DEPARTMENT OF TRANSPORTATION

Planning & Engineering
Office of Project Development
700 E Broadway Avenue
Pierre, South Dakota 57501-2586
O: 605.773.3275 | F: 605.773.2614
dot.sd.gov

November 18, 2024

ADDENDUM NO. 1

RE: Item #1, November 20, 2024 Letting - NH-CR 0034(193)402, PCN 0609, Moody County - Grading, PCC Surfacing, Curb & Gutter, Sidewalk, Lighting

TO WHOM IT MAY CONCERN:

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

SPECIAL PROVISIONS: Please remove the Index of Special Provisions and replace with attached Index of Special Provisions revised 11/14/24.

Please remove the "Special Provision Regarding Right of Entry/Work Limits", dated 10/21/24.

SDEBS BID PROPOSAL: *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

Bid Items were added:

Bid Item 110E0605 "Remove Chain Link Fence"
Bid Item 450E4819 "54" CMP 16 Gauge, Furnish"
Bid Item 450E4820 "54" CMP, Install"
Bid Item 450E5235 "54" CMP Flared End, Furnish"
Bid Item 450E5236 "54" CMP Flared End, Install"
Bid Item 450E9234 "Slipline 54" Pipe"
Bid Item 621E0050 "5' Chain Link Fence with Top Rail"
Bid Item 621E0430 "Double Vehicular Swing Gate"
Bid Item 621E0600 "Chain Link Fence Post"

Quantities for Bid Items were changed:

Bid Item 450E0192 "42" RCP Class 2, Furnish" changed from 188 to 164 Ft
Bid Item 450E0200 "42" RCP, Install" changed from 188 to 164 Ft
Bid Item 450E2032 "42" RCP Flared End, Furnish" changed from 8 to 4 Each
Bid Item 450E2033 "42" RCP Flared End, Install" changed from 8 to 4 Each
Bid Item 634E0020 "Pilot Car" changed from 2,500.00 to 250.00 Hour
Bid Item 650E1079 "Modified Type F68 Concrete Curb and Gutter" changed from 2,853 to 2,849 Ft
Bid Item 650E1080 "Type F68 Concrete Curb and Gutter" changed from 301 to 303 Ft
Bid Item 720E1015 "Bank and Channel Protection Gabion" changed from 20.0 to 24.0 CuYd
Bid Item 831E0110 "Type B Drainage Fabric" changed from 58 to 68 SqYd

Bid Items were removed:
Bid Item 450E9232 “Slipline 48” Pipe”

PLANS: Please destroy sheets A2, A3, B2, B9, B15-B20, B35, B36, B39, B41, B43, B78, C2, C4, X104-X107 and Z2 replace with the enclosed sheets, dated 11/5/24,11/15/24 & 11/18/24. Sheets 146a, 146b, and 146c were added.

Sheets A2 & B2:

Bid Items were added:
Bid Item 110E0605 “Remove Chain Link Fence”
Bid Item 450E4819 “54” CMP 16 Gauge, Furnish”
Bid Item 450E4820 “54” CMP, Install”
Bid Item 450E5235 “54” CMP Flared End, Furnish”
Bid Item 450E5236 “54” CMP Flared End, Install”
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Bid Item 650E1080 “Type F68 Concrete Curb and Gutter” changed from 301 to 303 Ft
Bid Item 720E1015 “Bank and Channel Protection Gabion” changed from 20.0 to 24.0 CuYd
Bid Item 831E0110 “Type B Drainage Fabric” changed from 58 to 68 SqYd

Bid Items were removed:
Bid Item 450E9232 “Slipline 48” Pipe”

Sheet A3 & C2: Quantities for Bid Item 634E0020 “Pilot Car” changed from 2,500.00 to 250.00 hours

Sheet B9: TABLE OF PVC COATED BANK AND CHANNEL PROTECTION GABIONS AND DRAINAGE FABRIC was revised.

Sheets B15 – B17: PIPE QUANTITIES table was revised.

Sheet B18: FENCE QUANTITIES table was revised.

Sheets B19 & B20: PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES table was revised.

Sheets B35 & B36: Entrance at Sta 375 was revised. Pipe notes for Sta 370+61 were revised.

Sheet B39, B41 & B43: Chain Link Fence & Chain Link Fence Install Notes were added.

Sheet B78: CURB & GUTTER LAYOUT was revised for the entrance at 375+42 Lt.

Sheet B146a – B146c: Standard Plates 620.21, 621.01, 621.03, 621.04, 621.10 were added.

Sheet C2: SEQUENCE OF OPERATIONS note for Phase 2 was revised.

Sheet C4: PORTABLE TEMPORARY CONTROL SIGNAL note was revised.

Sheet X104 – X107: Entrance at 375+42 Lt changed from 24' to 32' and storm sewer and drop inlet were revised.

Sheet Z2: Slipline changed from 48" RC Pipe in place to 54" CM Pipe and install notes were revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Travis Dressen, Mitchell Region Engineer
Harry Johnston, Sioux Falls Area Engineer

REV 11/14/24

INDEX OF SPECIAL PROVISIONS

PROJECT NUMBER(S): NH-CR 0034(193)402 PCN: 0609

TYPE OF WORK: GRADING, PCC SURFACING, CURB & GUTTER, SIDEWALK, LIGHTING

COUNTY: MOODY

The following clauses have been prepared subsequent to the Standard Specifications for Roads and Bridges and refer only to the above described improvement, for which the following Proposal is made.

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

Jim Baltzer is the official in charge of the Madison Career Center for Moody County.

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Special Provision for Contract Time, dated 9/30/24.

Special Provision for Prosecution and Progress, dated 1/21/21.

Special Provision for On-The-Job Training Program, dated 3/10/16.

Special Provision Regarding Combination Bids, dated 10/3/24.

Special Provision Regarding Restricted Work at Drainage Crossings or Wetlands, dated 10/21/24.

Special Provision for Contractor Furnished Mix Design for PCC Pavement, dated 8/30/18.

Special Provision for Pavement Smoothness with 0.2" Blanking Band, dated 11/30/18.

Special Provision for Contractor Staking with Machine Control Grading Option, dated 9/30/24.

List of Utilities.

Special Provision for Steel Beam Guardrail AASHTO M 180 Designation, date 10/8/24.
Special Provision for Acknowledgment and Certification Regarding Article 3, Section 12 of the South Dakota Constitution, dated 8/24/23.
Special Provision for Buy America, dated 5/1/24.
Special Provision for Liability Insurance, dated 4/21/22.

Special Provision for Responsibility for Damage Claims, dated 4/21/22.
Special Provision for Restriction of Boycott of Israel, dated 1/31/20.
Special Provision for Contractor Administered Preconstruction Meeting, dated 12/18/19.
Fuel Adjustment Affidavit, DOT form 208 dated 7/15.
Standard Title VI Assurance, dated 3/1/16.
Special Provision For Disadvantaged Business Enterprise, dated 2/9/24.
Special Provision For EEO Affirmative Action Requirements on Federal and Federal-Aid Construction Contracts, dated 2/5/24.
Special Provision For Required Contract Provisions Federal-Aid Construction Contracts, Form FHWA 1273 (Rev. October 23, 2023), dated 10/18/23.
Required Contract Provisions Federal-Aid Construction Contracts, Form FHWA 1273 (Rev. 10/23/23).
Special Provision Regarding Minimum Wage on Federal-Aid Projects, dated 10/24/19.
Wage and Hour Division US Department of Labor Washington DC. - US Dept. of Labor Decision Number SD20230032, dated 3/10/23.
Special Provision for Supplemental Specifications to 2015 Standard Specifications for Roads and Bridges, dated 9/7/22.
Special Provision for Price Schedule for Miscellaneous Items, dated 12/6/23.

Special Provision Regarding Storm Water Discharge, dated 5/8/18.
General Permit for Storm Water Discharges Associated with Construction Activities, dated 4/1/18
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/StormWaterConstruction.aspx

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	A2	A6

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

Section B – Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	135	Each
009E3225	Reestablish Public Land Survey System Corner	6	Each
009E3230	Grade Staking	5.538	Mile
009E3245	Final Cross Section Survey	1.798	Mile
009E3250	Miscellaneous Staking	1.798	Mile
009E3280	Slope Staking	1.798	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	47	Ft
110E0400	Remove Drop Inlet	21	Each
110E0600	Remove Fence	4,062	Ft
110E0605	Remove Chain Link Fence	352	Ft
110E1010	Remove Asphalt Concrete Pavement	1,812.3	SqYd
110E1100	Remove Concrete Pavement	40,200.9	SqYd
110E1130	Remove Concrete Driveway Pavement	892.6	SqYd
110E1140	Remove Concrete Sidewalk	4.7	SqYd
120E0010	Unclassified Excavation	79,475	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E1000	Muck Excavation	1,654	CuYd
120E2000	Undercutting	19,225	CuYd
120E6100	Water for Embankment	515.6	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	247.0	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	18,802.6	Ton
380E3520	6" PCC Approach Pavement	983.3	SqYd
380E3540	8" PCC Approach Pavement	339.8	SqYd
380E4050	8" PCC Fillet Section	356.6	SqYd
421E0100	Pipe Culvert Undercut	131	CuYd
450E0122	18" RCP Class 2, Furnish	4,436	Ft
450E0130	18" RCP, Install	4,436	Ft
450E0142	24" RCP Class 2, Furnish	512	Ft
450E0150	24" RCP, Install	512	Ft
450E0162	30" RCP Class 2, Furnish	618	Ft
450E0170	30" RCP, Install	618	Ft
450E0182	36" RCP Class 2, Furnish	50	Ft
450E0190	36" RCP, Install	50	Ft
450E0192	42" RCP Class 2, Furnish	164	Ft
450E0200	42" RCP, Install	164	Ft
450E2008	18" RCP Flared End, Furnish	3	Each
450E2009	18" RCP Flared End, Install	3	Each

Section B – Grading, Continued

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E2028	36" RCP Flared End, Furnish	1	Each
450E2029	36" RCP Flared End, Install	1	Each
450E2032	42" RCP Flared End, Furnish	4	Each
450E2033	42" RCP Flared End, Install	4	Each
450E2200	24" RCP Sloped End, Furnish	2	Each
450E2201	24" RCP Sloped End, Install	2	Each
450E3012	24" RCP Arch Class 2, Furnish	492	Ft
450E3020	24" RCP Arch, Install	492	Ft
450E3022	30" RCP Arch Class 2, Furnish	666	Ft
450E3030	30" RCP Arch, Install	666	Ft
450E3032	36" RCP Arch Class 2, Furnish	142	Ft
450E3040	36" RCP Arch, Install	142	Ft
450E4512	36" RCP Arch Flared End, Furnish	2	Each
450E4513	36" RCP Arch Flared End, Install	2	Each
450E4600	24" RCP Arch Sloped End, Furnish	3	Each
450E4601	24" RCP Arch Sloped End, Install	3	Each
450E4604	30" RCP Arch Sloped End, Furnish	7	Each
450E4605	30" RCP Arch Sloped End, Install	7	Each
450E4606	36" RCP Arch Sloped End, Furnish	2	Each
450E4607	36" RCP Arch Sloped End, Install	2	Each
450E4759	18" CMP 16 Gauge, Furnish	530	Ft
450E4760	18" CMP, Install	530	Ft
450E4789	36" CMP 16 Gauge, Furnish	56	Ft
450E4790	36" CMP, Install	56	Ft
450E4819	54" CMP 16 Gauge, Furnish	32	Ft
450E4820	54" CMP, Install	32	Ft
450E5025	36" CMP Elbow, Furnish	2	Each
450E5026	36" CMP Elbow, Install	2	Each
450E5235	54" CMP Flared End, Furnish	4	Each
450E5236	54" CMP Flared End, Install	4	Each
450E5318	36" CMP Sloped End, Furnish	2	Each
450E5319	36" CMP Sloped End, Install	2	Each
450E5406	18" CMP Safety End, Furnish	16	Each
450E5407	18" CMP Safety End, Install	16	Each
450E5509	18" CMP Arch 16 Gauge, Furnish	54	Ft
450E5510	18" CMP Arch, Install	54	Ft
450E6006	18" CMP Arch Safety End, Furnish	2	Each
450E6007	18" CMP Arch Safety End, Install	2	Each
450E8910	Cleanout for Culvert Treatment	2	Each
450E9234	Slipline 54" Pipe	316	Ft
462E0100	Class M6 Concrete	153.2	CuYd
462E0250	Cellular Grout	78.6	CuYd
464E0100	Controlled Density Fill	3.9	CuYd

INDEX OF SHEETS

Section B – Grading, Continued

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
480E0100	Reinforcing Steel	27,607	Lb
600E0300	Type III Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	2,587	Ft
620E0040	Type 4 Right-of-Way Fence	1,033	Ft
620E0060	Type 6 Right-of-Way Fence	489	Ft
620E1020	2 Post Panel	25	Each
620E1030	3 Post Panel	10	Each
620E2016	16' Tubular Gate	2	Each
621E0050	5' Chain Link Fence with Top Rail	325	Ft
621E0430	Double Vehicular Swing Gate	1	Each
621E0600	Chain Link Fence Post	39	Each
650E0079	Modified Type B68 Concrete Curb and Gutter	2,631	Ft
650E0080	Type B68 Concrete Curb and Gutter	5,134	Ft
650E1079	Modified Type F68 Concrete Curb and Gutter	2,849	Ft
650E1080	Type F68 Concrete Curb and Gutter	303	Ft
650E3060	Type B6 Concrete Curb	19	Ft
650E4679	Modified Type P8 Concrete Gutter	320	Ft
650E4680	Type P8 Concrete Gutter	484	Ft
650E6080	8" Concrete Valley Gutter	48	Ft
651E0040	4" Concrete Sidewalk	19,335	SqFt
651E0060	6" Concrete Sidewalk	27,793	SqFt
651E0160	6" Reinforced Concrete Sidewalk	168	SqFt
651E0540	4" Colored Concrete Sidewalk	6,889	SqFt
651E0560	6" Colored Concrete Sidewalk	303	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	30	SqFt
651E7000	Type 1 Detectable Warnings	550	SqFt
670E1200	Type B Frame and Grate	70	Each
670E2200	Type C Frame and Grate	9	Each
670E3300	Type E Frame and Grate	1	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	7	Each
670E5400	Precast Drop Inlet Collar	71	Each
671E4548	48" Manhole Cone Section	4.0	Ft
671E6007	Type A7 Manhole Frame and Lid	2	Each
720E1015	Bank and Channel Protection Gabion	24.0	CuYd
831E0110	Type B Drainage Fabric	68	SqYd
831E0300	Reinforcement Fabric (MSE)	1,800	SqYd
900E0010	Refurbish Single Mailbox	4	Each

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	A3	A6

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

Section C – Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	500.0	Hour
634E0020	Pilot Car	250.0	Hour
634E0110	Traffic Control Signs	1,244.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	60	Each
634E0380	Tubular Marker	210	Each
634E0390	Replace Tubular Marker	50	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	3,500	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	432	Ft
634E0640	Temporary Pavement Marking	22,364	Ft
634E0900	Portable Temporary Traffic Control Signal	2	Unit
634E0919	Driveway Assistance Device	10.0	Mth
634E1002	Detour and Restriction Signing	563.0	SqFt
634E1020	Temporary Business Signing	50.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	4	Each

Section D – Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	22.3	CuYd
110E1700	Remove Silt Fence	1,661	Ft
230E0010	Placing Topsoil	6,691	CuYd
730E0100	Cover Crop Seeding	10.0	Bu
730E0206	Type D Permanent Seed Mixture	586	Lb
730E0212	Type G Permanent Seed Mixture	274	Lb
731E0200	Fertilizing	6.70	Ton
732E0100	Mulching	21.0	Ton
732E0500	Fiber Reinforced Matrix	5.2	Ton
734E0103	Type 3 Erosion Control Blanket	250	SqYd
734E0180	Sediment Filter Bag	2,780	Ft
734E0185	Remove and Reset Sediment Filter Bag	695	Ft
734E0325	Surface Roughening	1.5	Acre
734E0602	Low Flow Silt Fence	3,022	Ft
734E0604	High Flow Silt Fence	3,622	Ft
734E0610	Mucking Silt Fence	461	CuYd
734E0620	Repair Silt Fence	1,661	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	82	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	91	Ft
734E5005	Dewatering	Lump Sum	LS
900E1320	Construction Entrance	2	Each

Section F – Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E6200	Water for Granular Material	539.3	MGal
260E1010	Base Course	25,740.4	Ton
260E1030	Base Course, Salvaged	18,802.6	Ton
260E2010	Gravel Cushion	443.2	Ton
260E6000	Granular Material, Furnish	45.0	Ton
320E1200	Asphalt Concrete Composite	2,772.5	Ton
320E5020	Saw Joint in Asphalt Concrete	301	Ft
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	0.2	Mile
380E0050	8" Nonreinforced PCC Pavement	43,369.2	SqYd
380E3040	8" PCC Driveway Pavement	138.1	SqYd
380E6000	Dowel Bar	25,869	Each
380E6110	Insert Steel Bar in PCC Pavement	92	Each
380E6450	Saw Joint in PCC Pavement	15,363.7	Ft
380E6548	Grind Sinusoidal Centerline Rumble Stripe in PCC Pavement	0.3	Mile

Section L – Signal and Lighting

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1540	Remove Luminaire Pole Footing	30	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	6	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	36	Each
635E5025	2.5' Diameter Footing	291.0	Ft
635E5301	Type 1 Electrical Junction Box	3	Each
635E5302	Type 2 Electrical Junction Box	4	Each
635E5400	Electrical Service Cabinet	3	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS
635E7500	Remove and Reset Luminaire Pole	30	Each
635E8110	1" Rigid Conduit, Schedule 40	45	Ft
635E8120	2" Rigid Conduit, Schedule 40	6,600	Ft
635E8210	1" Rigid Conduit, Schedule 80	60	Ft
635E8220	2" Rigid Conduit, Schedule 80	335	Ft
635E8620	2" Conduit, SDR 13.5	450	Ft
635E9011	1/C #1 AWG Copper Wire	3,580	Ft
635E9012	1/C #2 AWG Copper Wire	9,330	Ft
635E9013	1/C #3 AWG Copper Wire	3,785	Ft
635E9014	1/C #4 AWG Copper Wire	3,730	Ft
635E9016	1/C #6 AWG Copper Wire	6,060	Ft
635E9018	1/C #8 AWG Copper Wire	1,440	Ft
635E9020	1/C #10 AWG Copper Wire	5,450	Ft
635E9024	1/C #14 AWG Copper Wire	3,600	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	2,520	Ft

Section M – Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	36,130	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	336	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	34	Each
633E0225	Preformed Thermoplastic Pavement Marking, 24"	168	Ft
633E0230	Preformed Thermoplastic Pavement Marking, Area	180	SqFt
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	36,130	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	504	Ft
633E5020	Grooving for Cold Applied Plastic Pavement Marking, Area	180	SqFt
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	34	Each

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	51	Each
110E7150	Remove Sign for Reset	3	Each
632E1320	2.0"x2.0" Perforated Tube Post	406.8	Ft
632E1340	2.5"x2.5" Perforated Tube Post	185.5	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	277.8	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	268.3	SqFt
632E3500	Reset Sign	3	Each
632E3700	Radar Speed Sign	2	Each

SPECIFICATIONS

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

SECTION B ESTIMATE OF QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B2	B149

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	135	Each
009E3225	Reestablish Public Land Survey System Corner	6	Each
009E3230	Grade Staking	5.538	Mile
009E3245	Final Cross Section Survey	1.798	Mile
009E3250	Miscellaneous Staking	1.798	Mile
009E3280	Slope Staking	1.798	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	47	Ft
110E0400	Remove Drop Inlet	21	Each
110E0600	Remove Fence	4,062	Ft
110E0605	Remove Chain Link Fence	352	Ft
110E1010	Remove Asphalt Concrete Pavement	1,812.3	SqYd
110E1100	Remove Concrete Pavement	40,200.9	SqYd
110E1130	Remove Concrete Driveway Pavement	892.6	SqYd
110E1140	Remove Concrete Sidewalk	4.7	SqYd
120E0010	Unclassified Excavation	79,475	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E1000	Muck Excavation	1,654	CuYd
120E2000	Undercutting	19,225	CuYd
120E6100	Water for Embankment	515.6	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	247.0	Ton
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	18,802.6	Ton
380E3520	6" PCC Approach Pavement	983.3	SqYd
380E3540	8" PCC Approach Pavement	339.8	SqYd
380E4050	8" PCC Fillet Section	356.6	SqYd
421E0100	Pipe Culvert Undercut	131	CuYd
450E0122	18" RCP Class 2, Furnish	4,436	Ft
450E0130	18" RCP, Install	4,436	Ft
450E0142	24" RCP Class 2, Furnish	512	Ft
450E0150	24" RCP, Install	512	Ft
450E0162	30" RCP Class 2, Furnish	618	Ft
450E0170	30" RCP, Install	618	Ft
450E0182	36" RCP Class 2, Furnish	50	Ft
450E0190	36" RCP, Install	50	Ft
450E0192	42" RCP Class 2, Furnish	164	Ft
450E0200	42" RCP, Install	164	Ft
450E2008	18" RCP Flared End, Furnish	3	Each
450E2009	18" RCP Flared End, Install	3	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E2028	36" RCP Flared End, Furnish	1	Each
450E2029	36" RCP Flared End, Install	1	Each
450E2032	42" RCP Flared End, Furnish	4	Each
450E2033	42" RCP Flared End, Install	4	Each
450E2200	24" RCP Sloped End, Furnish	2	Each
450E2201	24" RCP Sloped End, Install	2	Each
450E3012	24" RCP Arch Class 2, Furnish	492	Ft
450E3020	24" RCP Arch, Install	492	Ft
450E3022	30" RCP Arch Class 2, Furnish	666	Ft
450E3030	30" RCP Arch, Install	666	Ft
450E3032	36" RCP Arch Class 2, Furnish	142	Ft
450E3040	36" RCP Arch, Install	142	Ft
450E4512	36" RCP Arch Flared End, Furnish	2	Each
450E4513	36" RCP Arch Flared End, Install	2	Each
450E4600	24" RCP Arch Sloped End, Furnish	3	Each
450E4601	24" RCP Arch Sloped End, Install	3	Each
450E4604	30" RCP Arch Sloped End, Furnish	7	Each
450E4605	30" RCP Arch Sloped End, Install	7	Each
450E4606	36" RCP Arch Sloped End, Furnish	2	Each
450E4607	36" RCP Arch Sloped End, Install	2	Each
450E4759	18" CMP 16 Gauge, Furnish	530	Ft
450E4760	18" CMP, Install	530	Ft
450E4789	36" CMP 16 Gauge, Furnish	56	Ft
450E4790	36" CMP, Install	56	Ft
450E4819	54" CMP 16 Gauge, Furnish	32	Ft
450E4820	54" CMP, Install	32	Ft
450E5025	36" CMP Elbow, Furnish	2	Each
450E5026	36" CMP Elbow, Install	2	Each
450E5235	54" CMP Flared End, Furnish	4	Each
450E5236	54" CMP Flared End, Install	4	Each
450E5318	36" CMP Sloped End, Furnish	2	Each
450E5319	36" CMP Sloped End, Install	2	Each
450E5406	18" CMP Safety End, Furnish	16	Each
450E5407	18" CMP Safety End, Install	16	Each
450E5509	18" CMP Arch 16 Gauge, Furnish	54	Ft
450E5510	18" CMP Arch, Install	54	Ft
450E6006	18" CMP Arch Safety End, Furnish	2	Each
450E6007	18" CMP Arch Safety End, Install	2	Each
450E8910	Cleanout for Culvert Treatment	2	Each
450E9234	Slipline 54" Pipe	316	Ft
462E0100	Class M6 Concrete	153.2	CuYd
462E0250	Cellular Grout	78.6	CuYd
464E0100	Controlled Density Fill	3.9	CuYd

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
480E0100	Reinforcing Steel	27,607	Lb
600E0300	Type III Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	2,587	Ft
620E0040	Type 4 Right-of-Way Fence	1,033	Ft
620E0060	Type 6 Right-of-Way Fence	489	Ft
620E1020	2 Post Panel	25	Each
620E1030	3 Post Panel	10	Each
620E2016	16' Tubular Gate	2	Each
621E0050	5' Chain Link Fence with Top Rail	325	Ft
621E0430	Double Vehicular Swing Gate	1	Each
621E0600	Chain Link Fence Post	39	Each
650E0079	Modified Type B68 Concrete Curb and Gutter	2,631	Ft
650E0080	Type B68 Concrete Curb and Gutter	5,134	Ft
650E1079	Modified Type F68 Concrete Curb and Gutter	2,849	Ft
650E1080	Type F68 Concrete Curb and Gutter	303	Ft
650E3060	Type B6 Concrete Curb	19	Ft
650E4679	Modified Type P8 Concrete Gutter	320	Ft
650E4680	Type P8 Concrete Gutter	484	Ft
650E6080	8" Concrete Valley Gutter	48	Ft
651E0040	4" Concrete Sidewalk	19,335	SqFt
651E0060	6" Concrete Sidewalk	27,793	SqFt
651E0160	6" Reinforced Concrete Sidewalk	168	SqFt
651E0540	4" Colored Concrete Sidewalk	6,889	SqFt
651E0560	6" Colored Concrete Sidewalk	303	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	30	SqFt
651E7000	Type 1 Detectable Warnings	550	SqFt
670E1200	Type B Frame and Grate	70	Each
670E2200	Type C Frame and Grate	9	Each
670E3300	Type E Frame and Grate	1	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	7	Each
670E5400	Precast Drop Inlet Collar	71	Each
671E4548	48" Manhole Cone Section	4.0	Ft
671E6007	Type A7 Manhole Frame and Lid	2	Each
720E1015	Bank and Channel Protection Gabion	24.0	CuYd
831E0110	Type B Drainage Fabric	68	SqYd
831E0300	Reinforcement Fabric (MSE)	1,800	SqYd
900E0010	Refurbish Single Mailbox	4	Each

STORM SEWER

Reinforced concrete pipe may be bell and spigot. The pipe sections will be adjoined such that the ends are fully entered, and the inner surfaces are reasonably flush and even.

Lift holes in the reinforced concrete pipe will be plugged with grout.

Watertight joints are required for reinforced concrete pipe, drop inlets, manholes, and junction boxes where storm sewers run parallel to and within 10 feet horizontally from existing or proposed water mains.

Watertight joints are required where reinforced concrete pipes, drop inlets, manholes, or junction boxes cross water mains and are separated a distance of 18 inches or less, above or below, the water main.

If watertight joints are required then the watertight joints will extend for a distance of 10 feet beyond the water main. This measurement will be from the sealed concrete joint to the outer most surface of the water main.

Watertight joint seals will conform to the following requirements:

1. Reinforced Concrete Pipe (Circular): Gasketed pipe will conform to the requirements of ASTM C443 and the gasket will be in conformance with Section 990 of the Specifications. Non-gasketed concrete pipe will be sealed with a mastic joint seal conforming to the requirements of ASTM C990 and encased with a minimum 2-foot wide by 6-inch thick M6 concrete collar reinforced with 6x6 W2.9 x W2.9 wire mesh.

2. Reinforced Concrete Pipe (Arch): Gasketed pipe will conform to the requirements of ASTM C443 and the gasket will be in conformance with Section 990 of the Specifications. Non-gasketed concrete pipe joints will be sealed with a hydrophilic flexible water stop seal and wrapped with a 1-foot wide strip of fabric above the cradle. The fabric will conform to the requirements of Section 831 of the Specifications for Type A Drainage Fabric. The hydrophilic flexible water stop will be from the list below.

3. Drop Inlets, Manholes, and Junction Boxes: Joints will be sealed with one of the following methods:

   A. A flexible strip seal placed in the joints conforming to the requirements of ASTM C990 and the perimeter encased with a minimum 2-foot wide by 6-inch thick M6 concrete collar reinforced with 6x6 W2.9 x W2.9 wire mesh.

   B. A hydrophilic flexible water stop seal placed in the joints and a 1-foot wide strip of fabric wrapped around the perimeter of the pipe. The fabric will conform to the requirements of Section 831 of the Specifications for Type A Drainage Fabric. The hydrophilic flexible water stop will be from the list below.

   C. A self-adhesive external joint seal wrap. The seal wrap will be from the list below.

Approved List of Self-adhesive Joint Wrap

Product	Manufacturer
Mar Mac Seal Wrap	Mar Mac Construction Products McBee, SC 843-335-5909 www.marmac.com
ConWrap CS-212	Concrete Sealants, Inc. Tipp City, OH 800-332-7325 http://www.conseal.com

Approved List of Hydrophilic Flexible Water Stop Seal:

Product	Manufacturer
Waterstop RX	Cetco Hoffman Estates, IL 800-527-9948 www.cetco.com
Conseal CS-231	Concrete Sealants, Inc. Tipp City, OH 800-332-7325 http://www.conseal.com

Gaskets and seals (mastic, waterstop, and seal wraps) will be installed in accordance with the Manufacturer's recommendations.

The cost for furnishing and installing all gaskets, mastic joint seal, water stop seal, seal wrap, concrete collars, and for plugging the lift holes will be incidental to the contract unit price per foot for the corresponding pipe contract item.

ADJUSTEMENT OF MANHOLES

The Contractor will adjust manholes to the extent necessary on this project. Adjusting the manholes may consist of removing the upper course of brick or removing the concrete walls, replacing the removed materials with brick or Class M6 concrete, placing adjusting rings if necessary, and resetting the manhole frame and lid. The elevation of the lid will be set at the same elevation of the adjacent new pavement or surrounding ground. All manhole frames, lids, and rings that are cracked or broken due to carelessness of the Contractor will be replaced with new manhole frames, lids, and rings that conform with the Specifications at the Contractor's expense. Manholes will be adjusted to the satisfaction of the Engineer.

See City of Colman project PCN X06M (City Project Number 21005951 for a table of adjust manholes. See bid item for adjust manhole in City of Colman plans (PCN X06M).

TABLE OF CLASS M6 CONCRETE & REINFORCING STEEL

Item	Class M6 Concrete (CuYd)	Reinforcing Steel (Lb)
Drop Inlets	146.4	26,170
Junction Boxes	6.8	1,437
Totals:	153.2	27,607

COLORED CONCRETE FOR SIDEWALK BOULEVARDS

The colored concrete will have the integral color Solomon Brick Red #417 or an equal approved by the Engineer.

ColorFlo Liquid Color
Color #417 Brick Red
Solomon Colors, Inc.
www.solomoncolors.com

Brick Red requires a rate of 12.50 pounds of Solomon ColorFlo #417 Red per cubic yard of concrete. The colored concrete must be cured according to the manufacturer's recommendations with two coats of a non-yellowing acrylic curing and sealing compound. The curing and sealing compound will meet ASTM C309. The curing and sealing product will be DECRA-SEAL or an equal approved by the Engineer.

DECRA-SEAL
W.R. Meadows, Inc.
1-800-342-5976
www.wrmeadows.com

White pigmented cure will not be used. The Contractor will protect the colored concrete to ensure white pigmented curing compound will not come in contact with the colored concrete. All costs for furnishing, handling, applying the curing and sealing compound, and liquid integral color, including the materials, equipment, labor, and incidentals necessary will be incidental to the contract unit price for "4" or 6" Colored Concrete Sidewalk" or "4" Colored Reinforced Concrete Sidewalk.

TABLE OF PVC COATED BANK AND CHANNEL PROTECTION GABIONS AND DRAINAGE FABRIC

Station	L/R	Bank and Channel Protection Gabion (CuYd)	Type B Drainage Fabric (SqYd)
370+26	89' R	12.0	34
370+47	89' R	12.0	34
	Totals:	24.0	68

8" PCC FILLET SECTIONS

Payment for "8" PCC Fillet Section" will be based on plans quantity. If additions or reductions to the area of PCC fillet sections are ordered by the Engineer, payment will be made in accordance with the contract unit price per square yard for "8" PCC Fillet Section".

PIPE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B15	B149

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

NH-CR 0034(193)403 PCN 0609	Reinforced Concrete								RCP Ends Circular				RCP Ends Arch				Slipline Pipe	Corrugated Metal				CMP Elbow	CMP Ends Arch	CMP Ends Circular			Cleanout for Culvert Treatment
	Circular					Arch			Flared			Sloped	Sloped			Flared	Circular	Circular			Arch	Circular	Safety	Safety	Sloped	Flared	
	18" Cl.2	24" Cl.2	30" Cl.2	36" Cl.2	42" Cl.2	24" Cl.2	30" Cl.2	36" Cl.2	36"	42"	18"	24"	24"	30"	36"	36"	54"	18" 16 Ga	36" 16 Ga	54" 16 Ga	18" 16 Ga	36" 50°	18"	18"	36"	54"	
Station Offset (L/R)	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each
370+61																	316			32						4	1
371+77.47-59.00' R to 372+54.56-59.00' R		76										1															
372+54.56-59.00' R to 372+79.44-59.00' R		24										1															
372+54.56-59.00' R to 372+89.16-22.67' R	50																										
372+89.16-22.67' R to 375+92.47-22.67' R	300																										
374+89.99-67.85' L to 375+57.64-66.39' L	66										1																
375+57.64-66.39' L to 375+98.00-68.70' L	40										1																
375+92.47-22.67' R to 375+92.47-22.67' L	44																										
*379+09.82-60.57' L to 380+05.76-39.65' L	96										1																
379+40.01-22.10' R to 381+63.77-21.17' R	222																										
380+05.76-39.65' L to 380+27.19-47.01' L	20																										
381+63.77-35.95' L to 381+63.77-47.34' L	8																										
381+63.77-35.95' L to 381+63.77-21.17' L	12																										
381+63.77-21.17' L to 381+63.77-21.17' R						40																					
381+63.77-21.17' R to 381+63.77-47.17' R						20							1														
381+63.77-21.17' R to 382+00.00-23.63' R	30																										
381+63.77-21.17' L to 382+00.00-23.63' L	30																										
382+00.00-23.63' L to 382+43.23-21.17' L	36																										
382+00.00-23.63' R to 382+43.23-21.17' R	36																										
382+43.23-21.17' R to 384+17.01-21.17' R	172																										
384+17.01-21.17' R to 384+17.01-18.17' L	38																										
384+17.01-18.17' L to 384+19.69-37.52' L	18																										
385+44.83-21.17' R to 385+44.83-46.75' R						20							1														
385+44.83-18.17' L to 385+44.83-21.17' R						36																					
385+44.83-34.52' L to 385+44.83-18.17' L	14																										
*385+44.83-21.17' R to 387+54.97-21.17' R	208																										
387+54.97-18.17' L to 387+54.97-21.17' R	38																										
*387+54.97-21.17' R to 389+53.45-21.17' R	196																										
389+53.45-18.17' L to 389+53.45-21.17' R	38																										
393+21-58' R																		80						2			
393+77.56-21.17' R to 393+77.56-47.11' R							18							1													
393+77.56-18.17' L to 393+77.56-21.17' R							36																				
393+77.56-46.28' L to 393+77.56-18.17' L							20							1													
393+77.56-21.17' R to 394+12.61-21.17' R						30																					
393+77.56-18.17' L to 394+12.61-18.17' L						30																					
394+12.61-18.17' L to 394+50.00-20.63' L	30																										
394+12.61-21.17' R to 394+50.00-23.62' R	30																										
394+50.00-20.63' L to 394+87.39-18.17' L	30																										
394+50.00-23.63' R to 394+87.39-21.17' R	30																										
396+31.14-52.67' R to 396+90.50-21.17' R						66							1														
396+53-63' R																		34						2			
396+90.50-18.17' L to 396+90.50-21.17' R	36																										
396+90.50-21.17' R to 398+12.57-21.10' R						112																					
398+05.54-18.17' L to 398+05.54-21.17' R						36																					
398+12.57-45.92' L to 398+05.54-18.17' L						26																					
*398+05.54-21.10' R to 399+39.43-21.23' R	130																										
398+26-52' R																		66						2			
Subtotal:	1998	100				416	74				3	2	3	2			316	180		32				6		4	1

Pipes denoted with an asterisk(*) indicate that the entire length or a portion of the pipe requries watertight joints in accordance with the STORM SEWER plan note.

Plot Scale - 1:200

Plotted From - TRSF12144

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PIPE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B16	B149

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

NH-CR 0034(193)403 PCN 0609	Reinforced Concrete								RCP Ends Circular				RCP Ends Arch				Slipline Pipe	Corrugated Metal				CMP Elbow	CMP Ends Arch	CMP Ends Circular			Cleanout for Culvert Treatment
	Circular					Arch			Flared			Sloped	Sloped			Flared	Circular	Circular			Arch	Circular	Safety	Safety	Sloped	Flared	
	18" Cl.2	24" Cl.2	30" Cl.2	36" Cl. 2	42" Cl.2	24" Cl.2	30" Cl.2	36" Cl.2	36"	42"	18"	24"	24"	30"	36"	36"	54"	18" 16 Ga	36" 16 Ga	54" 16 Ga	18" 16 Ga	36" 50°	18"	18"	36"	54"	
Station Offset (L/R)	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each
399+39.43-18.17' L to 399+39.43-21.23' R	38																										
399+39.43-21.17' R to 400+40.33-18.17' R	98																										
400+40.33-18.17' L to 400+40.33-18.17' R	36																										
402+52.50-18.17' L to 402+52.50-18.17' R	36																										
*402+52.50-18.17' R to 404+15.90-18.17' R	160																										
*403+37.25-48.51' L to 404+05.94-40.52' L							68							1													
404+05.94-40.52' L to 404+15.90-18.17' L			20																								
404+15.90-18.17' L to 404+15.90-18.17' R			32																								
404+15.90-18.17' R to 404+15.90-42.88' R	20																										
404+15.90-18.17' R to 405+50.44-18.17' R			130																								
405+50.44-18.17' L to 405+50.44-18.17' R	34																										
405+50.44-18.17' R to 407+03.67-18.17' R			150																								
407+03.67-18.17' L to 407+03.67-18.17' R	32																										
*407+03.67-18.17' L to 407+39.33-50.75' L	48																										
407+03.67-18.17' R to 408+17.16-18.17' R			108																								
*407+82.67-50.75' L to 408+17.16-18.17' L	48																										
408+17.16-18.17' L to 408+17.16-18.17' R	32																										
*408+17.16-18.17' R to 409+99.68-18.17' R			178																								
409+99.68-18.17' R to 409+99.68-51.07' R				22					1																		
409+99.68-18.17' L to 409+99.68-18.17' R		34																									
409+99.68-18.17' L to 409+99.68-37.68' L	18																										
*411+36.33-49.19' L to 411+67.67-49.19' L						30																					
*411+67.67-49.19' L to 412+07.91-20.63' L						46																					
411+67.00-18.17' R to 412+07.91-20.63' R	34																										
412+07.91-47.52' L to 412+07.91-20.63' L								16								1											
412+07.91-20.63' L to 412+07.91-20.63' R								36																			
412+07.91-20.63' R to 412+07.91-49.29' R								18							1												
412+46.99-47.15' L to 412+46.99-18.17' L								20								1											
412+46.99-18.17' L to 412+46.99-18.17' R								32																			
412+46.99-18.17' R to 412+46.99-49.20' R								20							1												
412+46.99-18.17' R to 415+79.54-18.17' R							328																				
415+62.54-41.68' R to 415+79.54-18.17' R	26																										
415+79.54-18.17' L to 415+79.54-18.17' R	34																										
415+79.54-18.17' R to 418+02.29-18.17' R	220																										
418+02.29-18.17' L to 418+02.29-18.17' R	34																										
422+11.62-22.67' L to 422+11.62-22.67' R	44																										
422+11.62-22.67' R to 423+84.96-22.67' R	170																										
422+48-55' R																				54		2					
423+84.96-22.67' R to 425+48.05-22.67' R	160																										
424+25-55' R																		66						2			
424+28-59' L																		76						2			
425+48.05-22.67' R to 427+67.08-22.67' R	214																										
426+14-55' R																		60						2			
427+67.08-22.66' R to 430+45.00-22.67' R		274																									
428+24-63' R																		80						2			
428+43-100' R to 428+75-85' R																			56			2			2		
Subtotal:	1536	308	618	22		76	396	142	1					1	2	2		282	56		54	2	2	8	2		

Pipes denoted with an asterisk(*) indicate that the entire length or a portion of the pipe requries watertight joints in accordance with the STORM SEWER plan note.

Plot Scale - 1:200

Plotted From - TRSF12144

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PIPE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B17	B149

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

NH-CR 0034(193)403 PCN 0609	Reinforced Concrete								RCP Ends Circular				RCP Ends Arch				Slipline Pipe	Corrugated Metal				CMP Elbow	CMP Ends Arch	CMP Ends Circular			Cleanout for Culvert Treatment
	Circular					Arch			Flared			Sloped	Sloped			Flared	Circular	Circular			Arch	Circular	Safety	Safety	Sloped	Flared	
	18"	24"	30"	36"	42"	24"	30"	36"	36"	42"	18"	24"	24"	30"	36"	36"	54"	18"	36"	54"	18"	36"	18"	18"	36"	54"	
	Cl.2	Cl.2	Cl.2	Cl. 2	Cl.2	Cl.2	Cl.2	Cl.2										16 Ga	16 Ga	16 Ga	16 Ga	50°					
Station Offset (L/R)	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each	Each	Each	Ft	Ft	Ft	Ft	Ft	Each	Each	Each	Each	Each	Each
430+45.00-53.16' R to 430+45.00-22.67' R					22					1																	
430+45.00-22.67' R to 430+45.00-47.08' L					62					1																	
430+80.00-53.99' R to 430+80.00-25.13' R					18					1																	
430+80.00-25.13' R to 430+80.00-48.17' L					62					1																	
430+80.00-25.13' R to 431+14.83-24.13' R				28																							
431+14.83-24.13' R to 432+21.82-34.67' R		104																									
432+21.82-34.67' R to 433+41.67-34.67' R	116																										
433+56.63-63.00' R to 433+72.91-62.69' R							14							1													
433+72.91-62.69' R to 433+74.91-79.89' R							14																				
433+72.91-62.69' R to 434+36.22-63.00' R							60							1													
433+41.67-34.67' R to 434+50.10-22.67' R	106																										
434+50.10-22.67' R to 436+09.88-22.67' R	156																										
436+09.88-22.67' R to 438+20.20-22.67' R	206																										
438+20.20-22.67' R to 439+49.67-34.67' R	128																										
439+49.67-34.67' R to 441+42.18-34.67' R	190																										
441+42.18-62.88' R to 441+79.71-62.88' R							36							1													
441+79.71-62.88' R to 442+42.76-62.88' R							60							1													
441+79.71-62.88' R to 441+82.147-76.85' R							12																				
447+20-55' L																		88						2			
Subtotal:	902	104		28	164		196			4				4				88						2			
Total:	4436	512	618	50	164	492	666	142	1	4	3	2	3	7	2	2	316	530	56	32	54	2	2	16	2	4	1

Pipes denoted with an asterisk(*) indicate that the entire length or a portion of the pipe requries watertight joints in accordance with the STORM SEWER plan note.

Plot Scale - 1:200

Plotted From - TRSF12144

File - ...\rd\prlmody0609\TablePipe.dgn

FENCE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B18	B149

Plotting Date: 11/05/2024

Station to Station		Side (L/R)	Right-of-Way Fence: Type 2 (Ft)	Type 4 (Ft)	Type 6 (Ft)	5' Chain Link Fence with Top Rail & 3-Strand Barbed Wire Top (Ft)	Remove Chain Link Fence (Ft)	Remove Fence (Ft)	Chain Link Fence Post (Each)	Post Panels: 2 Post Panel (Each)	3 Post Panel (Each)	Gates: 40' Double Vehicle Swing Gate (Each)	16' Tubular Gate (Each)	N.A.B.I. 30' Barbed Wire Gate (Each)	Stream Crossings: N.A.B.I. Stream Crossing (Each)
NH-CR 0034(193)403															
357+15	367+42	L	1026					1026			2				
368+07	372+24	L			489			403		10					
372+24	373+57	L						139							
383+88	384+36	L				50	50		7						1
391+00	394+02	L				275	302		32			1			
447+19	452+17	L	498					498		2	2		2	1	
357+15	367+42	R		1033				1033			2				
368+07	372+19	R	546					468		11	2				1
447+18	452+17	R	517					495		2	2				
		Total:	2587	1033	489	325	352	4062	39	25	10	1	2	1	2

Post Type and Sequence:

Right-of-way fence shall be constructed using alternate wood and steel posts except as noted.

Plot Scale - 1:200

Plotted From - TRSF12141

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PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B19	B149

Plotting Date: 11/05/2024

Station	to	Station	Fillet Section	Concrete Curb and Gutter				Concrete Curb	Concrete Gutter			PCC Approach Pavement				Concrete Sidewalk						Detectable Warning	
			PCC	Type B	Modified Type B	Type F	Modified Type F	Type B	Type P	Modified Type P	Valley	Type A		Type B				Colored		Reinforced	Reinforced Colored	Type 1	
			8"	68	68	68	68	6	8"	8"	8"	6"	8"	6"	8"	4"	6"	4"	6"	6"	4"		
			SqYd	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Sq Yd	Sq Yd	Sq Yd	SqYd	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	
Sewage Lagoon Entrance to Crummer Ave																							
375+55.97-73.89' L		379+20.28-18.00' L				72.9	329.3																
379+20.28-18.00' L		383+12.62-16.50' L	105.4	98.6	313.3	5.0		18.7															
383+12.62-16.50' L		384+95.88-16.50' L		211.1							37.1						905.5	288.7				16.0	
384+95.88-16.50' L		393+00.50-16.50' L		764.5					40.0						63.5		6020.2	2257.6					
393+00.50-16.50' L		397+54.00-16.50' L		413.2					40.0			63.5					3040.9	1103.1		168.0	30.0		
397+54.00-16.50' L		399+77.75-57.50' L		209.7					40.0					83.8			1520.1					20.0	
Cemetery Entrance to SW 3rd Street Apartments																							
372+52.89-101.75' R		377+31.00-18.00' R				100.7	443.2																
377+31.00-18.00' R		379+47.43-17.48' R					196.4			20.0				18.5									
379+47.43-17.48' R		391+15.00-16.50' R			1,127.6					40.0				28.1									
391+15.00-16.50' R		393+00.57-16.50' R			149.6					36.0		26.7											
393+00.57-16.50' R		396+43.01-16.50' R			302.7					40.0			29.4										
SW 3rd Street Apartments to Florence Avenue																							
396+43.01-16.50' R		398+13.54-16.50' R			130.5					40.0				46.2		591.9		355.6					
398+13.54-16.50' R		400+84.44-16.50' R		43.7	203.2					24.0				32		1343.0		337.5				20.0	
400+84.44-16.50' R		401+34.00-16.50' R		25.6					24.0					48		67.8							
401+34.00-16.50' R		402+78.38-69.74' R	25.9	124.2					24.0					47.9		505.1	224.7					20.0	
Crummer Avenue to Florence Avenue																							
400+05.75-57.50' L		403+54.00-47.50' L	25.9	355.2													3054.9					62.0	
Florence Avenue to Loban Avenue																							
403+10.38-69.74' R		404+48.94-16.50' R	25.9	141.2												691.5	228.9					30.0	
404+48.94-16.50' R		404+81.17-16.50' R		12.2					20.0			42.7				665.8							
404+81.17-16.50' R		406+56.34-16.50' R		145.2					30.0			56.3											
406+56.34-16.50' R		407+21.92-16.50' R		47.6					18.0			42.3				177.9							
407+21.92-16.50' R		408+32.00-16.50' R		78.1					32.0			62.0				414.9						10.0	
408+32.00-16.50' R		408+94.58-16.50' R		38.6					24.0			50.7				132.9							
408+94.58-16.50' R		415+15.00-41.50' R	25.9	577.4					24.0			50.7				3057.3	152.7					40.0	
Florence Avenue to Main Avenue																							
403+82.00-47.50' L		404+80.17-16.50' L	25.9	79.2													804.9	384.4				26.0	
404+80.17-16.50' L		407+41.00-60.15' L		257.4					32.0					67.2			1878.0	1142.2				26.0	
Main Avenue to Perry Avenue																							
407+81.00-60.15' L		408+74.92-16.50' L		122.5													803.5					26.0	
408+74.92-16.50' L		410+07.18-16.50' L		110.3					16.0					42.0			839.8		61.6				
410+07.18-16.50' L		411+38.00-54.98' L	25.9	32.6					76.0		10.5	135.1					353.1		240.9			26.0	
Perry Avenue to Loban Avenue																							
411+66.00-44.50' L		415+18.66-54.48' L	51.6	331.7													3021.2					52.0	
Subtotal:			312.4	4219.7	2,227.0	178.5	968.9	18.7	440.0	200.0	47.6	529.9	29.4	413.7	63.5	7648.1	22848.4	5869.1	302.5	168.0	30.0	374.0	

PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B20	B149

Plotting Date: 11/05/2024

Station to Station	Fillet Section	Concrete Curb and Gutter				Concrete Curb	Concrete Gutter			PCC Approach Pavement				Concrete Sidewalk						Detectable Warning	
	PCC	Type B	Modified Type B	Type F	Modified Type F	Type B	Type P	Modified Type P	Valley	Type A		Type B				Colored		Reinforced	Reinforced Colored	Type 1	
	8"	68	68	68	68	6	8"	8"	8"	6"	8"	6"	8"	4"	6"	4"	6"	6"	4"		
	SqYd	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Sq Yd	Sq Yd	Sq Yd	SqYd	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	
S Loban Ave to S Allen Ave																					
415+46.48-54.48' L 417+77.01-16.50' L	18.2	218.1													1874.9					26.0	
417+77.01-16.50' L 420+13.36-51.37' L		242.3					16.0			39.7					1772.3					20.0	
415+43.00-47.50' R 418+15.99-16.50' R	25.9	255.2												1233.4	213.7					20.0	
418+15.99-16.50' R 420+13.35-57.47' R		187.0					28.0				56.2			730.5	191.6					20.0	
S Allen Ave to Access Easement																					
420+45.28-55.48' L 422+19.11-18.00' L		6.0	192.6											809.6	186.3	338.7				20.0	
420+45.44-61.97' R 422+27.99-18.00' R		6.0	211.3											792.1	193.3					20.0	
422+27.99-18.00' R 424+05.00-18.00' R					136.9			40.0			63.5			623.8							
424+05.00-18.00' R 425+93.93-18.00' R					148.9			40.0			63.6			685.3							
425+93.93-18.00' R 428+03.58-62.00' R				6.0	192.6			40.0			63.6			705.6	103.0					10.0	
Access Easement to S Summit Ave																					
428+43.58-62.00' R 433+80.35-79.38' R				17.3	583.3									2451.6	205.8					20.0	
S Summit Ave to S Enterprise Ave																					
434+15.91-79.34' R 441+87.58-76.23' R				31.8	817.9									3655.0	203.8	681.3				20.0	
442+23.57-75.80' R 442+58.55-26.02' R				69.8																	
Subtotal:	44.1	914.6	403.9	124.9	1879.6	0.0	44.0	120.0	0.0	39.7	246.9	0.0	0.0	11687.0	4944.7	1020.0	0.0	0.0	0.0	176.0	
Total:	356.6	5134.3	2630.9	303.4	2848.5	18.7	484.0	320.0	47.6	569.6	276.3	413.7	63.5	19335.1	27793.1	6889.2	302.5	168.0	30.0	550.0	

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B35	B149

Plotting Date: 11/18/2024 Revised 11/18/2024 MS

370+26-89' R
Install Bank and Channel Protection Gabions (12.0 Cu Yd) and Type B Drainage Fabric (34 SqYd)

370+61 (566 Ac)
Skew 15° LHF
Slipline Twin 54"-158'CMP
Install 54"-32' CMP (8' L & 8' R) & 4 Flared Ends

370+47-89' R
Install Bank and Channel Protection Gabions(12.0 Cu Yd) and Type B Drainage Fabric (34 SqYd)

372+38-60' R
Take Out 18" - 60' RCP (Incidental Work, Grading)

372+63-24' R
Remove Drop Inlet

372+69-53' R to 372+63-24' R
Take Out 18"-30' CMP (Incidental Work, Grading)

375+43-49' L
Take Out 18"-58' RCP (Incidental Work, Grading)

374+89.99-67.85' L to 375+57.64-66.39' L
Install 18" - 66' RCP & 1 Flared End (Between Outlet and Drop Inlet)

375+57.64-66.39' L to 375+98.00-68.70' L
Install 18" - 40' RCP & 1 Flared End (Between Drop Inlet and Inlet)

Install Type B Drop Inlet with 6" Concrete collar and Type B Frame & Grate at the following locations:

372+54.56-59.00' R	(3'x4')
372+89.16-22.67' R	(2'x3')
375+57.64-66.39' L	(2'x3')
375+92.47-22.67' R	(2'x3')
375+92.47-22.67' L	(2'x3')

COLMAN

T & R Service Company, Inc.
Parcel A3

371+37-79' L
Do Not Disturb
Transformer Box and Service Station

371+88-39' L
Do Not Disturb
Manhole

372+24 L
End Type 6 Fence

T & R Electric Supply Company, Inc.
Parcel A4

T & R Service Company, Inc.
Parcel A5

T & R Electric Supply Company, Inc.
Parcel A6
Omitted

THOMPSON & ROSS THIRD ADDITION

Property Line

620 feet

319.13 feet

Type 6 Fence

2-2 PP

Stream Crossing

Present SD Hwy 34

Section Line

370+00 371+00 372+00 373+00 374+00 375+00 376+00

Type 2 Fence

3 PP

NW1/4

City of Colman
Parcel A8

370+72-190' R
Do Not Disturb
Detention Ponds

371+63-94' R
371+68-91' R
371+68-92' R
Do Not Disturb
Trees

372+19 R
End Type 2 Fence

372+83-74' R to 379+39-37' R
Do Not Disturb
Chain Link Fence

372+60-85' R
Do Not Disturb
Sign

330 feet

Colman Cemetery Association
(INFORMATION ONLY)

COLMAN CEMETERY

BLOCK 2

Colman Cemetery Association
Parcel E1

Sec 22 - T106N - R50W

371+77.47-59.00' R to 372+54.56-59.00' R
Install 24" - 76' RCP & 1 Sloped End (Between Drop Inlet and Outlet)

372+54.56-59.00' R to 372+79.44-59.00' R
Install 24" - 24' RCP & 1 Sloped End (Between Inlet and Drop Inlet)

372+54.56-59.00' R to 372+89.16-22.67' R
Install 18" - 50' RCP (Between Drop Inlets)

372+89.16-22.67' R to 375+92.47-22.67' R
Install 18" - 300' RCP (Between Drop Inlets)

375+92.47-22.67' R to 375+92.47-22.67' L
Install 18" - 44' RCP (Between Drop Inlets)

Parcel A4
372+18.23 to 375+37.38 L
Temporary Easement containing 0.2 ac (9808 sq ft), more or less

Parcel A5
375+37.02 to 380+24.58 L
Temporary Easement containing 0.3 ac (11745 sq ft), more or less

Parcel A8
371+90.00 to 372+74.00 R
Temporary Easement containing 0.1 ac (2949 sq ft), more or less

Plot Scale - 1:40
Plotted From - TRS\12144
File - U:\drdprj\mody\060913\370.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)403	B36	B149

Plotting Date: 11/15/2024 Revised 11/15/2024 AR

Plot Scale - 1:40

1725 1720 1715 1710 1705 1700 1695 1690 1685 1680 1675 1670 1665 1660 1655 1650 1645 1640 1635

372+40 R
24' Ent

375+40 L
32' Ent

0.6316%

PJ1
PJ2
PJ3
PJ4
PJ5

LDG 1.3600%

PA1
PA2

LDGPI 373+00
Elev 1670.34

PJ1:
FLR (E) 1672.60
FLR (W) 1672.04
24" RCP 0.7408%

PJ2
FLR (E) 1672.72
FLR (W) 1672.60
24" RCP 0.5133%

PJ3
FLR (N) 1675.65
FLR (S) 1673.10
18" RCP 5.3078%

PJ4
FLR (E) 1677.15
FLR (W) 1675.65
18" RCP 0.5000%

PA1
FLL (E) 1673.82
FLL (W) 1672.92
18" RCP 1.3501%

PJ5
FLL (E) 1677.37
FLR (W) 1677.15
18" RCP 0.5000%

PA2
FLL (E) 1674.27
FLL (W) 1673.82
18" RCP 1.1413%

FLL(N) 1657.27
FLR(S) 1655.47

Q_{25} =502 cfs
EI 1666.46

1678.41 1678.54 1678.67 1678.79 1678.92 1679.04 1679.17 1679.30 1679.42 1679.55 1679.68 1679.80 1679.93 1680.05 1680.18 1680.31 1680.43 1680.56 1680.69 1680.81 1680.94 1681.07 1681.19 1681.32 1681.44 1681.57 1681.70 1681.82 1681.95 1682.08 1682.20

370+00 371+00 372+00 373+00 374+00 375+00 376+00

Plotted From - TPSF12141

File - U:\drafp\mody\0609\370v.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B39	B149

Plotting Date: 11/05/2024 Revised 11/05/2024 AR

382+00.00-23.63' L to
382+43.23-21.17' L
Install 18" - 36' RCP
(Between Drop Inlets)

383+69-36' L
Take Out 18"-56' RCP Arch
(Incidental Work, Grading)

384+17.01-21.17' R to
384+17.01-18.17' L
Install 18" - 38' RCP
(Between Drop Inlets)

384+17.01-18.17' L to
384+19.69-37.52' L
Install 18" - 18' RCP
(Between Drop Inlets)

385+45-32' L to 385+44-38' R
Take Out 18"-58' RCP Arch
(Incidental Work, Grading)

385+45-32' L to 385+45-23' L
Take Out 18"-6' RCP
(Incidental Work, Grading)

Remove Drop Inlets
at the Following Locations:
385+45-32' L
385+45-23' L

385+44.83-34.52' L to
385+44.83-18.17' L
Install 18"-14' RCP
(Between Drop Inlets)

385+44.83-18.17' L to
385+44.83-21.17' R
Install 24" - 36' RCP Arch
(Between Drop Inlets)

Install Type B Drop Inlet
with 6" Concrete collar
and Type B Frame & Grate
at the following locations:

382+43.23-21.17' L	(2'x3')
382+43.23-21.17' R	(2'x3')
384+17.01-21.17' R	(2'x3')
384+17.01-18.17' L	(2'x3')
385+44.83-21.17' R	(3'x4')
385+44.83-18.17' L	(2'x3')
387+54.97-21.17' R	(2'x3')
387+54.97-18.17' L	(2'x3')

Install Type C Drop Inlet
and Type C Frame & Grate
at the following locations:

384+19.69-37.52' L	(3'x4')
385+44.83-34.52' L	(3'x4')

382+89-47' L to
383+34-45' L
Do Not Disturb
Parking lot signs

383+88 L
Begin Chain Link Fence
with 3-Strand Barbed
Wire Top

383+98-60' L
Do Not Disturb
Tree

384+30-58' L
Do Not Disturb
Tree

384+40-37' L
Do Not Disturb
Power Box

385+00-39' L
Do Not Disturb
Transformer Box

384+36 to 391+00 L
Do Not Disturb
Chain Link Fence

384+36 L
End Chain Link Fence
with 3-Strand Barbed
Wire Top

385+18 L
Do Not Disturb Chain
Link Fance Gate

COLMAN

THOMPSON & ROSS SECOND ADDITION

THOMPSON & ROSS ADDITION

T & R Electric Supply Company, Inc.
Parcel 1

T & R Electric Supply Company, Inc.
Parcel 2

T & R Electric Supply Company, Inc.
Parcel A7

LOT 4

LOT 3

LOT 2

383+25-49'
383+36.61-31.55'
383+36.60-41.38'
383+46-66'
383+85.95-67.00'
383+86.43
383+86.13-41.43'
384+03.59-41.45'
384+05-44'
384+36.11-44.00'
384+36.42
384+36.14-40.00'
384+36.13-41.48'
384+36.20-31.92'
385+32.80-32.27'
385+32.79-40.23'
385+57.80-32.36'
385+57.79-40.00'
387+46.89

33'
Section Line
382+00
383+00
384+00
385+00
386+00
387+00
387+59.67
388+00
107'
117'
107'
109'
98'
CITY LIMITS
Present SD Hwy 34
SW 3rd Street

382+50.00-75.12'
383+91-96'
385+25-101'
387+41.20-96.00'
387+41.22-75.31'
388+07.91-75.34'
388+07.90-65.09'

Estate of Richard H. Roda
Parcel A9

NW1/4

Sec 22 - T106N - R50W

McGUIRES' ADDITION
LOT 1

T & R Electric Supply Company, Inc.
Parcel A10

382+00.00-23.63' R to
382+43.23-21.17' R
Install 18" -36' RCP
(Between Drop Inlets)

382+43.23-21.17' R to
384+17.01-21.17' R
Install 18" - 172' RCP
(Between Drop Inlets)

385+44.83-21.17' R to
385+44.83-46.75' R
Install 24" - 20' RCP Arch
& 1 Sloped End
(Between Drop Inlet
and Outlet)

385+44.83-21.17' R to
387+54.97-21.17' R
Install 18" - 208' RCP
(Between Drop Inlets)

387+54.97-21.17' R to
389+53.45-21.17' R
Install 18" - 196' RCP
(Between Drop Inlets)

387+54.97-18.17' L to
387+54.97-21.17' R
Install 18" - 38' RCP
(Between Drop Inlets)

Parcel A9
382+50.00 to 387+41.22 R
Temporary Easement containing
0.2 ac (9612 sq ft), more or less

Parcel 2
383+85.95 to 384+36.13 L
Temporary Easement containing
0.1 ac (344 sq ft), more or less

Parcel A7
384+36.14 to 385+32.80 L
Temporary Easement containing
0.1 ac (777 sq ft), more or less

Parcel A7
385+57.79 to 394+03.03 L
Temporary Easement containing
0.2 ac (9312 sq ft), more or less

Parcel A10
387+41.20 to 389+92.00 R
Temporary Easement containing
0.2 ac (8047 sq ft), more or less

Plot Scale - 1:40
Plotted From - TRSF12141
SectionB Page # : B19
File - U:\rdp\tmoody0609\382.dgn

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B41	B149

Plotting Date: 11/05/2024 Revised 11/05/2024 AR

Plot Scale - 1:40

389+53.45-18.17' L to
389+53.45-21.17' R
Install 18" - 38' RCP
(Between Drop Inlets)

393+77
Take Out 24"-70' RCP
& 2 End Sections
(Incidental Work, Grading)

393+21-58' R
Install 18" - 80' CMP
& 2 Safety Ends

393+77.56-18.17' L to
393+77.56-21.17' R
Install 30" - 36' RCP Arch
(Between Drop Inlets)

393+77.56-46.28' L to
393+77.56-18.17' L
Install 30"-20' RCP Arch
& 1 Sloped End
(Between Inlet and
Drop Inlet)

393+77.56-18.17' L to
394+12.61-18.17' L
Install 24" - 30' RCP Arch
(Between Drop Inlets)

Install Type B Drop Inlet
with 6" Concrete collar
and Type B Frame & Grate
at the following locations:

389+53.45-21.17' R	(2'x3')
389+53.45-18.17' L	(2'x3')
393+77.56-18.17' L	(3'x5.5')
393+77.56-21.17' R	(3'x5.5')

T & R Electric Supply Company, Inc.
Parcel A7

LOT 2

388+58 L to 390+57 L
Do Not Disturb Trees

THOMPSON & ROSS ADDITION

391+00-41' L
Begin 5' Chain Link Fence
with Top Rail & 3-Strand
Barbed Wire Top

391+09 L
Elim Ent

LOT 1

COLMAN

394+02-41' L
Begin 5' Chain Link Fence
with Top Rail & 3-Strand
Barbed Wire Top

393+21 L
40' Double
Vehicle
Swing Gate

390+79-41'
392+89-51'&66'
392+99-76'
393+46-76'
393+56-51'&66'
393+65.22-34.25'
393+65.30-47.42'
393+90.32-33.99'
393+90.41-47.15'
394+02.96-33.91'
394+03.03-51.00'
1/4 Line

33'
109'
98'
96'
94'
94'
85'
97'
84'
84'
33'
99'
33'

388+00
Section Line
389+00
390+00
Present SD Hwy 34
391+00
392+00
SW 3rd Street
393+00
394+00

Otter Tail Power Co.
right of way and
Substation Easement

389+58-108'
389+92.00-65.12'
391+02.00-59.57'
391+15-80'
391+49.74-59.60'
391+49.81-81.62'
391+99.60-50.46'
391+99.63-81.52'

392+09-53' R
392+15-52' R
Do Not Disturb
Power Box

392+44 R
Elim Ent
392+87
112'&124'
393+47-79'&124'

LOT 1

McGUIRES' ADDITION

393+23-109' R
Do Not Disturb
Tree

T & R Electric Supply Company, Inc.
Parcel A10

Sec 22 - T106N - R50W

394+02.82

Parcel A10
391+02.00 to 391+49.81 R
Temporary Easement containing
0.1 ac (868 sq ft), more or less

Parcel A10
391+99.60 to 394+26.13 R
Temporary Easement containing
0.2 ac (10584 sq ft), more or less

393+77.56-21.17' R to
393+77.56-47.11' R
Install 30"-18' RCP Arch
& 1 Sloped End
(Between Drop Inlet
and Outlet)

393+77.56-21.17' R to
394+12.61-21.17' R
Install 24" - 30' RCP Arch
(Between Drop Inlets)

Plotted From - TRSF12141

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B43	B149

Plotting Date: 11/05/2024 Revised 11/05/2024 AR

394+45-23' L to 394+47-35' L
Take Out 18"-10' RCP
(Incidental Work, Grading)

394+12.61-18.17' L to
394+50.00-20.63' L
Install 18" - 30' RCP
(Between Drop Inlets)

394+50.00-20.63' L to
394+87.39-18.17' L
Install 18" - 30' RCP
(Between Drop Inlets)

396+59-42' R
Take Out 18" - 44' CMP
(Incidental Work, Grading)

Install Type S Drop Inlet
Base and Type S Precast Lid
at the following locations:
394+50.00-20.63' L (4'x11')
394+50.00-23.62' R (4'x11')

397+99
Take Out 18"-58' RCP
(Incidental Work, Grading)

396+90.50-18.17' L to
396+90.50-21.17' R
Install 18" - 36' RCP
(Between Drop Inlets)

396+53-63' R
Install 18" - 34' CMP
& 2 Safety Ends

397+98-23' L to
397+99+37' R
Take Out 18" - 60' RCP
(Incidental Work, Grading)

397+99-37' R to
398+70-54' R
Take Out 18" - 72' RCP
(Incidental Work, Grading)

398+26-52' R
Install 18" - 66' CMP
& 2 Safety Ends

398+08-39' R to
398+24-25' R
Take out 18"-22' RCP
(Incidental Work, Grading)

398+24-25' R
Take out 18"-40° Bend
(Incidental Work, Grading)

398+24-25' R to
398+99-25' R
Take out 8"-75' PVC
Floor Drain
(Incidental Work, Grading)

398+05.54-18.17' L to
398+05.54-21.17' R
Install 24"-36' RCP Arch
(Between Drop Inlets)

398+12.57-45.92' L to
398+05.54-18.17' L
Install 24"-26' RCP Arch
(Between Drop Inlets)

399+39.43-18.17' L to
399+39.43-21.17' R
Install 18" - 38' RCP
(Between Drop Inlets)

Install Type C Drop Inlet
and Type C Frame & Grate
at the following locations:
398+12.57-45.92' L (4'x5')

Install Type B Drop Inlet
with 6" Concrete collar
and Type B Frame & Grate
at the following locations:
394+12.61-18.17' L (3'x4')
394+12.61-21.17' R (3'x4')
394+87.39-18.17' L (2'x3')
394+87.39-21.17' R (2'x3')
396+90.50-21.17' R (4'x3')
396+90.50-18.17' L (5.5'x3')
398+05.54-18.17' L (3'x4')
398+05.54-21.17' R (4'x4')
399+39.43-21.17' R (3'x4')
399+39.43-18.17' L (2'x3')

Remove Drop Inlets at
the Following Locations:
394+45-23' L
397+98-23' L
398+70-54' R
399+47-33' L

Plot Scale - 1:40

COLMAN

1/4 Line

394+02.96-33.91'
394+03.03-51.00'

394+35.58-47.33'
394+35.70-34.22'

394+60.65-47.31'
394+60.75-34.42'

Ross Management, Inc.
Parcel 3

FAIRBANKS ADDITION
BLOCK 2
LOT 7

398+07.57-34.96'
398+07.57-53.42'

398+27.57-53.42'
398+27.57-43.00'

398+27.57
34.94'

398+65-40'

399+51.81-34.81'
399+52.14-47.00'

S Crummer Avenue

33' 84' 97' 84'

Section Line

83'

Present SD Hwy 34

SW 3rd Street

33'

394+00 395+00 396+00 397+00 398+00 399+00 400+00

33'

LOT 1
McGUIRES' ADDITION

394+25.39-74.00'
394+26.14-49.92'

395+22-66'

395+97-69'

396+21.27-48.48'
396+20.86-72.95'

396+43-105'

396+68-106'

396+80.71-74.03'

396+81.51-31.04'

13 rods

397+02-57'

397+92.52-55.16'
397+92.53-43.16'
397+92.55-31.16'

398+77.52-55.25'
398+77.55-31.25'

398+94.75-49.00'
398+95.08-31.27'

399+05-44'

399+41.58-31.32'
399+53.72-35.98'

LOT 5

LOT 1

T & R Electric Supply Company, Inc.
Parcel A9

394+02.82

PI 394+02.57
N 619386.49
E 2893193.75
Del 1°16'17" L
Dc 0°14'32"
T 262.51'
L 525.00'
R 23661.33'

Estate of Richard H. Roda
Parcel 4

394+12.61-21.17' R to
394+50.00-23.62' R
Install 18" - 30' RCP
(Between Drop Inlets)

394+50.00-23.62' R to
394+87.39-21.17' R
Install 18" - 30' RCP
(Between Drop Inlets)

396+31.14-52.67' R to
396+90.50-21.17' R
Install 24" - 66' RCP Arch
& 1 Sloped End
(Between Outlet and
Drop Inlet)

396+90.50-21.17' R to
398+05.54-21.17' R
Install 24" - 112' RCP Arch
(Between Drop Inlets)

W1/2 NE1/4

Property Line

396+82.09

Sec 22 - T106N - R50W

Mary S. Clark
Parcel 5

398+05.54-21.17' R to
399+39.43-21.17' R
Install 18" - 130' RCP
(Between Drop Inlets)

Mary S. Clark
Parcel 6

399+39.43-21.17' R to
400+40.33-18.17' R
Install 18" - 98' RCP
(Between Drop Inlets)

398+95.67

Parcel 3
394+02.96 to 398+07.57 L
Temporary Easement containing
0.2 ac (6859 sq ft), more or less

Parcel 3
398+27.57 to 399+52.14 L
Temporary Easement containing
0.1 ac (998 sq ft), more or less

Parcel 4
394+25.39 to 396+80.71 R
Temporary Easement containing
0.1 ac (5769 sq ft), more or less

Parcel 5
396+80.71 to 397+92.55 R
Temporary Easement containing
0.1 ac (2977 sq ft), more or less

Parcel 5
398+77.52 to 398+95.08 R
Temporary Easement containing
0.1 ac (362 sq ft), more or less

Parcel 6
398+94.75 to 401+08.66 R
Temporary Easement containing
0.1 ac (1981 sq ft), more or less

Plotted From - TRSF12141

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CURB & GUTTER LAYOUT

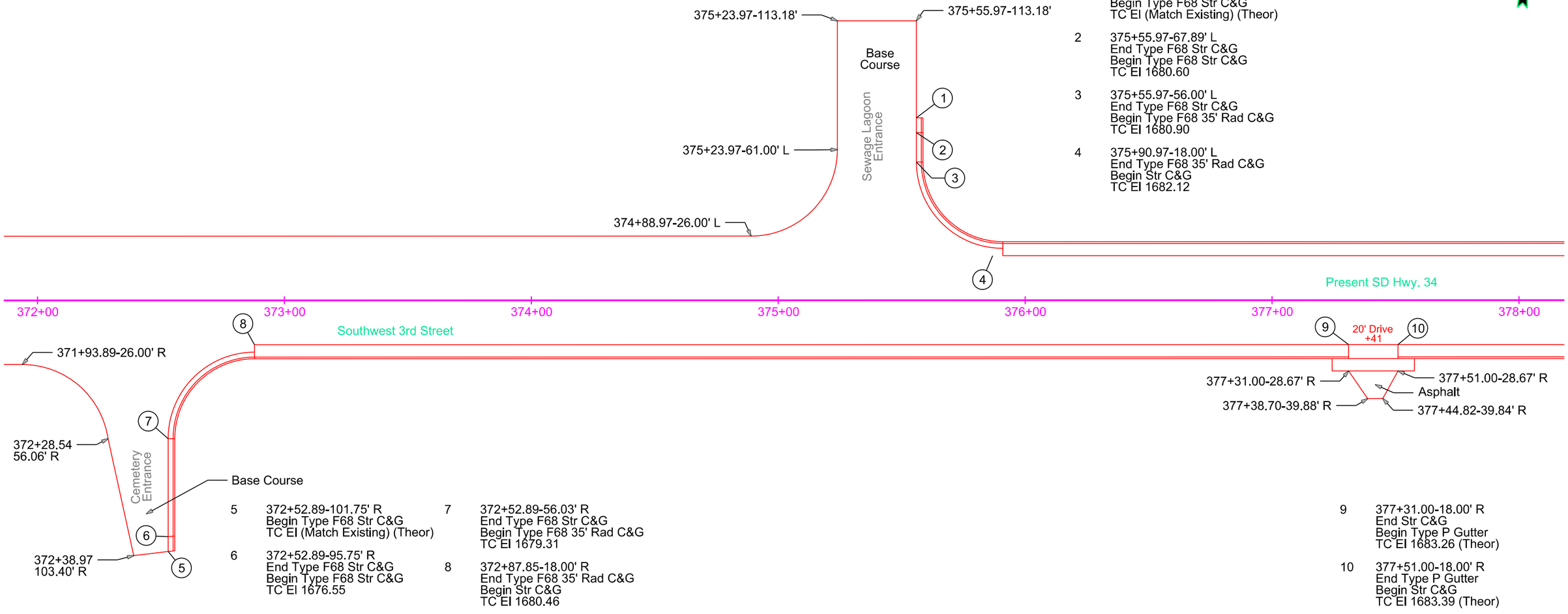
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B78	B149

Plotting Date: 11/05/2024 Revised 11/05/2024 AR

Note: All Curb & Gutter shown on this sheet is Modified Type F68 and all gutter is Modified Type P8 except as noted.
All boulevard sidewalk is 5' wide, except as noted, and the shared use path is 8' wide.

All boulevard less than 4 feet wide will be colored concrete,
and all boulevard greater than 4 feet will be grassed.
All approach pavement is 6" except as noted.

COLMAN



1 375+55.97-73.89' L
Begin Type F68 Str C&G
TC El (Match Existing) (Theor)

2 375+55.97-67.89' L
End Type F68 Str C&G
Begin Type F68 Str C&G
TC El 1680.60

3 375+55.97-56.00' L
End Type F68 Str C&G
Begin Type F68 35' Rad C&G
TC El 1680.90

4 375+90.97-18.00' L
End Type F68 35' Rad C&G
Begin Str C&G
TC El 1682.12

5 372+52.89-101.75' R
Begin Type F68 Str C&G
TC El (Match Existing) (Theor)

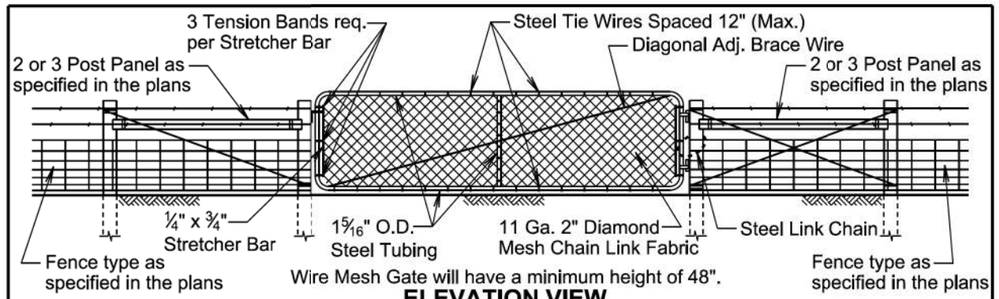
6 372+52.89-95.75' R
End Type F68 Str C&G
Begin Type F68 Str C&G
TC El 1676.55

7 372+52.89-56.03' R
End Type F68 Str C&G
Begin Type F68 35' Rad C&G
TC El 1679.31

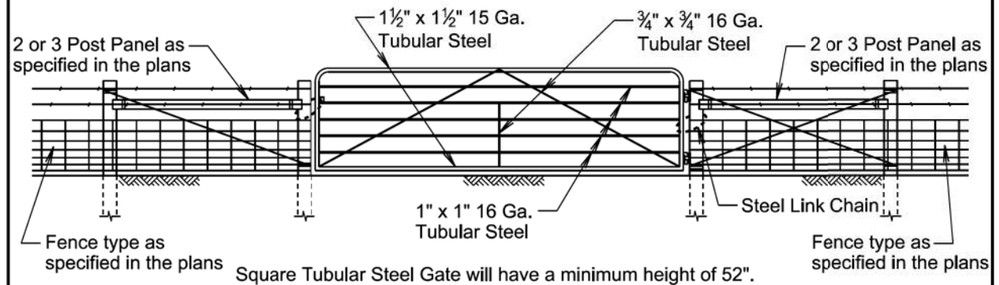
8 372+87.85-18.00' R
End Type F68 35' Rad C&G
Begin Str C&G
TC El 1680.46

9 377+31.00-18.00' R
End Str C&G
Begin Type P Gutter
TC El 1683.26 (Theor)

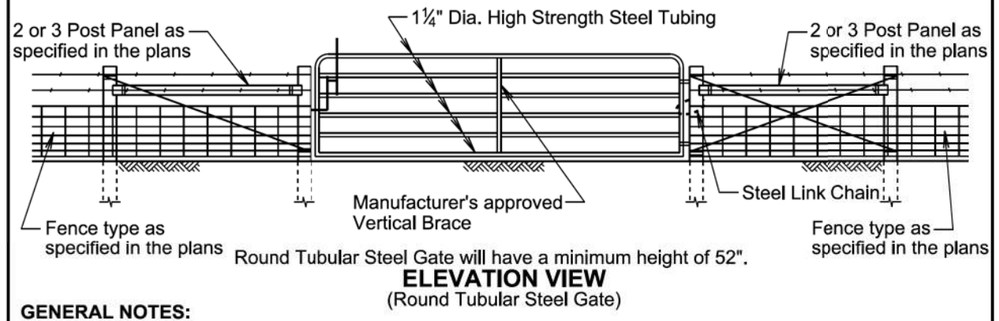
10 377+51.00-18.00' R
End Type P Gutter
Begin Str C&G
TC El 1683.39 (Theor)



ELEVATION VIEW
(Wire Mesh Gate)



ELEVATION VIEW
(Square Tubular Steel Gate)



ELEVATION VIEW
(Round Tubular Steel Gate)

GENERAL NOTES:

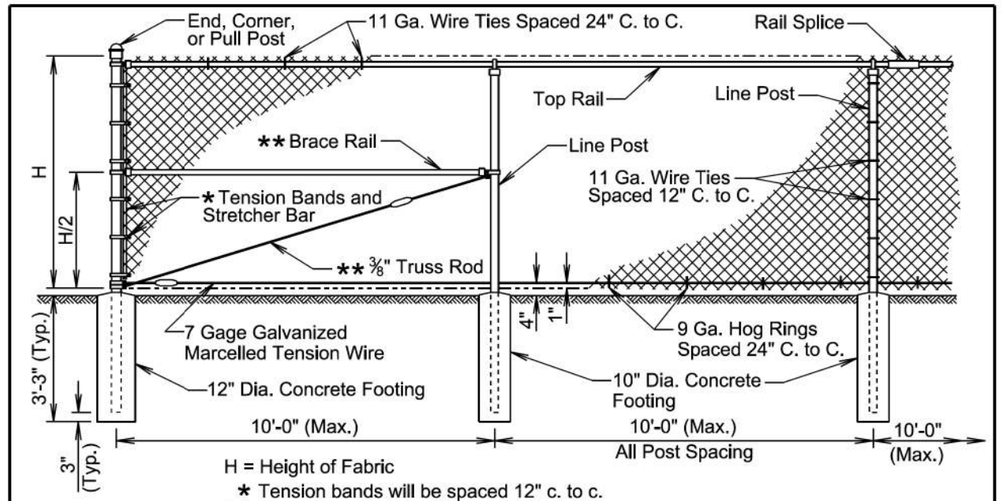
Only single tubular frame gates are shown on this standard plate. If double tubular frame gates are specified, the gates will be of the same type and materials as shown above. Double tubular gates will swing toward the middle of the opening and will be secured by a chain, latch, or other suitable hardware.

Gate hardware will conform to the specific type of gate installed. The gate and gate hardware will either be painted or galvanized. The paint on the gates and hardware will be subject to approval by the Engineer.

The Steel Link Chain will be a minimum of ¼", 4' long, rust resistant, and have electrically welded links. The chain will be wrapped around the gate hinge post and gate frame and the ends of the chain will be welded together with enough slack in the chain to provide free operation of the gate.

June 26, 2019

Published Date: 2025	SDDOT	***TUBULAR FRAME GATES***	*PLATE NUMBER* 620.21 *Sheet 1 of 1*



H = Height of Fabric
* Tension bands will be spaced 12" c. to c.
** Are not required for 3' through 5' height fences.
⬭ Tightening device such as shown on standard plate 621.03

COMPONENT	END, CORNER, and PULL POST		LINE POST			TOP and BRACE RAIL	
Type of Fabrication	Round Pipe Nominal	Roll Formed Steel	Round Pipe Nominal	"C" Section	H Beam Steel	Round Pipe Nominal	Roll Formed Steel
Size	3.00" O. D.	3.5"x3.5"	2.50" O. D.	1.875"x1.625"	2.25"x1.70"	1.625" O. D.	1.625"x1.25"
Weight (lb. / Ft.)	5.79 or 4.64	5.14	3.65 or 3.12	2.34	3.43	2.27 or 1.84	1.35

GENERAL NOTES:

Specific details of the component parts of the fence will be approved by the Engineer. Commercially available items produced specifically for the use intended will be used wherever possible in the construction of the fence.

Height of the fabric will be as shown in the plans. Fabric is available at the following heights: 36", 42", 48", 60", 72", 84", 96", 108", 120", and 144". Fabric heights 60 inches and less will be knuckled at both selvages. Fabric heights 72 inches and higher will be knuckled at one selvage and twisted at the other selvage.

Chain link fabric will be 2-inch mesh, No. 9 gage galvanized wire securely fastened to tension wire, line post, rails, braces, and stretcher bars.

Fence may be constructed with either round pipe, "C" section, "H" beam, or roll formed steel components as shown in the table above. Line posts may be round pipe, "C" section, or "H" beam. The corner post and rails will be either round pipe or roll formed steel. The type of components used must be approved by the Engineer prior to installation.

Where fence must cross small bodies of water such as drainage areas or ponds that could freeze during the winter, use 11 gage hog rings. Provide only two ties per tension wire and top rail between line posts.

A suitable method of rail splicing will be used to allow for expansion and contraction while maintaining proper position of the top rail.

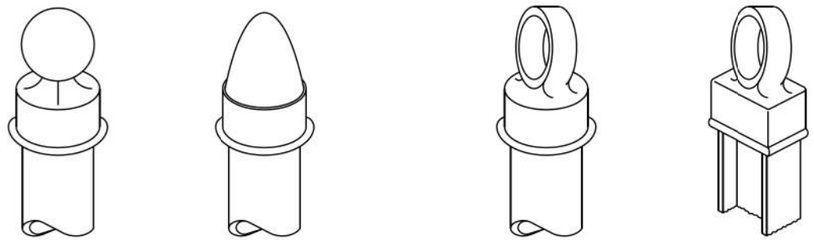
Fence grounding will be as shown on standard plate 620.11.

November 19, 2022

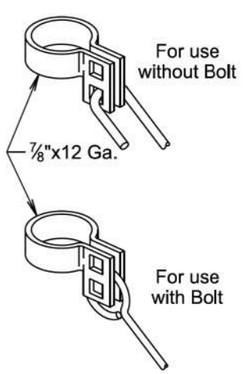
Published Date: 2025	SDDOT	***CHAIN LINK FENCE WITH TOP RAIL***	*PLATE NUMBER* 621.01 *Sheet 1 of 1*

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B146b	B146

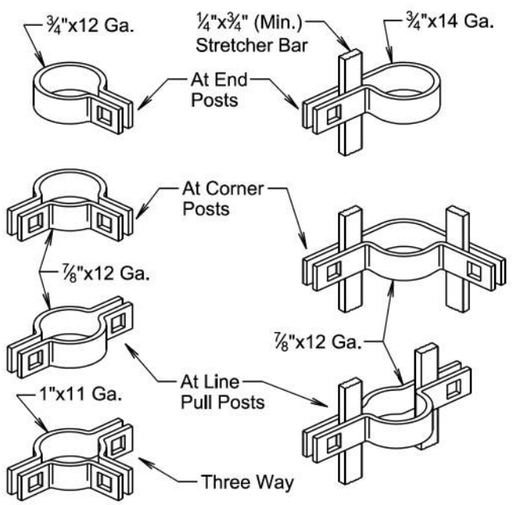
Plotting Date: 11/05/2024



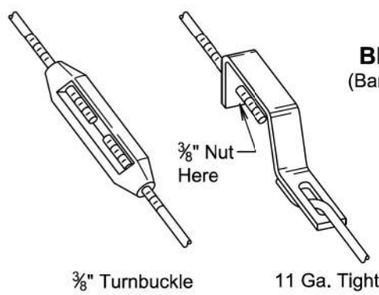
TYPICAL POST TOPS
(Shown for example only)



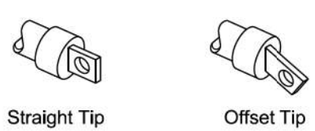
BRACE AND TRUSS BANDS



BRACE BANDS **TENSION BANDS**
(Bands will be rectangular for "C" Section and "H" Beam Posts.)



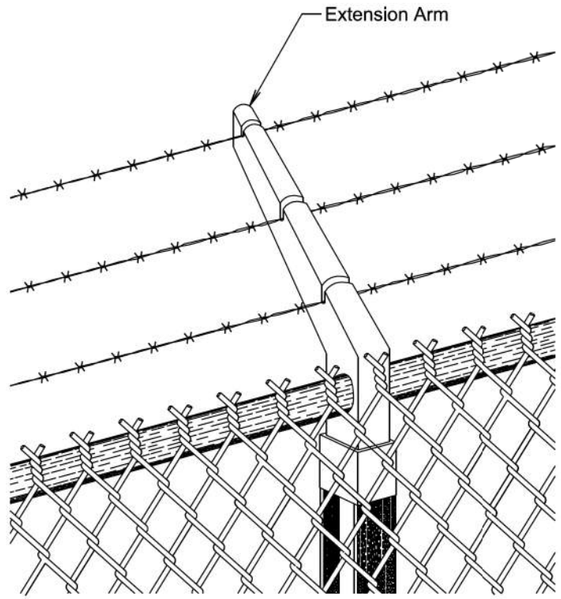
TIGHTENING DEVICES



RAIL ENDS

June 26, 2019

Published Date: 2025	SDDOT	HARDWARE FOR CHAIN LINK FENCE	PLATE NUMBER 621.03
			Sheet 1 of 1



GENERAL NOTES:

Extension arms will be hot dipped galvanized. End and corner arms will be malleable iron. Intermediate arms may be pressed steel. Arms will have sealed caps and three slots to accommodate the barbed wires. The top wire will be 12 inches above the fabric and 12 inches out from the fence line at an angle of approximately 45°. Adjustable arms may be used. Barbed wire will be two strand 12½ gauge wire with four point round barbs spaced on 5 inch centers.

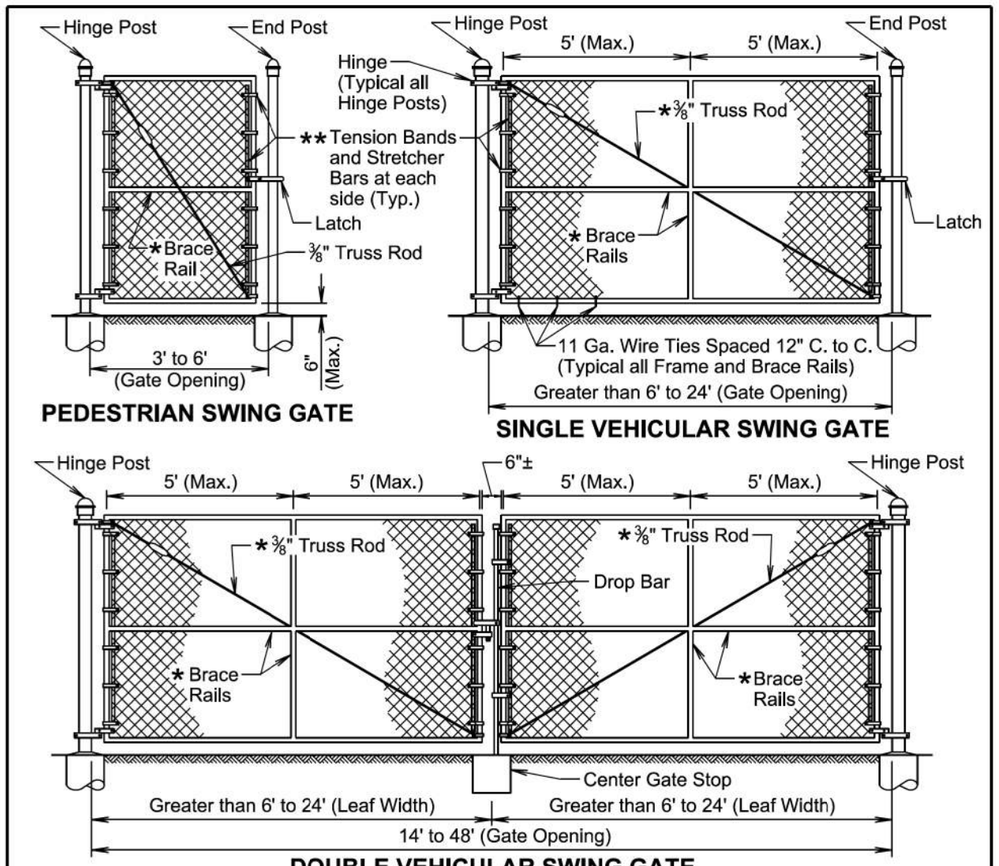
Extra payment will not be made for extension arms with barbed wire. Extension arms with barbed wire will be incidental to the respective "Chain Link Fence" contract item. When extension arms with barbed wire are attached to gates, the payment for the extension arms with barbed wire will be incidental to the respective "Gate" contract item.

June 26, 2019

Published Date: 2025	SDDOT	BARBED WIRE TOP FOR CHAIN LINK FENCE	PLATE NUMBER 621.04
			Sheet 1 of 1

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	B146c	B146

Plotting Date: 11/05/2024



[1] Gate Opening Width	Hinge Post		Concrete Footing	
	Round Pipe Nominal	Roll Formed Steel	Depth	Diameter
3' to 6'	3.00"	3.50"x3.50"	36"	12"
> 6' to 13'	4.00"	—	42"	12"
> 13' to 18'	6.625"	—	48"	18"
> 18' to 23'	8.625"	—	48"	24"

Gate Opening		Frame Pipe Nominal	Brace Rail Pipe Nominal
[1] Width	[2] Height		
3' to 8'	3' to 6'	1.50"	1.50"
>8' to 23'	6'	1.90"	1.50"
>8' to 23'	>6' to 12'	1.90"	1.90"

* Are not required for gates 3' to 5' height or 5' or less in width.

** Tension Bands willl be spaced 12" center to center.

⬭ Tightening Device such as shown on standard plate 621.03

1 Leaf width for Double Vehicular Swing Gate

2 Will coincide with fence height

GENERAL NOTES:

Gate frames may be constructed of bent or welded steel tubing, must be approved by the Engineer prior to installation, and installed in accordance with the Manufacturer's installation instructions.

Center gate stops must be approved by the Engineer prior to installation and will be installed in accordance with the Manufacturer's installation instructions.

June 26, 2019

Published Date: 2025	SDDOT	SWING GATES FOR CHAIN LINK FENCE	PLATE NUMBER 621.10
			Sheet 1 of 1

SECTION C ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	500.0	Hour
634E0020	Pilot Car	250.0	Hour
634E0110	Traffic Control Signs	1,244.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	60	Each
634E0380	Tubular Marker	210	Each
634E0390	Replace Tubular Marker	50	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	3,500	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	432	Ft
634E0640	Temporary Pavement Marking	22,364	Ft
634E0900	Portable Temporary Traffic Control Signal	2	Unit
634E0919	Driveway Assistance Device	10.0	Mth
634E1002	Detour and Restriction Signing	563.0	SqFt
634E1020	Temporary Business Signing	50.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	4	Each

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.

Notes:

- Contractor is advised August 9th and 10th, 2025 are Looney Days in the City of Colman. Contractor is advised there will be increased traffic and pedestrians during this period and Contractor will limit traffic disruptions due to the project as much as possible during this period.

Phase 1

General Work Description:
Widening, Temporary Surfacing

Construction:

1. Install necessary traffic control and signing
2. Widening existing roadway for temporary surfacing
3. Install temporary surfacing as per phasing details (quantities included in section F)

Notes:

- Widening and temporary surfacing will be accomplished with use of flaggers and pilot car
- Temporary widening from 354+14 to 357+14 may be installed with phase 2 construction

Phase 2

General Work Description
Construction of south portion of SD Hwy 34 from station 357+14 to 382+00

Construction

1. Install necessary traffic control, signing, and remove conflicting pavement markings.
2. Remove existing pavement necessary for construction of phase 2
3. Install storm sewer, construct necessary grading, and construct center turnlane, eastbound lane, and eastbound shoulder from station 357+14 to 382+00

Notes:

- Traffic will be maintained single lane from station 357+14 to 382+00 with use of temporary traffic signals
- Access to Cemetery will be maintained at all times

Phase 3

General Work Description
Construction of north portion of SD Hwy 34 from station 357+14 to 380+50 and south portion from station 382+00 to 410+30.

Construction

1. Install necessary traffic control, signing, and remove conflicting pavement markings.
2. Remove existing pavement necessary for construction of phase 3
3. Install storm sewer, construct necessary grading, and construct center turnlane, eastbound lane, and eastbound shoulder from station 382+00 to 410+30.
4. Install storm sewer, construct necessary grading, and westbound lane from station 357+14 to 380+50

Notes:

- Traffic will be maintained single lane from station 382+00 to 410+30 with use of temporary traffic signals
- Once the center turnlane, eastbound lane, and eastbound shoulder from station 382+00 to 410+30 are constructed and can carry 2 lanes of traffic, the contractor will be allowed to proceed to phase 4
- Access to either Crummer Ave or Main St will be maintained at all times
- Access to the City of Colman RV Park will be required at all times
- Access to either Allen St or 470th Ave will be required at all times to allow access to the City Park and Golf Course
- Access to either Summit Ave or Enterprise Ave will be required at all times to maintain access to businesses
- Phase construction of Florence St will be required as it is the only access for residents. Contractor will phase construction to maintain a 20' wide gravel surfacing

Phase 4

General Work Description
Construction of north portion of SD Hwy 34 from station 380+50 to 408+75 and south portion from station 410+30 to 447+75.

Construction

1. Install necessary traffic control, signing, and remove conflicting pavement markings
2. Remove existing pavement necessary for construction of phase 4
3. Install storm sewer, construct necessary grading, and construct center turnlane, eastbound lane, and eastbound shoulder from station 410+30 to 447+75
4. Install storm sewer, construct necessary grading, and westbound lane from station 380+50 to 408+75

Notes:

- Traffic will be maintained single lane from station 410+30 to 447+75 with use of temporary traffic signals
- Once the center turnlane, eastbound lane, and eastbound shoulder from station 410+30 to 447+75 are constructed and can carry 2 lanes of traffic, the contractor will be allowed to proceed to phase 5
- Access to either Crummer Ave or Main St will be maintained at all times

Phase 5

General Work Description
Construction of north portion of SD Hwy 34 from station 408+75 to 447+75, sidewalk, approach pavements, permanent signing, permanent pavement marking, and lighting.

Construction

1. Install necessary traffic control & signing
2. Remove existing pavement necessary for construction of phase 5
3. Install storm sewer, construct necessary grading, and westbound lane from station 408+75 to 447+75
4. Install Sidewalk, approach pavements, permanent signing, permanent pavement marking, final erosion control, and lighting
5. Miscellaneous cleanup

Notes:

- Sidewalk or approach pavements may be installed in prior phases.

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.

All temporary speed limit signs will have a minimum mounting height of 5 feet in rural locations, even when mounted on portable supports.

All construction operations will be conducted in the general direction of traffic movement.

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.

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.

If inappropriate or conflicting pavement markings exist, the markings will be removed and replaced with applicable temporary pavement markings when the work duration is more than 3 days. When the work duration is less than 3 days, the channelizing devices in the area where the pavement markings conflict will be placed at one-half of the normal channelizing device spacing. Pavement marking removals will be incidental to the contract unit price per foot for “Remove Pavement Marking, 4” or equivalent”. Temporary pavement marking will be paid for at the contract unit price per mile/foot for “Temporary Pavement Marking”. The additional channelizing devices will be incidental to the contract lump sum price for “Traffic Control, Miscellaneous”.

Road closure signs and barricades as shown on the phasing detail sheets will be positioned to face traffic approaching the project.

OVERWIDTH RESTRICTION AND DETOUR SIGNING

The Contractor will furnish and install the overwidth restriction signs as shown in these plans. Prior to installing the signs, the Contractor will mark the sign locations and review them with the Engineer. Overwidth restriction signs will be installed on fixed location, ground mounted, breakaway supports. It will be the responsibility of the Contractor to maintain and reinstall these signs during the project as required by the construction progress. Upon completion of the project, the Contractor will remove the overwidth restriction signs.

All costs for furnishing the signs, posts, and mounting hardware, and for installing, maintaining, covering, and removing the overwidth restriction signs will be incidental to the contract unit price per square foot for “Detour and Restriction Signing”.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 15 minutes at the flagger station.

Additional flagger warning signs and flagger hours have been included in the Estimate of Quantities for use on intersecting roads. These flaggers will be used as directed by the Engineer and will be used primarily during daytime hours.

Also included in the Estimate of Quantities are WAIT FOLLOW PILOT CAR signs for use on low volume intersecting roads, driveways, or as determined by the Engineer. WAIT FOLLOW PILOT CAR signs will not block the view of the stop sign.

It is required that the flaggers and pilot car operators be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. All costs associated with this will be incidental to the contract unit price per hour for “Flagging”.

WORK ZONE SPEED REDUCTION

The Department is required to obtain a speed reduction resolution prior to the installation of any SPEED LIMIT (R2-1) signs as shown in the plans. To provide adequate time for the resolution to be enacted, the Contractor will inform the Engineer a minimum of 3 weeks prior to the scheduled installation of any work zone speed reduction signs on the project. The information provided by the Contractor will include the anticipated date of sign installation, the newly reduced speed limit, the location of the work zone, and the anticipated completion date of work requiring the speed reduction.

TEMPORARY PAVEMENT MARKING

Temporary pavement markings will be temporary paint, temporary raised pavement markers, or temporary marking tape.

- The Contractor will determine the best temporary pavement marking type to use on the project.
- Temporary paint will not be allowed on new PCCP surfaces.

Table of Temporary Pavement Markings

Use	Location	Length (Ft)
White Edge Line x 2 – Single Lane	Sta 355+14 to 451+96	9682
Double Yellow x 2 – Two Lanes	Sta 355+14 to 451+96	9682
Temporary Signals – SP 634.26	Varies	3000
		22,364

TEMPORARY PAVEMENT MARKING TAPE, TYPE I

Temporary pavement marking for stop lines for standard plate 634.26 will consist of 4” Temporary Pavement Marking Tape Type I. Placement of each 24” white stop line will be accomplished by placing six pieces of 4” x 12’ tape adjacent to one another. Each workspace requires two stop lines which is an equivalent of approximately 144’ of 4” tape (3 workspaces at 144’ = 432’).

PORTABLE TEMPORARY TRAFFIC CONTROL SIGNAL

The Contractor will furnish, install, operate, and maintain a portable temporary traffic control signal during construction phases as determined by the Engineer. There will be one controller and one slave unit per location.

All vehicle signal heads will have backplates with retroreflective border. The vehicle signal head backplates will have a factory applied 3-inch wide yellow retroreflective border. Sheeting for the border will be Type IX or Type XI in conformance with ASTM D4956.

Signal backplates will be polycarbonate, aluminum, or aluminum-composite. Minimum material thicknesses are:

Polycarbonate, 0.10-inch
Aluminum, 0.06-inch
Aluminum-Composite, 0.08-inch

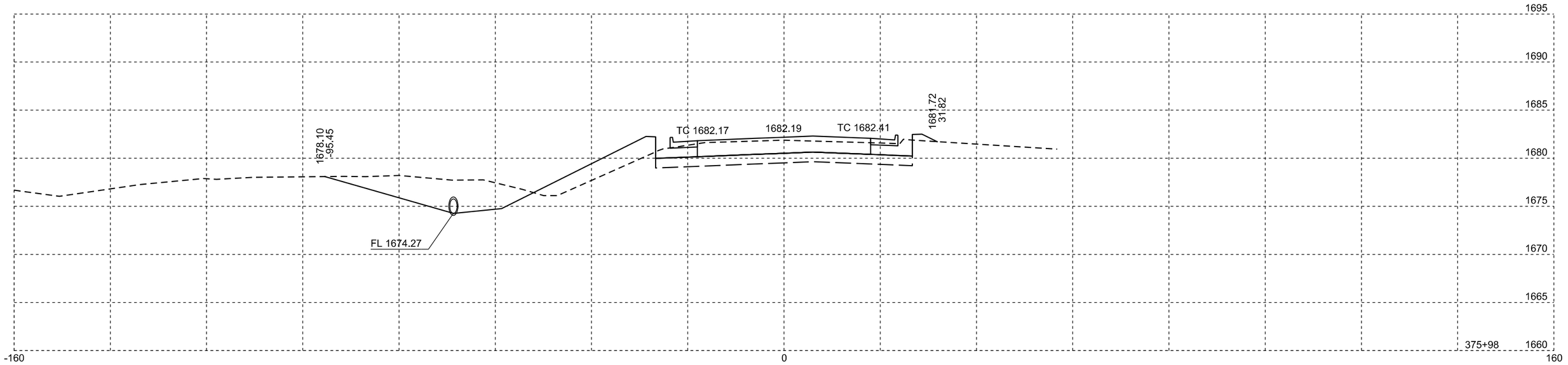
Signal backplates will extend not less than 5 inches from the edge of the signal head at the top, bottom, and sides.

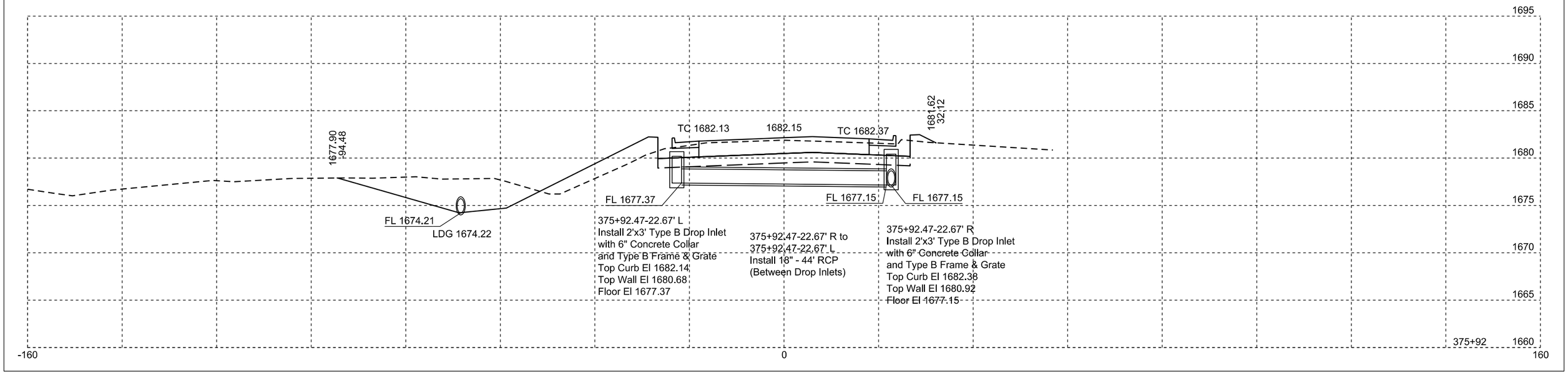
All traffic signal equipment and materials will meet the requirements of Sections 635 and 985 of the Specifications except the controller requirements.

All costs involved with constructing and maintaining the portable temporary traffic control signal as specified above, will be included in the contract unit price per unit for “Portable Temporary Traffic Control Signal”.

Plotting Date: 11/05/2024

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	X104	X128





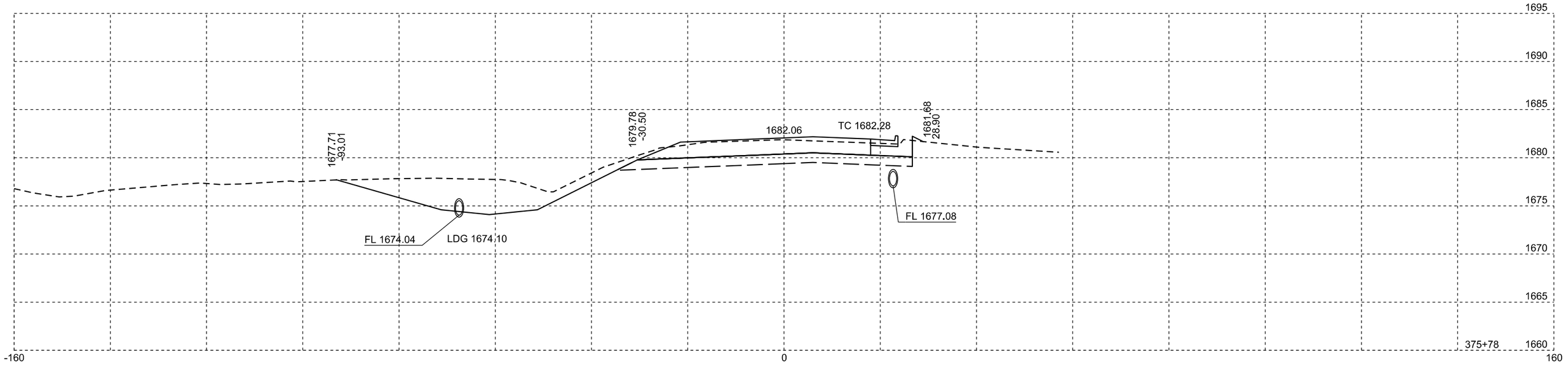
375+92.47-22.67' L
Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar
and Type B Frame & Grate
Top Curb El 1682.14
Top Wall El 1680.68
Floor El 1677.37

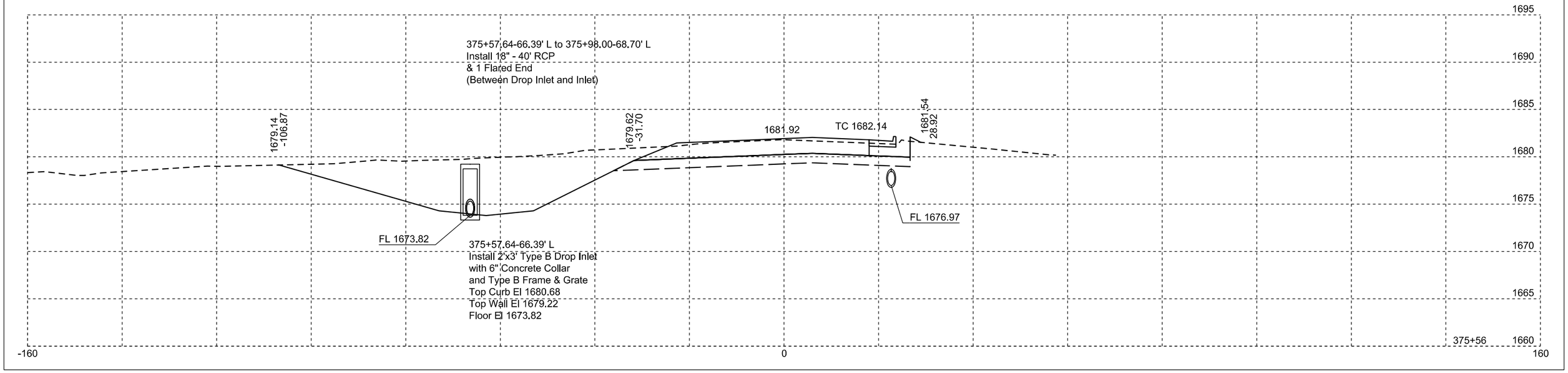
375+92.47-22.67' R to
375+92.47-22.67' L
Install 18" - 44' RCP
(Between Drop Inlets)

375+92.47-22.67' R
Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar
and Type B Frame & Grate
Top Curb El 1682.38
Top Wall El 1680.92
Floor El 1677.15

Plotting Date: 11/05/2024

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	X105	X128





Plotting Date: 11/05/2024

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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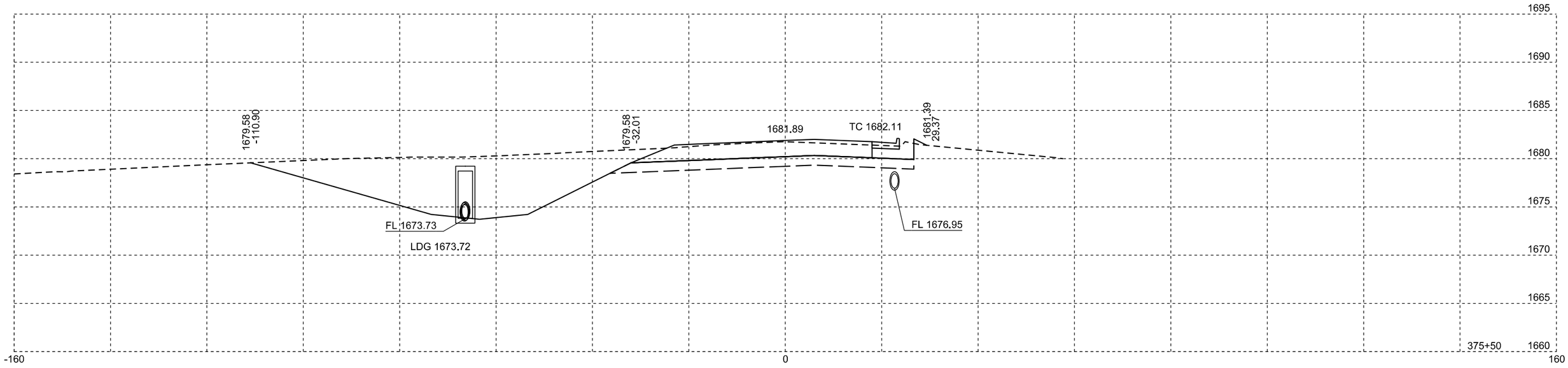

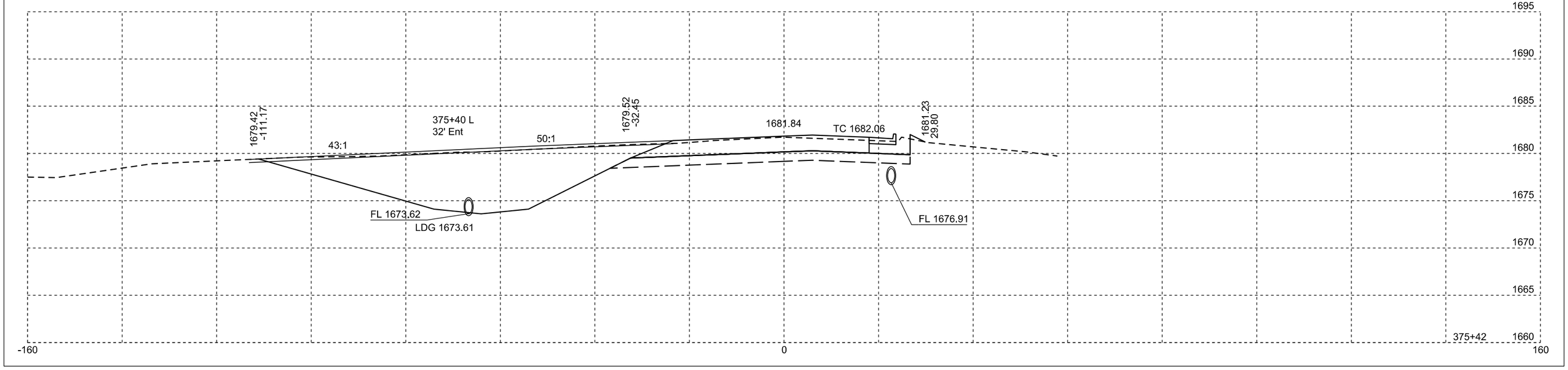

Plotting Date: 11/05/2024

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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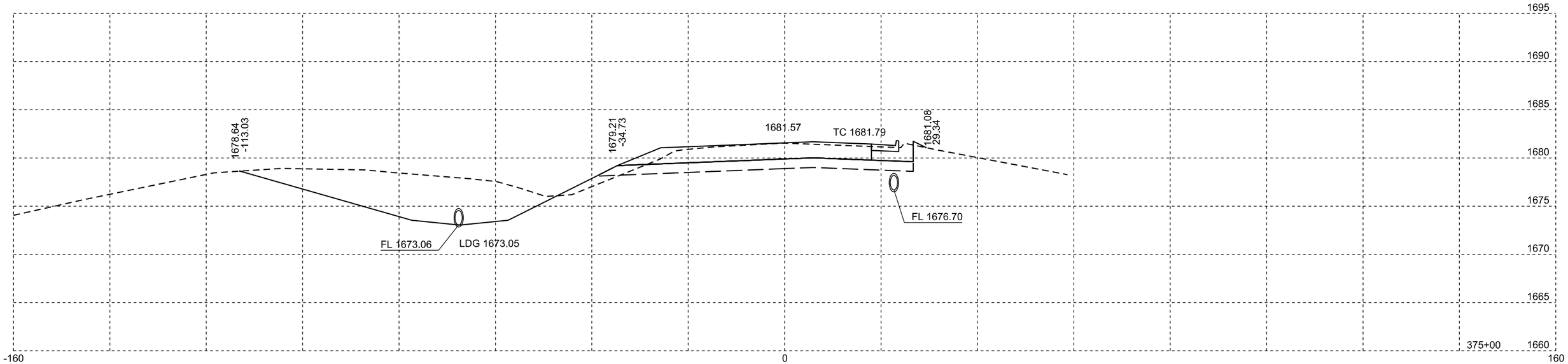

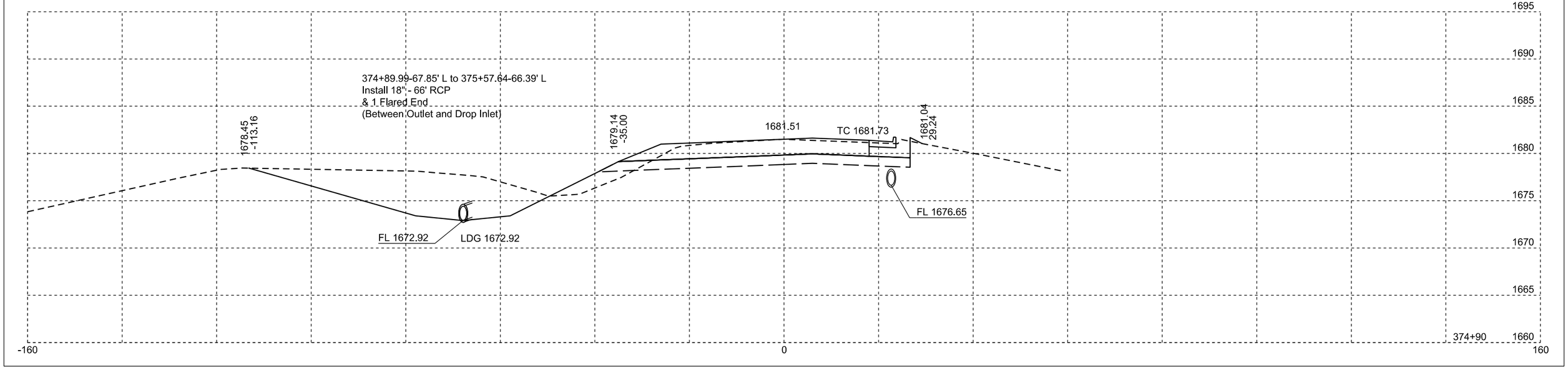

Plotting Date: 11/18/2024

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0034(193)402	Z2	Z4

Revised 11/18/2024 MS