

	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	NH 0018(231)339	L1	L9
	Plotting Date:	11/12/2024		
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END NH 018(231)339 Station 51+50.00

SECTION L ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E0040	Breakaway Base Luminaire Pole with Arm, 40' Mounting Height	2	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	2	Each
635E5020	2' Diameter Footing	16.0	Ft
635E5301	Type 1 Electrical Junction Box	1	Each
635E5400	Electrical Service Cabinet	1	Each
635E8120	2" Rigid Conduit, Schedule 40	180	Ft
635E8220	2" Rigid Conduit, Schedule 80	75	Ft
635E9018	1/C #8 AWG Copper Wire	855	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	120	Ft

SUPPLYING AS BUILT PLANS

If the roadway lighting systems is constructed differently than what is stated in the plans, the Contractor will supply as built plans to the Engineer and a copy will be sent to the Traffic Design Engineer. The as built plans may include conduit layouts, wiring diagrams, or other drawings depicting the changes from the original plans.

SHOP DRAWING AND CATALOG CUTS SUBMITTALS

The Contractor will submit shop drawings and catalog cuts in accordance with Section 985 of the Specifications.

PDF submittals will be sent to the following email addresses:

Ryley.Rapp@state.sd.us Stacy.Bartlett@state.sd.us

LUMINAIRE POLES

Luminaire poles L1 to L2 will have a mounting height of 40-foot with 10-foot arms.

The pole fabricator will be responsible for the determining the diameter, length, and number of anchor bolts.

LUMINAIRES

The lighting design used the following parameters and provides 1.1 and greater average maintained foot-candles and uniformity ratios of 3:1 (average maintained to minimum maintained foot-candles) and 5:1 (maximum to minimum maintained foot candles):

Pole Setback:	11 Ft. from edge of shoulder
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	40 Ft.
Luminaire Cycle Length:	NA
Configuration:	Staggered
Mounting Height:	40 Ft.
Arm Length	10 Ft.
Light Source:	LED

The following LED luminaires, or an approved equal, meet the requirements for this design:

- a.) AEL Autobahn: ATBO-P304-MVOLT-R2-P7
- b.) GE Evolve ERL2-0-18-A5-40-A

TABLE OF FOOTING DATA

Site	Footing	* Footing	**Spiral	**Spiral	Vertical
Designation	Diameter	Depth	Diameter	Length	Reinforcement
L1-L2	2' - 0"	8' - 0"	1' - 8"	54' - 9"	

* Footing depth will be below ground level.

** The size of all spirals will be #3.

SUBSURFACE

Installation of the footings will take place in an area where the road grade was raised with granular material. Within the raised section, layers of geogrid wrap are present. Installation is not expected to encounter geogrid; however, if drilling does intercept the geogrid, stop drilling operations and contact the Office of Road Design.

Prior to drilling the footings, the crushed rock slope protection and underlying riprap will be removed from the ground surface.

Permanent steel casing of at least 4 feet in length will be required during drilling to prevent surrounding rock from entering the boring.

Following placement and curing of the footing, the rock will be replaced, and soil cover will be placed to re-establish a 4:1 slope.

Concrete will not be dropped through standing water. If water is present in the excavation, it will be removed prior to concrete placement, or the concrete will be tremied.

WIRE SPLICING FOR LIGHTING

All wire splices for lighting will be made using TE Connectivity GTAP connectors, NSI Industries Polaris Blue connectors, or an approved equal.

EXISTING UTILITY LUMINAIRE POLE EL1

The Contractor will contact Northwestern Energy to have them remove the existing luminaire pole EL1 prior to the construction of the new luminaire poles. The Contractor will give Northwestern Energy a minimum of 2 weeks' notice prior to the start of construction. Contact information:

Robert Gehm Northwestern Energy 605-668-4602

Photoelectric Cell".

STATE OF	PROJECT	SHEET	TOTAL SHEETS
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Plotting Date:	11/12/2024		

Plotting Date:

The cost for the Contractor to contact and coordinate the removal of pole EL1 will be incidental to the contract unit price for "Roadway Luminaire, LED with

CONDUIT AND CABLE QUANTITIES

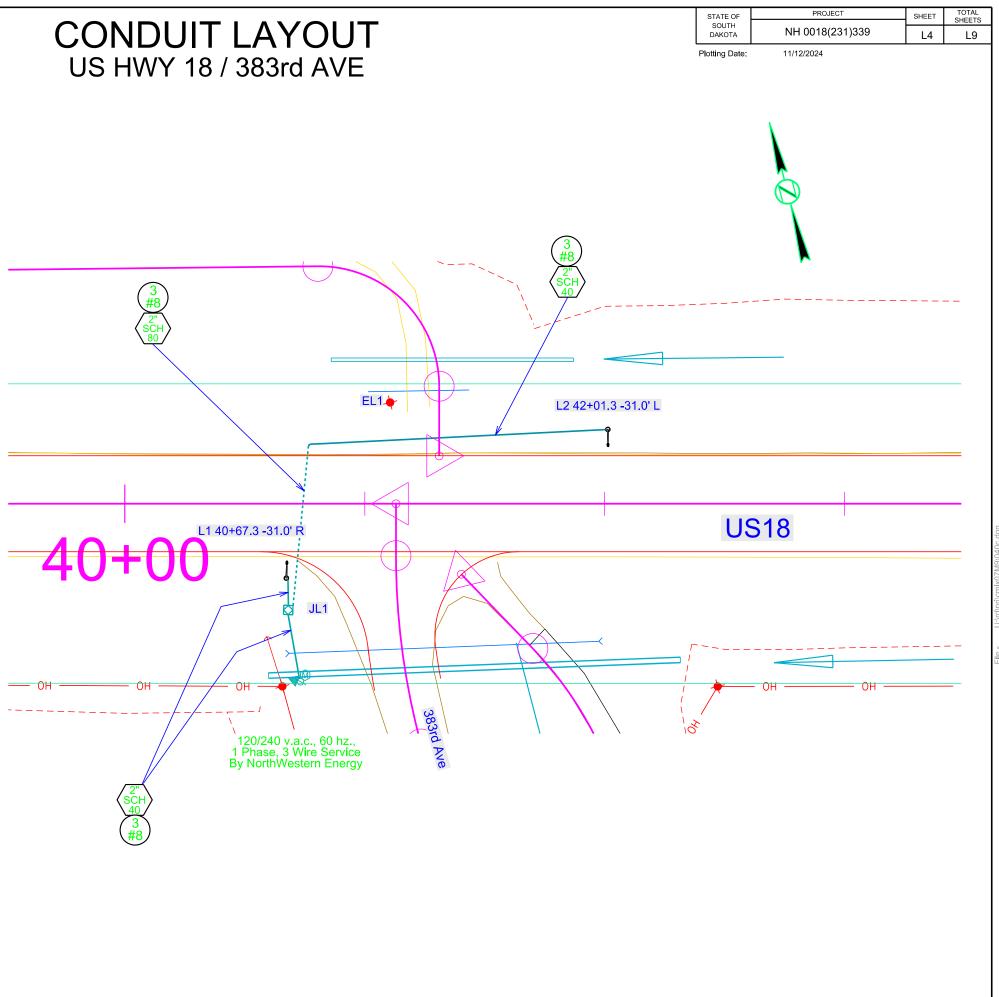
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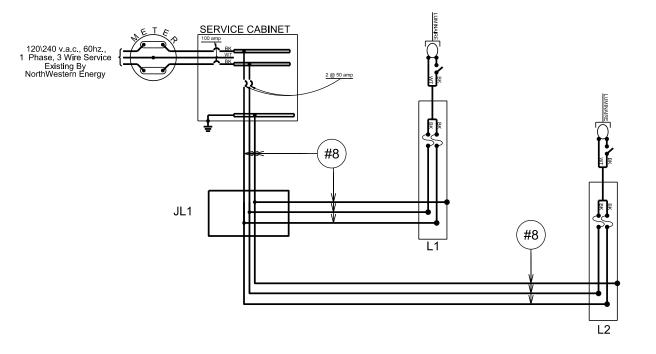
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US HWY 18 / 383rd AVE

	ESTIMATE OF QUANTITIES	1	
KEY	ITEM	QUANT	UNIT
	Breakaway Base Luminaire Pole w/10' Arm 40' Mounting Height (L1-L2)	2	EACH
•	Roadway Luminaire, LED with P.E. (L1-L2)	2	EACH
0	2' Diameter Footing (L1-L2)	16	FT
	Type 1 Electrical Junction Box (JL1)	1	EACH
	Electrical Service Cabinet	1	EACH
ø	Galvanized Steel Utility Pole Not a Bid Item	1	EACH
	Meter Socket Not a Bid Item	1	EACH
SCH 40	2" Rigid Conduit, Schedule 40	180	FT
	2" Rigid Conduit, Schedule 80	75	FT
#8	1/C #8 AWG Copper Wire	855	FT
	2/C #10 AWG Copper Pole & Bracket Cable	120	FT



WIRING DIAGRAM



LEGEND:

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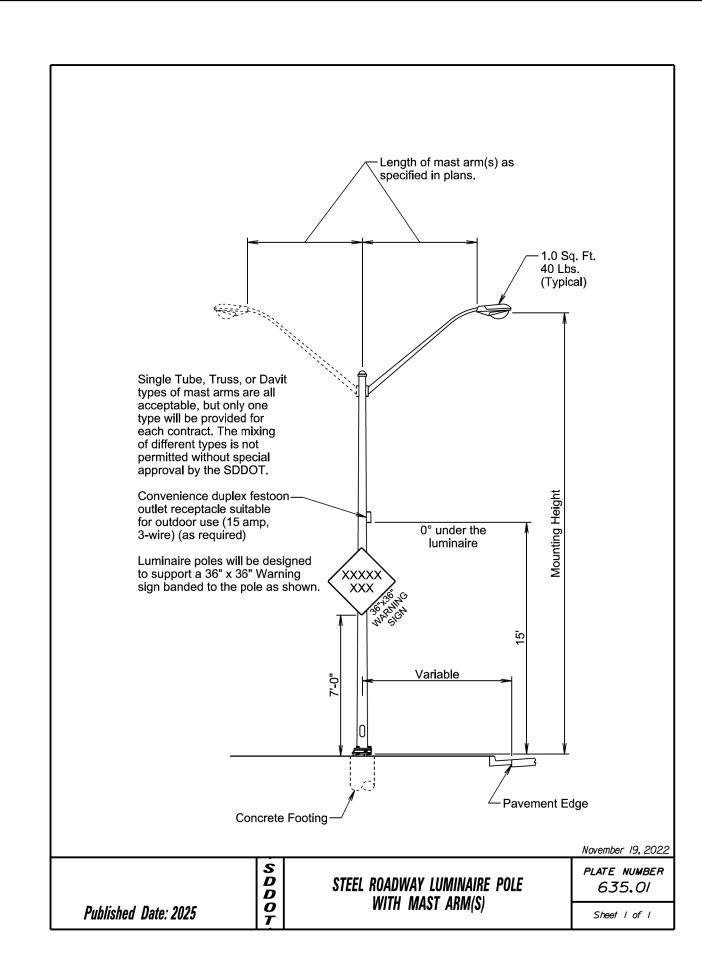
LUMINAIRE: LED

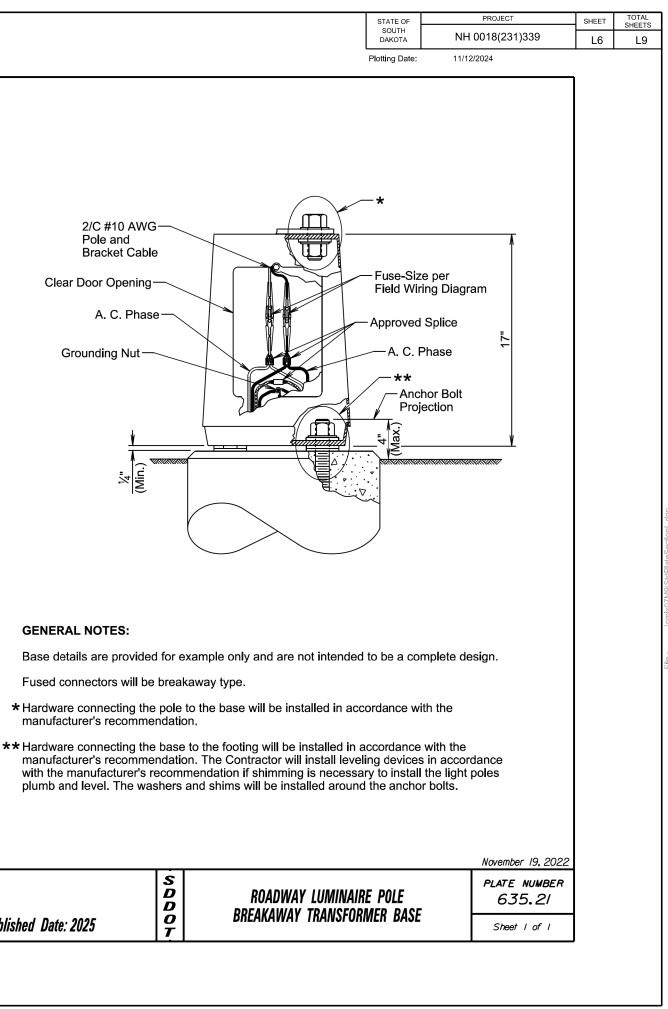
FUSE: 10 amp.

PHOTOCELL (Typical of all)

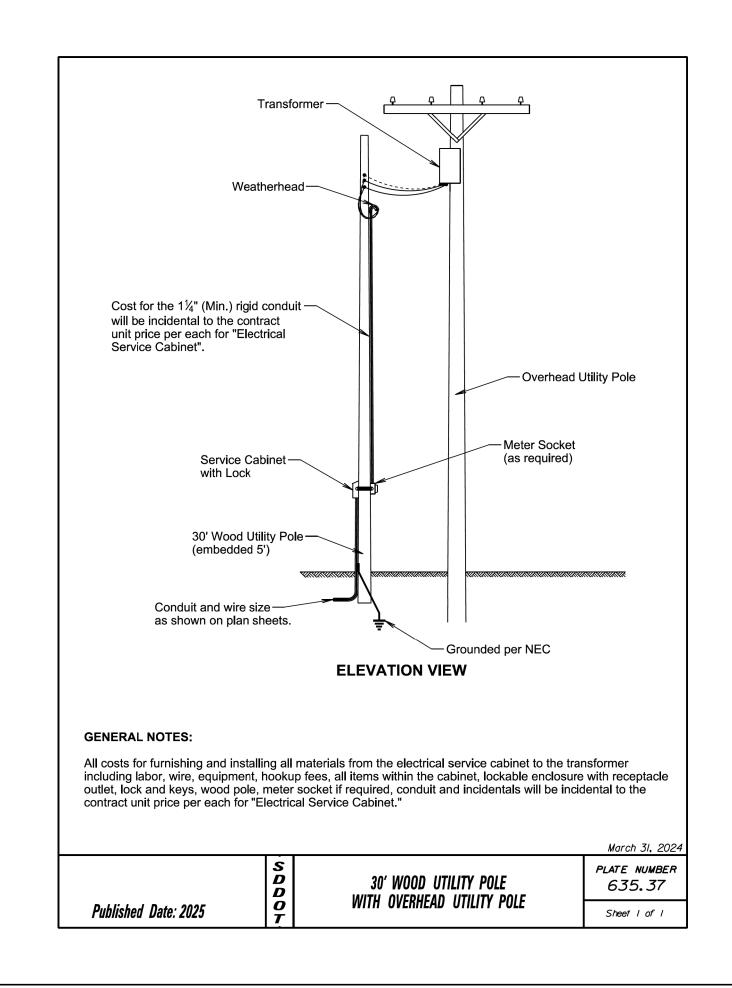
NOTE: All circuits will be bonded in accordance with the NATIONAL ELECTRICAL CODE. Quantities for bonding conductors are not included in these plans.

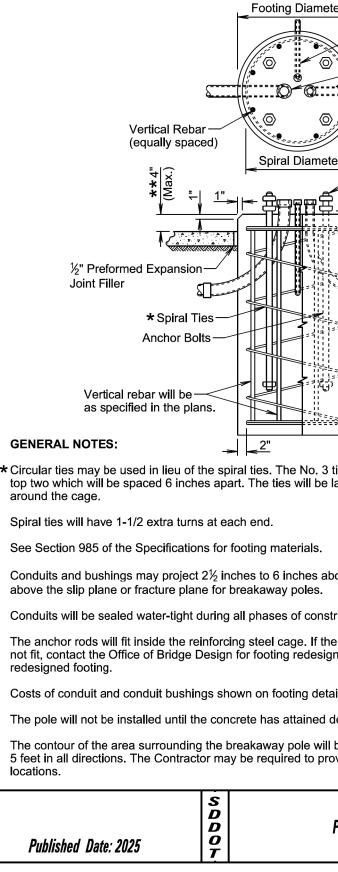
	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	NH 0018(231)339	L5	L9
_	Plotting Date:	11/12/2024		

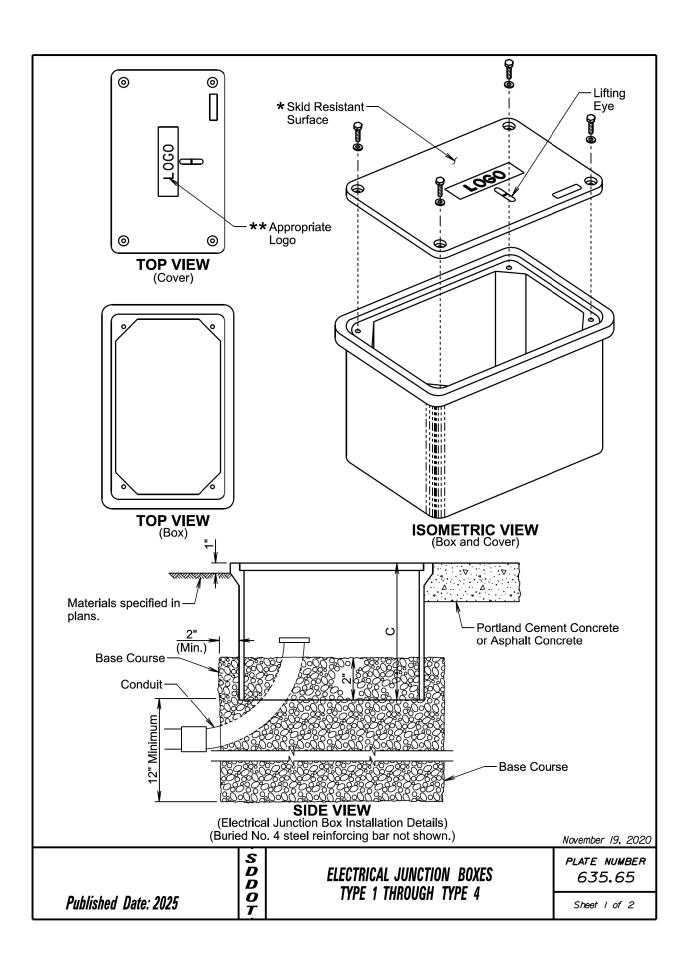




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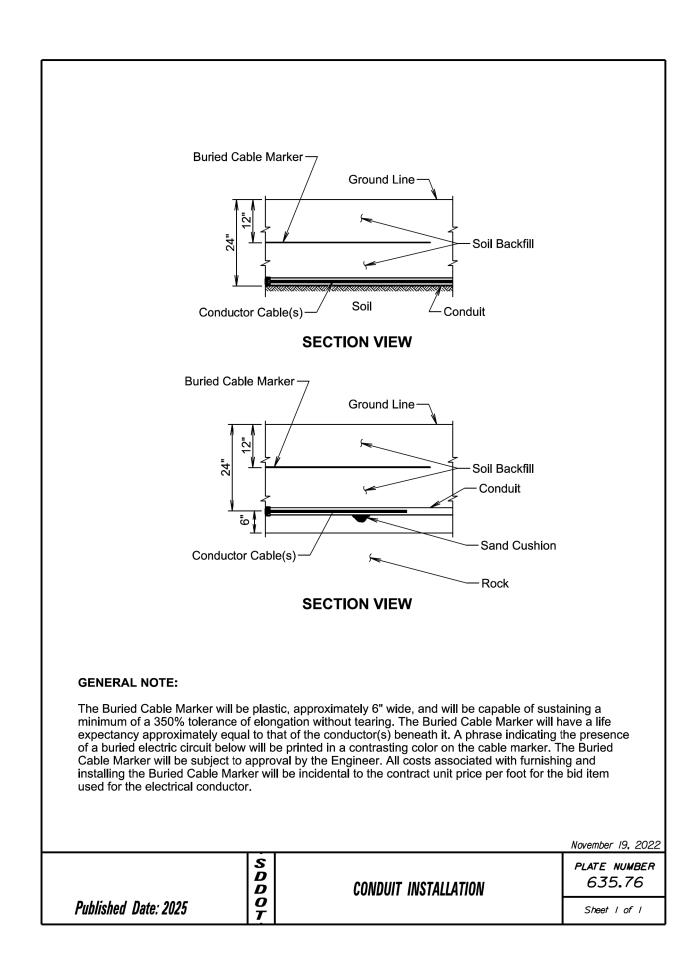






				STATE OF	PROJECT	SHEET	TOTAL
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				Plotting Date:	11/12/2024		
		ELECTRICAL DESCRIPTION Open Bottom with Gasket Open Bottom with Gasket Open Bottom with Gasket Open Bottom with Gasket	JUNCTION I APPROXIMATE COVER SIZE 11"x18" 13"x24" 17"x30" 24"x36" *** 30"x48" **	BOX MINIMUM DEPTH (C) 18" 18" 18" 24" 24"			
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				MINIMUM				
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		with Gasket Open Bottom						
	2	with Gasket	13"x24"	18"				
	3	Open Bottom with Gasket	17"x30"	18"				
	3A	Open Bottom	24"x36" ***	24"				
	4	with Gasket Open Bottom	30"x48" ***	24"				
	4	with Gasket	30 ,40 ***	27				
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	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		NH 0018(231)339	L9	L9
P	lotting Date:	11/12/2024		