STATE OF SOUTH DAKOTA PROJECT SHEET STATE OF SOUTH DAKOTA IM 0906(00)264 DEPARTMENT OF TRANSPORTATION Plotting Date: 18-0CT-2007 PLANS FOR PROPOSED PROJECT IM 0906(00)264 CHAMBERLAIN REST AREA **BRULE COUNTY** INDEX OF SHEETS Sheet 1: Title Sheet TOWER LIGHTING Sheet 2: Estimate of Quantities & Plan Notes PCN OIFQ Sheet 3: Traffic Control Sheet 4: Existing Topography Symbology & Legend Sheet 5: Conduit Layout Wiring Diagram Sheet 6: Footing Detail Sheet 7: **PROJECT** R 71 W 47U JI CHAMBERLAIN POP. 2,338 90 Loop 24 PROJECT 1M 0906/00/264 29 342 249 ST AVE 340 36 32 36 I-90 WEST BOUND DESIGN DESIGNATION 3845 6025 830 100% 11.5% 25.3% 250 ST 2

## **ESTIMATE OF QUANTITIES**

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
110E1550	Remove Light Tower	2	Each
250E0010	Incidental Work	Lump Sum	LS
634E0010	Flagging	4	Hour
634E0100	Traffic Control	68	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
635E7522	Install Light Tower	2	Each

# **SPECIFICATIONS**

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.

# **INCIDENTAL WORK**

Incidental work includes, but is not limited to, the restoration of all disturbed areas to the satisfaction of the Engineer.

## **REMOVE LIGHT TOWER**

The Contractor shall remove the existing light tower ET1 shown on the conduit layout.

The Contractor shall remove the lowering device and luminaires from light tower ET1 and the existing light tower lying on the ground located near the location of light tower T1.

After removing the lowering device and the luminaires the Contractor shall cut the poles into sections no larger than 20' in length. After the light towers are cut into sections the sections shall become the property of the Contractor.

All materials and labor required for the removal of the light tower, cutting the light towers into sections, and salvaging the lowering devices and luminaires shall be incidental to the contract unit price per each for "Remove Light Tower".

# **INSTALL LIGHT TOWER**

The Contractor shall install two 100 ft towers supplied by South Dakota Department of Transportation. The light towers shall be installed at locations T1 and T2.

The Contractor shall install the salvaged lowering devices and luminaires onto the state furnished poles. The luminaires shall be installed according to the wiring diagram.

All cost for installing the light tower, lowering device and luminaires shall be incidental to the contract unit price per each for "Install Light Tower".

#### **STATE FURNISHED LIGHT TOWERS**

Two 100' light towers will be furnished by the South Dakota Department of Transportation. The cost of the furnished light towers for tax reasons is \$11.852

# **DELIVERY OF POLES**

The light tower manufacturer will contact the Contractor with a date for delivery of the poles. The Contractor will be responsible for unloading the light towers when they are delivered to the rest area.

All cost for unloading the light towers shall be incidental to the contract unit price per each for "Install Light Tower".

# **MAINTENANCE OF TRAFFIC**

Removing, relocating, covering, salvaging and resetting of permanent traffic control devices, including delineation, shall be the responsibility of the Contractor. Cost for this work shall be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

Storage of vehicles and equipment shall be outside the clear zone and as near as possible to the right-of-way line or within the closed work space. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work.

Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

The Contractor shall provide documentation that all breakaway sign supports comply with FHWA NCHRP 350 crash-worthy requirements. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

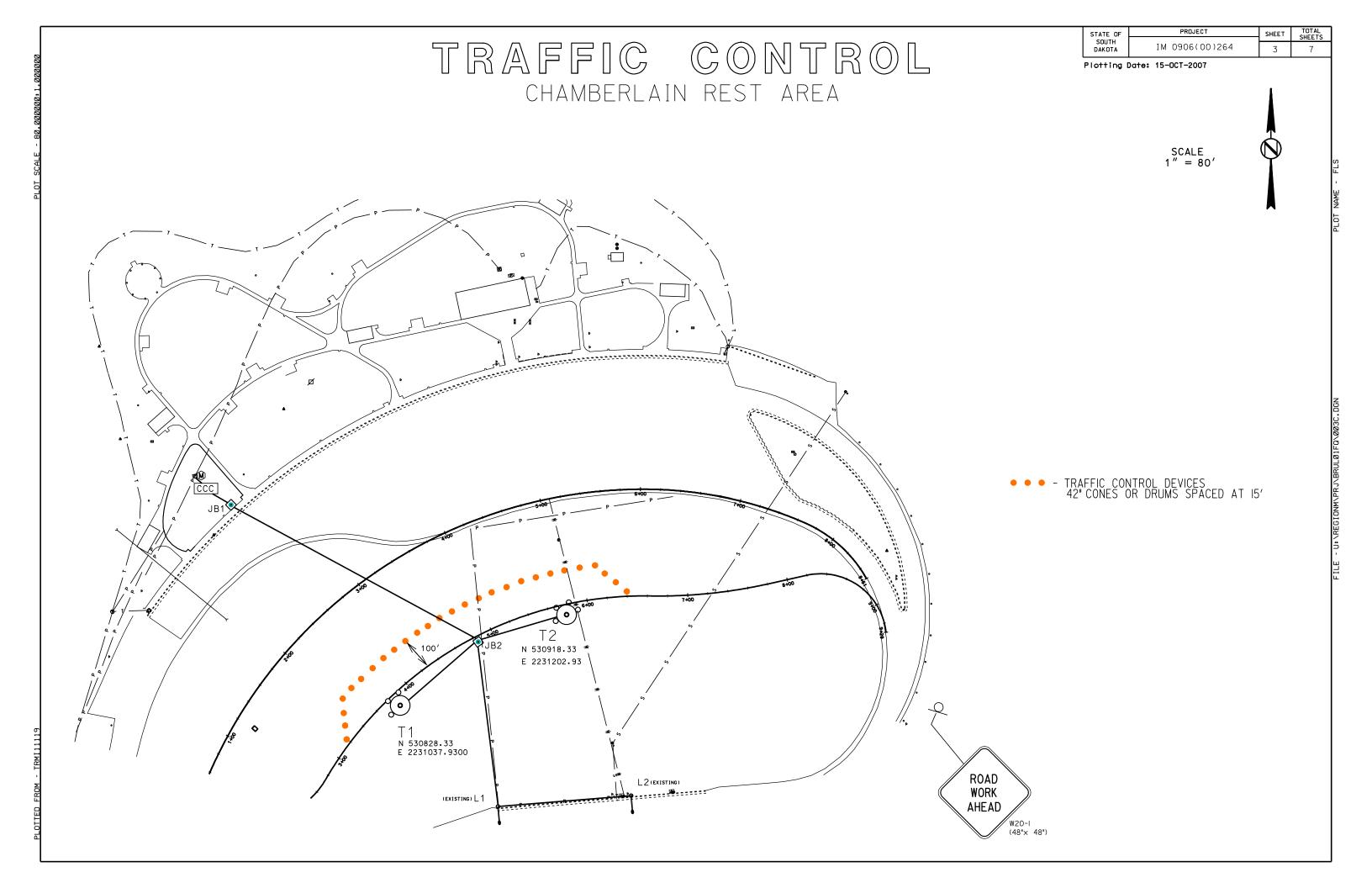
#### ITEMIZED LIST FOR TRAFFIC CONTROL

SIGN CODE	SIGN SIZE	DESCRIPTION	NUMBER Required	UNITS PER Sign	UNITS
W20-1 W20-7a		ROAD WORK AHEAD FLAGGER	1 1	34 34	34 34
TOTAL UNITS			68		

#### **COMPLETION DATE**

Work on this project shall be completed by May 16, 2008. After this date, working days will be counted and liquidated damages assessed I accordance with Section 8.7 of the Standard Specifications.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	IM 0906(00)264	2	7



Highway R.O.W. Marker

# EXISTING TOPOGRAPHY SYMBOLOGY Plotting Date: 20-SEP-2007

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	IM 0906(00)264	4	7

# AND LEGEND

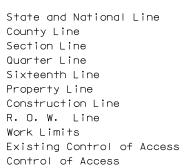
Anchor	$\leftarrow$
Antenna	<b>Ճ</b>
Approach	
Assumed Corner	<b>?</b>
Azimuth Marker	<b>&amp;</b>
Bbq Grill/ Fireplace	
Bearing Tree	<b>⊕</b>
Bench Mark	A
Box Culvert	
Bridge	
Brush	ಲವಾಬ
Buildings	
Bulk Tank	
Cattle Guard	<b>===</b>
Cemetery	+
Centerline	
Cistern	©
Clothes Line	
Commercial Sign Double Face	ä
Commercial Sign One Post	þ
Commercial Sign Overhead	l <del>ooo</del> l
Commercial Sign Two Post	þ 0
Concrete Symbol	### E
Creek Edge	
Curb/Gutter	
Curb	
Dam Grade/Dike/Levee	
Ditch Block	2000
Drainage Profile	<del></del>
Drop Inlet	
Edge Of Asphalt	
Edge Of Concrete	
Edge Of Gravel	
Edge Of Other	
Edge Of Shoulder	
Elec. Trans./Power Jct. Box	P
Fence Barbwire	
Fence Chainlink	
Fence Electric	<del></del>
Fence Misc.	<i></i>
Fence Rock	000000000000000000000000000000000000000
Fence Snow	
Fence Wood	
Fence Woven	<del></del>
Fire Hydrant	<b>∂</b> ₃
Flag Pole	ř
Flower Bed	777
Gas Valve Or Meter	<b>@</b>
Gas Pump Island	
Grain Bin	
Guardrail	0-0-
Gutter	111111
Guy Pole	9
Haystack	
Hedge	25523
11 * -   D O W 14 1	_

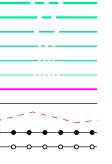
La Casarati de Cira Ora Basi
Information Sign One Post
Information Sign Two Post
Interstate Close Gate
Iron Pin
Irrigation Ditch
Lake Edge
Lawn Sprinkler Mailbox
Manhole Electric
Manhole Gas
Manhole Misc
Manhole Sanitary Sewer
Manhole Storm Sewer Manhole Telephone
Manhole Water
Merry-Go-Round
Microwave Radio Tower
Misc. Property Corner
Misc. Post
Overhang Or Encroachment
Overhead Utility Line
Parking Meter
Pipe With End Section
Pipe With Headwall
Pipe Without End Section
Playground Slide
Playground Swing
Power And Light Pole
Power And Telephone Pole
Power Meter
Power Pole
Power Pole And Transformer
Power Tower Structure
Propane Tank
Property Pipe
Property Pipe With Cap
Property Stone
Public Telephone Railroad Crossing Signal
Railroad Milepost Marker
Railroad Profile
Railroad R.O.W. Marker
Railroad Signs Railroad Switch
Railroad Track
Railroad Trestle
Rebar
Rebar With Cap
Reference Mark
Retaining Wall
Riprap
River Edge
Rock And Wire Baskets
Rockpiles
Route Sign One Post

Route Sign Two Post

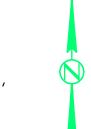


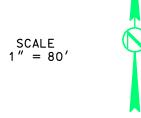
Satellite Dish
Septic Tank
Shrub Tree
Sidewalk
Sign Face
Sign Post
Slough Or Marsh
Spring
Stream Gauge
Street Marker
Telephone Fiber Optics
Telephone Junction Box
Telephone Pole
•
Television Cable Jct Box
Television Tower
Test Wells/Bore Holes
Traffic Signal
Trash Barrel
Tree Belt
Tree Coniferous
Tree Deciduous
Tree Stumps
Triangulation Station
Underground Electric Line
Underground Gas Line
Underground Sanitary Sewer
Underground Storm Sewer
Underground Tank
Underground Telephone Line
Underground Television Cable
Underground Water Line
Warning Sign One Post
Warning Sign Two Post
Water Fountain
Water Hydrant
Water Meter
Water Tower
Water Valve
Water Well
Weir Rock
Windmill
Wingwall
Witness Corner
State and National Line
County Line

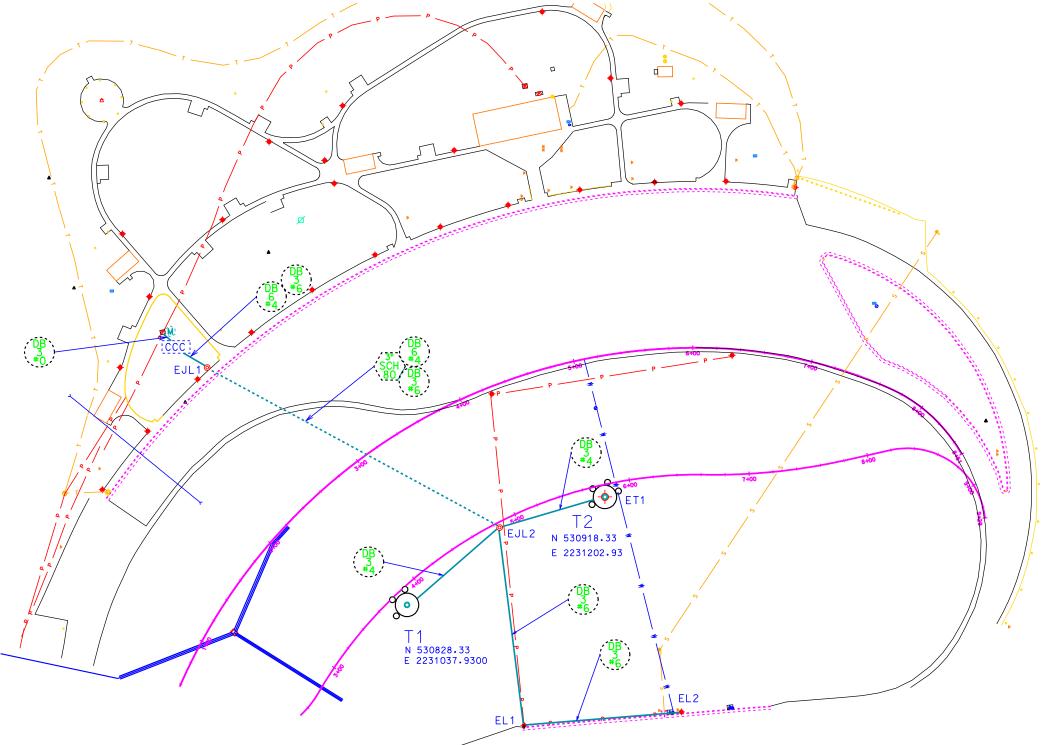




Plotting Date: 20-SEP-2007







	EXISTING ITEMS
KEY	ITEM
+	LUMINAIRE POLE (EL1,EL2)
0	ROADWAY LUMINAIRE, 1000 WATT
0	3' DIAMETER FOOTING (T1,T2)
0	JUNCTION BOX (EJL1,EJL2)
[CCC]	CIRCUIT CONTROL CENTER
3 SCH 80	3" RIGID CONDUIT, SCHEDULE 80
BO D#	1/C #O AWG DIRECT BURIAL COPPER WIRE
DB #4	1/C #4 AWG DIRECT BURIAL COPPWE WIRE
B6 D#	1/C #6 AWG DIRECT BURIAL COPPER WIRE
ÚŅ.	METER SOCKET (NOT A BID ITEM)

	ESTIMATE OF QUANTITIE	S	
KEY	ITEM	EST QUANT	UNIT
<b>-</b>	REMOVE LIGHT TOWER (ET1)	2	EACH
٩	INSTALL LIGHT TOWER (T1,T2)	2	EACH

