



PROJECT IM 0901(209)14

Non

Plotting Date: 05/21/2024

**INDEX OF SHEETS** 

Sheet 1:	Title and Index
Sheet 2-4:	Estimate, Notes and Tables
Sheets 5-8:	Standard Plates





## **ESTIMATE OF QUANTITIES**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	17,100	Ft
621E0160	6' Chain Link Fence with Tension Wired Top	17,680	Ft
621E0410	Pedestrian Swing Gate	3	Each
621E0430	Double Vehicular Swing Gate	1	Each
621E0500	Modify Chain Link Fence	6,932	Ft
621E0510	Replace Chain Link Fence Fabric	846	SqFt
621E0512	Straighten Chain Link Fence Post	15	Each
621E0600	Chain Link Fence Post	9	Each
634E0110	Traffic Control Signs	32.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

#### **SPECIFICATIONS**

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

## **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/media/documents/EnvironmentalProceduresManual.pdf >

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 B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

#### COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

## **Action Taken/Required:**

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

## COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

#### Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

## 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:

Construction and/or demolition debris consisting of concrete, asphalt 1. 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.

6-1.13, and ARSD 74:27:10:06. 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.

	STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	IM 0901(209)14	2	8	

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-

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

## **COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES**

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) 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 100 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/THPO 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.

## 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.

Utilities are not planned to be affected on this project. If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25. the Contractor will contact the project engineer to determine modifications that will be necessary to avoid utility impacts.

## **REMOVE FENCE**

The Contractor will remove the existing right-of-way fence that is to be replaced as designated in the plans and/or as ordered by the Engineer. This includes all fencing, posts, brace panels, or anything pertaining to the existing fence. Upon removal all items other than tubular gates will become property of contractor.

Limited Access Security - All barbed wire fence removed during any one working day is to be replaced during the same day. Contractor is responsible for any and all livestock encountered anywhere along the fence being replaced. Control of livestock during the time that any fence is being replaced is the sole responsibility of the Contractor. All costs of this work and any temporary fencing will be incidental to the contract unit price for the various fence items.

The Contractor will coordinate with landowners to ensure cattle are contained on the landowner's property.

## **CLEARING**

Prior to installing right-of-way fence, the fence alignment will be cleared of all brush and various debris to allow for placement of new fence on existing alignment

The Contractor is responsible for visiting the project site and determining the amount of work involved with Clearing.

## FENCE ALIGNMENT

Where fence is being removed and replaced, fence will be installed on the same alignment as existing.

Fence posts may be adjusted so not to fall in the same hole from removed fence.

It will be the Contractor's responsibility to preserve the existing fence alignment.

New fence will be placed 51 feet from the centerline of the adjacent railroad tracks (equivalent to 1 foot inside the ROW line), as shown in plan details, or as directed by the Engineer.

New and existing fence will be tied to existing structures using the various Standard Plates, plan details, and as directed by the Engineer.

## GATES, WIDE DEPRESSIONS, AND STREAM CROSSINGS

Prior to submitting a bid the Contractor will inspect the project site and determine the number of gates, wide depressions, and stream crossings.

# **RESTORATION OF INSLOPES AND DITCHES**

Any slope area or ditch that is rutted or otherwise unduly disturbed during fencing operations will be restored and seeded by the Contractor, at no expense to the State.

# **MODIFY FENCE**

Modifying chain link fence will consist of removing the top rail and installing tension wire in its place. All work associated with modifying fence will be incidental to the contract unit price per foot for Modify Chain Link Fence.

The section of fence between MRM 31.6 and MRM 32 will not have the top rail removed. This section of fence has three-strands of barbed wire on top of the existing fence.

Contractor.

# **REPAIR FENCE**

# SURVEY MARKERS

Any survey markers that are damaged or destroyed during construction will be replaced by the Contractor at no additional cost to the State.

	STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	IM 0901(209)14	3	8	

The top rail removed during fence modification will become the property of the

From MRM 30 to MRM 33.1, eastbound and westbound, the chain link fence will be repaired as directed by the Engineer. The work will consist of straightening posts, replacing posts, and replacing fabric.

The corresponding bid items will be the basis of payment for the repair work.

Table of Right-of-Way Fence												
			Direction	Remove Fence	6' Chain Link Fence with Tension Wired Top	Swing	Pedestrian Swing Gate (4')	Replace Chain Link Fence Fabric		Chain Link Fence Post		Comments
MRM	to	MRM	E/W	(Ft)	(Ft)	(Each)	(Each)	(SqFt)	(Each)	(Each)	(Ft)	
14.90		15.36	WB	2620	2620	1						
16.46		16.66	WB	1060	1060							
16.67			WB	80	80							Between structures
16.67		18.20	WB	8000	8000							
18.84			WB	100	100							Between structures
18.85		19.08	WB	1245	1245							
19.09			WB	50	50		1					Between structures
22.98		23.60	WB	3825	3825							
30.36		30.45	WB		580							
30.45			WB	60	60		1					Between structures
30.48			WB	60	60		1					Between structures
30.00		33.10	WB					846	15	9	6932	
				17100	17680	1	3	846	15	9	6932	

## SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the 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.

# TRAFFIC CONTROL – GENERAL NOTES

Unless otherwise stated in these plans, no work will be allowed during hours of darkness.

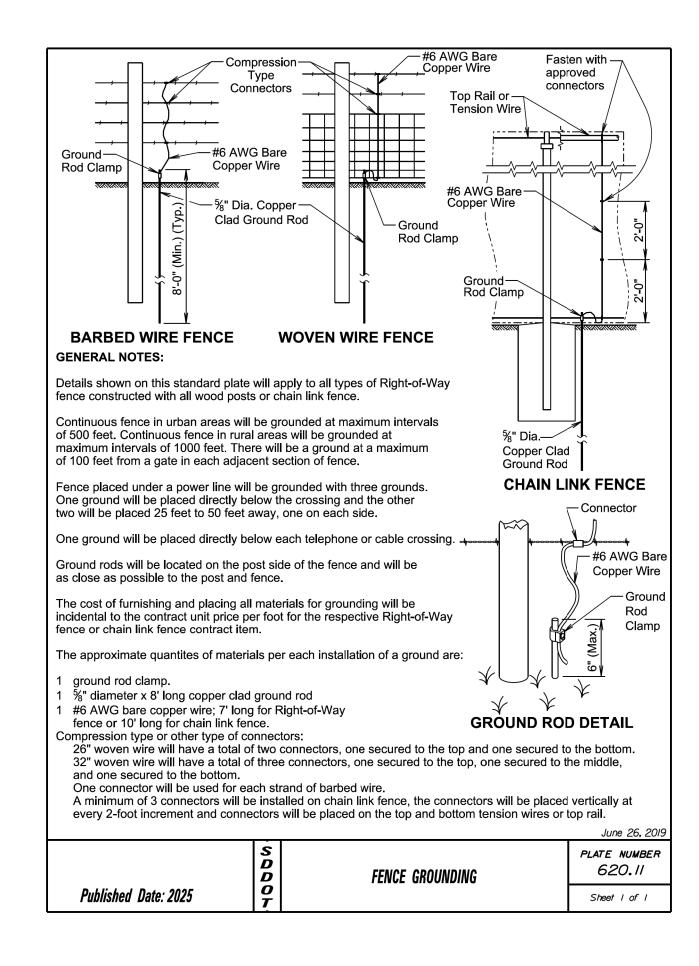
All haul trucks will be equipped with a second flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

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

# ITEMIZED LIST OF TRAFFIC CONTROL DEVICES

		Ð	PRESSWAY	/ INTERSTA	TE
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
			SWAY / INTE CONTROL SI		32.0

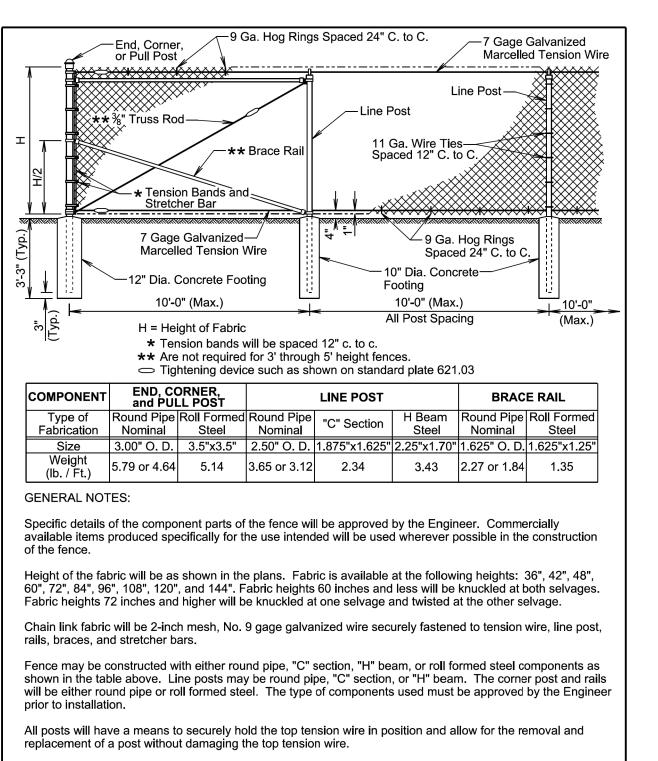
	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	STATE OF SOUTH DAKOTA	IM 0901(209)14	4	8 8
I				



SD DOT
Plotting Date:

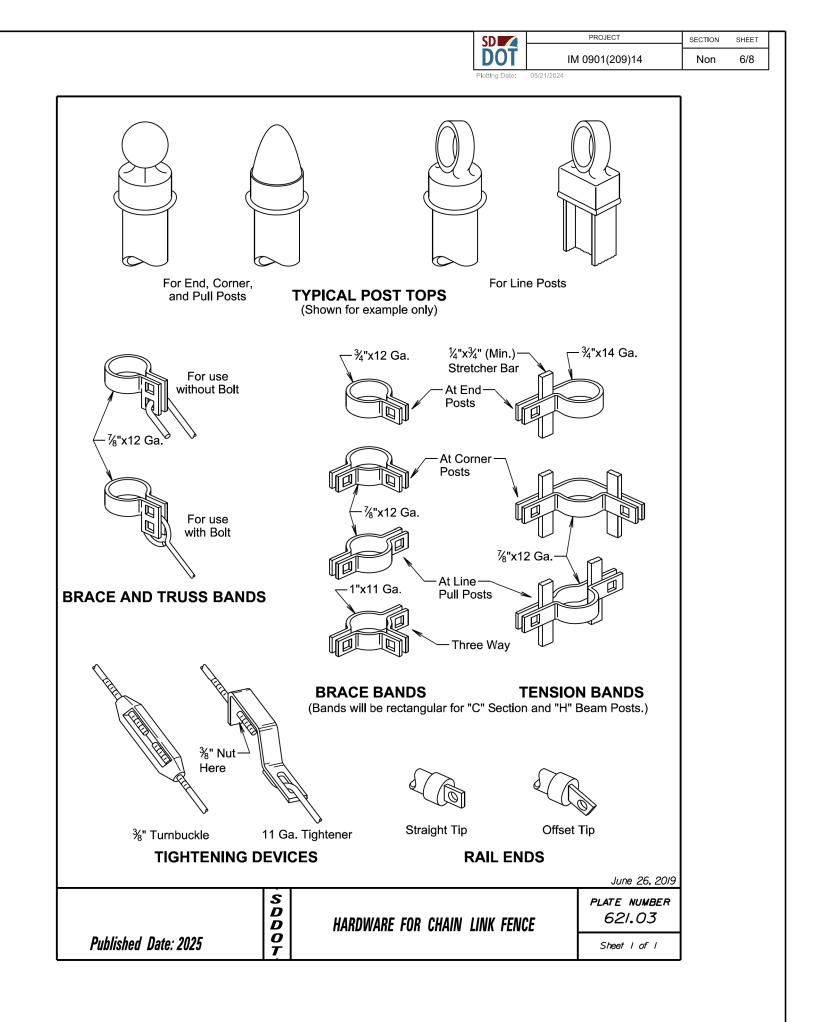
IM 0901(209)14

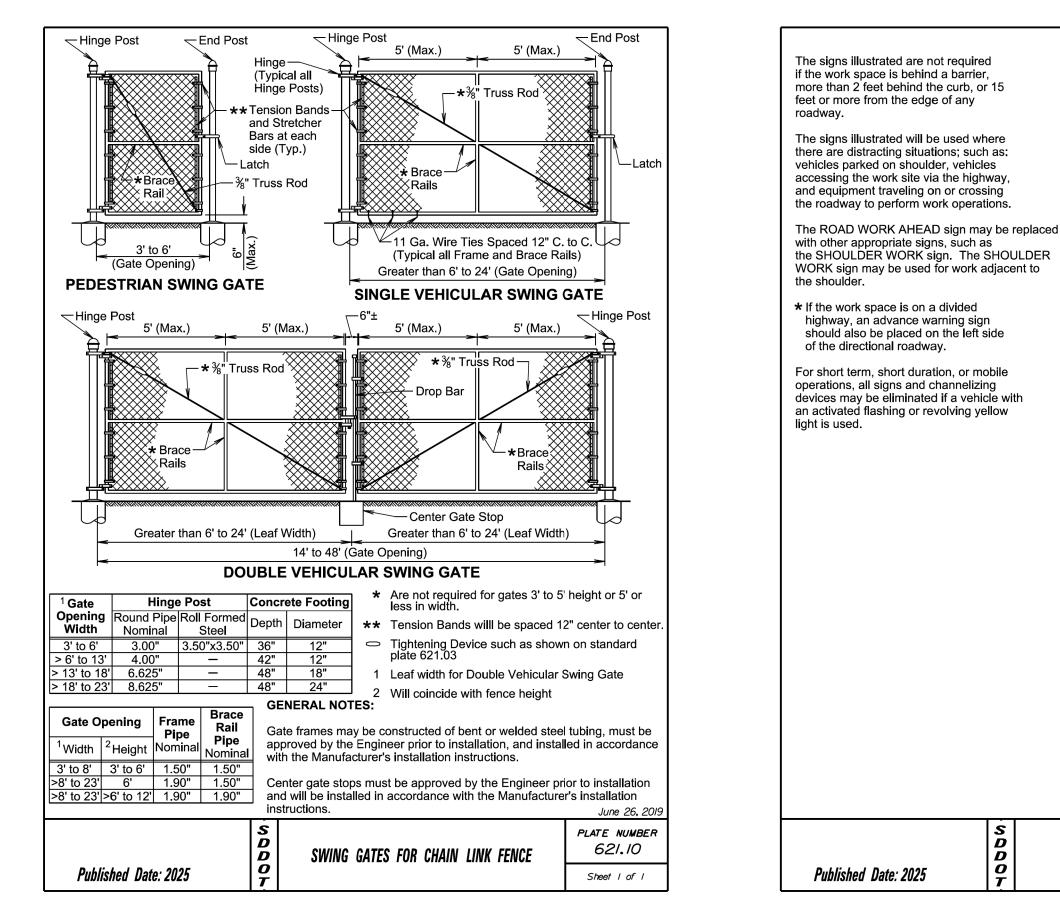
SHEET



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 between line posts.

Fence grounding will be as shown	November 19, 2022		
	S D D	CHAIN LINK FENCE WITH TENSION WIRED TOP	plate number 621.02
Published Date: 2025	0 T		Sheet I of I





\_\_\_\_\_



PROJECT

SECTION SHEET

Non 7/8

