

Section L: Lighting Plans

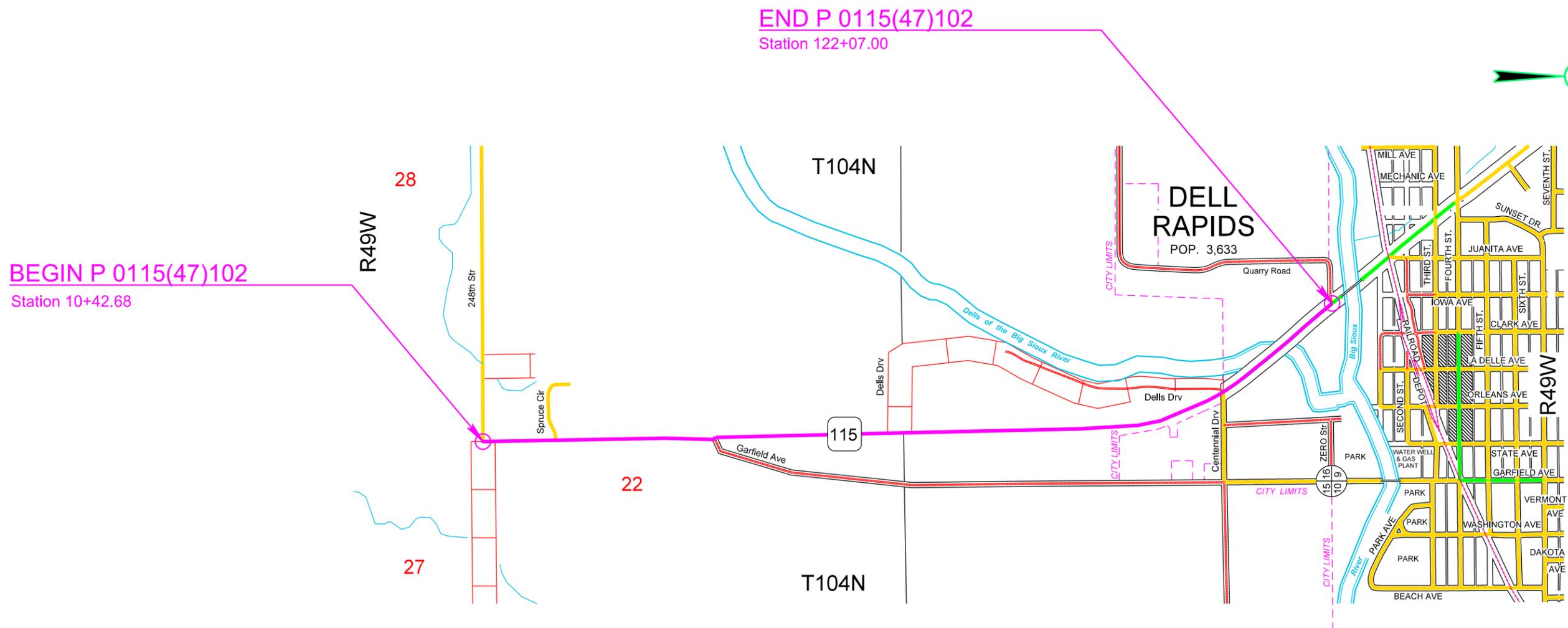
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0115(47)102	L1	L7

Plotting Date: 11/19/2015

INDEX OF SHEETS

- L1 General Layout With Index
- L2-L3 Estimate With General Notes & Tables
- L4-L5 Conduit Layouts
- L6-L7 Standard Plates

Plot Scale - 1:200



SECTION L ESTIMATE OF QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0115(47)102	L2	L7

Plotting Date: 01/25/2016 Revised Date: 01/25/2016 NL

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E5302	Type 2 Electrical Junction Box	2	Each
635E8120	2" Rigid Conduit, Schedule 40	50	Ft

ANCHOR BOLTS AND CONDUIT FOR FUTURE LIGHTING

Existing luminaire pole EL1 shall be removed and reset as REL1 during the construction of future project P 0115(51)104 and as shown on the plan sheets. The Contractor shall coordinate with the pole manufacturer to determine the necessary anchor rod dimensions for REL1. The new anchor rod dimensions shall conform to Section 972.2 C of the Specifications. Manufacturer certification of the anchor rod design shall be provided to the Engineer.

The poles were originally installed under Project P 0015(00)103, Drawing No. 460B110. The contact information for the light pole manufacturer is shown below:

Millerbernd Manufacturing
P.O. Box 98
Winsted, MN 55395
(320) 485-2111

The Contractor shall coordinate the placement of the anchor rods for REL1 in Pier 5 with the Bridge Contractor.

All costs involved with furnishing and installing the 2" Rigid Galvanized Steel Conduit shall be incidental to the contract unit price per foot for "2" Rigid Galvanized Steel Conduit." Refer to Section E for payment and installation information for the 2" Rigid Galvanized Steel Conduit.

1:200

Plot Scale -

trp14341

Plotted From -

File - ...apj\mim025C\NotesSectionL.dgn

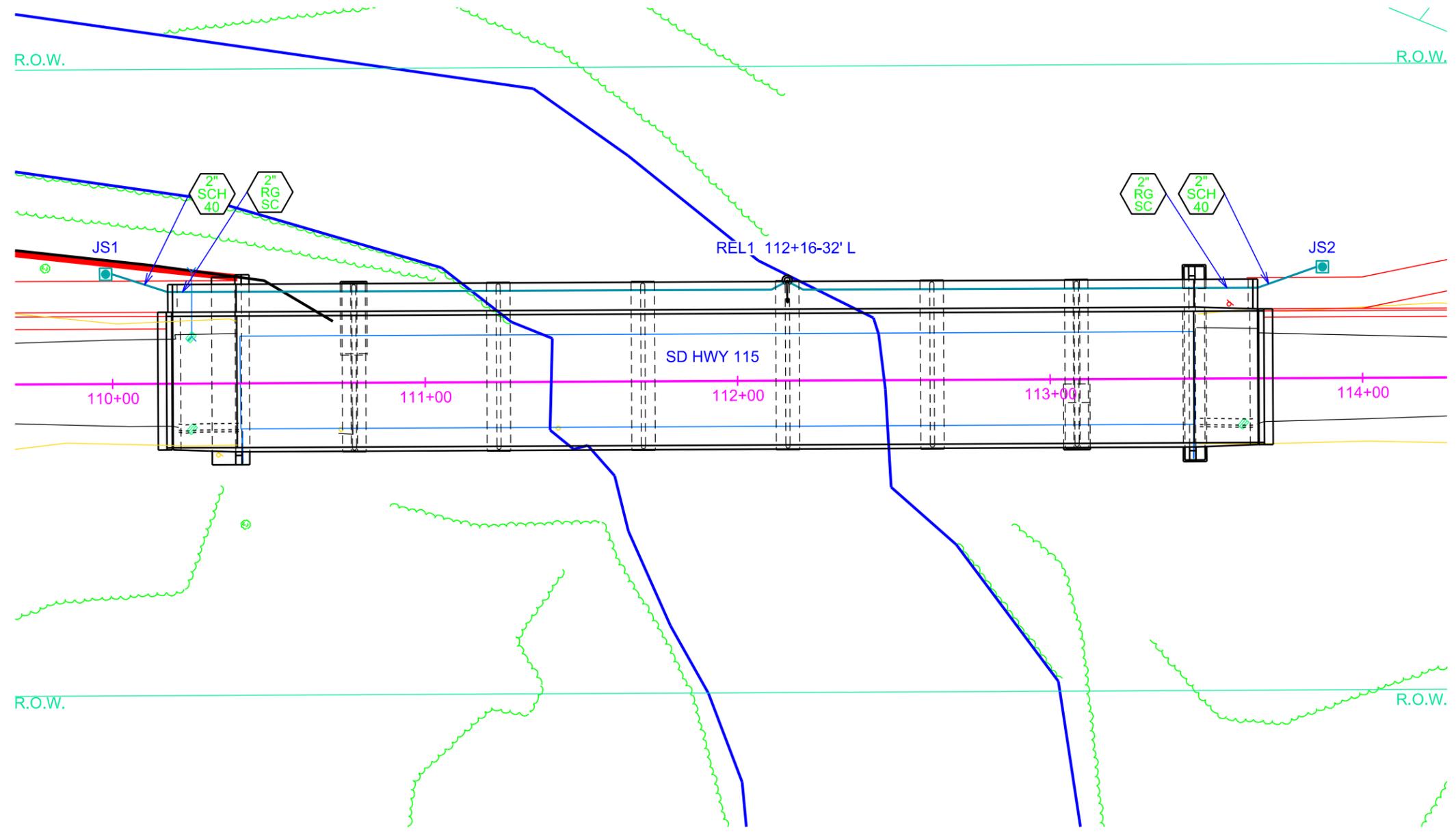
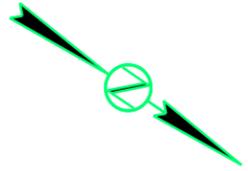
CONDUIT LAYOUT SD HWY 115

STATE OF SOUTH DAKOTA	PROJECT P 0115(47)102	SHEET L4	TOTAL SHEETS L7
-----------------------	--------------------------	-------------	--------------------

Plotting Date: 11/05/2015

ESTIMATE OF QUANTITIES			
KEY	ITEM	EST QUANT	UNIT
■	Type 2 Electrical Junction Box (JS1-JS2)	2	EACH
⬡ 2" SCH 40	2" Rigid Conduit, Schedule 40	50	FT
⬡ 2" RG SC	2" Rigid Galvanized Steel Conduit	360	FT

SCALE
1" = 40'



Plot Scale - 1"=40'

Plotted From - tpr14341

File - U:\trp\jimm\0250\110c.dgn

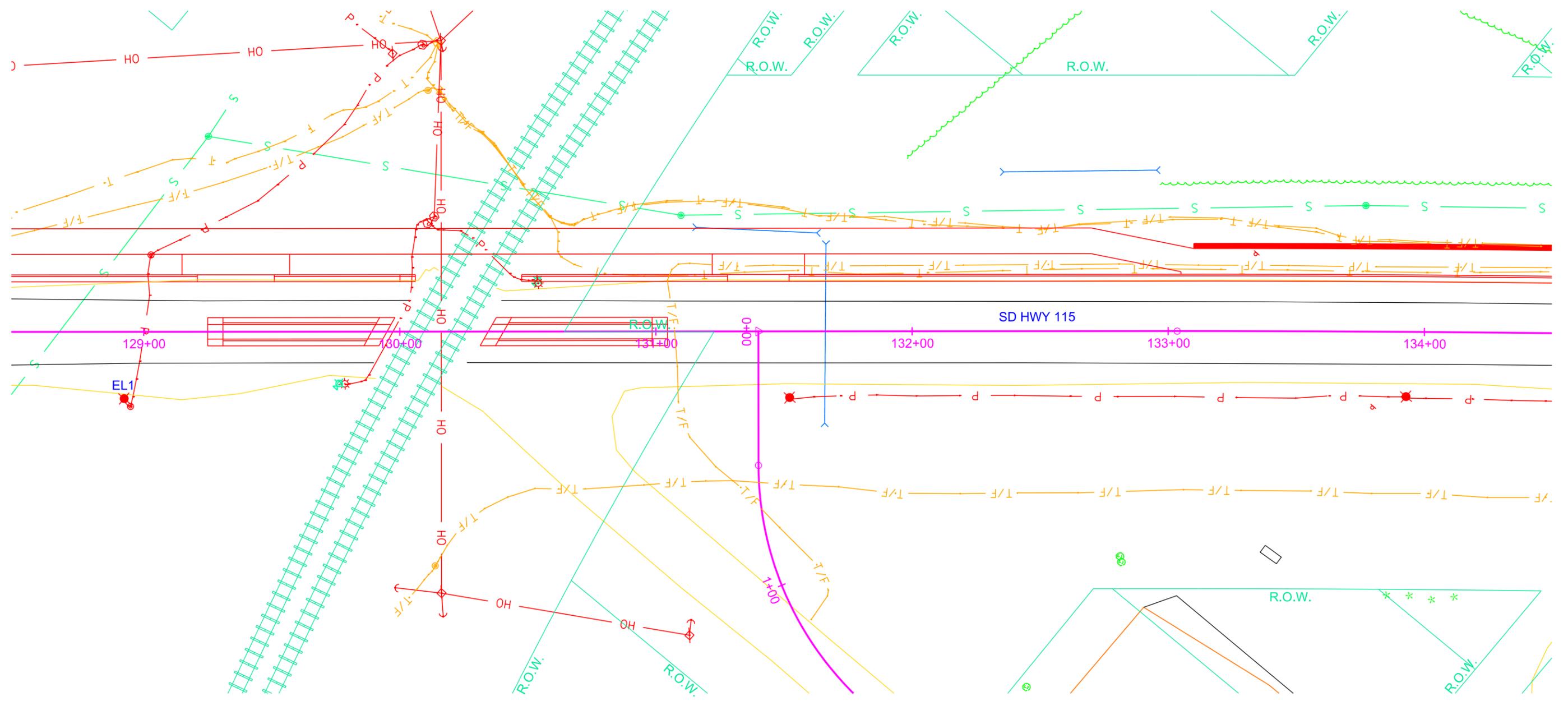
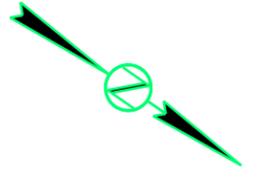
CONDUIT LAYOUT

SD HWY 115 (Existing Luminaire EL1)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0115(47)102	L5	L7

Plotting Date: 11/09/2015

SCALE
1" = 40'

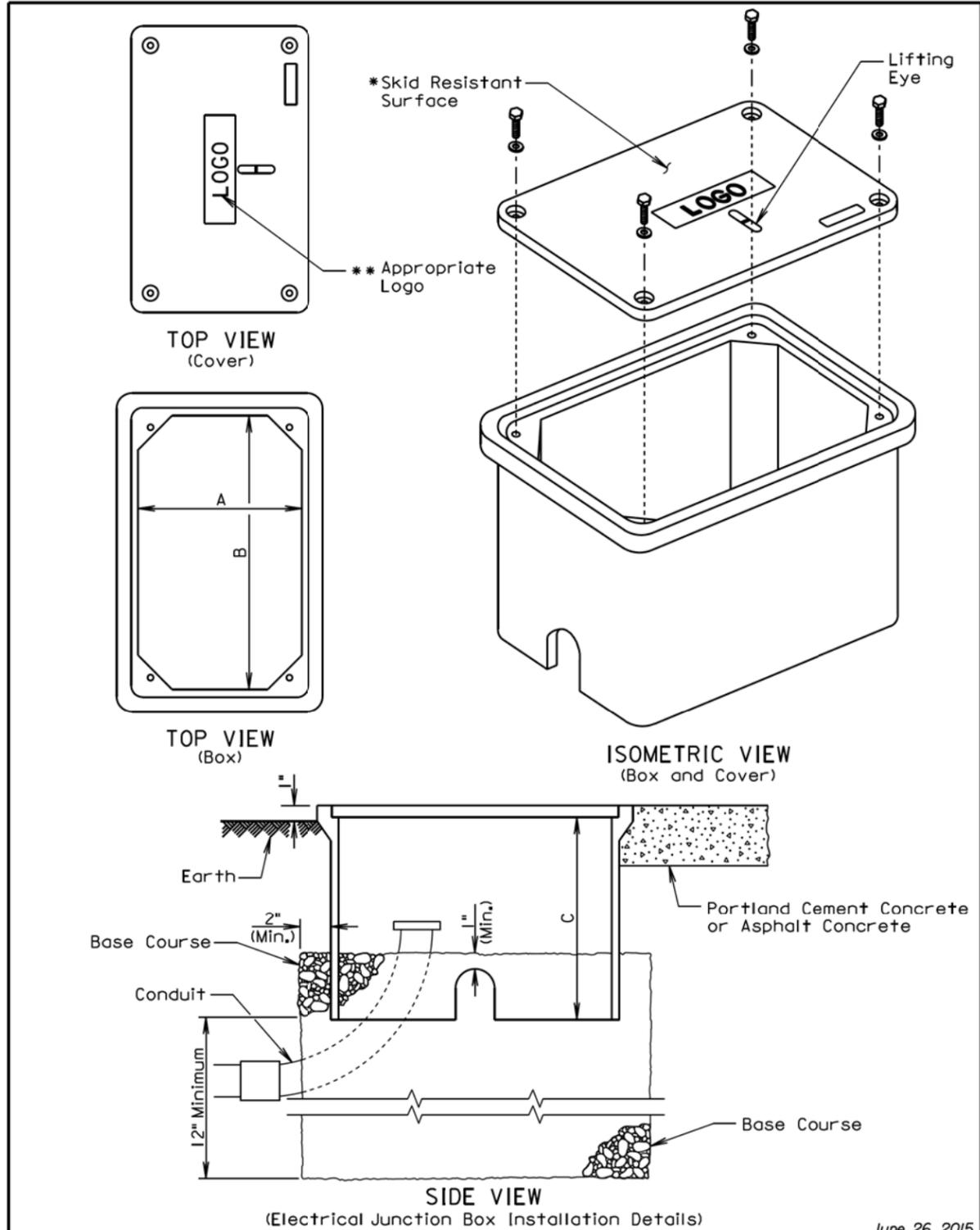


Plot Scale - 1:40

Plotted From -

File - U:\proj\mnm0250129c.dgn

Plot Scale - 1:200



June 26, 2015

S D D O T	ELECTRICAL JUNCTION BOXES TYPE 1 THROUGH TYPE 4	PLATE NUMBER 635.65
		Sheet 1 of 2

Published Date: 4th Qtr. 2015

ELECTRICAL JUNCTION BOX				
TYPE	DESCRIPTION	DIMENSIONS		
		A	B	C
1	Open Bottom with Gasket	11"-15"	18"-21"	18" (Min.)
2	Open Bottom with Gasket	13"-18"	23"-28"	18" (Min.)
3	Open Bottom with Gasket	17"-22"	24"-30"	18" (Min.)
4	Open Bottom with Gasket	28"-33"	36"-48"	24" (Min.)

GENERAL NOTES:

The cover shall be gasketed with a minimum of two stainless steel bolts and washers.

The cover shall have a lifting eye.

*The surface of the cover shall have a minimum wet and dry coefficient of friction value of 0.5 as determined by ASTM F 609.

**The cover of the junction box shall have the appropriate logo in one inch size letters and shall be recessed. When the junction box contains cables or wires for a traffic signal then the logo shall be "Signal". When the junction box contains lighting conductors then the logo shall be "Lighting".

The electrical junction boxes shall comply with the American National Standards Institute (ANSI)/Society of Cable Telecommunications Engineers (SCTE) 77 2007 Specification for Underground Enclosure Integrity. The loading requirement for all the electrical junction boxes shall be Tier 8 of ANSI/SCTE 77 2007.

The electrical junction boxes shall be UL listed.

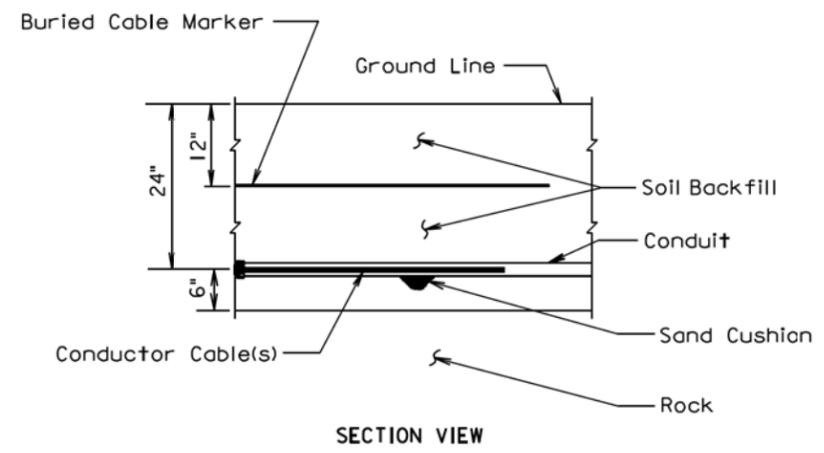
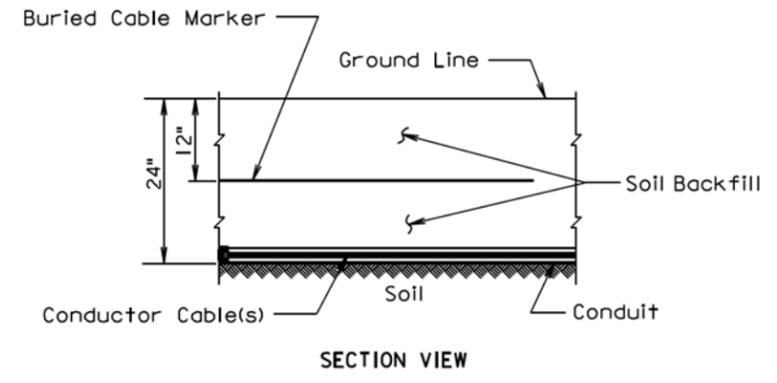
June 26, 2015

S D D O T	ELECTRICAL JUNCTION BOXES TYPE 1 THROUGH TYPE 4	PLATE NUMBER 635.65
		Sheet 2 of 2

Published Date: 4th Qtr. 2015

- Plotted From - tpr14341

File - ...min025C\63565_1s63565_2.dgn



GENERAL NOTE:

The Buried Cable Marker shall be plastic, approximately 6" wide, and shall be capable of sustaining a minimum of a 350% tolerance of elongation without tearing. The Buried Cable Marker shall have a life expectancy approximately equal to that of the conductor(s) beneath it. A phrase indicating the presence of a buried electric circuit below shall be printed in a contrasting color on the cable marker. The Buried Cable Marker shall be subject to approval by the Engineer. All costs associated with furnishing and installing the Buried Cable Marker shall be incidental to the contract unit price per Foot for the bid item used for the electrical conductor.

March 31, 2000

S D D O T	CONDUIT INSTALLATION	PLATE NUMBER 635.76
		Sheet 1 of 1

Published Date: 4th Qtr. 2015

Plot Scale - 1:200

-Plotted From- tpr14341

File - U:\traj\jmm\0250\as63576.dgn