

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
635E2500	Span Wire Pole	1	Each
635E5360	Surface Mounted Junction Box	1	Each
635E5400	Electrical Service Cabinet	1	Each
635E8140	4" Rigid Conduit, Schedule 40	20	Ft
635E9424	24/C #12 AWG Copper Tray Cable, K2	30	Ft
635E9600	#16 AWG Copper Twisted Shielded Pair	30	Ft
635E9806	6/C Communication Cable	30	Ft

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2004 Edition, and Required Provisions, Supplemental Specifications, and/or Special Provisions as included in the Proposal, the current edition of the FHWA Manual on Uniform Traffic Control Devices, and all national and local electrical codes.

GENERAL

The Contractor shall repair temporary traffic signal system at the intersection of Deadwood Ave. (SD445) and Interstate 90 Eastbound Ramps (Exit 55) in Rapid City, SD.

SPAN WIRE

The existing span wires and tether line have been cut at the SW corner pole location during the clean-up of a traffic accident. The Contractor shall adjust location of the new SW corner pole and repair the span wires and tether lines so that the existing can be reused.

The overhead traffic signal span wire shall be installed so that the signal heads are at a height of 17'-9" to 18'-9" above the roadway surface. Expansion or contraction of the span wire due to temperature should be considered when determining the height of the traffic signal heads. A tether line shall secure the bottom of the traffic signal heads to prevent excessive movement due to strong winds.

One guy wire shall be installed on the new SW corner support pole. The Contractor shall determine if additional guy wires are required.

INCIDENTAL WORK

Incidental work shall include the following:

- 1. Restoration of all disturbed areas to the satisfaction of the Engineer.
- 2. Repair of span wire cable and tether line.
- 3. Field splicing of all electrical to repair to working order.
- 4. Holes shall be backfilled to the satisfaction of the Engineer.
- 5. Install 1 Class 5 treated wood support poles.
- 6. Furnish and Install Miscellaneous Signal Parts.

MISCELLANEOUS SIGNAL PARTS

Miscellaneous signal parts include the following items to be furnished and installed:

- 1. Guy Wire (including required pole attachments and misc. hardware)
- 2. Ground Rod (5/8"x10") and Clamps
- 3. Signal support wire required pole attachments

All other miscellaneous items such as reducers, copper ground wire, grips, connectors, fasteners, fuses, couplings, and any other materials required to adequately repair the Temporary Traffic Signal System.

SURFACE MOUNT JUNCTION BOXES

The Contractor shall furnish and install 1 Side Hinged 12"x12"x6" J-Box (Hoffman A-12R126HCR or approved equal). Contractor shall mount these boxes at same elevation as the top of signal heads +/- 1 foot.

CONDUIT INSTALLATION

The Contractor shall expose enough conduit between JB#8 and Pole H to removed damaged conduit and splice on with new. New conduit will be installed up Pole H with new weather-head to be terminated near the top of the surface mount junction box.

PULL WIRE

The Contractor shall re-install a 1/c #10 pull wire in the conduit as shown on the conduit layout between JB#8 and the surface mount junction box on Pole H.

TRAFFIC CONTROL & SEQUENCE OF OPERATIONS

Traffic Control will be provided by the State and shall be coordinated by the Engineer.

- 1. No work activities will be permitted after dark.
- 2. The Contractor shall protect pedestrian traffic from open excavations and other hazards with orange safety fence as approved by the Engineer.
- 3. All equipment and materials shall be stored a minimum of 30' from edge of traveled lanes or protected by means of placement of a minimum of 3' behind existing guardrail.

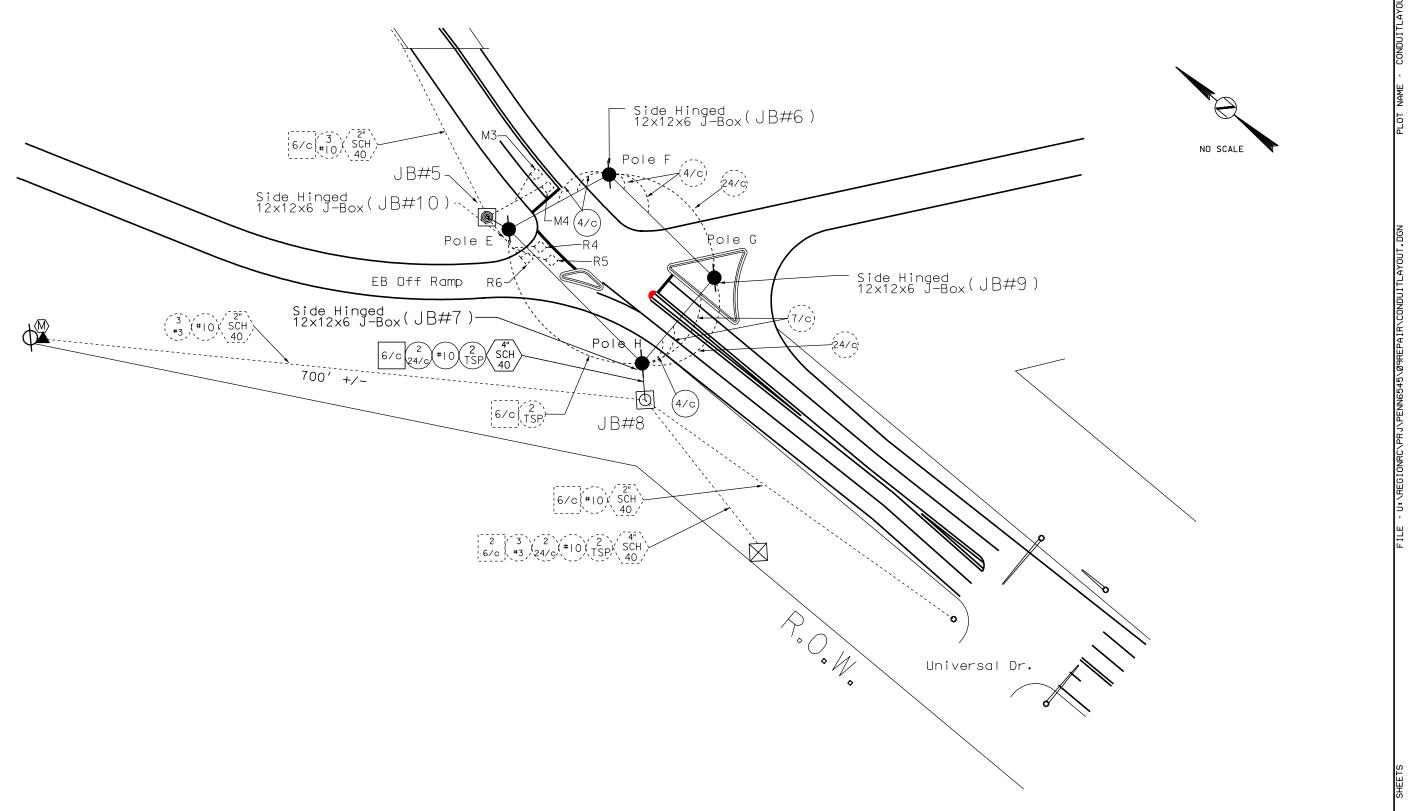
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	090E-452	2	7

STATE OF SOUTH DAKOTA 090E - 452 SITE PLAN Plotting Date: 07-JUL-2009 Revise Date: - -Initials: EXIT 55 -West Bound-S 39°14′E 260 265 270 -East-Bound-R.O.W. R.O.W. Existing — Controller * Guy anchor to be placed a minimum of 25' from support pole.

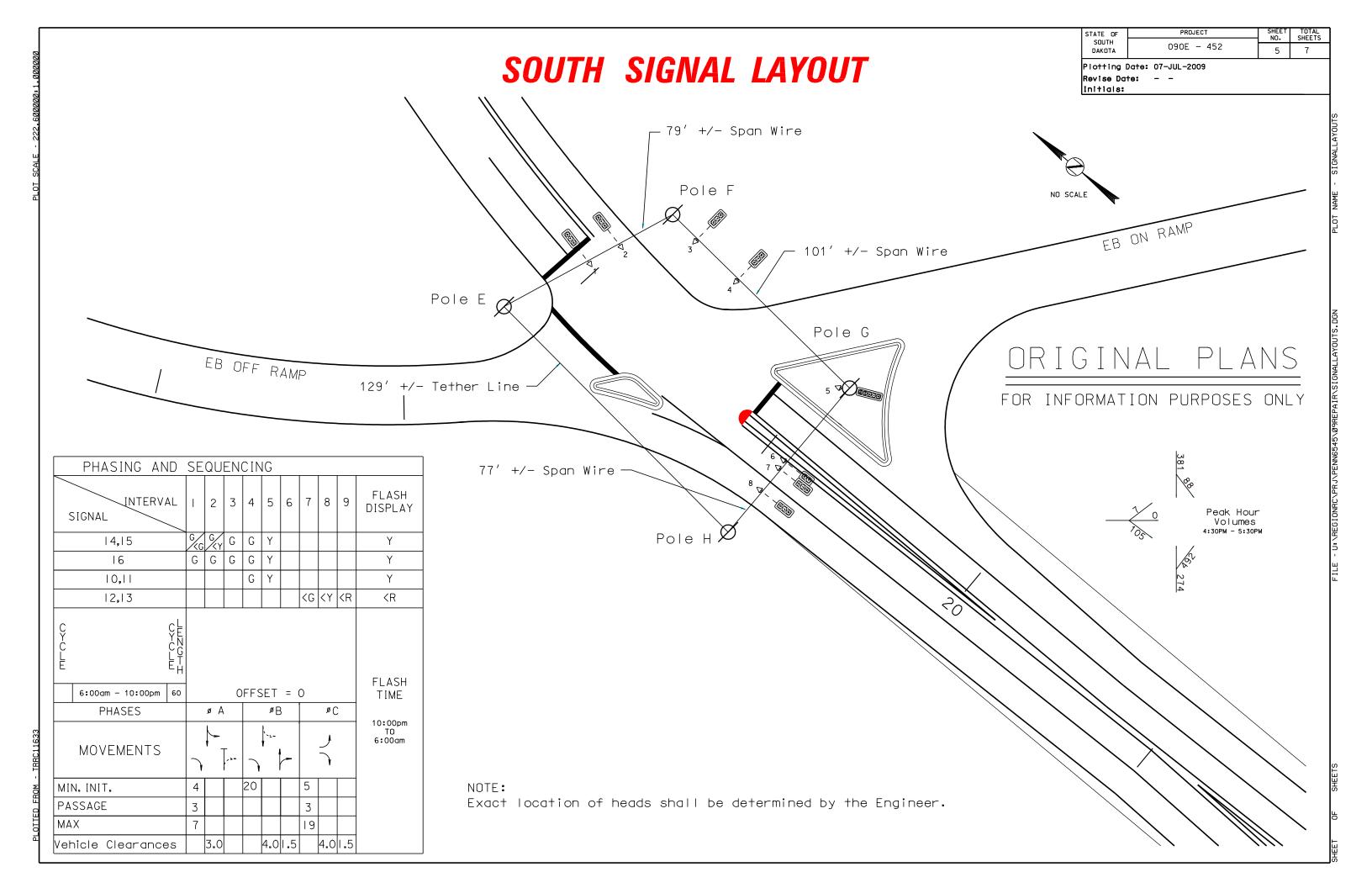
STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	090E - 452		7

Plotting Date: 07-JUL-2009

Revise Date: - -Initials:



LTED FROM - TRRC11633



SOUTH AS-BUILTS WIRING NOTES

STATE OF 090E - 452

Plotting Date: 07-JUL-2009

Revise Date: - -Initials:

Pole "E" (NW Corner)

Loops for: Phase 4 & Phase I Communication line spliced here also. No signal head splices here.

Pole "F" (NE Corner)

12/c

Pole "H" (SW Corner)

Here is where the 25/c from Controller and the two (2) 12/c cables, loops, & communication line will be spliced

ORIGINAL PLANS

FOR INFORMATION PURPOSES ONLY

