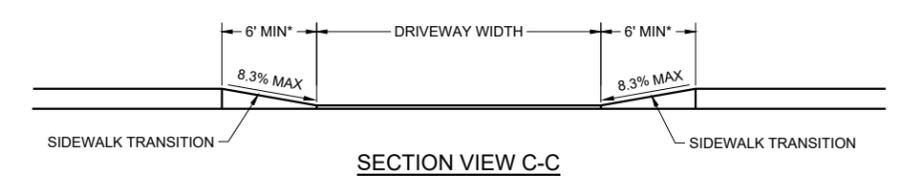
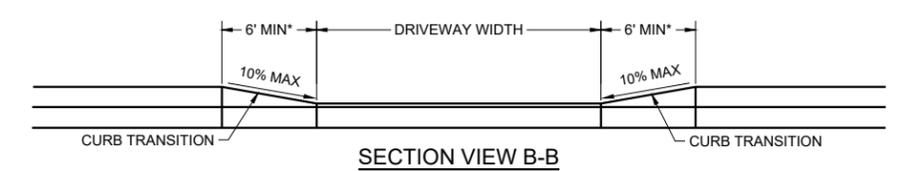
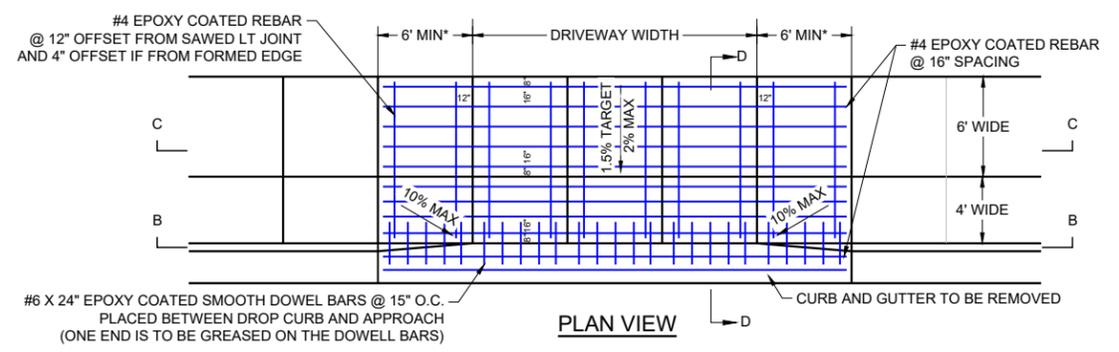
ON NEW CONSTRUCTION, THE SIDEWALK MUST BE A MINIMUM OF 5' WIDE THROUGH THE DRIVEWAY APPROACH TO ACCOMMODATE PASSING SPACE REQUIREMENTS. WHEN THE ADJOINING SIDEWALK IS LESS THAN 5' WIDE, THE ADDITIONAL WIDTH THROUGH THE DRIVEWAY APPROACH MUST BE LOCATED ON THE BUILDING SIDE OF THE SIDEWALK, UNLESS INSUFFICIENT 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.

THE CURB AND GUTTER MUST 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 MUST HAVE A MINIMUM THICKNESS OF 6" UNLESS OTHERWISE SPECIFIED.

THE CONCRETE IN "CONCRETE APPROACH PAVEMENT" MUST COMPLY WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR CLASS M-6 CONCRETE.



GENERAL NOTES

THE LONGITUDINAL SLOPE OF THE APPROACH PAVEMENT IN THESE AREAS MUST MATCH THE SLOPE OF THE CONCRETE CURB TRANSITION. THE SLOPE MUST NOT BE STEEPER THAN 8.3%, BUT THE LENGTH MUST BE LIMITED TO 15 FEET, UNLESS SPECIFIED OTHERWISE IN THE PLANS.

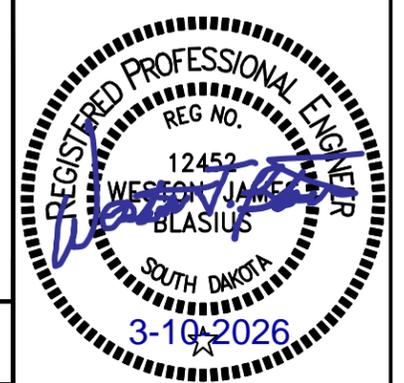
THE CURB AND GUTTER MUST BE TAKEN OUT TO THE NEAREST CONSTRUCTION JOINT WHEN THE JOINT IS WITHIN 4' OF THE END OF THAT DRIVEWAY.

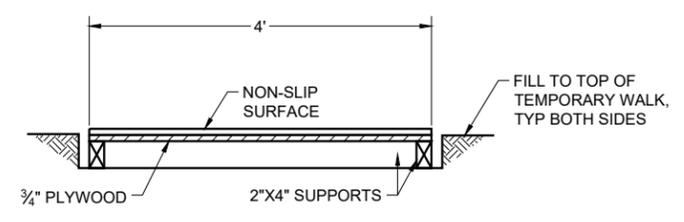
FULL DEPTH SAWING IS REQUIRED WHEN THE CURB AND GUTTER IS NOT REMOVED AT A CONSTRUCTION JOINT. A CLEAN, NEAT, AND VERTICAL CUT THROUGH THE CURB SECTION IS REQUIRED.

THE THICKNESS OF THE APPROACH PAVEMENT MUST BE 6" UNLESS OTHERWISE SPECIFIED.

THE CONCRETE IN "CONCRETE APPROACH PAVEMENT" MUST COMPLY WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR CLASS M-6 CONCRETE.

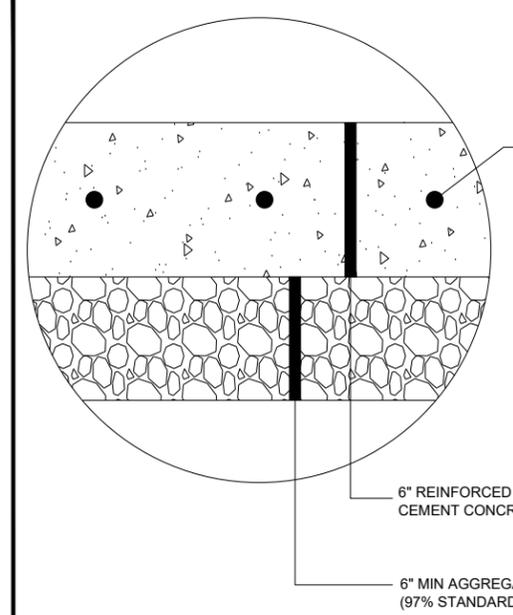
DRIVEWAY APPROACH LAYOUT DETAILS





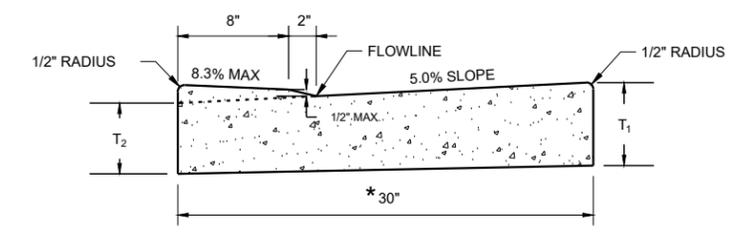
- NOTES:**
1. ALL CONNECTIONS TO 3/4" PLYWOOD TO BE MADE WITH SCREWS - NO NAILS.
 2. CONTRACTOR MAY PROVIDE ALTERNATE DESIGNS FOR APPROVAL BY ENGINEER. ALTERNATE OPTIONS MAY BE FODS GROUND PROTECTION MATS OR MOBI MAT.

TEMPORARY BOARDWALK WITH NON-SLIP SURFACE



- NOTES:**
1. #3 EPOXY COATED REBAR MUST BE INSTALLED IN ALL REINFORCED SIDEWALK AT SPACING INDICATED IN THIS DETAIL.
 2. NEW SIDEWALK MUST BE TIED TO EXISTING SIDEWALK WITH A 12 INCH #3 EPOXY COATED DEFORMED TIE BAR AT 18" MAX SPACING. TIE BAR MUST BE EMBEDDED A MINIMUM OF 6" INTO EXISTING CONCRETE AND MUST BE ANCHORED WITH AN EPOXY COATED RESIN ADHESIVE.
 3. ALL JOINTS AND EDGES MUST BE FINISHED WITH AN APPROVED EDGING TOLL .
 4. BEGIN FLOATING IMMEDIATELY AFTER THE WATER SHEEN HAS DISAPPEARED. IMMEDIATELY AFTER FLOAT FINISH THE SURFACE MUST BE BRUSHED OR BROOMED TO SLIGHTLY ROUGHEN THE SURFACE AND REMOVE THE FINISHING TOOL MARKS.
 5. CONTRACTION JOINTS MUST BE FORMED BY MEANS OF A GROOVING TOOL OR SAW CUT AT INTERVALS EQUAL TO THE SIDEWALK WIDTH TO THE DEPTH OF AT LEAST 1/3 THE THICKNESS OF THE SIDEWALK.
 6. ALL CONCRETE FOR SIDEWALK MUST BE M6 CONCRETE CONFORMING TO THE SECTION 462.3 OF THE STANDARD SPECIFICATIONS.

REINFORCED SIDEWALK SECTION

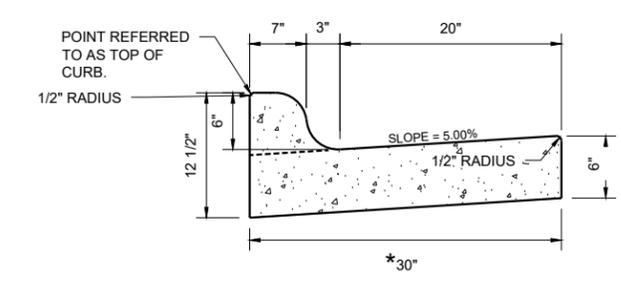


DROP CURB FOR DRIVEWAY APPROACH

T₁ = THICKNESS MUST BE EQUAL TO THE DEPTH OF THE ADJACENT PAVEMENT BUT NOT LESS THAN 6"
T₂ = T₁ - 7/8"

* M6 CONCRETE MUST BE USED IN CONSTRUCTION OF CURB & GUTTER. FOR ALL TYPES OF CONCRETE CURB & GUTTER, WEAKENED PLANE JOINTS MUST BE CONSTRUCTED AT 10' INTERVALS. THE JOINTS MUST BE CONSTRUCTED TO A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND PROVIDE FREE MOVEMENT OF CONCRETE AT THE JOINT.

CONCRETE GUTTER SECTION (DROP CURB)

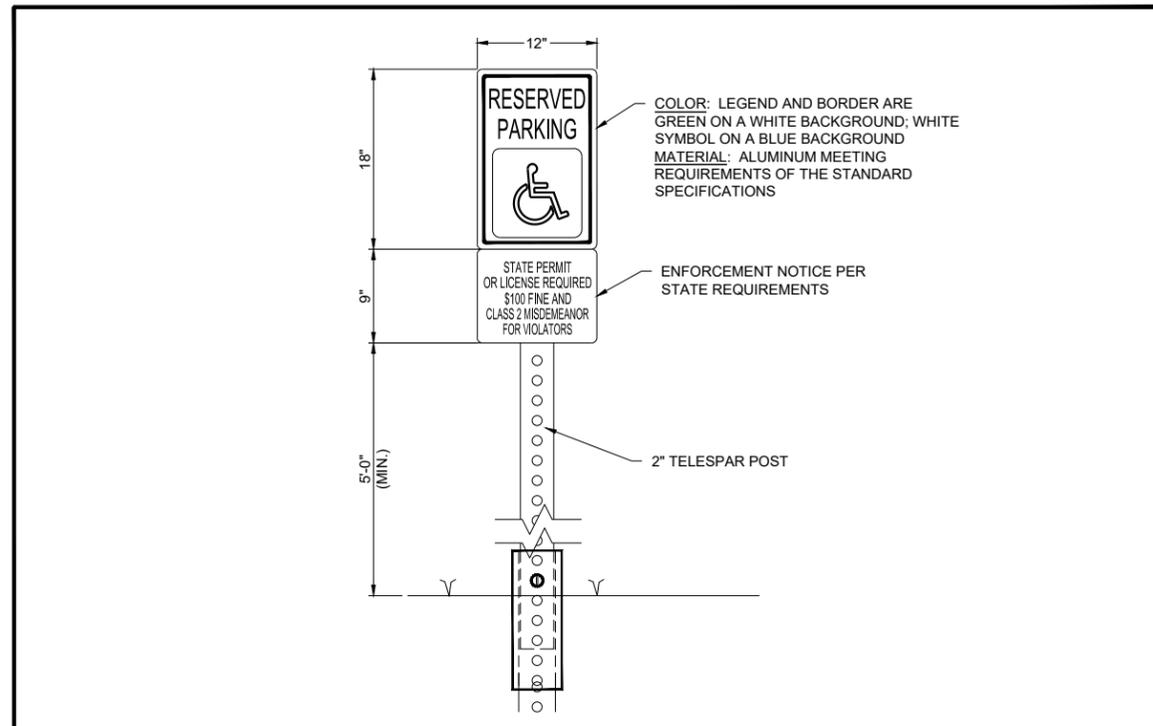


CONCRETE CURB AND GUTTER SECTION



* M6 CONCRETE MUST BE USED IN CONSTRUCTION OF CURB & GUTTER. FOR ALL TYPES OF CONCRETE CURB & GUTTER, WEAKENED PLANE JOINTS MUST BE CONSTRUCTED AT 10' INTERVALS. THE JOINTS MUST BE CONSTRUCTED TO A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND PROVIDE FREE MOVEMENT OF CONCRETE AT THE JOINT.



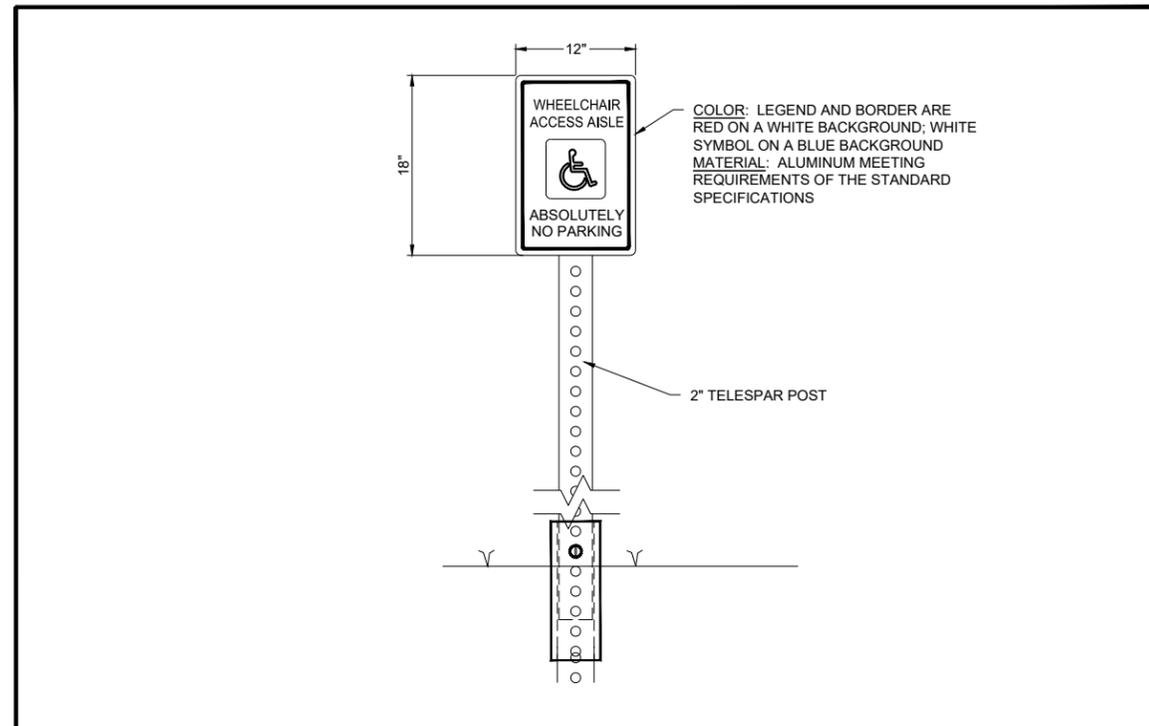


STANDARD ACCESSIBLE PARKING SIGNING DETAIL

MODIFIED



REVISED: APRIL 2025

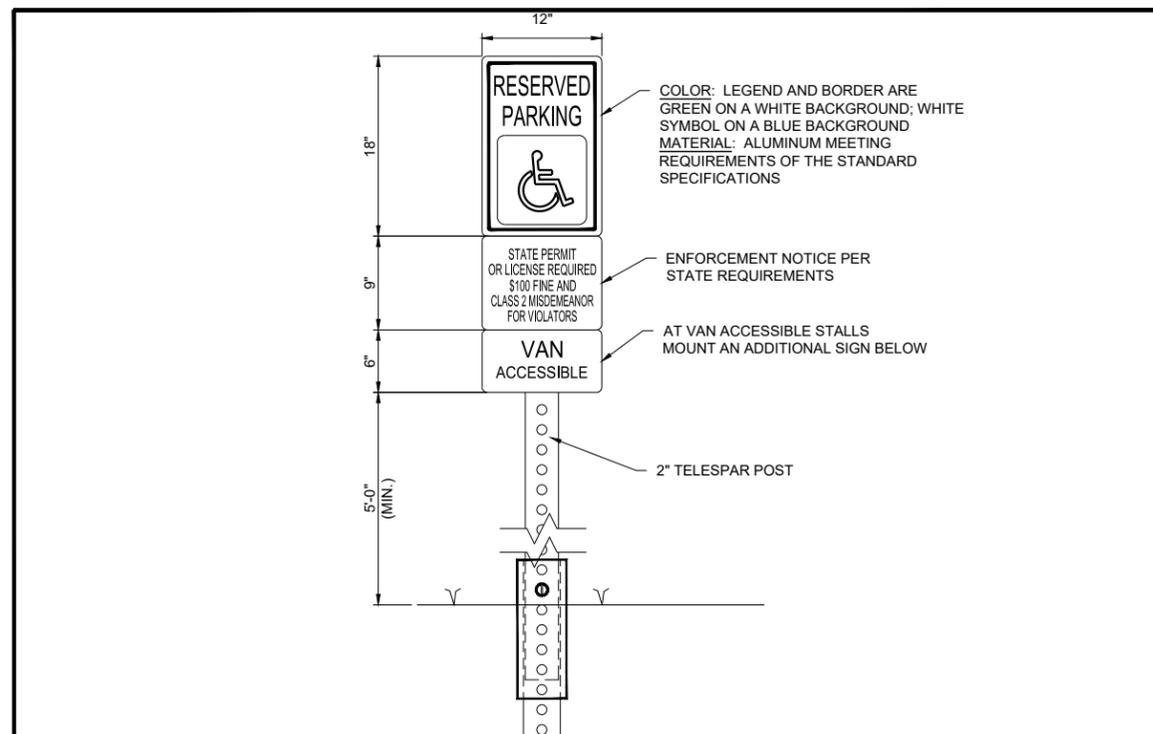


ACCESSIBLE AISLE SIGNING DETAIL

MODIFIED



REVISED: APRIL 2025

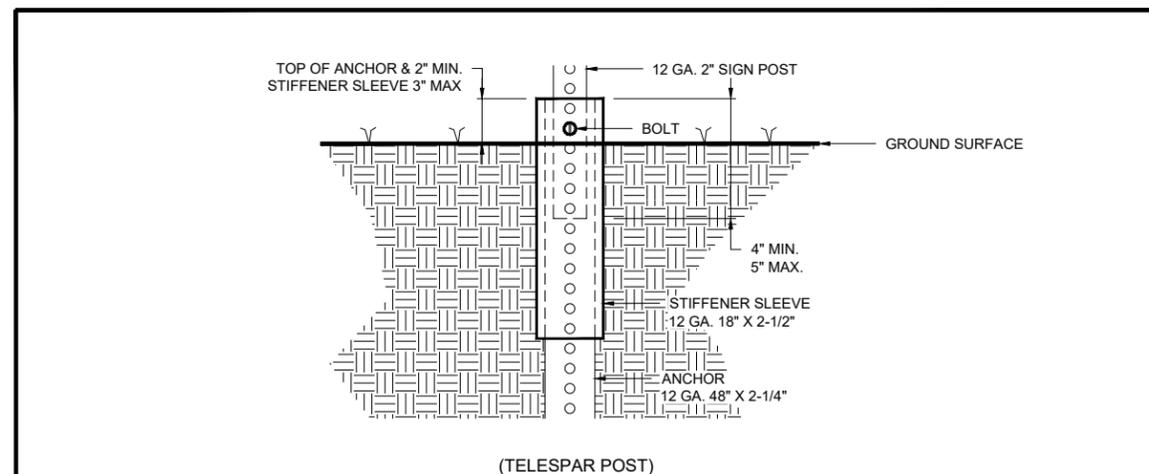


VAN ACCESSIBLE PARKING SIGNING DETAIL

MODIFIED



REVISED: APRIL 2025



(TELESPAR POST)

- NOTES:
1. POSTS THAT ARE REQUIRED TO BE INSTALLED WITHIN CONCRETE SURFACES MUST BE EMBEDDED IN CONCRETE WITH 4" PVC. CONTRACTOR TO PROVIDE STAINLESS STEEL SPACERS TO ENSURE POSTS ARE VERTICAL PLUMB.
 2. BOLTS AND WASHERS USED FOR MOUNTING TRAFFIC SIGNS MUST BE STAINLESS STEEL. FLAT WASHERS MUST BE MIL. SPEC. MS813
 3. NUTS USED FOR MOUNTING TRAFFIC SIGNS MUST BE A NYLOC (SELF-LOCKING) TYPE.
 4. SIGNS MUST BE MOUNTED USING A PLASTIC / NYLON WASHER PLACED BETWEEN THE SIGN FACE AND THE METALLIC FLAT WASHER.
 5. LAG SCREWS USED TO MOUNT TRAFFIC SIGNS TO WOODEN POWER POLES MUST BE GALVANIZED OR STAINLESS STEEL.
 6. ALL HARDWARE REQUIRED FOR MOUNTING THE SIGNS MUST BE INCIDENTAL TO THE COST OF INSTALLING THE SIGNS.

PERFORATED TUBE POST



REVISED: JANUARY 2023



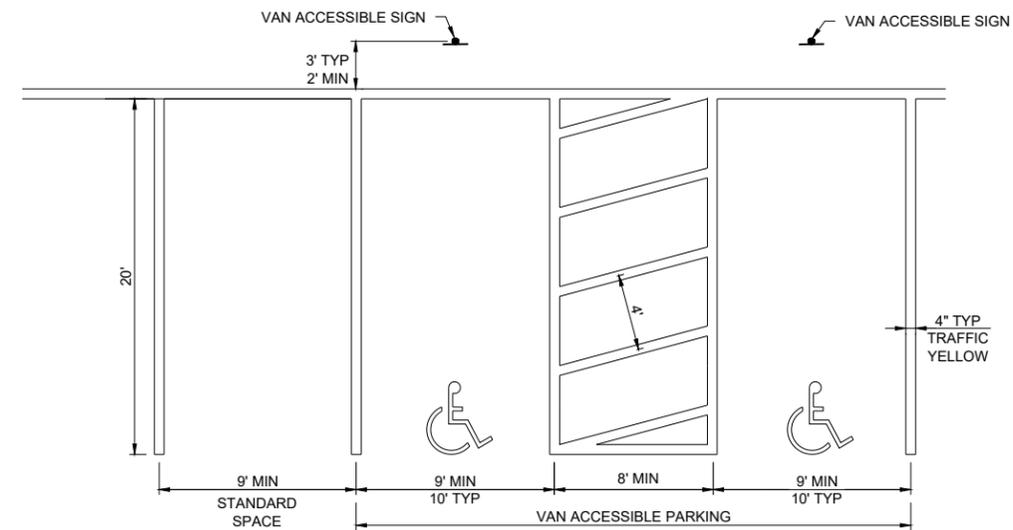


ACCESSIBLE PARKING SYMBOL

NOTE:
1. SEE PAVEMENT MARKING PLAN SHEET FOR LOCATIONS.

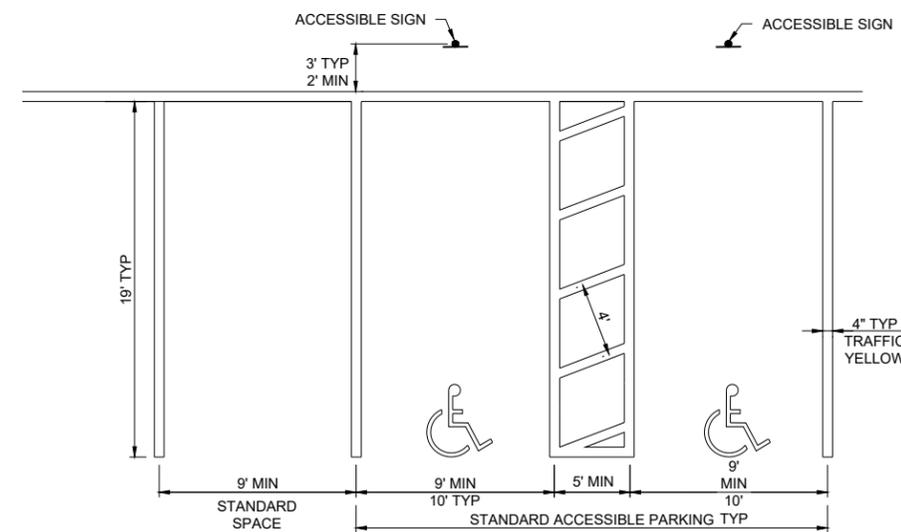
MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES		
TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES (CAR AND VAN)	MINIMUM NUMBER OF VAN ACCESSIBLE PARKING SPACES (1 OF SIX ACCESSIBLE SPACES)
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	2
301 TO 400	8	2
401 TO 500	9	2
501 TO 1000	2% OF TOTAL PARKING PROVIDED IN EACH LOT OR STRUCTURE	1 OUT OF EVERY 6 ACCESSIBLE SPACES
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000	1 OUT OF EVERY 6 ACCESSIBLE SPACES

ACCESSIBLE PARKING SPACE REQUIREMENTS



VAN ACCESSIBLE PARKING SPACES

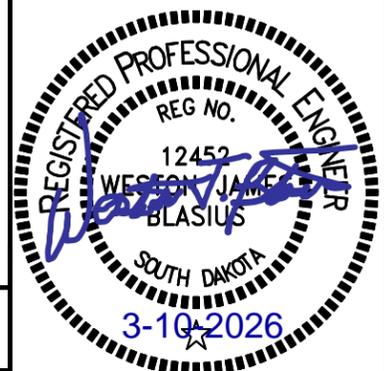
- NOTES:
1. PARKING STALL STRIPING TO BE APPLIED AT 45 DEGREE ANGLE.
 2. PROVIDE ONE ACCESSIBLE PARKING SIGN FOR EACH ACCESSIBLE STALL.



STANDARD ACCESSIBLE PARKING SPACES

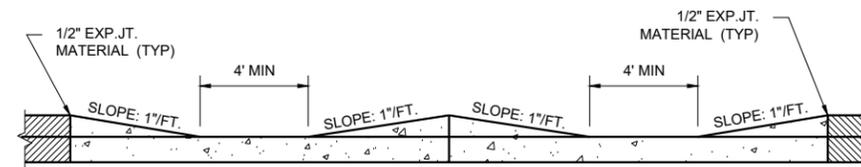
ACCESSIBLE PARKING SPACE DETAIL

MODIFIED

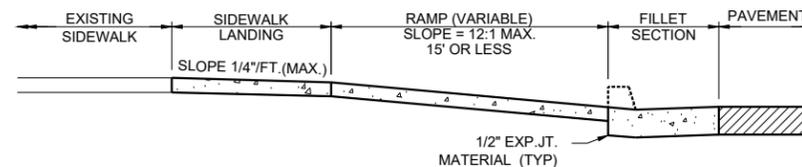


GENERAL NOTES

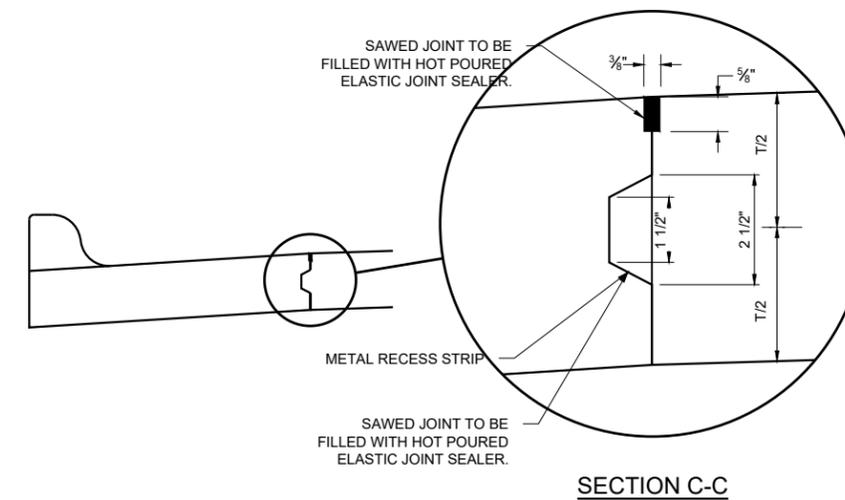
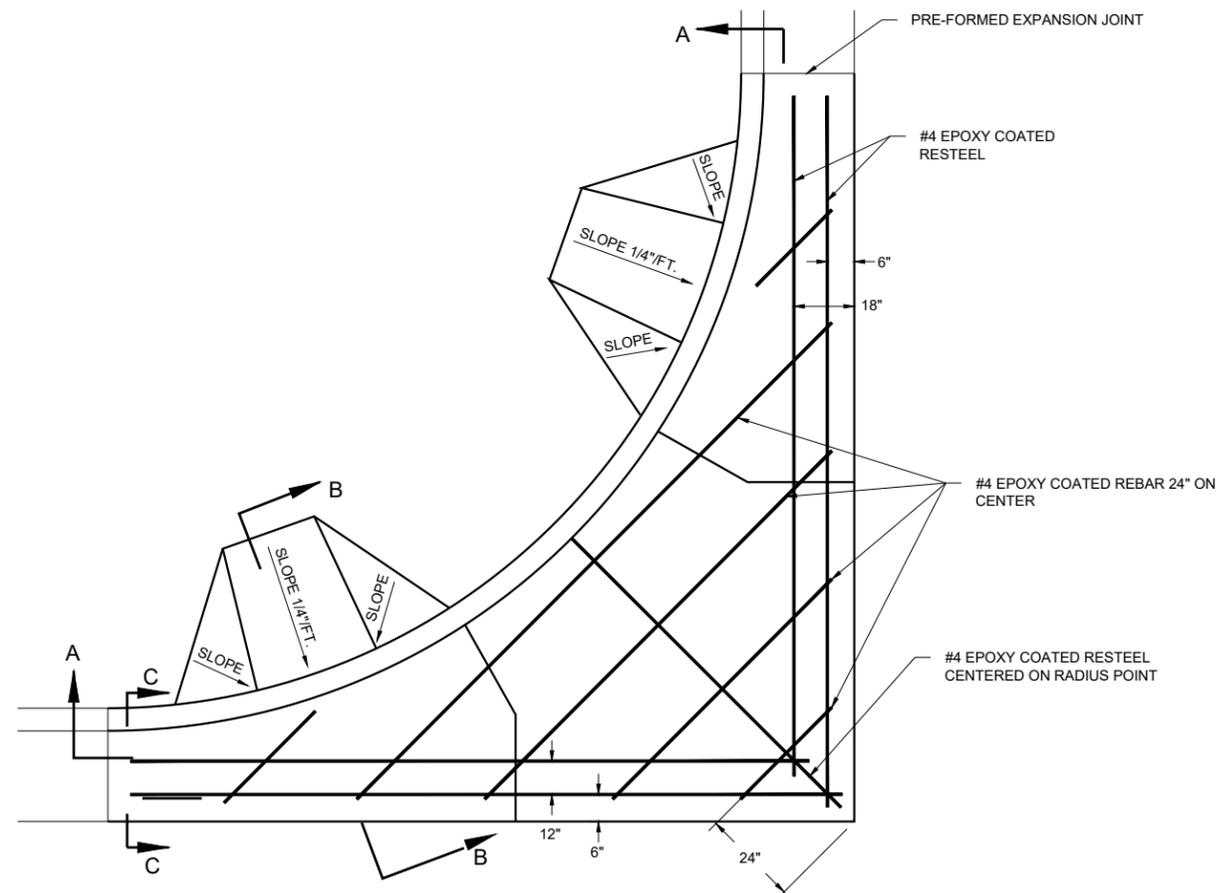
1. ALL REINFORCING STEEL MUST HAVE 1-1/2" CLEARANCE AND MUST CONFORM TO ASTM A615, GRADE 60.
2. M-6 CONCRETE MUST BE USED IN THE CONSTRUCTION OF THE FILLETS.
3. THE CURB MUST BE MONOLITHIC WITH THE FILLET. NO SEPARATE PAYMENT WILL BE MADE FOR THE CURB AS IT WILL BE CONSIDERED PART OF THE FILLET.
4. FILLET THICKNESS MUST BE EQUAL TO THE DEPTH OF ADJOINING PAVEMENT BUT NOT LESS THAN XX".
5. FILLETS ADJACENT TO PCC PAVEMENT MUST HAVE A KEYWAY CONSTRUCTION JOINT WITHOUT TIE BAR.
6. BASE COURSE THICKNESS DEPTH MUST BE 6".
7. THE PLANS WILL CALL OUT THE CURB OPENING LOCATIONS, TAPER LENGTHS AND SLOPES TO MEET ADA ACCESSIBILITY.



SECTIONAL VIEW A-A



SECTIONAL VIEW B-B



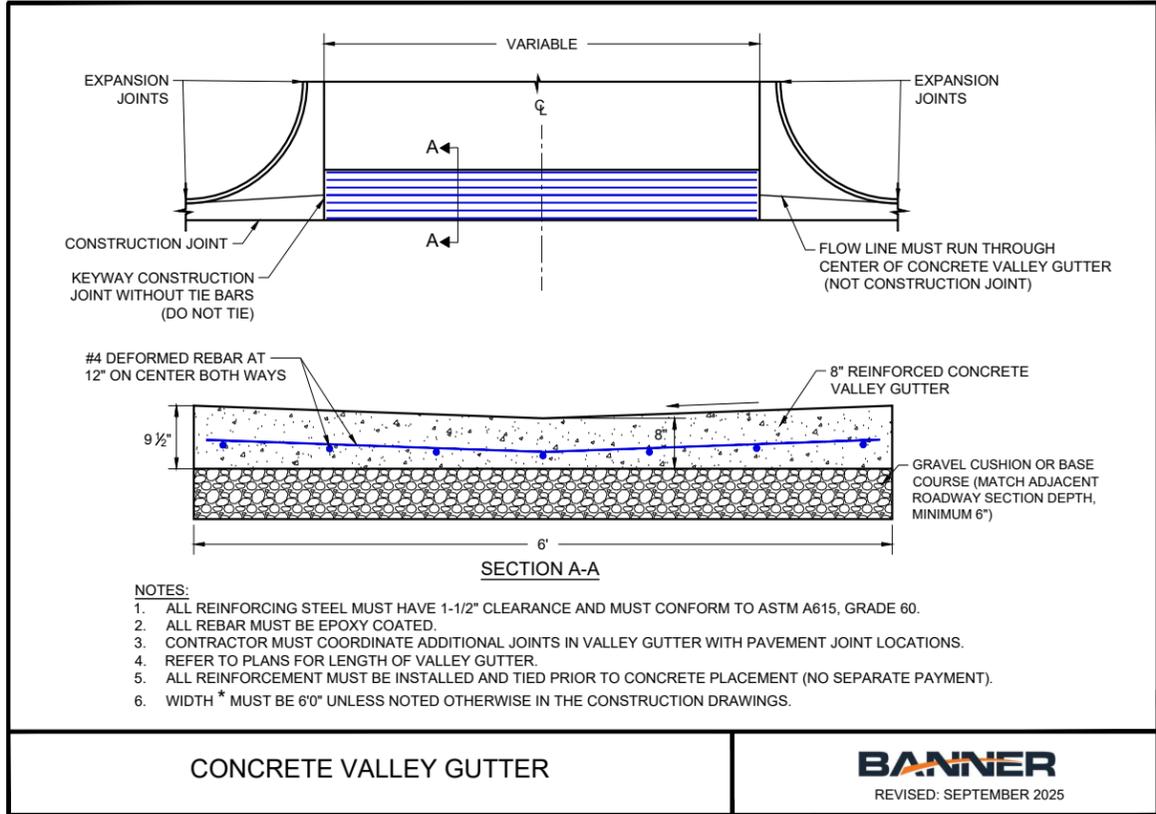
SECTION C-C

CONCRETE FILLET SECTION
& CURB OPENINGS

MODIFIED

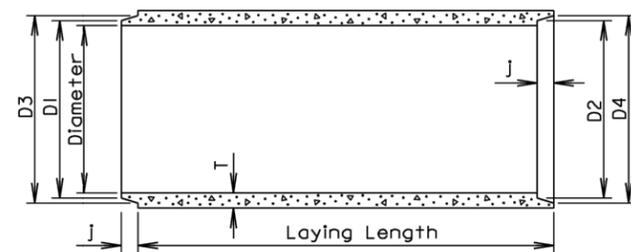
BANNER
REVISED: JANUARY 2023



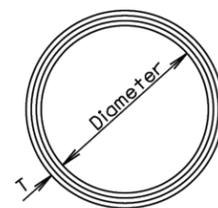


TOLERANCES IN DIMENSIONS

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



LONGITUDINAL SECTION



END VIEW

GENERAL NOTES:

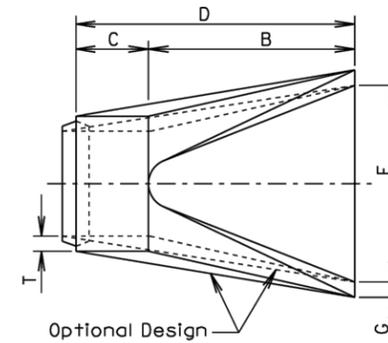
Construction of R. C. P. shall conform to the requirements of Section 990 of the Specifications.

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.

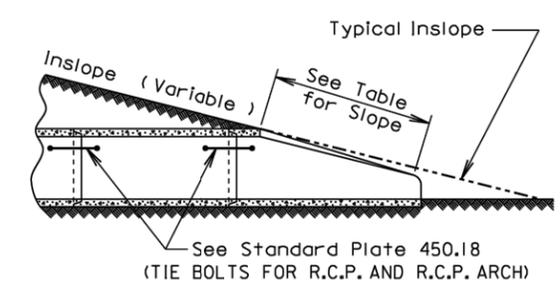
Diam. (in.)	Approx. Wt. /Ft. (lb.)	T (in.)	J (in.)	D1 (in.)	D2 (in.)	D3 (in.)	D4 (in.)
12	92	2	1 3/4	13 1/4	13 5/8	13 7/8	14 1/4
15	127	2 1/4	2	16 1/2	16 7/8	17 1/4	17 5/8
18	168	2 1/2	2 1/4	19 5/8	20	20 3/8	20 3/4
21	214	2 3/4	2 1/2	22 7/8	23 1/4	23 3/4	24 1/8
24	265	3	2 3/4	26	26 3/8	27	27 3/8
27	322	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 5/8	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 3/8	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

June 26, 2015

S D D O T	REINFORCED CONCRETE PIPE	PLATE NUMBER 450.01
	Published Date: 2026	Sheet 1 of 1



TOP VIEW

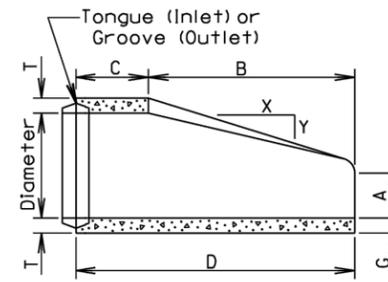


SLOPE DETAIL

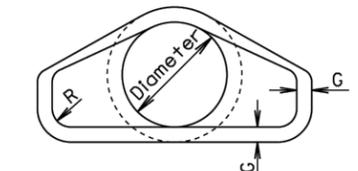
GENERAL NOTES:

Lengths of concrete pipe shown on plan sheets are between flared ends only.

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



LONGITUDINAL SECTION



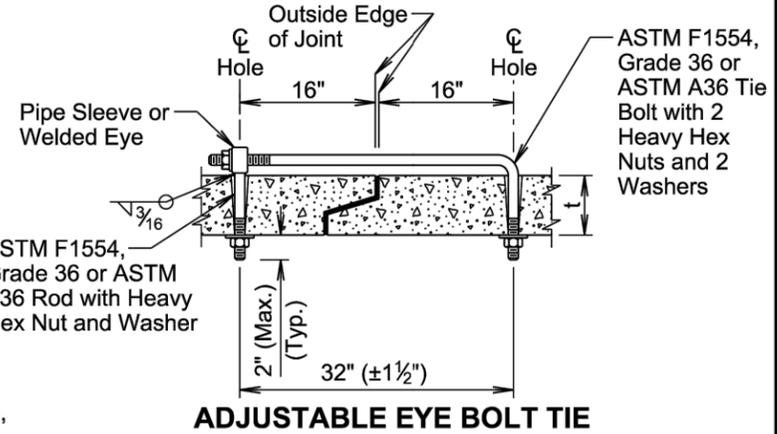
END VIEW

Dia. (in.)	Approx. Wt. of Section (lbs.)	Approx. Slope (X to Y)	T (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	G (in.)	R (in.)
12	530	2.4:1	2	4	24	48 7/8	72 7/8	24	2	1 1/2
15	740	2.4:1	2 1/4	6	27	46	73	30	2 1/4	1 1/2
18	990	2.3:1	2 1/2	9	27	46	73	36	2 1/2	1 1/2
21	1280	2.4:1	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	1 1/2
24	1520	2.5:1	3	9 1/2	43 1/2	30	73 1/2	48	3	1 1/2
27	1930	2.5:1	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	1 1/2
30	2190	2.5:1	3 1/2	12	54	19 3/4	73 3/4	60	3 1/2	1 1/2
36	4100	2.5:1	4	15	63	34 3/4	97 3/4	72	4	1 1/2
42	5380	2.5:1	4 1/2	21	63	35	98	78	4 1/2	1 1/2
48	6550	2.5:1	5	24	72	26	98	84	5	1 1/2
54	8240	2:1	5 1/2	27	65	33 1/4	98 1/4	90	5 1/2	1 1/2
60	8730	1.9:1	6	35	60	39	99	96	5	1 1/2
66	10710	1.7:1	6 1/2	30	72	27	99	102	5 1/2	1 1/2
72	12520	1.8:1	7	36	78	21	99	108	6	1 1/2
78	14770	1.8:1	7 1/2	36	90	21	111	114	6 1/2	1 1/2
84	18160	1.6:1	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2
90	20900	1.5:1	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	6

June 26, 2015

S D D O T	R. C. P. FLARED ENDS	PLATE NUMBER 450.10
	Published Date: 2026	Sheet 1 of 1

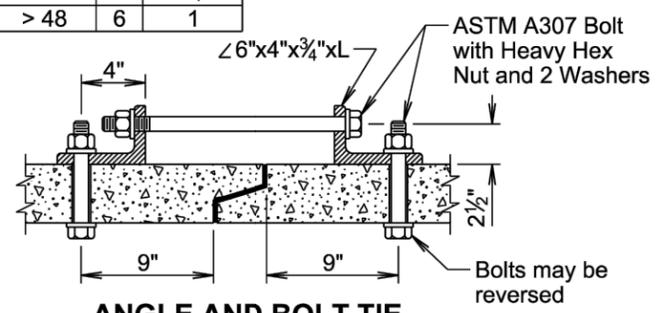
Wall "t" (in.)	Rod Dia. (in.)	Pipe Sleeve Dia. (nominal)
≤ 3/4	5/8	3/4
3 1/2 - 6 1/2	3/4	1
≥ 7	1	1 1/4



GENERAL NOTES:
 Tie bolts will conform to ASTM F1554, Grade 36 or ASTM A36. Nuts will be heavy hex conforming to ASTM A563. Washers will conform to ASTM F436.
 Pipe Sleeve will conform to ASTM A53, Grade B or ASTM A500, Grade B or C.
 Galvanize adjustable eye bolt tie assembly in accordance with ASTM A153.

ADJUSTABLE EYE BOLT TIE

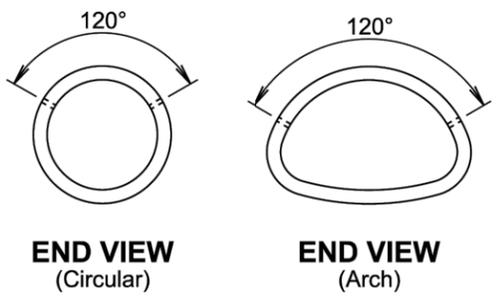
Pipe Dia. (in.)	"L" (in.)	Bolt Dia. (in.)
≤ 48	4	3/4
> 48	6	1



GENERAL NOTES:
 Angles will conform to ASTM A36.
 Bolts will conform to ASTM A307. Nuts will be heavy hex conforming to ASTM A563. Washers will conform to ASTM F436.
 Galvanize angles, bolts, nuts, and washers in accordance with ASTM A153.

ANGLE AND BOLT TIE

GENERAL NOTES:
 In lieu of the tie bolts detailed above other types of tie bolt connections may be installed as approved by the Office of Bridge Design.
 All pipe sections of R.C.P. and R.C.P. Arch will be tied with tie bolts except for pipe located between drop inlets, manholes, and junction boxes. All pipe sections of pipes that only enter or exit drop inlets, manholes, and junction boxes will be tied with tie bolts.
 There will be no separate measurement or payment for the tie bolts. The cost for furnishing and installing the tie bolts will be incidental to the contract unit price per foot for the corresponding bid item for R.C.P. or R.C.P. Arch.



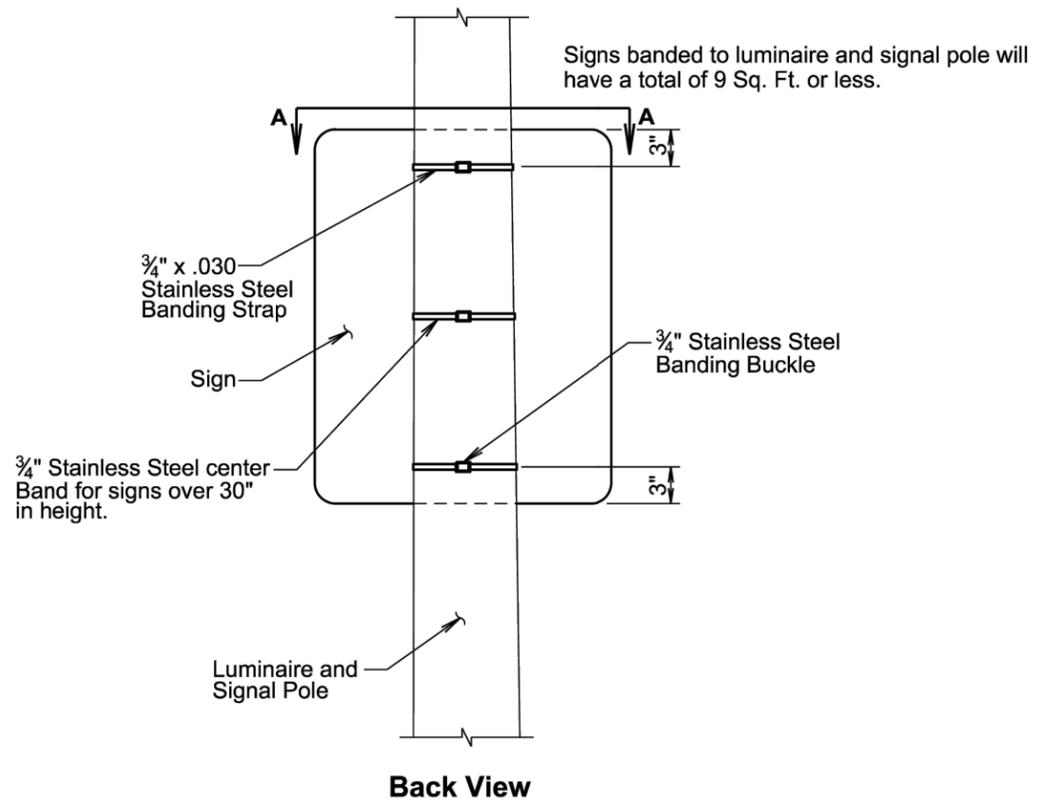
END VIEW (Circular)

END VIEW (Arch)

April 8, 2025

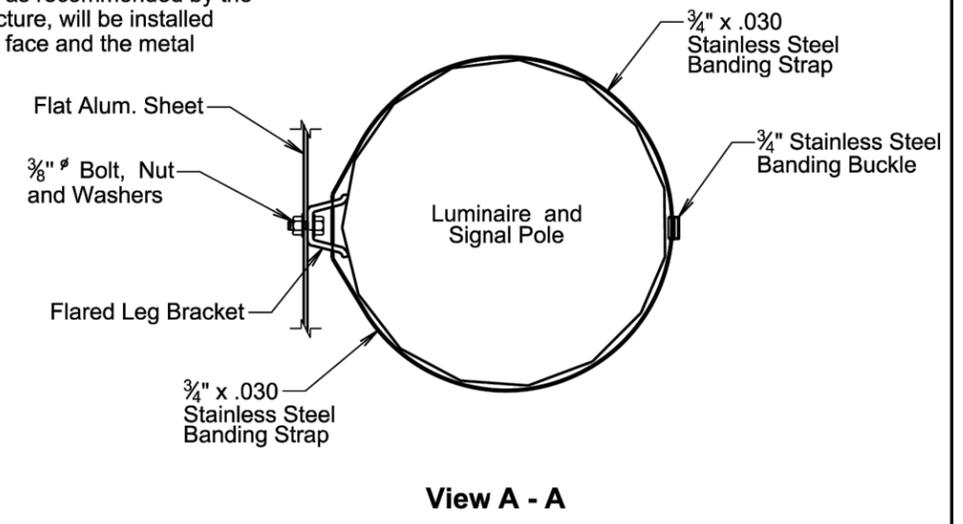
S D D O T	TIE BOLTS FOR R.C.P. AND R.C.P. ARCH	PLATE NUMBER 450.18
		Sheet 1 of 1

Published Date: 2026



Back View

∅ A plastic washer, as recommended by the sheeting manufacture, will be installed between the sign face and the metal washer shown.

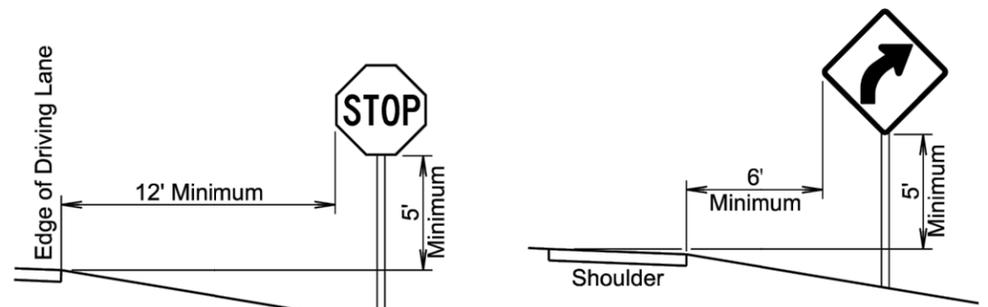


View A - A

November 19, 2020

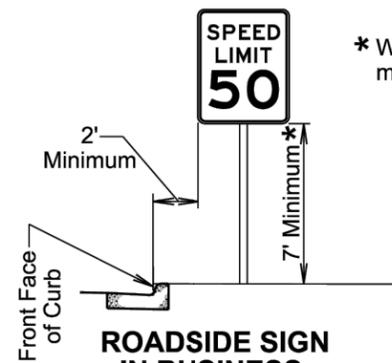
S D D O T	BANDING SIGN TO LUMINAIRE AND SIGNAL POLE	PLATE NUMBER 632.80
		Sheet 1 of 1

Published Date: 2026



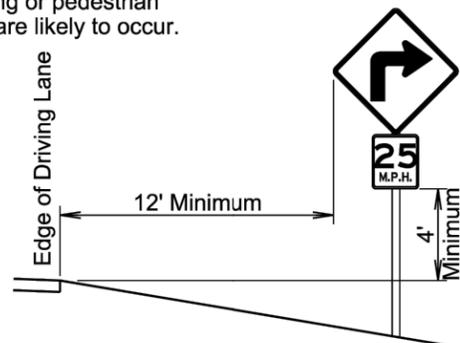
ROADSIDE SIGN IN RURAL AREA

ROADSIDE SIGN IN RURAL AREA
(If shoulder width is greater than 6 foot)

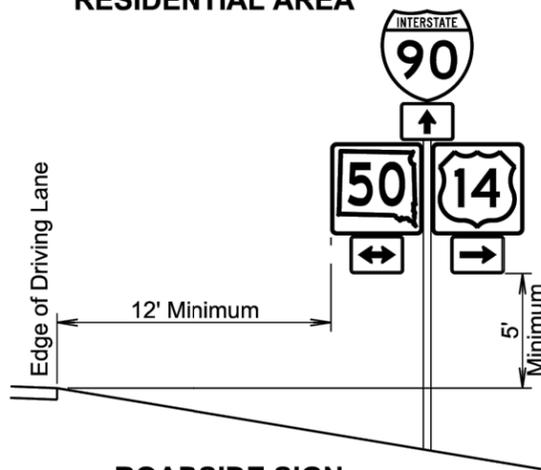


ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA

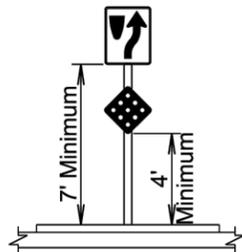
* Where parking or pedestrian movements are likely to occur.



WARNING SIGN ADVISORY SPEED PLAQUE IN RURAL AREA



ROADSIDE SIGN IN RURAL AREA



SIGN ON NOSE OF MEDIAN

April 8, 2025

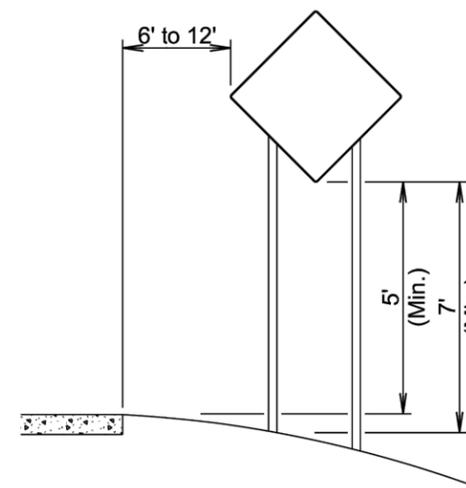
Published Date: 2026

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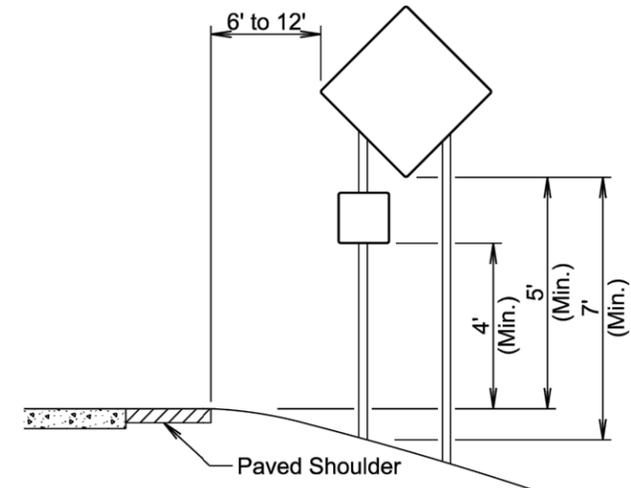
OFFSETS FOR SIGN INSTALLATION

PLATE NUMBER
632.90

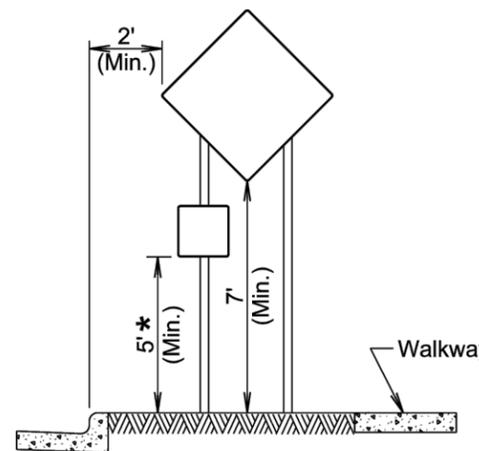
Sheet 1 of 1



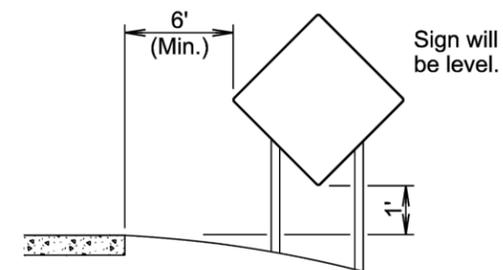
RURAL DISTRICT



RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT



RURAL DISTRICT 3 DAY MAXIMUM
(Not applicable to regulatory signs)

* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.

January 22, 2021

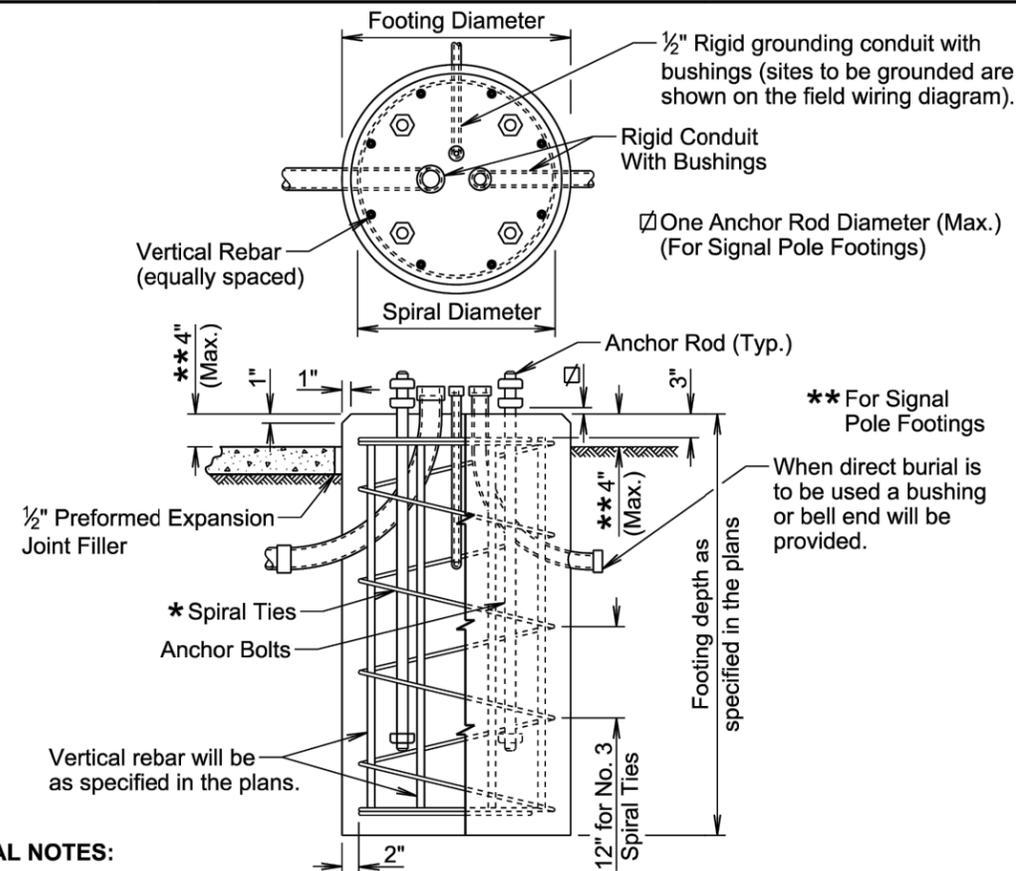
Published Date: 2026

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CRASHWORTHY SIGN SUPPORTS
(Typical Construction Signing)

PLATE NUMBER
634.85

Sheet 1 of 1



GENERAL NOTES:

* Circular ties may be used in lieu of the spiral ties. The No. 3 ties will be spaced 12 inches apart except for the top two which will be spaced 6 inches apart. The ties will be lapped 18 inches and the laps will be staggered around the cage.

Spiral ties will have 1-1/2 extra turns at each end.

See Section 985 of the Specifications for footing materials.

Conduits and bushings may project 2 1/2 inches to 6 inches above footing for fixed base poles but will not project above the slip plane or fracture plane for breakaway poles.

Conduits will be sealed water-tight during all phases of construction until poles are in place.

The anchor rods will fit inside the reinforcing steel cage. If the anchor rods designed by the Pole Manufacturer do not fit, contact the Office of Bridge Design for footing redesign. No additional payment will be made for the redesigned footing.

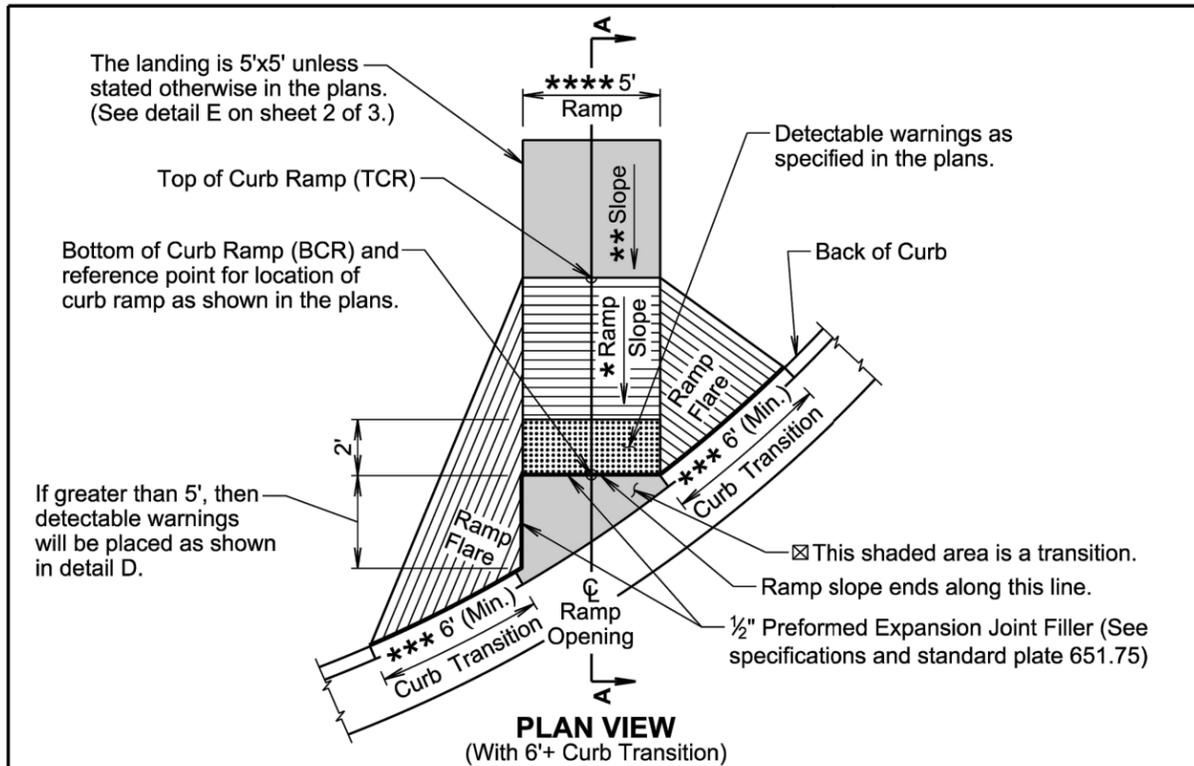
Costs of conduit and conduit bushings shown on footing detail will be incidental to the footing bid item(s).

The pole will not be installed until the concrete has attained design strength (4000 psi).

The contour of the area surrounding the breakaway pole will be flat, though not necessarily level for a distance of 5 feet in all directions. The Contractor may be required to provide finish grading at some breakaway pole locations.

November 19, 2022

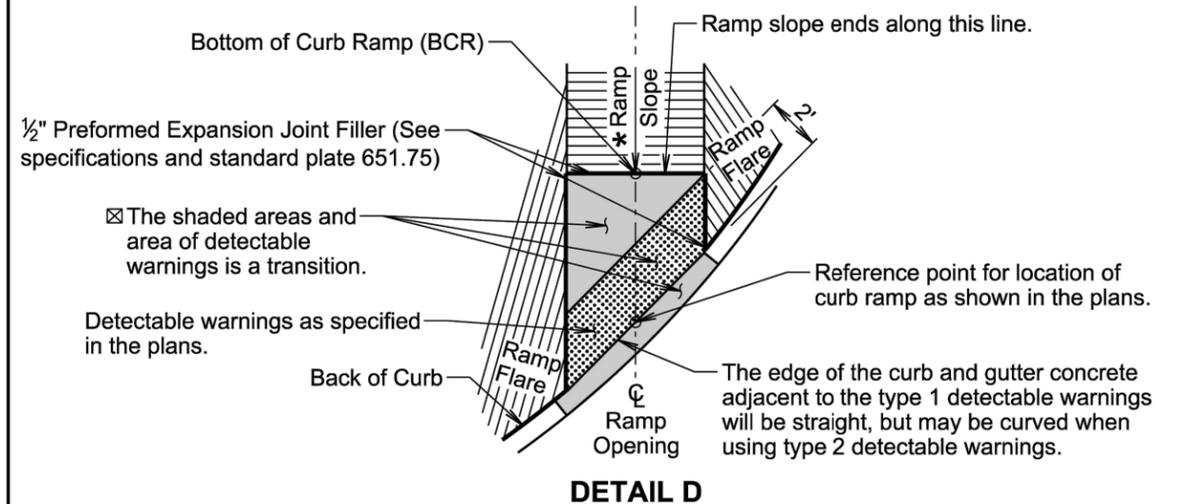
<i>Published Date: 2026</i>	S D D O T	POLE FOOTING	PLATE NUMBER 635.55
			Sheet 1 of 1



☒ This shaded area is a transition.
 Ramp slope ends along this line.
 1/2" Preformed Expansion Joint Filler (See specifications and standard plate 651.75)

☒ The slope within the transition area will not be steeper than 5%. The concrete within the transition will be placed monolithic with the curb and gutter or fillet section concrete. The concrete thickness within the transition will be the same as the curb and gutter or fillet section concrete thickness.

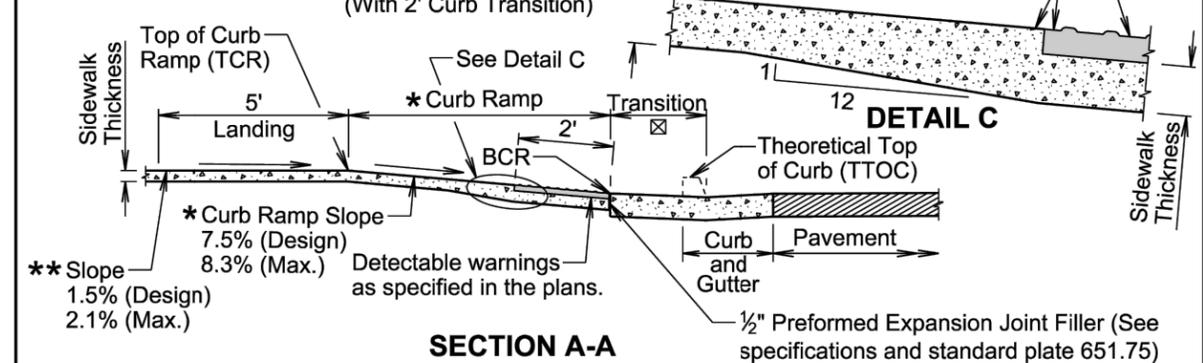
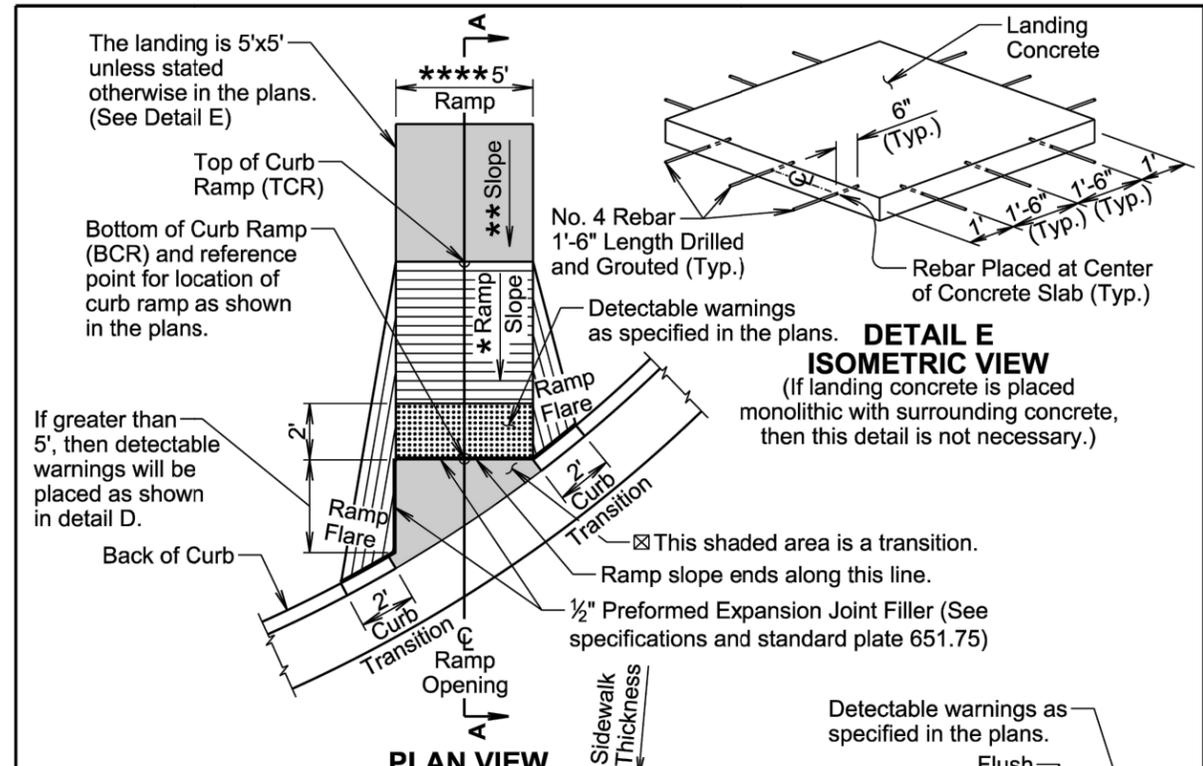
*** The curb transition will be a minimum of 6' long, a maximum of 10' long, and the curb transition slope will not be steeper than 10% unless stated otherwise in the plans. The curb transition length will be adjusted as necessary to meet slope and length requirements based on field geometrics.



Published Date: 2026

S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
		Sheet 1 of 3

April 8, 2025



☒ This shaded area is a transition.
 Ramp slope ends along this line.
 1/2" Preformed Expansion Joint Filler (See specifications and standard plate 651.75)

☒ The shaded areas and area of detectable warnings is a transition.

* Curb ramp slopes are designed at 7.5% unless stated otherwise in the plans. The curb ramp may have a maximum slope of 8.3% and will not exceed 15' in length unless stated otherwise in the plans.

* The elevation of point TCR will always be higher than the elevation of point TTOC unless specified otherwise in the plans. The curb ramp length dimension as shown in the plans will be adjusted as necessary to meet all slope and length requirements based on field geometrics.

** The slope in the landing will not be steeper than 2.1% in any direction of pedestrian travel. Plans are designed using a 1.5% slope unless stated otherwise in the plans.

*** The ramp width is 5' unless stated otherwise in the plans.

Published Date: 2026

S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
		Sheet 2 of 3

April 8, 2025

GENERAL NOTES:

For illustrative purpose only, type 1 detectable warnings are shown in the drawings.

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

Sidewalk will not be placed adjacent to the curb ramp flares when a 2-foot curb transition is used unless shown otherwise in the plans.

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

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

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

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

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

The detectable warnings will be cut as necessary to fit the plan specified limits of the detectable warnings. Cost for cutting the detectable warnings will be incidental to the corresponding detectable warning contract item.

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

If rebar is placed in the landing as depicted in DETAIL E, the cost of the materials, labor, and equipment to furnish and install the rebar will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk contract item.

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

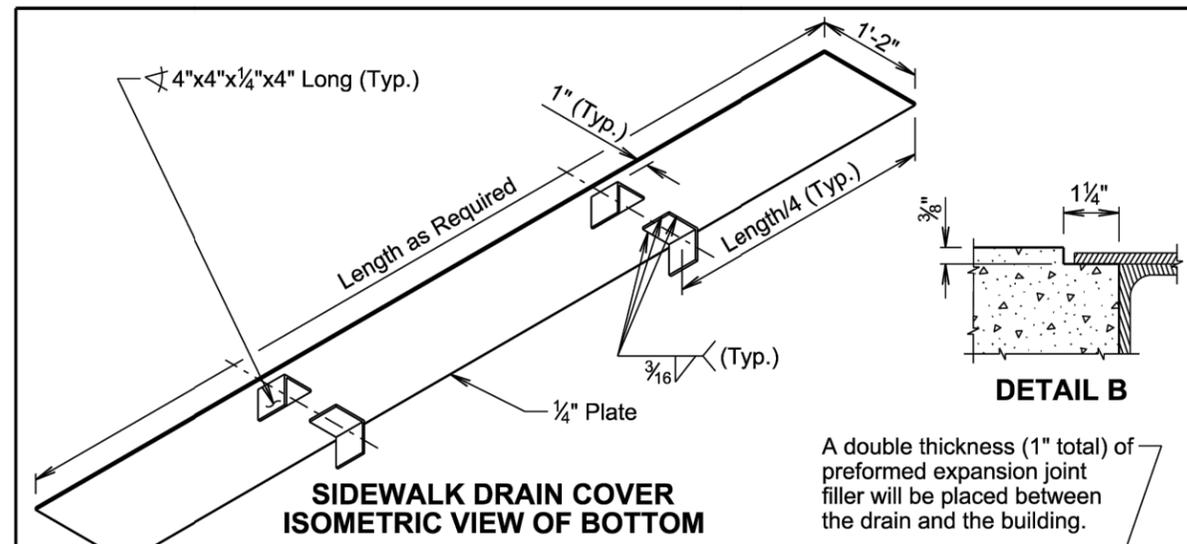
All costs for furnishing and installing the transition area at the base of the curb ramp will be incidental to the contract unit price per foot for the corresponding curb and gutter contract item when curb and gutter is used and will be incidental to the contract unit price per square yard for the corresponding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

Type 1 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 1 detectable warnings including labor, equipment, materials, and incidentals will be paid for at the contract unit price per square foot for "Type 1 Detectable Warnings".

Type 2 detectable warnings will be measured to the nearest square foot. All costs for furnishing and installing type 2 detectable warnings including labor, equipment, and materials, including adhesive, necessary sealant or grout, and necessary grinding will be paid for at the contract unit price per square foot for "Type 2 Detectable Warnings".

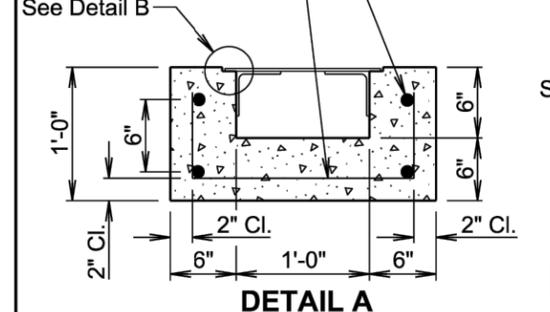
April 8, 2025

<i>Published Date: 2026</i>	S D D O T	TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)	PLATE NUMBER 651.02
			Sheet 3 of 3



#3 Rebar (Typ.) 3' Long
Bend as shown
Bars spaced 18" C. to C.

#3 Rebar (Typ.)
Length as required
with 2" Cl. at ends.



GENERAL NOTES:
The end of the drain channel will be the same shape as the adjacent curb face.

Concrete will be Class M6 in accordance with Section 462 of the Specifications.

Reinforcing steel will conform to ASTM A615, Grade 60.

Structural Steel will conform to ASTM A36. The sidewalk drain cover will conform to ASTM A786.

Welding and weld inspection will be in conformance with the current edition of the AWS D1.1 Structural Welding Code-Steel.

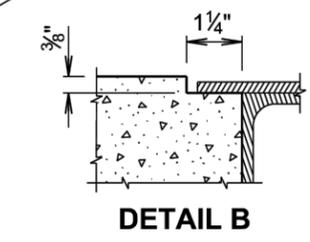
The cover plate assembly will be galvanized after fabrication. Galvanizing will be in accordance with ASTM A123.

All costs associated for providing the required curb cut will be incidental to the contract unit price per foot for the corresponding curb and gutter contract item.

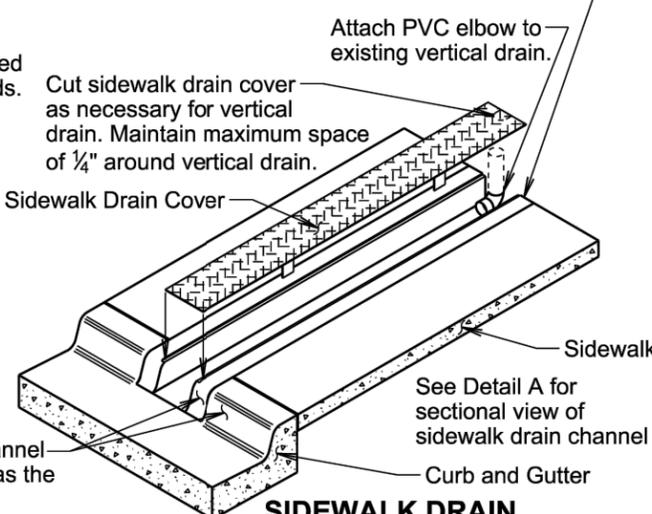
The sidewalk drain will be measured and paid for to the nearest tenth of a foot. The length of the drain will be measured from the gutter to the necessary end location adjacent to the building. All costs associated with furnishing and installing the sidewalk drain channel and cover including the attachment to the vertical drain will be incidental to the contract unit price per foot for "Sidewalk Drain".

February 14, 2020

<i>Published Date: 2026</i>	S D D O T	SIDEWALK DRAIN	PLATE NUMBER 651.50
			Sheet 1 of 1

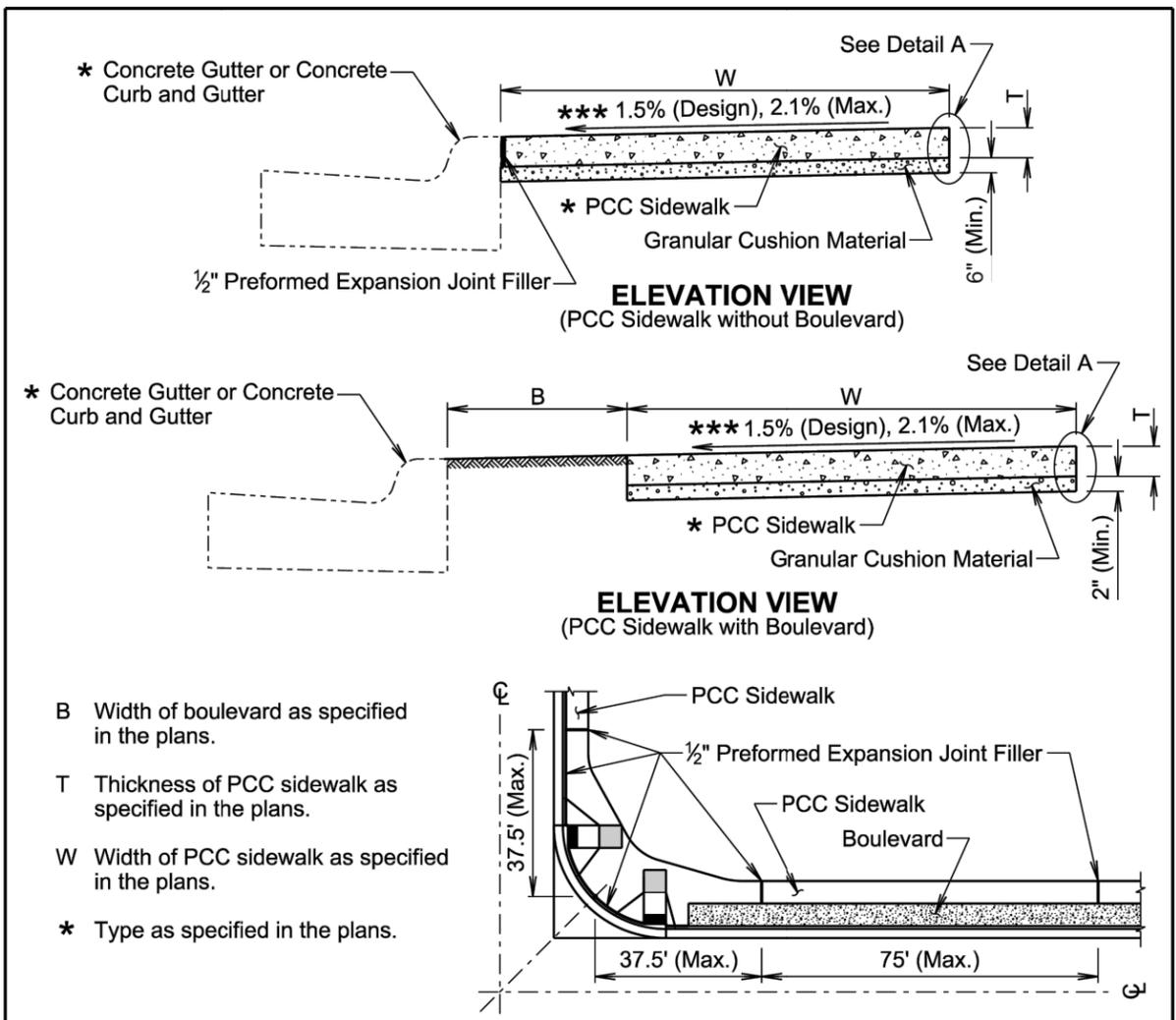


A double thickness (1" total) of preformed expansion joint filler will be placed between the drain and the building.



Attach PVC elbow to existing vertical drain.

Cut sidewalk drain cover as necessary for vertical drain. Maintain maximum space of 1/4" around vertical drain.



- B Width of boulevard as specified in the plans.
- T Thickness of PCC sidewalk as specified in the plans.
- W Width of PCC sidewalk as specified in the plans.
- * Type as specified in the plans.

GENERAL NOTES:

The PCC sidewalk will be constructed in accordance with Section 651 of the Specifications.

*** The cross slope of the sidewalk is designed at 1.5% and the maximum slope allowed is 2.1% unless specified otherwise in the plans.

The maximum length between expansion joints in the PCC sidewalk is 75 feet.

PCC sidewalk placed adjacent to intersection of roadways will have an expansion joint placed transversely a maximum of 37.5 feet from the intersection. See Plan View.

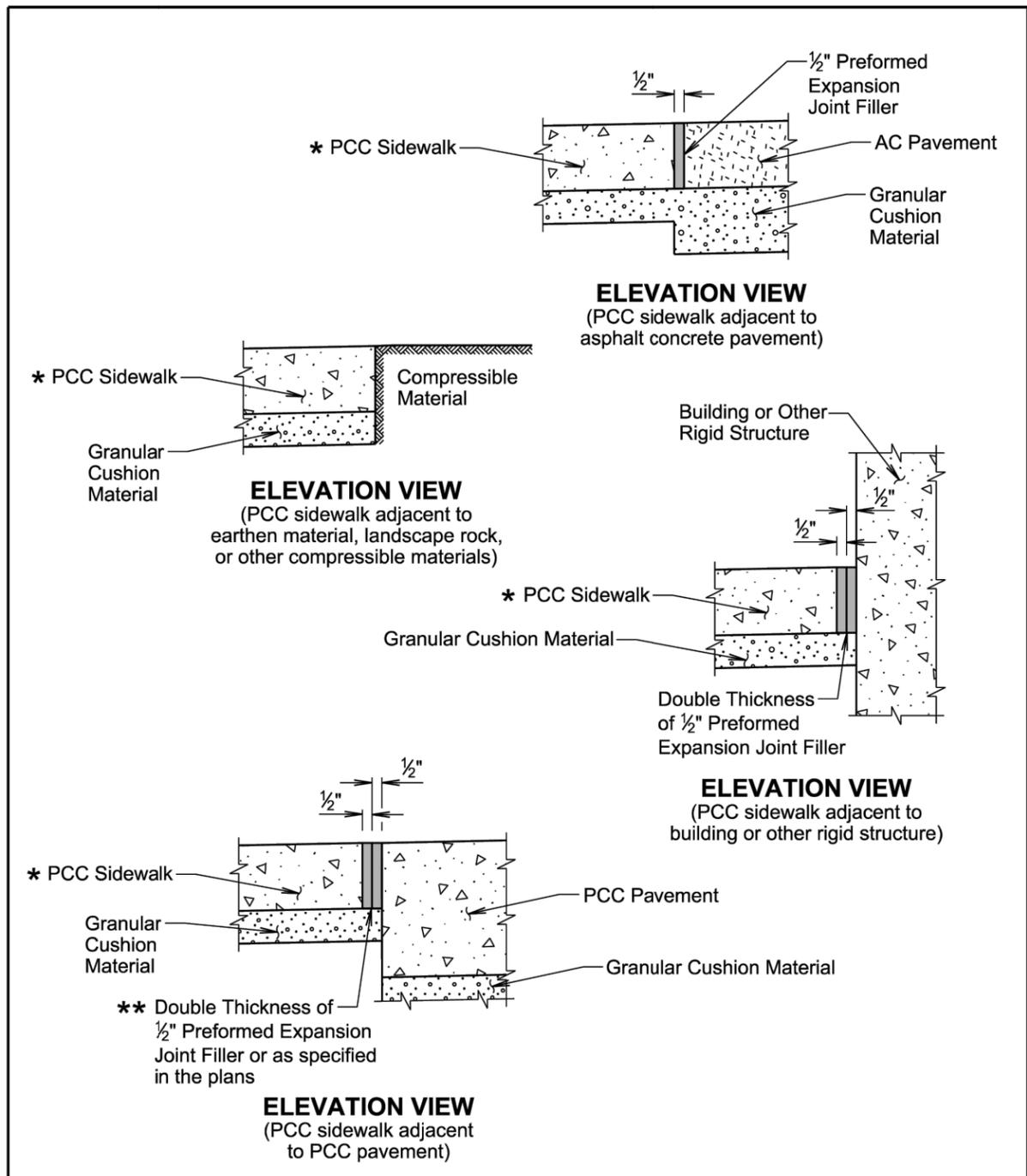
An expansion joint in the PCC sidewalk will consist of a 1/2 -inch thick preformed expansion joint filler material placed full depth and width of the PCC sidewalk.

** Large areas of PCC pavement adjacent to the PCC sidewalk may require a different joint treatment than shown in the detail. If a different joint detail is necessary, plans will contain the joint detail and the Contractor will construct the joint treatment in accordance with the plans.

Apr 11 8, 2025

S D D O T	PCC SIDEWALK	PLATE NUMBER 651.75
		Sheet 1 of 2

Published Date: 2026

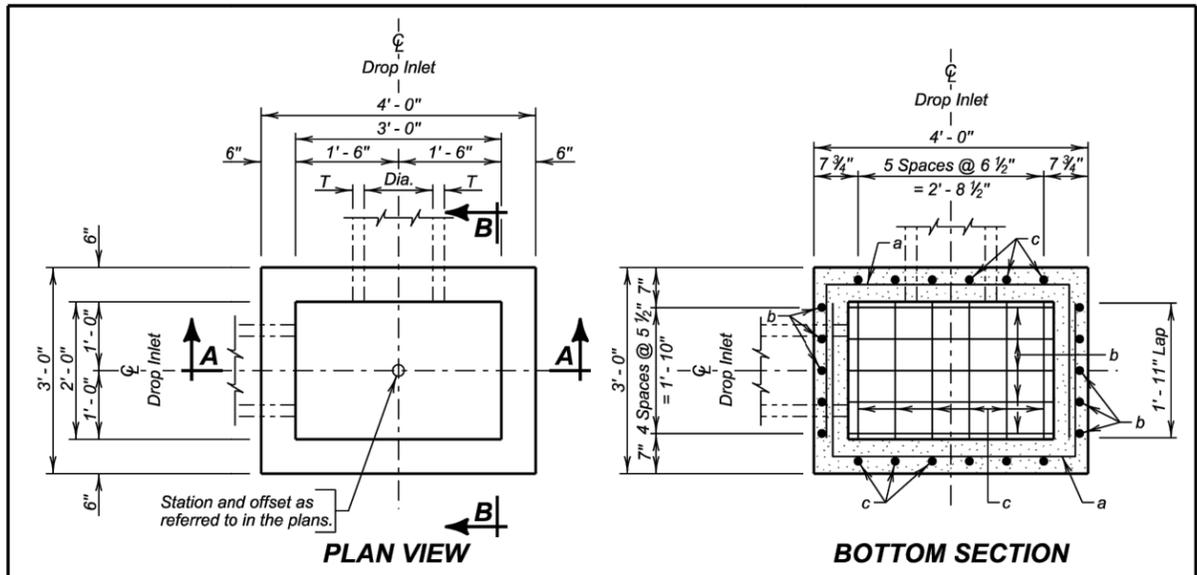


DETAIL A
(Use Appropriate Detail(s))

Apr 11 8, 2025

S D D O T	PCC SIDEWALK	PLATE NUMBER 651.75
		Sheet 2 of 2

Published Date: 2026



ESTIMATED QUANTITIES			
ITEM	UNIT	CONSTANT QUANTITY	VARIABLE QUANTITY
Class M6 Concrete	Cu. Yd.	0.26	0.22H
Reinforcing Steel	Lb.	51.19	28.97H
Frame and Grate Assembly	Each	1	

DROP INLETS FOR 12" TO 24" DIAMETER PIPE

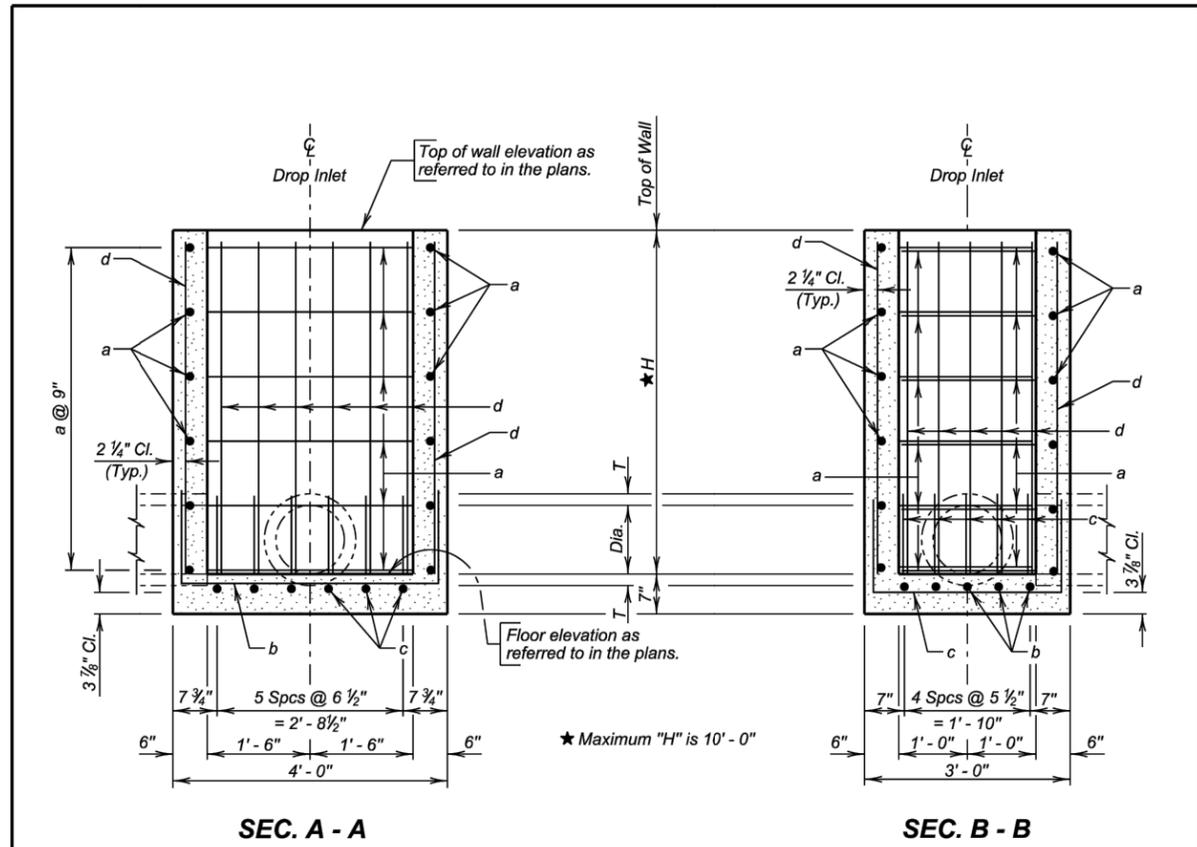
SPECIFICATIONS

Design Specifications: AASHTO LRFD Bridge Design Specifications, 2012 Edition.
 Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, Current Edition and required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

GENERAL NOTES:

Design Live Load: HL-93. No construction loading in excess of legal load was considered.
 Reinforcing steel shall conform to ASTM A615 grade 60. The d bars shall be lapped 12 inches with the b and c bars. Cut and bend reinforcing steel as required to place pipe(s) through the drop inlet wall.
 Drop inlet may be precast. If precast drop inlet details differ from this standard plate, submit a checked design done by a SD registered P.E. and shop plans to the Office of Bridge Design for approval.
 * Reduce total quantities of concrete by the amount of concrete displaced by the pipe(s). The total quantity of concrete shall be computed to the nearest hundredth of a cubic yard. The total quantity of reinforcing steel shall be computed to the nearest pound.
 Drop inlet shown may be modified by the addition or omission of connecting pipes as noted elsewhere in the plans. All pipes entering drop inlet must fit between the inside face of walls and shall not enter through the corners.
 Maximum R.C.P. diameter shall not exceed 18 inches on the 2-foot wide side and shall not exceed 24 inches (24 inches for R.C. arch) on the 3-foot wide side of the drop inlet.
 The dimension of H is in feet. Maximum H is 10 feet.

PIPE DISPLACEMENT REDUCTIONS		
Diameter (Inches)	Wall T (Inches)	Class M6 Concrete (Cu. Yd.)
12	2	0.03
15	2 1/4	0.04
18	2 1/2	0.05
24	3	0.09
18	2 1/2	0.05
24	3 1/2	0.09



REINFORCING SCHEDULE					
Mk.	No.	Size	Length	Type	Bending Details
a	2.67H	4	8'-0"	17	
b	5	5	6'-3"	17	
c	6	4	5'-3"	17	
d	22	4	H-2"	Str.	

NOTE: All dimensions are out to out of bars.

4TH STREET CROSS SECTIONS

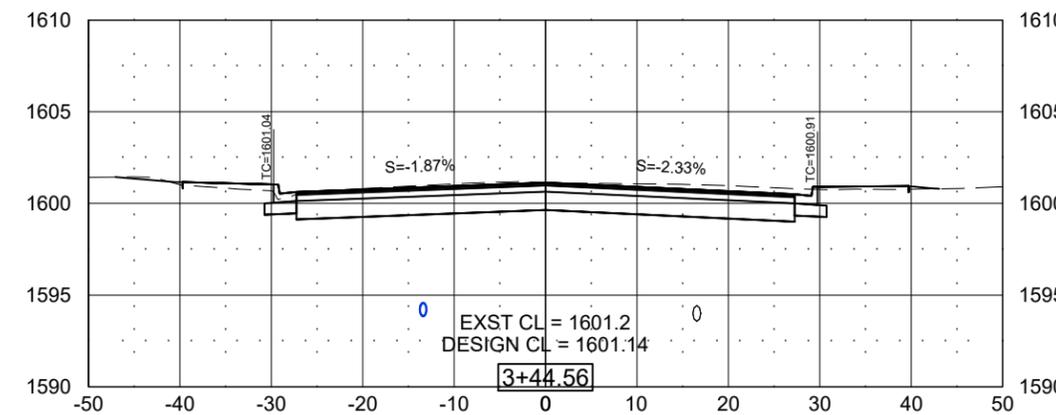
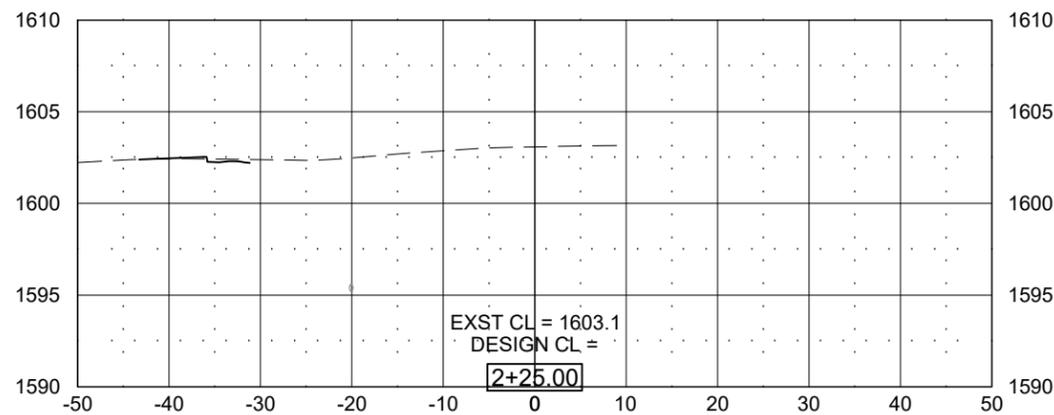
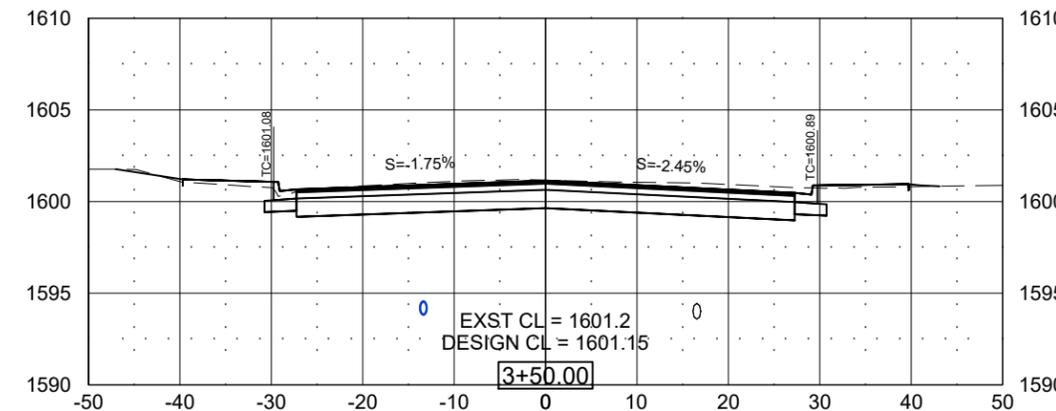
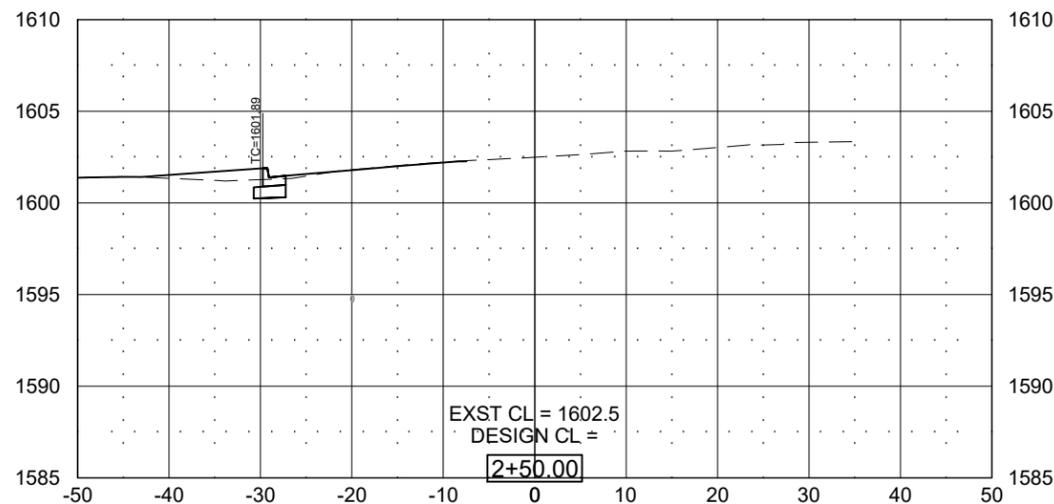
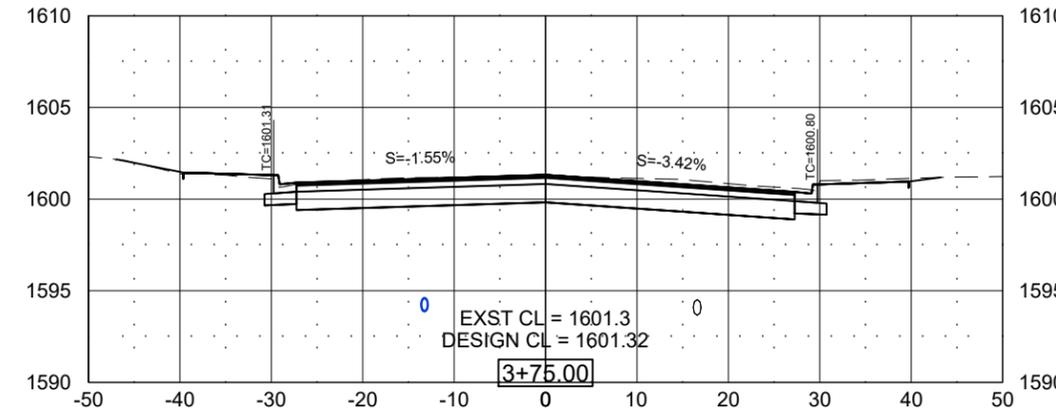
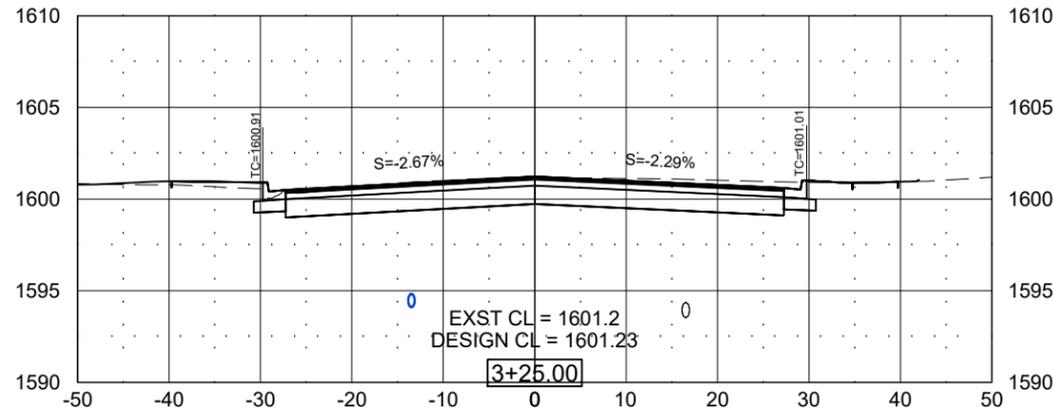
BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
101	112

Plotting Date: 03/10/2026 Rev: ---



4TH STREET CROSS SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

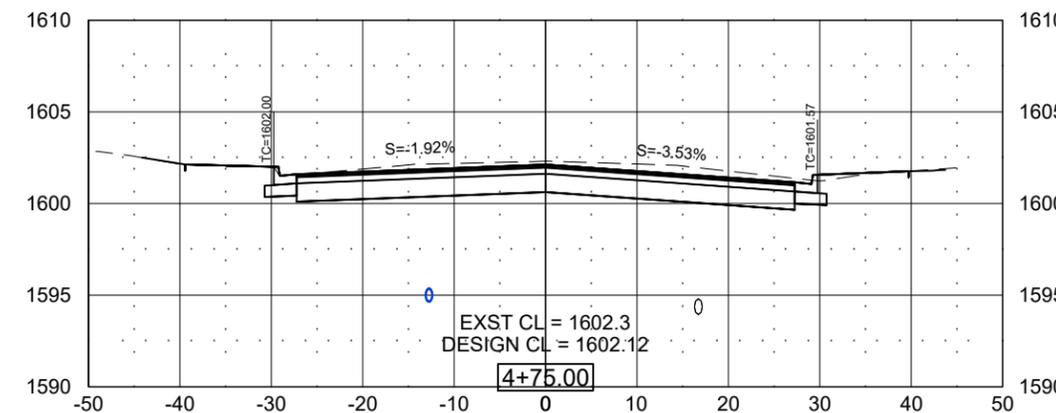
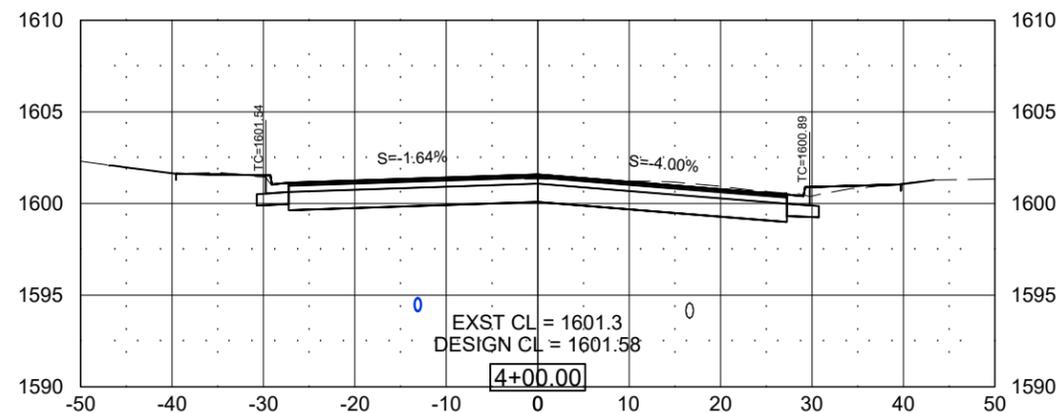
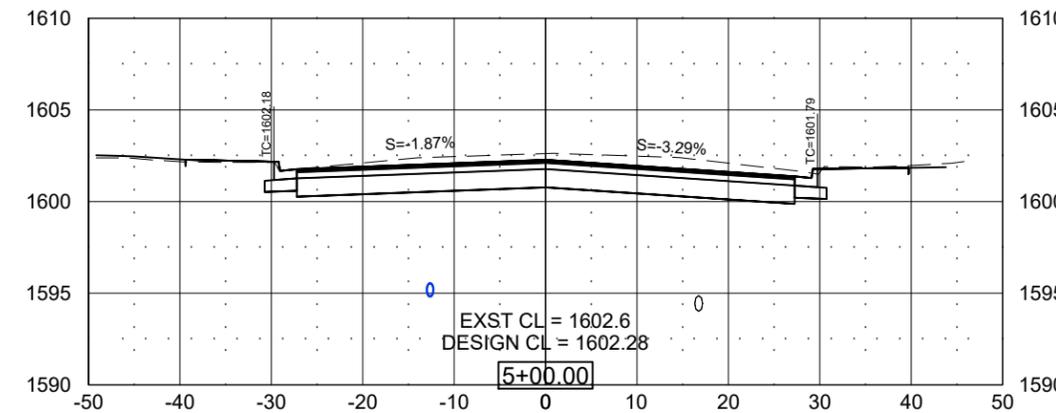
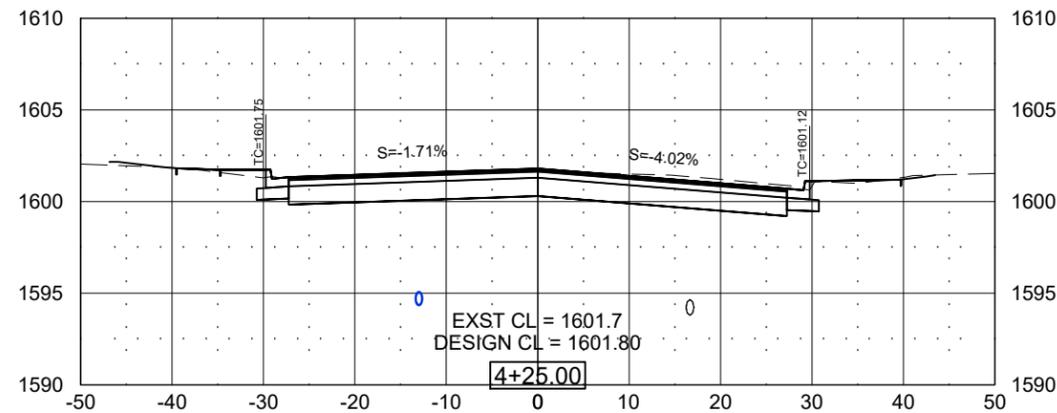
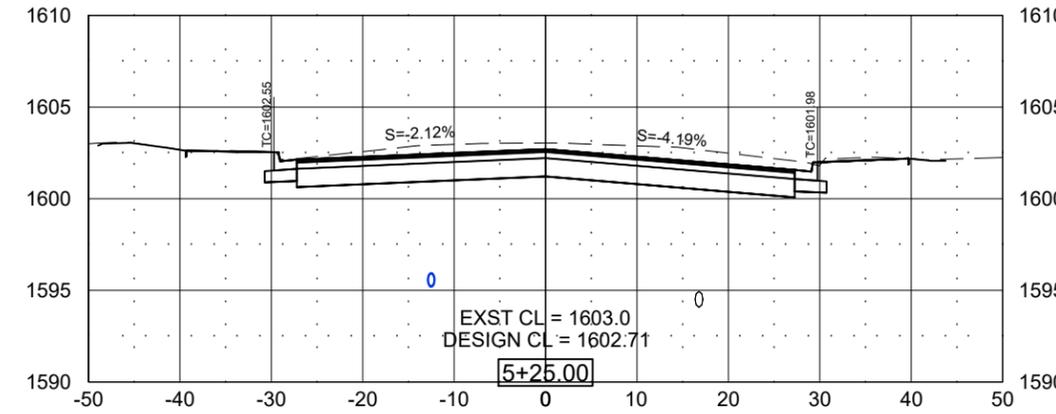
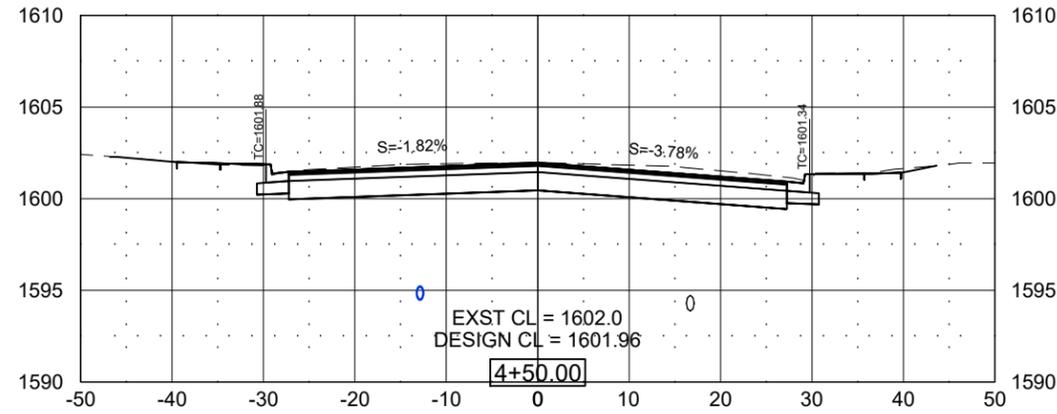
102

TOTAL
SHEETS

112

Plotting Date: 03/10/2026

Rev: ---



4TH STREET CROSS SECTIONS

BAI JOB # 24327-00

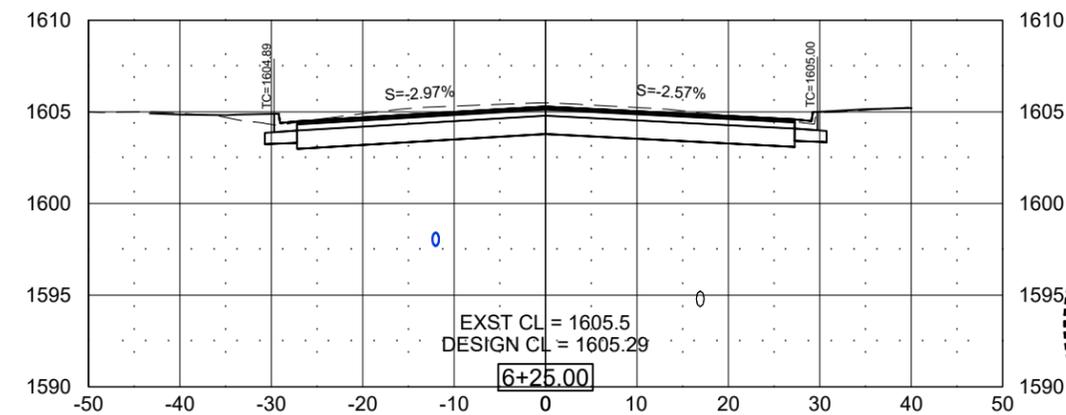
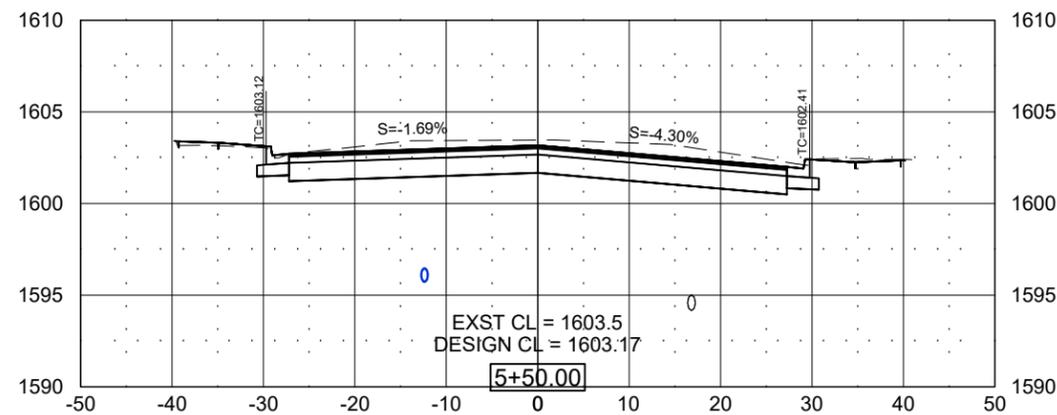
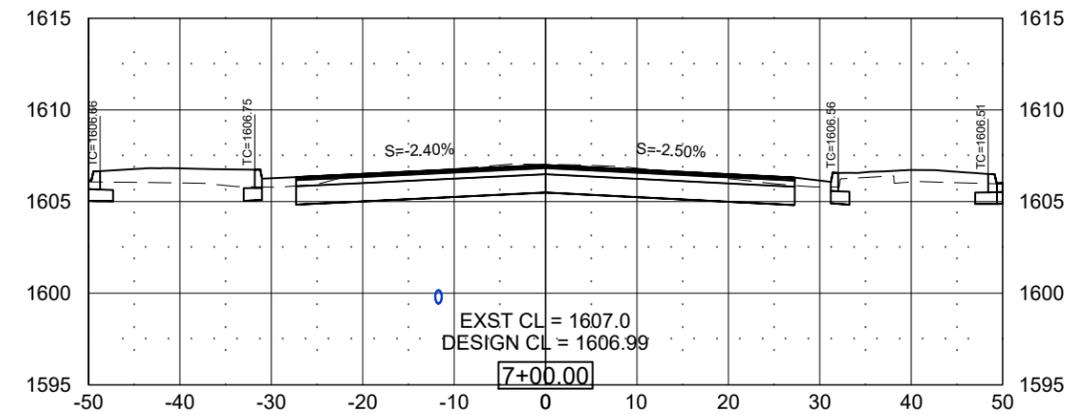
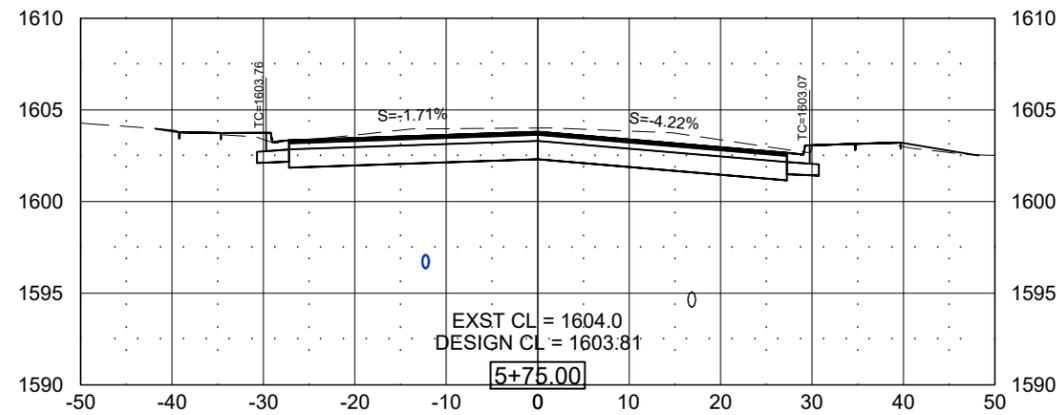
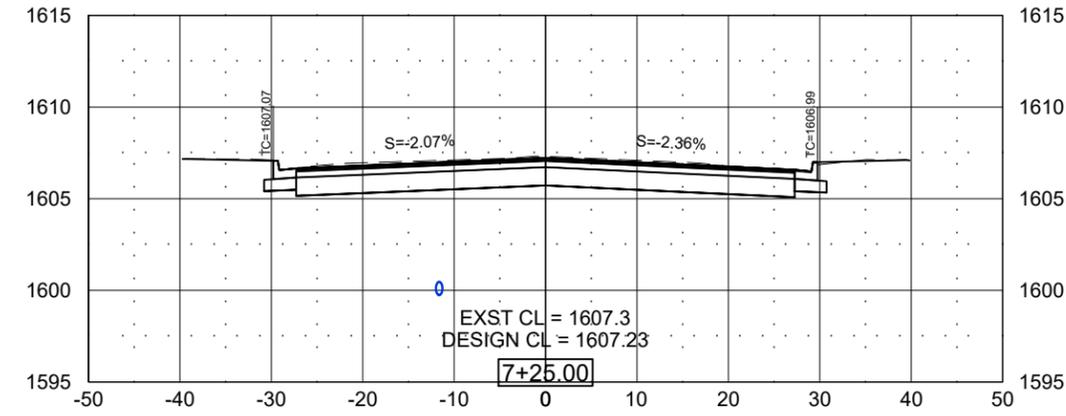
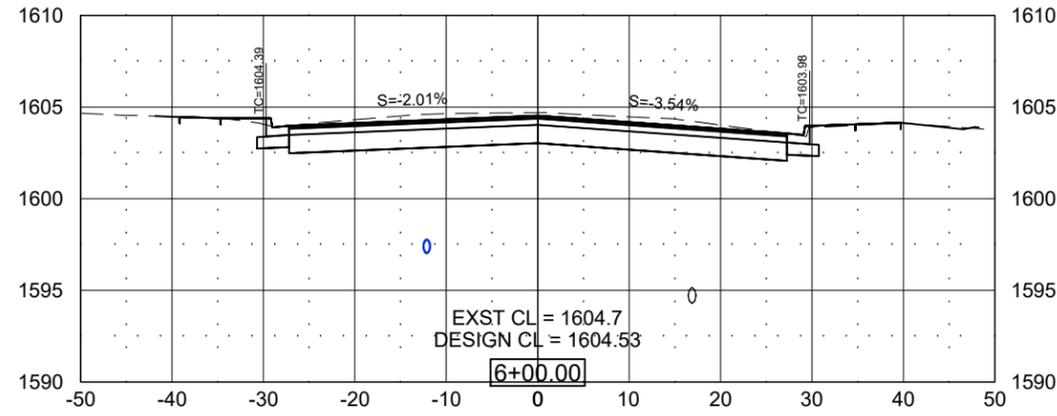
STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
103	112

Plotting Date: 03/10/2026

Rev: ---



4TH STREET CROSS SECTIONS

BAI JOB # 24327-00

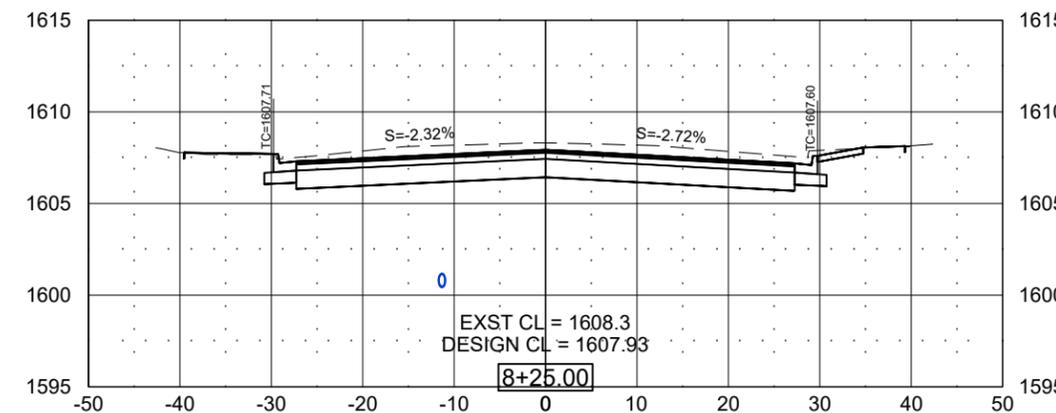
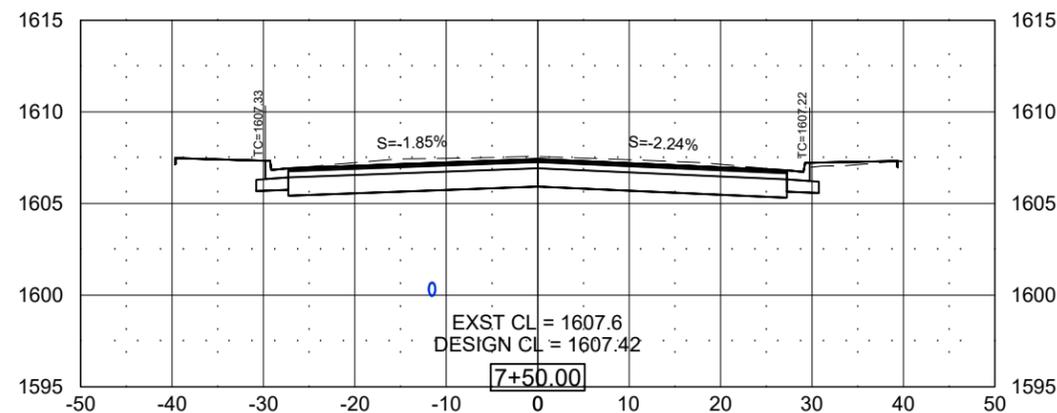
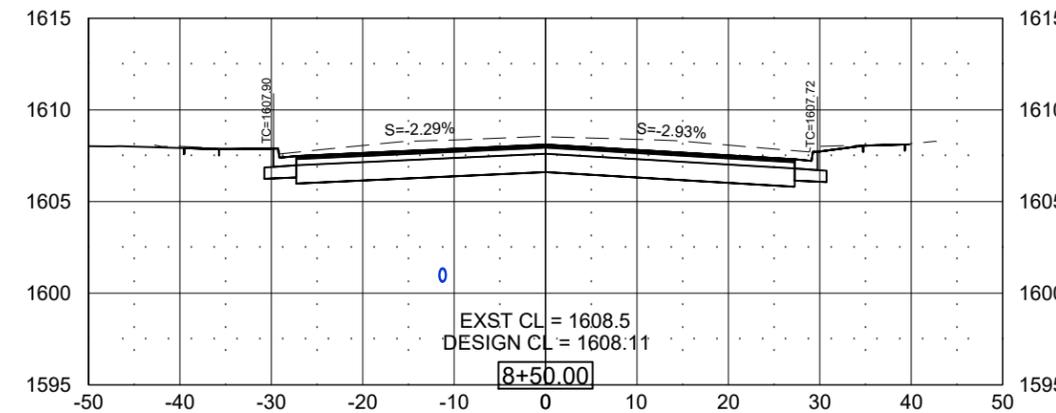
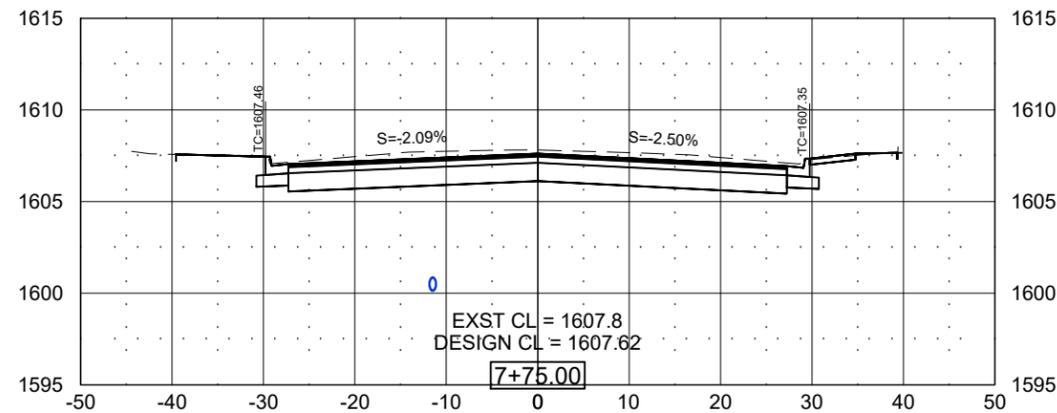
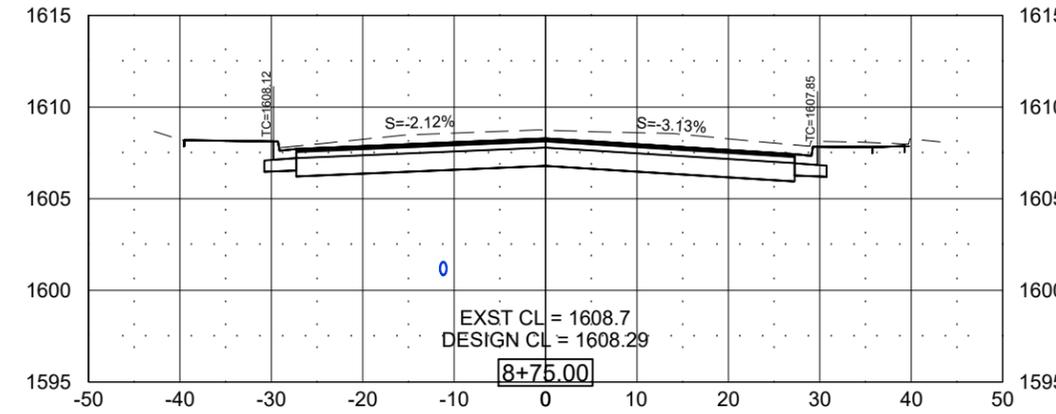
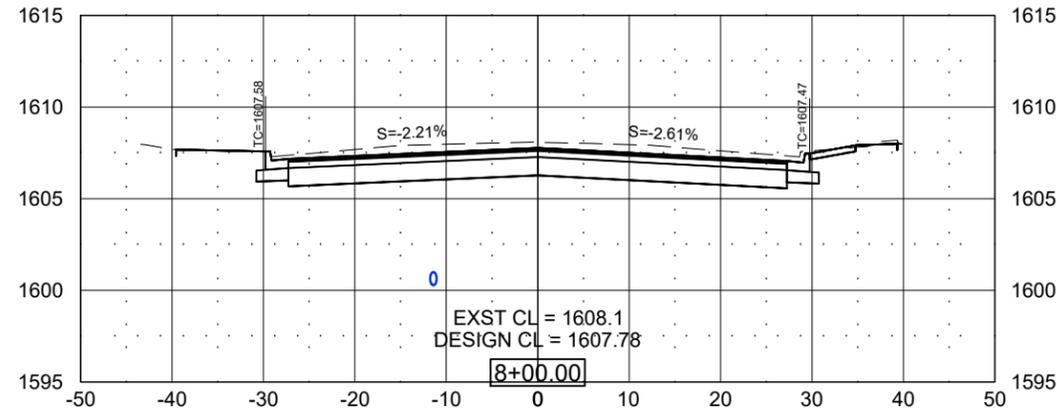
STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
104	112

Plotting Date: 03/10/2026

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4TH STREET CROSS SECTIONS

BAI JOB # 24327-00

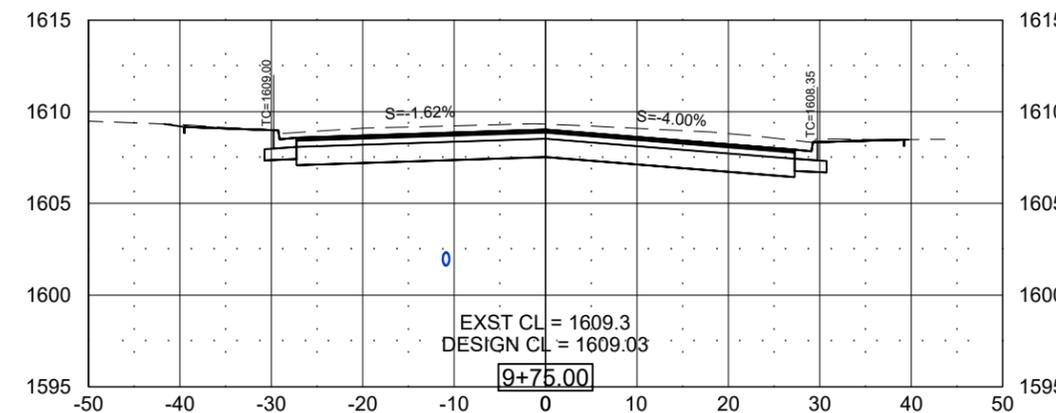
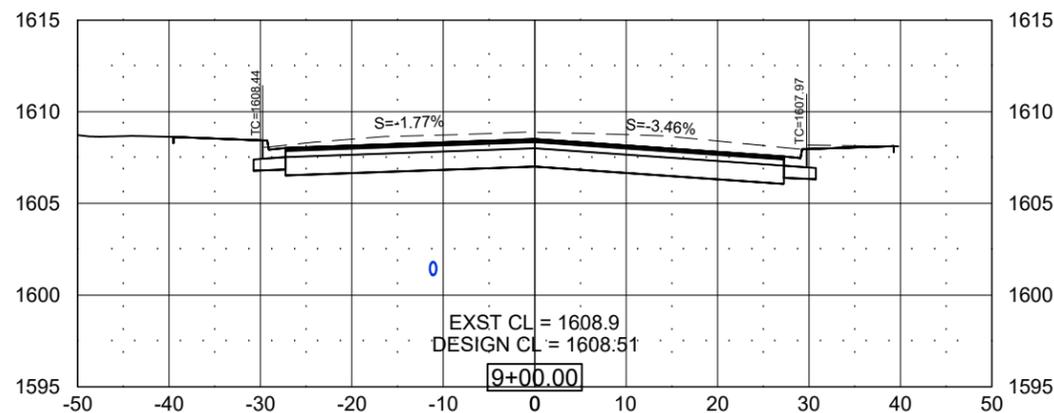
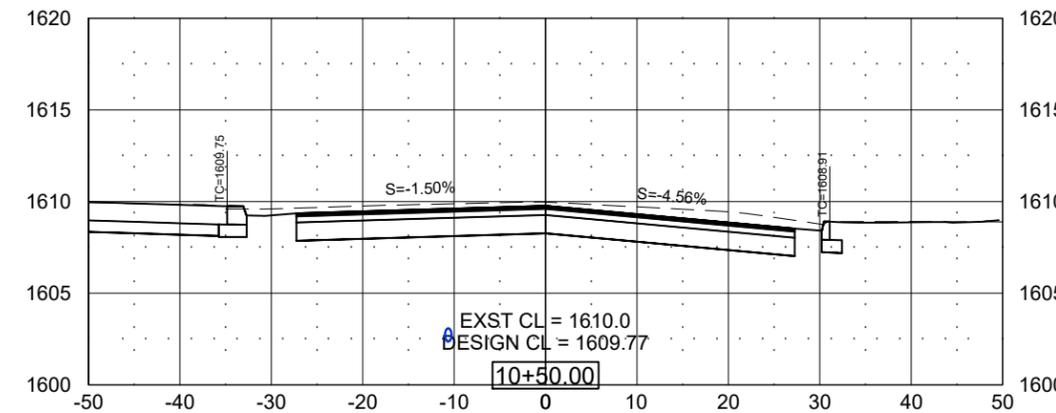
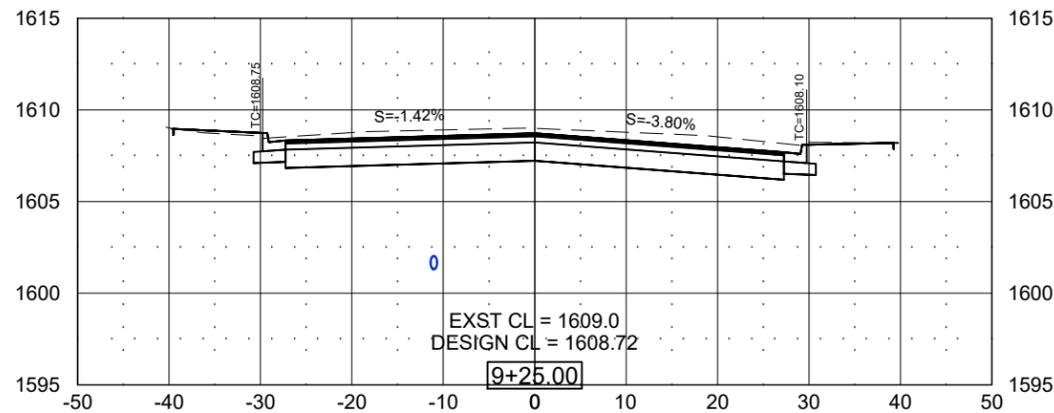
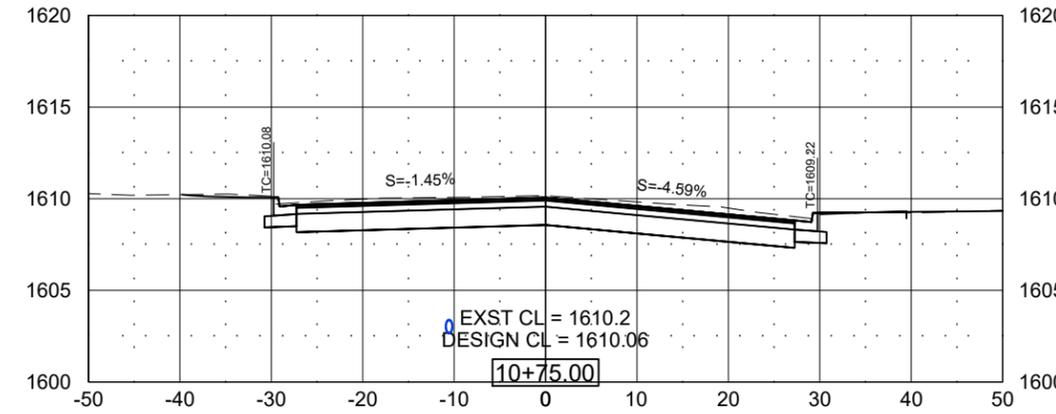
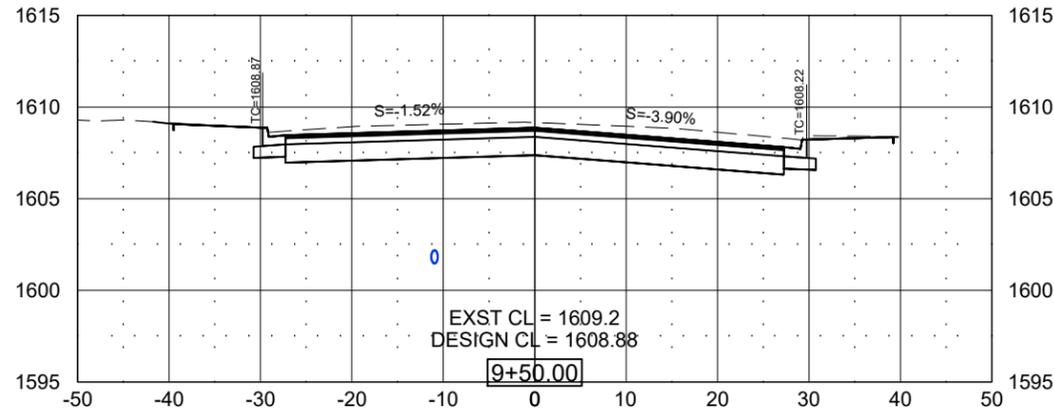
STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
105	112

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4TH STREET CROSS SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

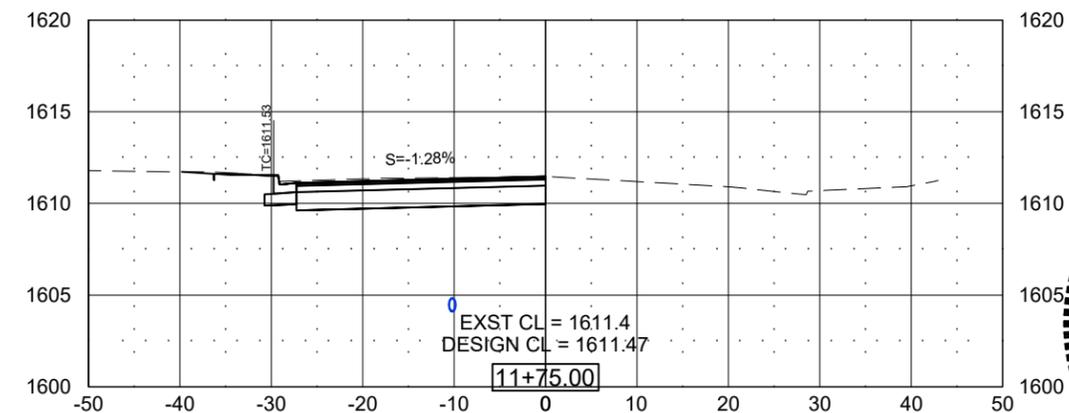
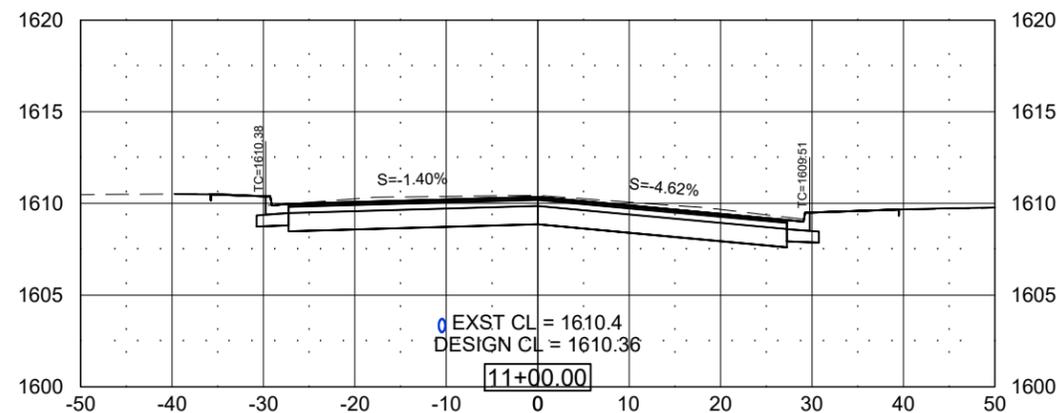
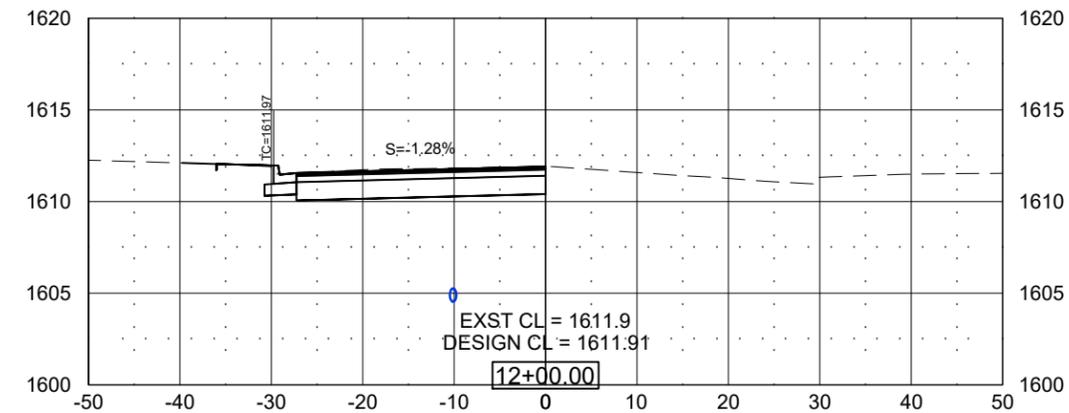
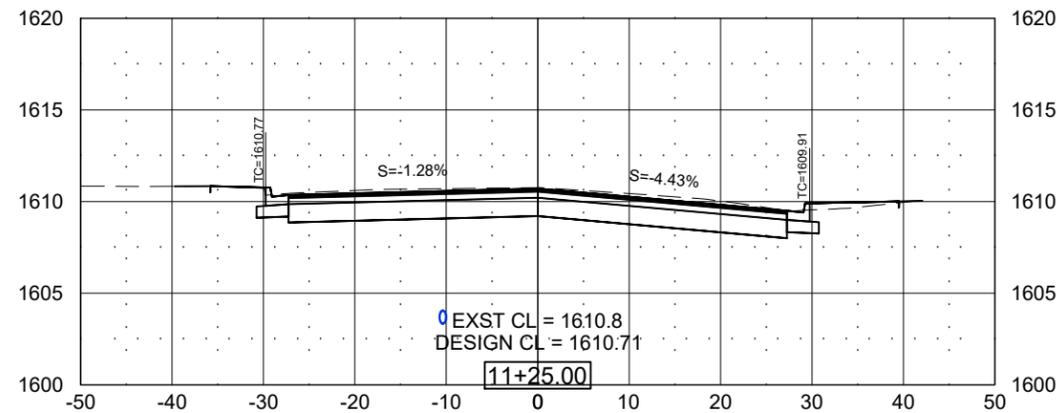
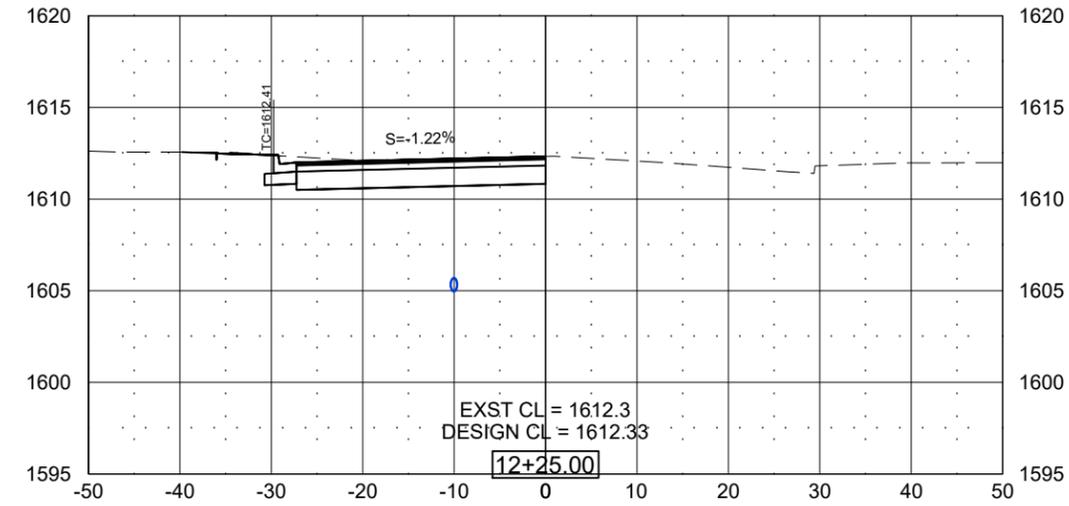
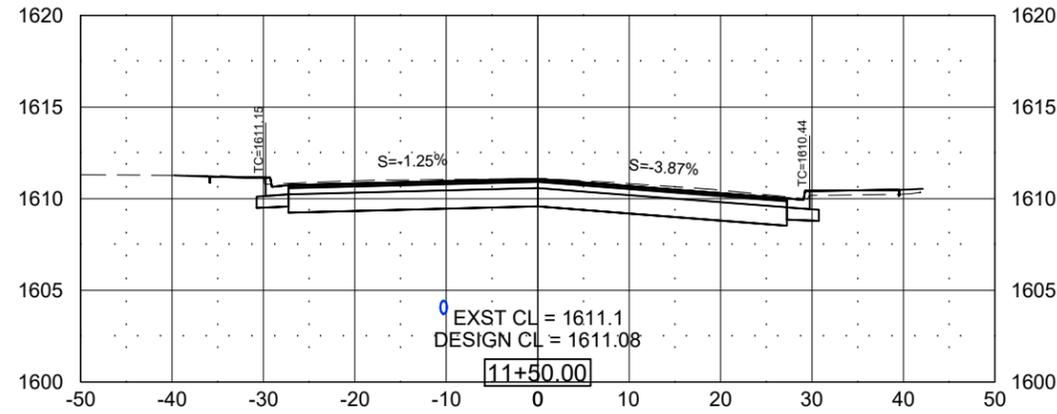
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TOTAL
SHEETS

112

Plotting Date: 03/10/2026

Rev: ---



4TH STREET CROSS SECTIONS

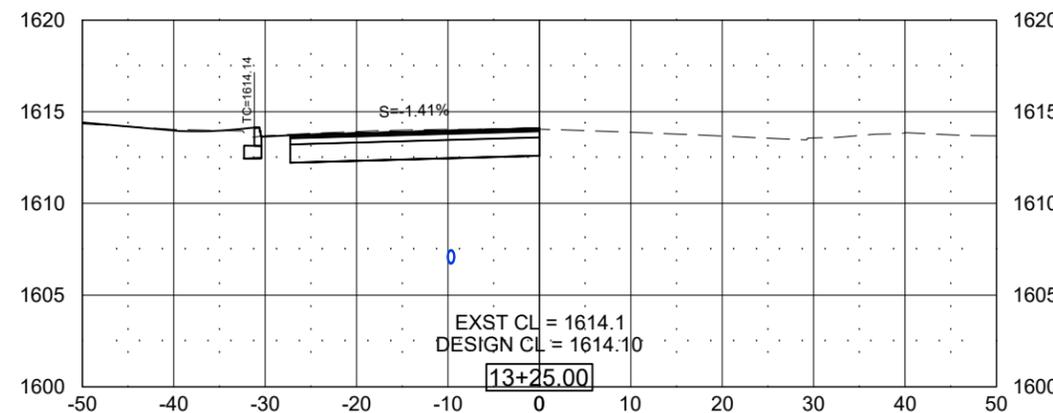
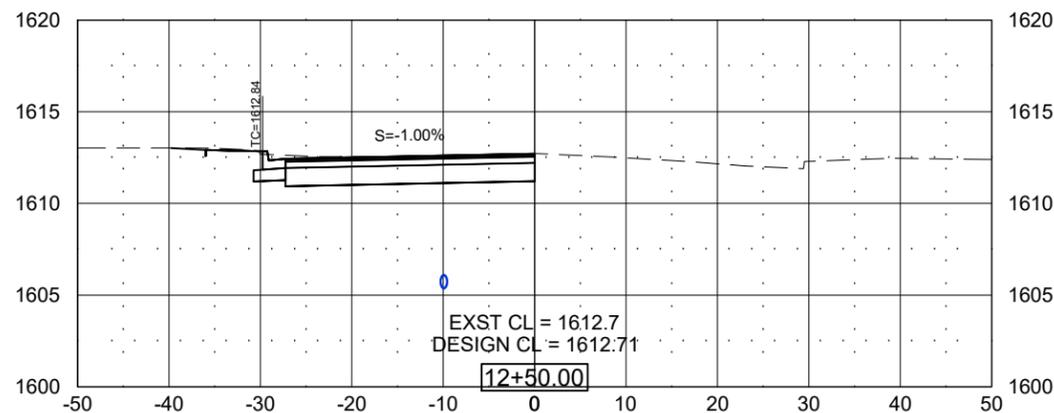
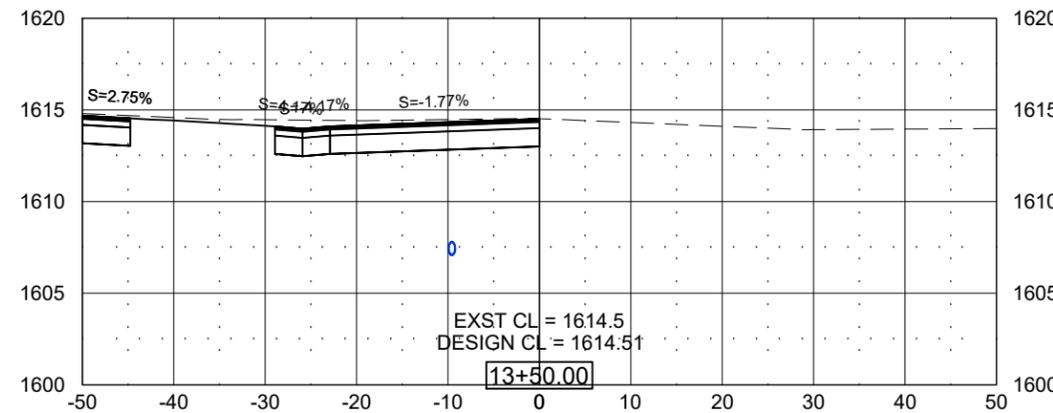
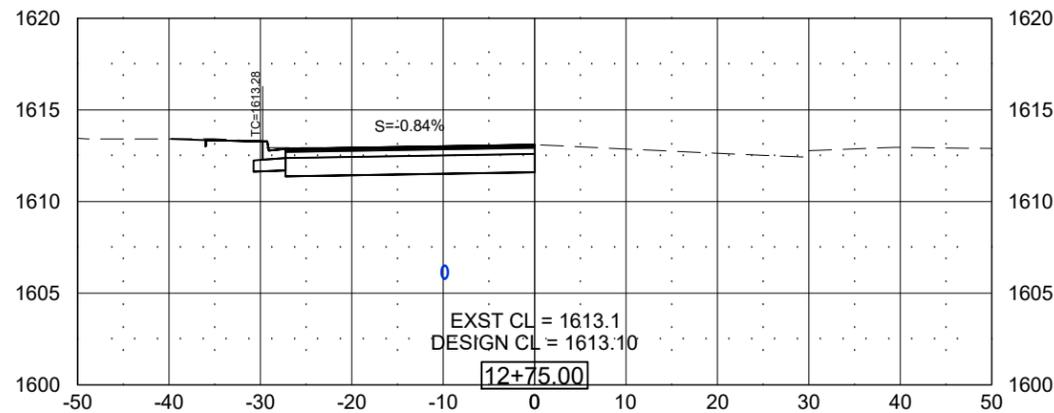
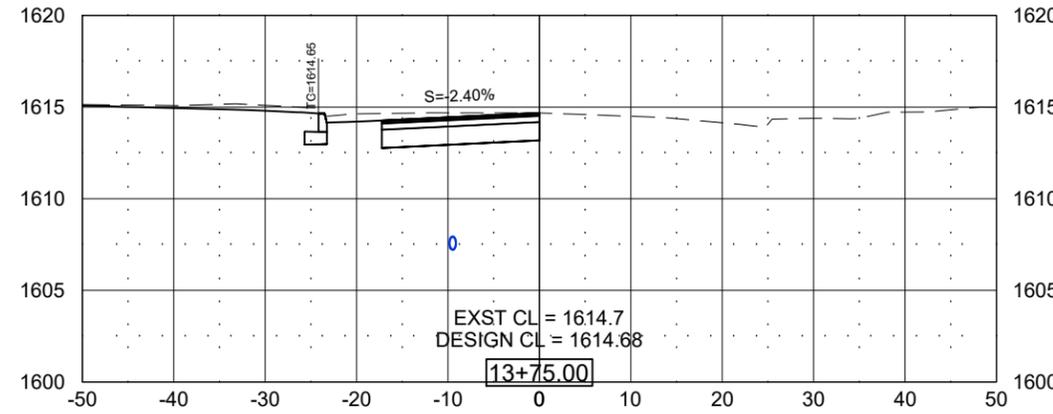
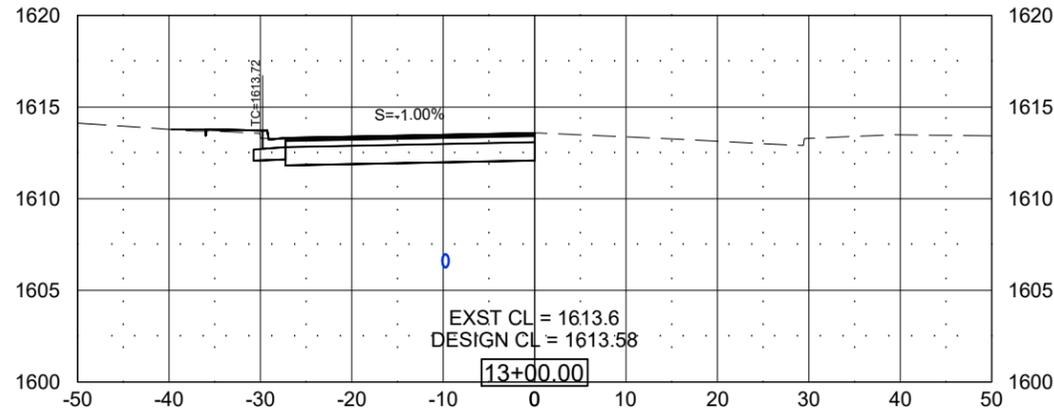
BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

SHEET	TOTAL SHEETS
107	112

Plotting Date: 03/10/2026 Rev: ---



4TH STREET CROSS SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

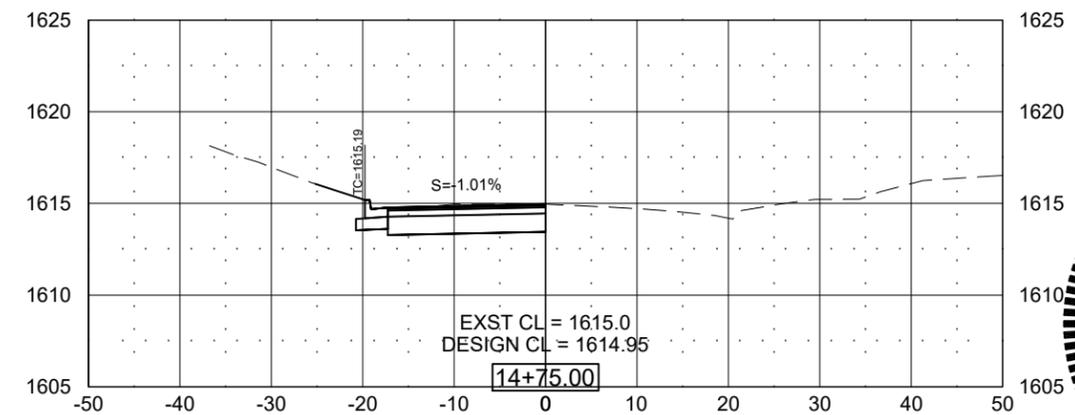
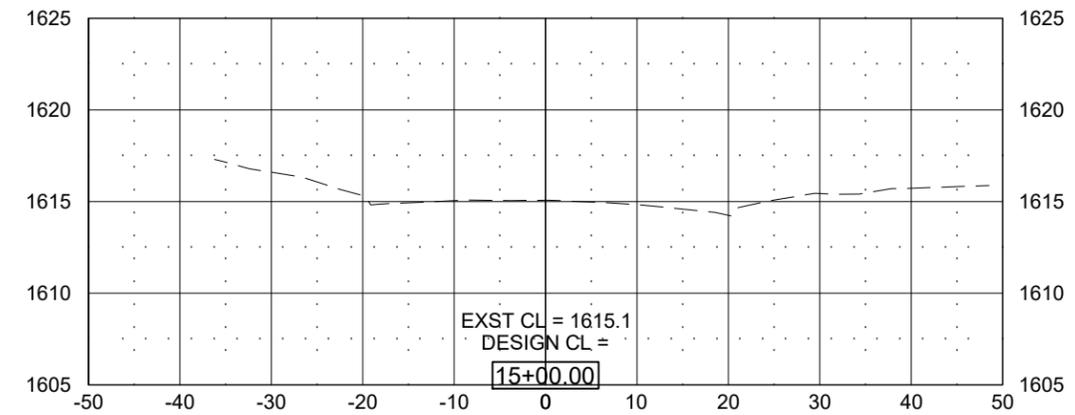
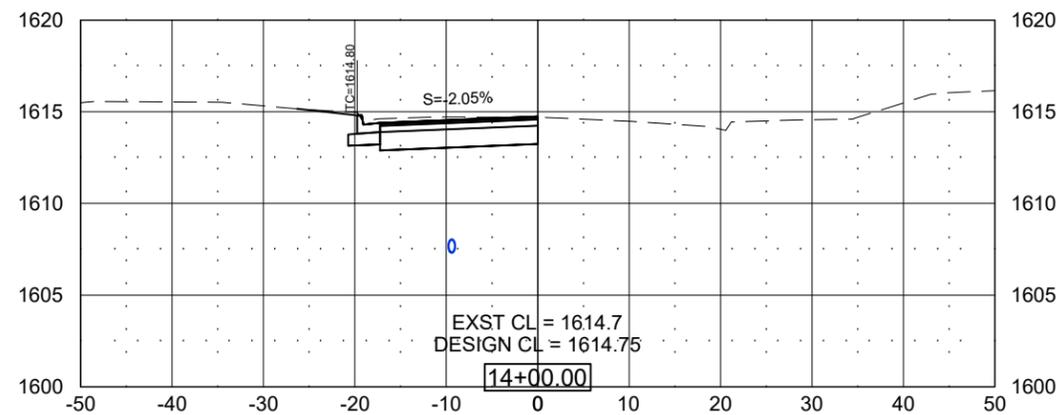
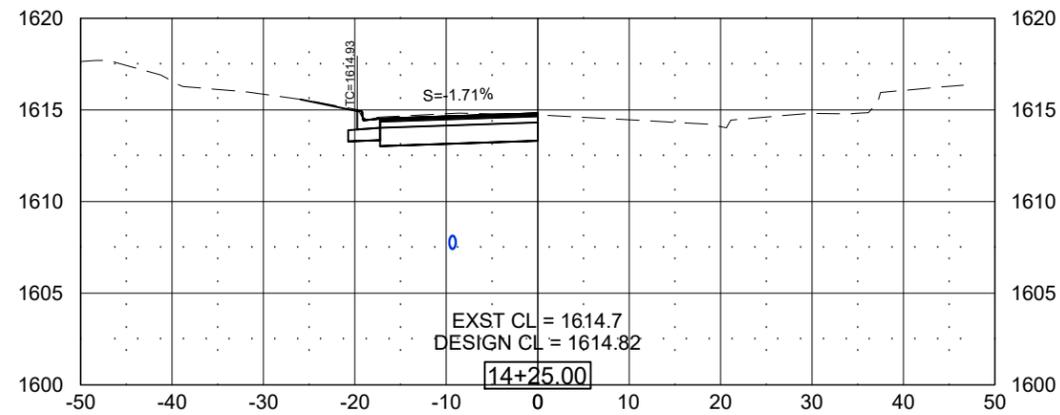
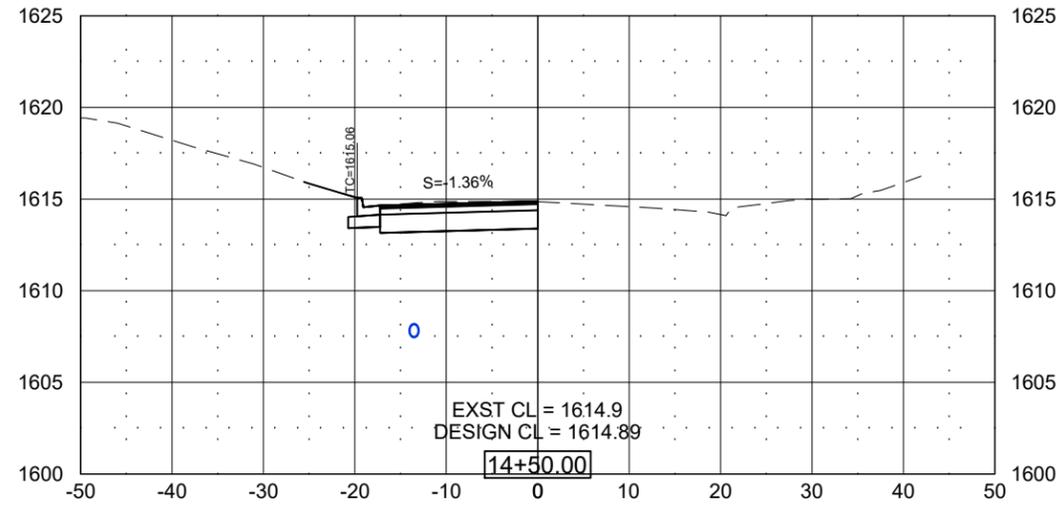
108

TOTAL
SHEETS

112

Plotting Date: 03/10/2026

Rev: ---



4TH STREET DOORWAY CROSS SECTIONS

BAI JOB # 24327-00

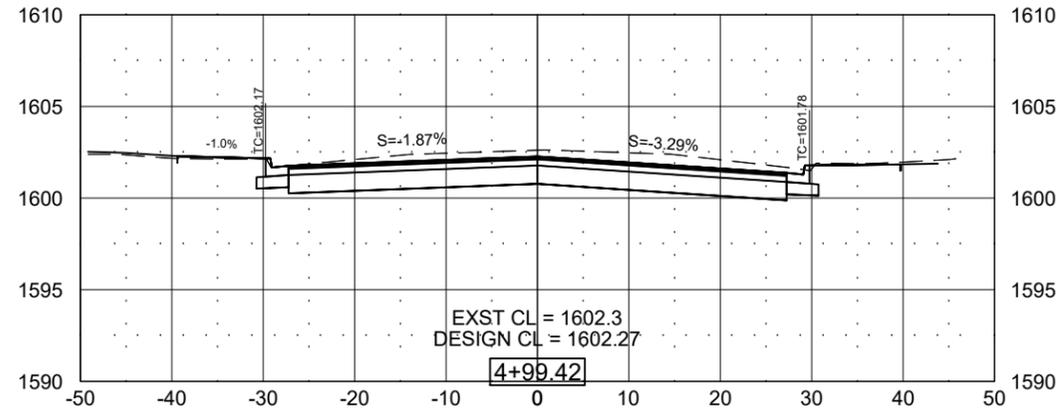
STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

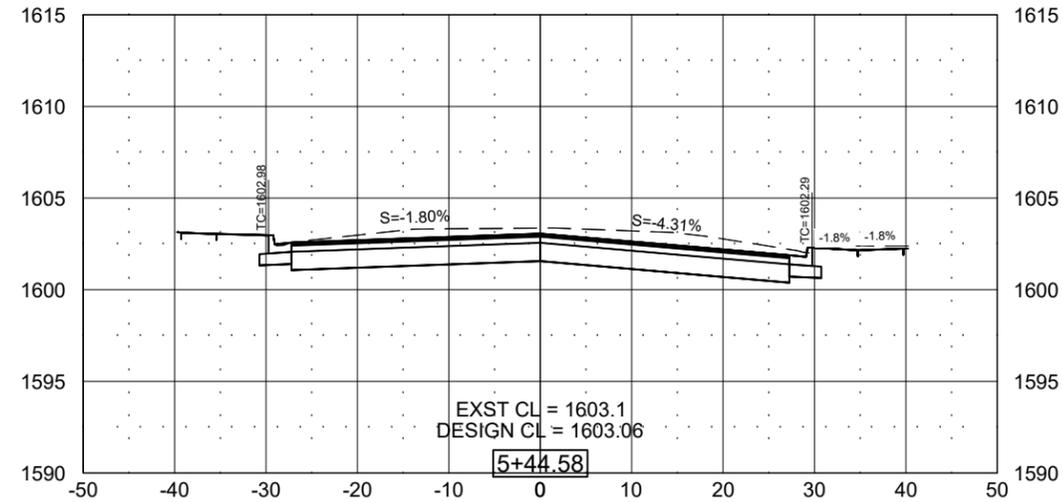
SHEET	TOTAL SHEETS
109	112

Plotting Date: 03/10/2026 Rev: ---

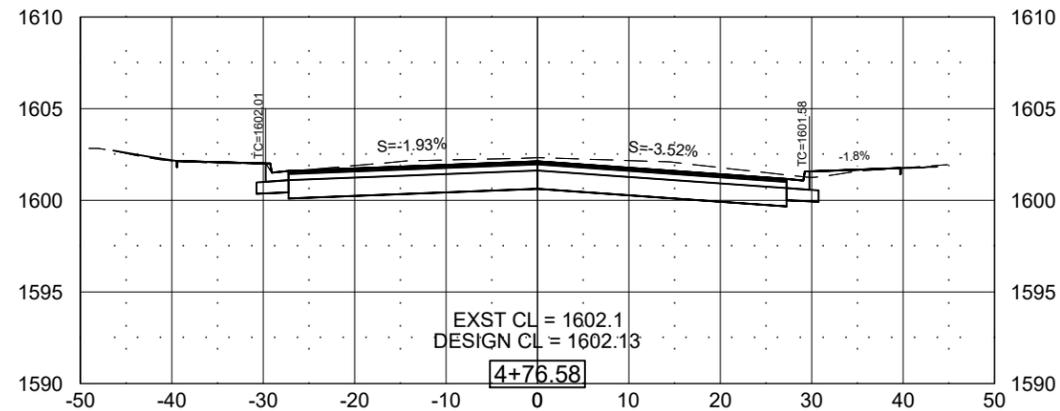
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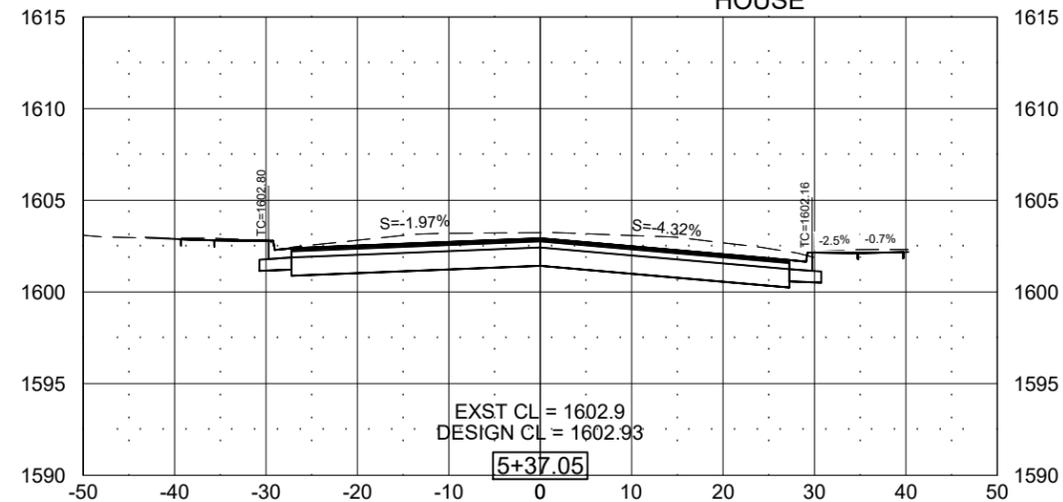
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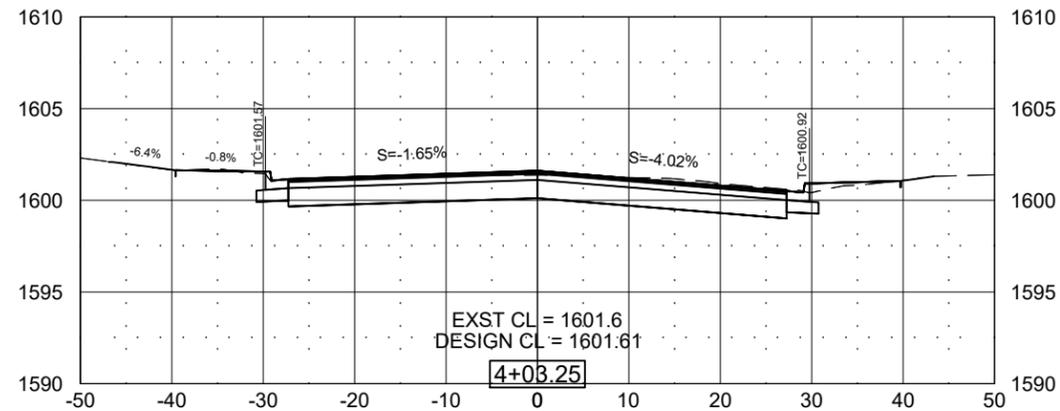
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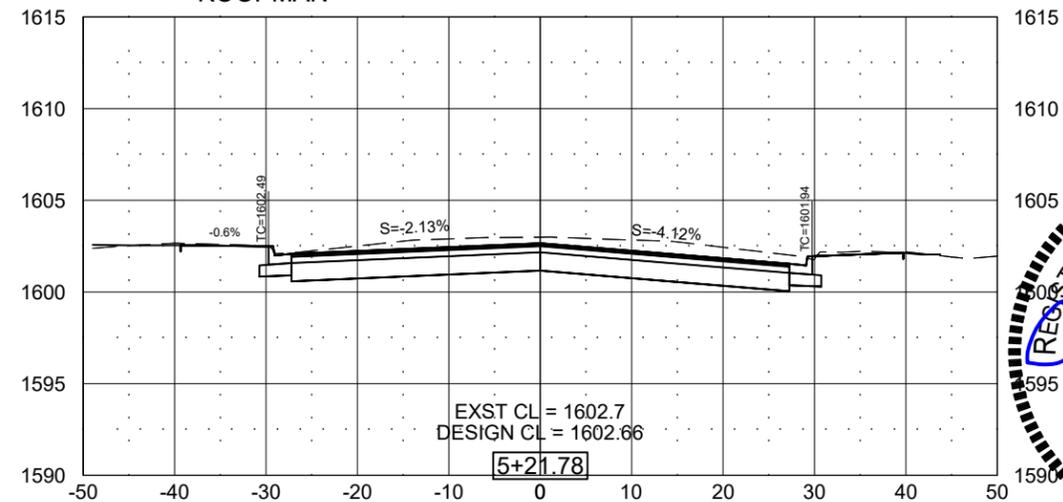
HOWIES DOG HOUSE



RELIABANK



KOOPMAN



4TH STREET DOORWAY CROSS SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT
PTAPR(57), CA 024A, C462135-05

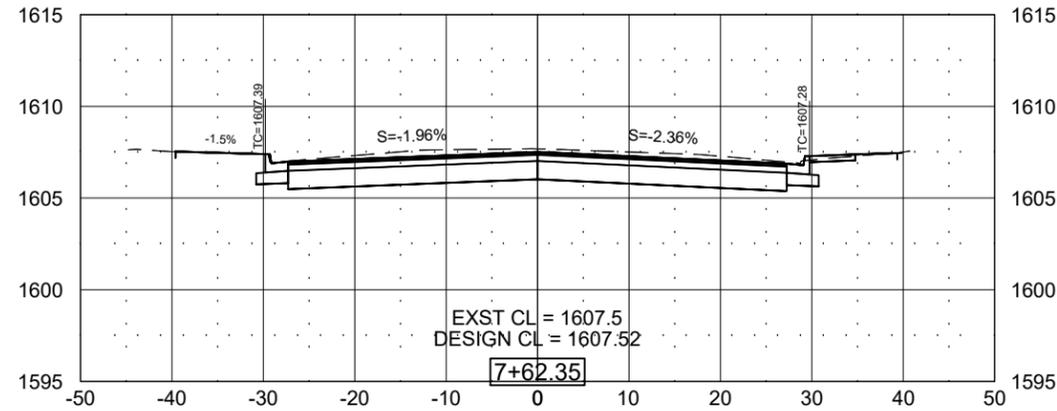
SHEET
110

TOTAL
SHEETS
112

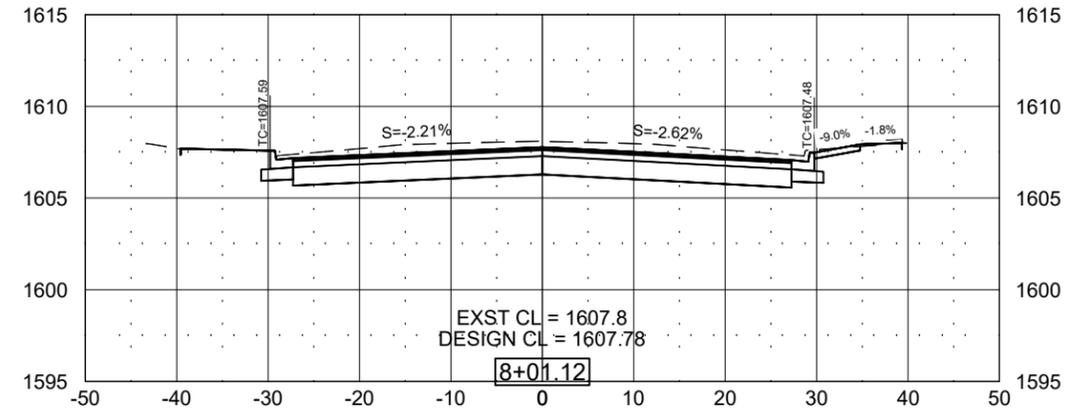
Plotting Date: 03/10/2026

Rev: ---

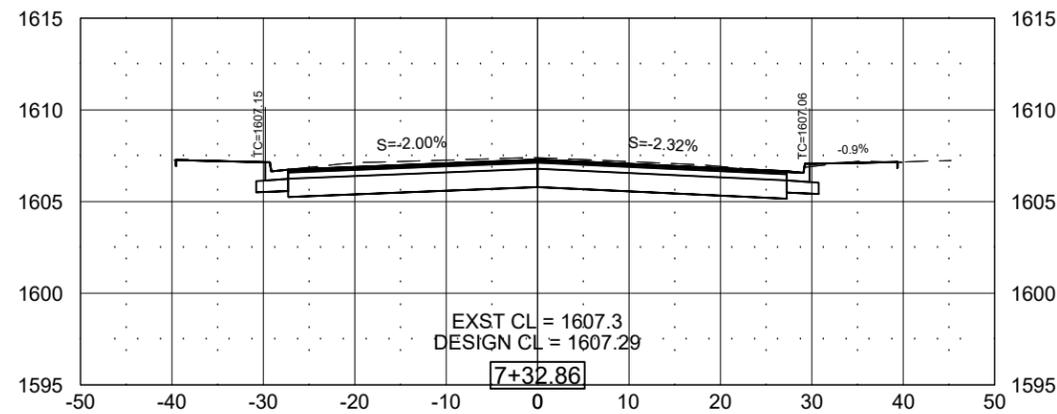
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LABELING, INC.



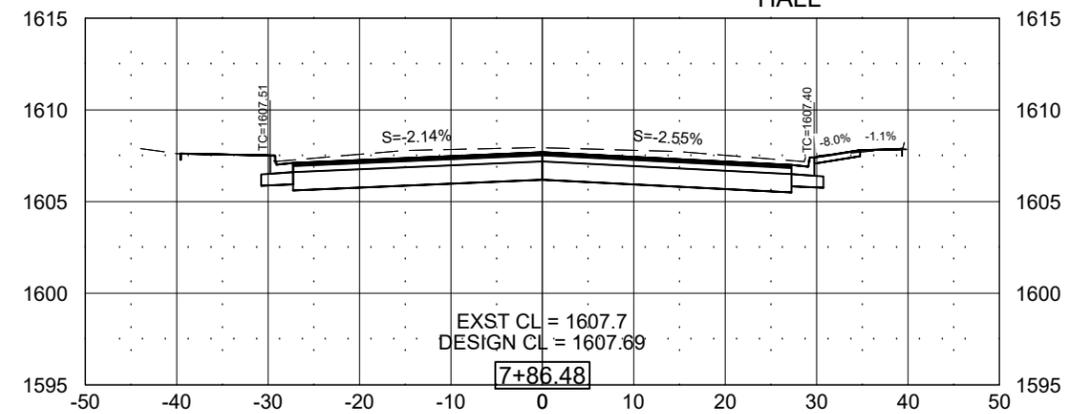
309
COLTON CITY
HALL



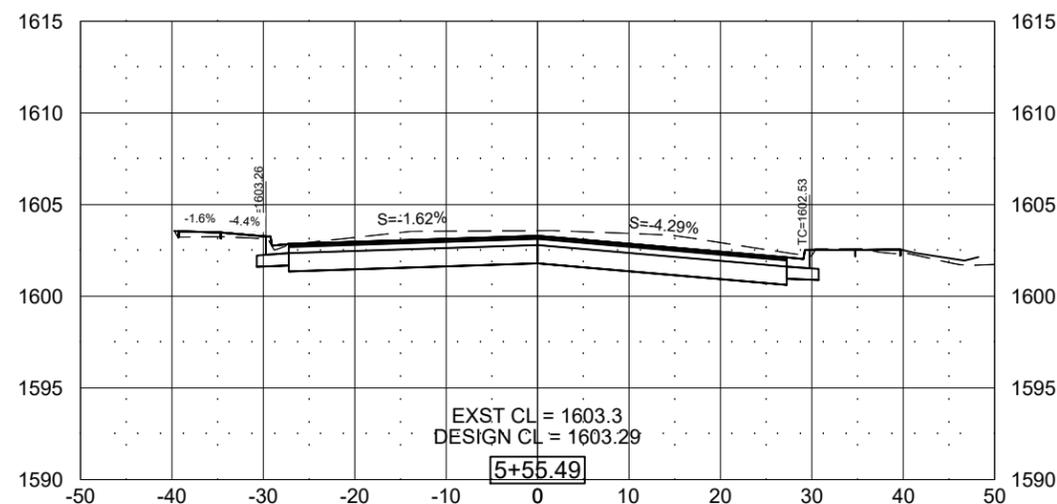
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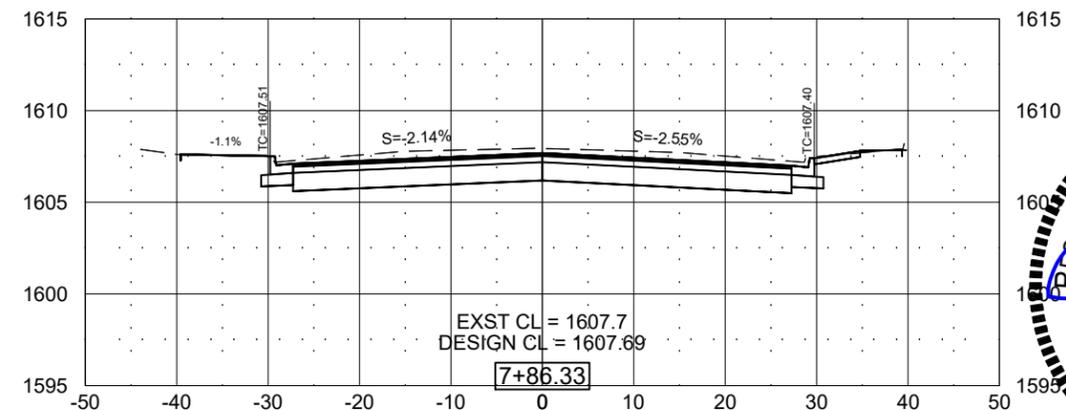
309
COLTON CITY
HALL



THE BEAUTY BAR



SIGN DESIGN &
LABELING, INC.



4TH STREET DOORWAY CROSS SECTIONS

BAI JOB # 24327-00

STATE OF SOUTH DAKOTA

PROJECT

PTAPR(57), CA 024A, C462135-05

SHEET

111

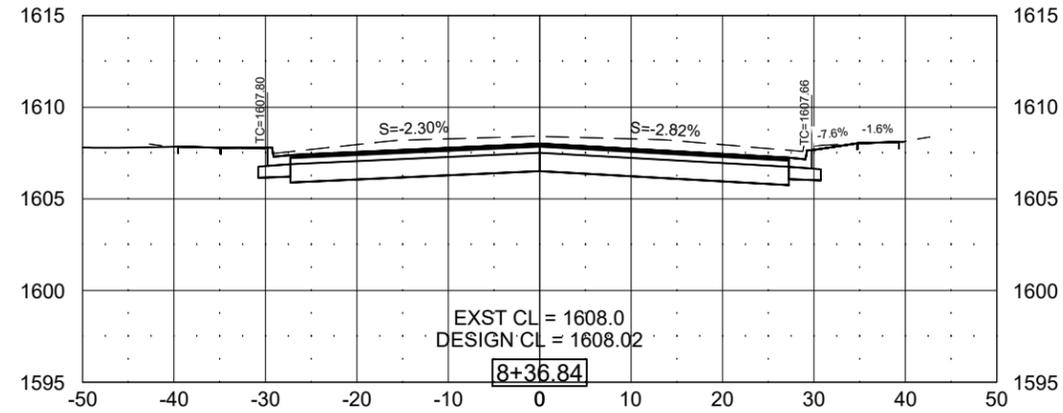
TOTAL SHEETS

112

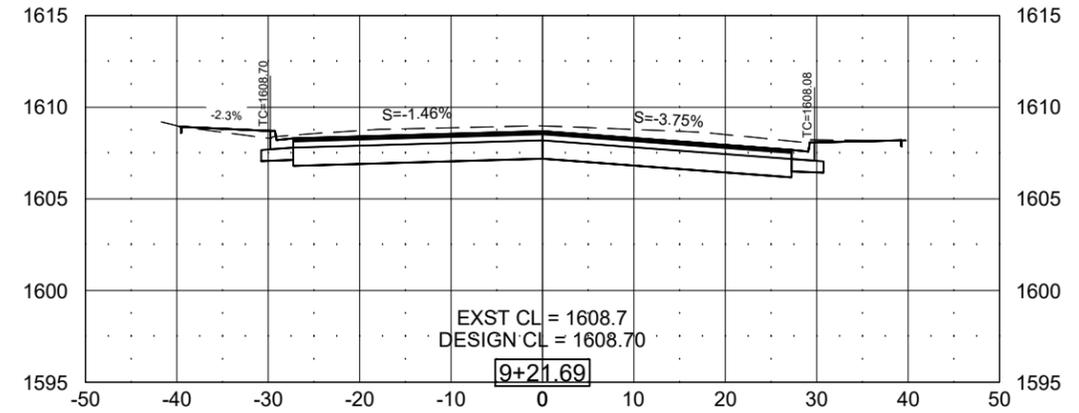
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Rev: ---

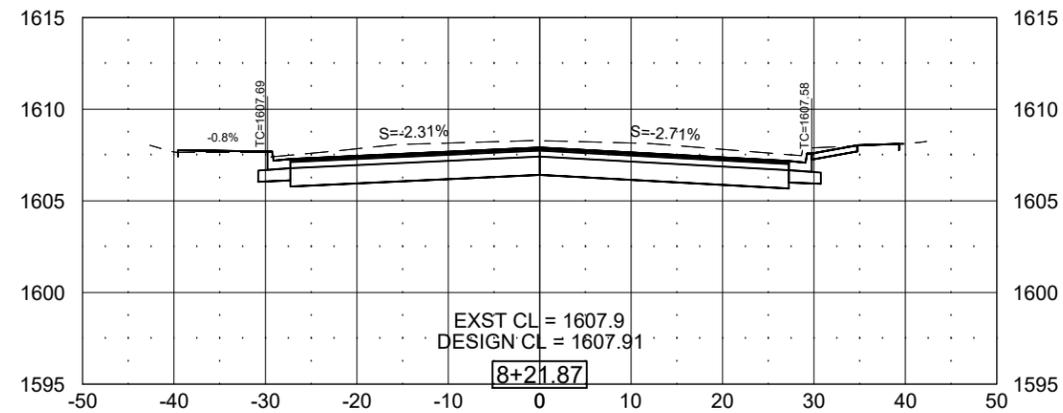
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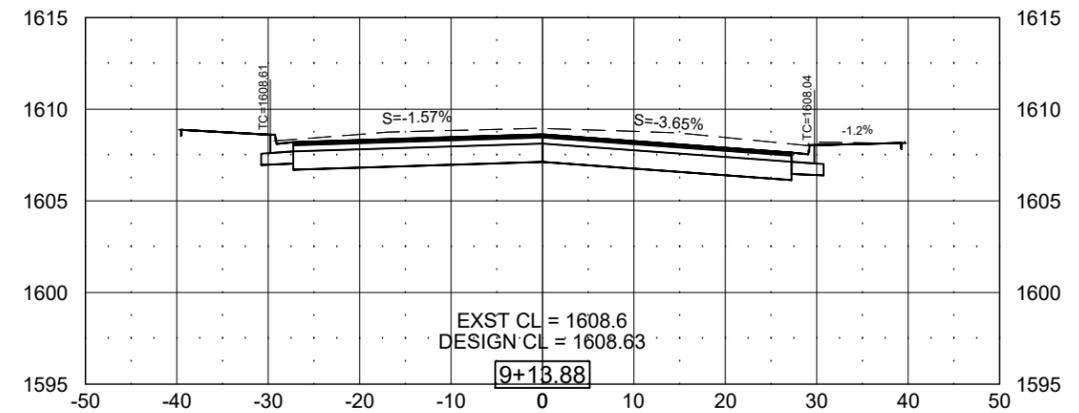
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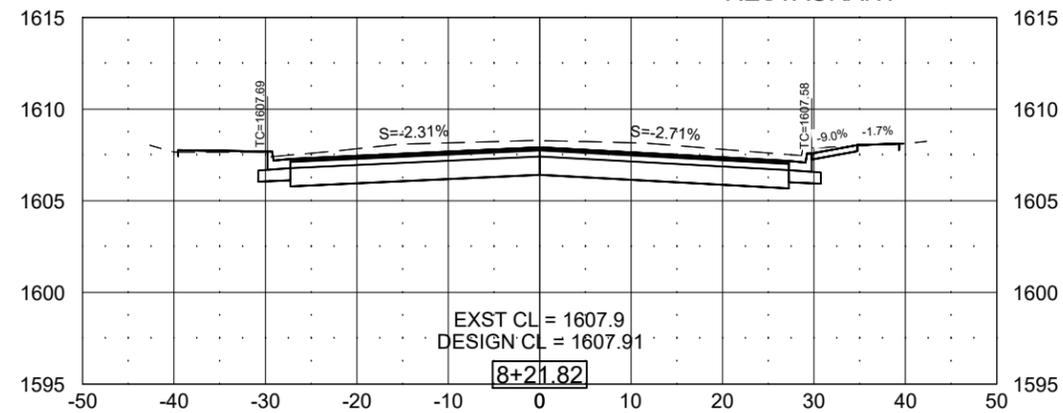
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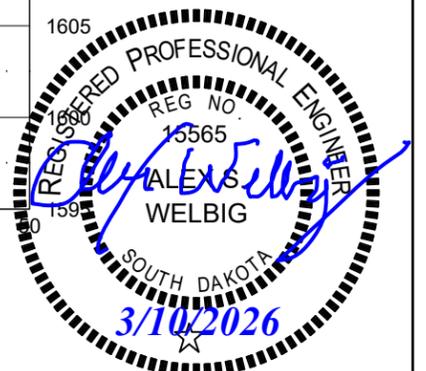
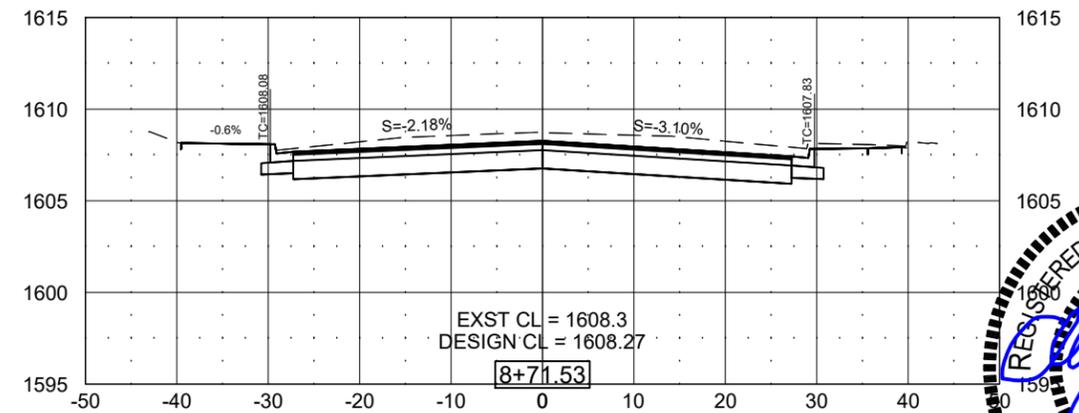
BOEN PROPERTIES



311 TJS BAR & RESTAURANT



TELLBERG'S GYM



4TH STREET DOORWAY CROSS SECTIONS

BAI JOB # 24327-00

STATE OF
SOUTH
DAKOTA

PROJECT

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SHEET

112

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SHEETS

112

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