



Planning & Engineering
Office of Project Development
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February 18, 2025

ADDENDUM NO. 5

RE: Item #1, February 19, 2025 Letting - IM-B-CR 2292(101)3, PCN 05HN, Minnehaha County - Grading, PCC Surfacing, Structures (10x4 RCBC extension, 163' Temporary Bridge, (2) 400' Steel Girder, (2) 12x8 CIP RCBC), Retaining Walls, Curb & Gutter, Storm Sewer, Signals, Lighting

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: NO CHANGE

SDEBS BID PROPOSAL: *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

Quantities for Bid Items were changed:

Bid Item 635E5020 "2' Diameter Concrete Footing" changed from 580.0 to 805.0 Ft

Bid Item 635E5030 "3' Diameter Concrete Footing" changed from 52.0 to 46.0 Ft

Bid Item 635E5400 "Electrical Service Cabinet" changed from 3 to 6 Each

PLANS: Please destroy sheets A5, B26-B28, B212, L2, L5, L12, L27 & L32 and replace with the enclosed sheets, dated 2/18/25.

Sheets A5 & L2: Quantities for Bid Items were changed:

Bid Item 635E5020 "2' Diameter Concrete Footing" changed from 580.0 to 805.0 Ft

Bid Item 635E5030 "3' Diameter Concrete Footing" changed from 52.0 to 46.0 Ft

Bid Item 635E5400 "Electrical Service Cabinet" changed from 3 to 6 Each

Sheets B26, B27 & B28: TABLE OF STORM SEWER DROP INLETS AND QUANTITIES was revised.
Informational notes were revised.

Sheet B212: Standard Plate 670.82 was added.

Sheet L5: TABLE OF FOOTING DATA was revised.

Sheet L12: ELECTRICAL SERVICE CABINET note was revised.

Sheet L27 & L32: ESTIMATE OF QUANTITIES was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Travis Dressen, Mitchell Region Engineer
Harry Johnston, Sioux Falls Area Engineer

Section L – Signal & Lighting

Section L – Signal & Lighting (continued)

Section M – Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1530	Remove Signal Pole Footing	9	Each
110E1540	Remove Luminaire Pole Footing	18	Each
110E1550	Remove Light Tower	5	Each
110E5100	Salvage Luminaire Pole	15	Each
110E5105	Salvage Luminaire	23	Each
110E5110	Salvage Signal Equipment	Lump Sum	LS
110E7200	Remove Luminaire Pole for Reset	4	Each
635E0030	Breakaway Base Luminaire Pole with Arm, 30' Mounting Height	1	Each
635E0040	Breakaway Base Luminaire Pole with Arm, 40' Mounting Height	35	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	29	Each
635E0150	Breakaway Base Luminaire Pole with Twin Arms, 50' Mounting Height	28	Each
635E0650	Fixed Base Luminaire Pole with Arm, 50' Mounting Height	4	Each
635E2000	Pedestal Signal Pole	15	Each
635E2025	Signal Pole with 25' Mast Arm	1	Each
635E2030	Signal Pole with 30' Mast Arm	1	Each
635E2135	Signal Pole with 35' Mast Arm and Luminaire Arm	1	Each
635E2145	Signal Pole with 45' Mast Arm and Luminaire Arm	1	Each
635E2150	Signal Pole with 50' Mast Arm and Luminaire Arm	2	Each
635E2155	Signal Pole with 55' Mast Arm and Luminaire Arm	2	Each
635E3545	Under Bridge Deck Luminaire, LED	8	Each
635E3585	Tunnel Luminaire, LED	11	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	127	Each
635E4030	3 Section Vehicle Signal Head	39	Each
635E4040	4 Section Vehicle Signal Head	17	Each
635E5020	2' Diameter Footing	805.0	Ft
635E5025	2.5' Diameter Footing	13.3	Ft
635E5030	3' Diameter Footing	46.0	Ft
635E5040	4' Diameter Footing	9.0	Ft
635E5310	Special Electrical Junction Box	84	Each
635E5360	Surface Mounted Junction Box	8	Each
635E5400	Electrical Service Cabinet	6	Each
635E5430	Traffic Signal Controller	3	Each
635E5450	Side Mounted Cabinet	6	Each
635E5515	Battery Backup System for Traffic Signal	3	Each
635E5520	Video Detection System	3	Each
635E5560	Emergency Vehicle Preemption Unit	3	Each
635E5570	Optical Detector	12	Each
635E5600	Surveillance Camera	2	Each
635E5880	Accessible Pedestrian Signal	24	Each
635E5910	Pedestrian Push Button Pole	13	Each
635E5922	Pedestrian Signal Head with Countdown Timer	24	Each
635E5930	Pedestrian Crossing Sign	24	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E5980	Rectangular Rapid Flashing Beacon System	4	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS
635E7505	Reset Luminaire Pole	2	Each
635E8008	0.75" Rigid Galvanized Steel Conduit	270	Ft
635E8010	1" Rigid Galvanized Steel Conduit	211	Ft
635E8020	2" Rigid Galvanized Steel Conduit	655	Ft
635E8108	0.75" Rigid Conduit, Schedule 40	568	Ft
635E8110	1" Rigid Conduit, Schedule 40	6,790	Ft
635E8120	2" Rigid Conduit, Schedule 40	19,493	Ft
635E8130	3" Rigid Conduit, Schedule 40	386	Ft
635E8140	4" Rigid Conduit, Schedule 40	365	Ft
635E8150	5" Rigid Conduit, Schedule 40	25	Ft
635E8220	2" Rigid Conduit, Schedule 80	3,806	Ft
635E8230	3" Rigid Conduit, Schedule 80	1,010	Ft
635E8240	4" Rigid Conduit, Schedule 80	200	Ft
635E8250	5" Rigid Conduit, Schedule 80	60	Ft
635E8420	1.5" Innerduct, SDR 13.5	4,630	Ft
635E8830	2/2/2/4 Aluminum Wire	8,728	Ft
635E9012	1/C #2 AWG Copper Wire	13,476	Ft
635E9014	1/C #4 AWG Copper Wire	6,574	Ft
635E9016	1/C #6 AWG Copper Wire	38,893	Ft
635E9018	1/C #8 AWG Copper Wire	13,201	Ft
635E9020	1/C #10 AWG Copper Wire	9,672	Ft
635E9022	1/C #12 AWG Copper Wire	6,059	Ft
635E9302	2/C #14 AWG IMSA Copper Cable, K1	1,020	Ft
635E9303	3/C #14 AWG IMSA Copper Cable, K1	480	Ft
635E9305	5/C #14 AWG IMSA Copper Cable, K1	1,285	Ft
635E9307	7/C #14 AWG IMSA Copper Cable, K1	8,345	Ft
635E9312	12/C #14 AWG IMSA Copper Cable, K1	1,990	Ft
635E9325	25/C #14 AWG IMSA Copper Cable, K1	2,270	Ft
635E9800	Preemption Cable	7,990	Ft
635E9906	6 Strand Fiber Optic Cable	1,133	Ft
635E9924	24 Strand Fiber Optic Cable	4,745	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	38,711	Ft
633E0019	Cold Applied Plastic Pavement Marking, 4" with Contrast Border	27,663	Ft
633E0021	Cold Applied Plastic Pavement Marking, 8" with Contrast Border	750	Ft
633E0025	Cold Applied Plastic Pavement Marking, 12"	2,687	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	214	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	57	Each
633E0045	Cold Applied Plastic Pavement Marking, Combination Arrow	9	Each
633E0210	Preformed Thermoplastic Pavement Marking, 4"	936	Ft
633E0211	Preformed Thermoplastic Pavement Marking, 4" with Contrast Border	2,432	Ft
633E0215	Preformed Thermoplastic Pavement Marking, 8"	322	Ft
633E0216	Preformed Thermoplastic Pavement Marking, 8" with Contrast Border	2,242	Ft
633E0225	Preformed Thermoplastic Pavement Marking, 24"	1,500	Ft
633E0230	Preformed Thermoplastic Pavement Marking, Area	57	SqFt
633E0235	Preformed Thermoplastic Pavement Marking, Arrow	14	Each
633E1100	Epoxy Pavement Marking Paint, 4" White	1,159	Ft
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	29,298	Ft
633E5004	Grooving for Cold Applied Plastic Pavement Marking, 4" with Contrast Border	28,336	Ft
633E5005	Grooving for Cold Applied Plastic Pavement Marking, 8"	322	Ft
633E5008	Grooving for Cold Applied Plastic Pavement Marking, 8" with Contrast Border	2,992	Ft
633E5010	Grooving for Cold Applied Plastic Pavement Marking, 12"	2,687	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	1,714	Ft
633E5020	Grooving for Cold Applied Plastic Pavement Marking, Area	57	SqFt
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	80	Each
633E5050	Surface Preparation for Pavement Marking	9,413	Ft
634E0560	Remove Pavement Marking, 4" or Equivalent	1,642	Ft
634E0565	Remove Pavement Marking, Arrow	4	Each

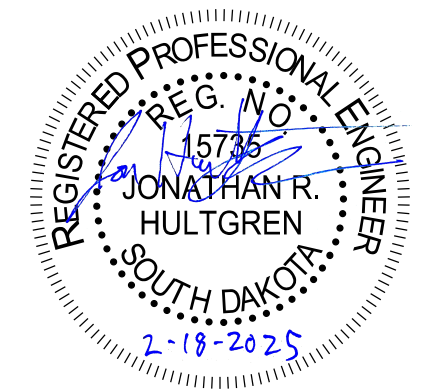


TABLE OF STORM SEWER DROP INLETS AND QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT IM-B-CR 2292(101)3	SHEET B26	TOTAL SHEETS B225
Plotting Date: 2/18/2025		Revised Date: 2/18/2025 Initials: NBG	

Station	Offset (L/R)	Inlet Type	Class M6 Concrete (CuYd)	Reinforcing Steel (Lb)	Frame and Grate/Lid										
					¹ Type A (Each)	² Type M (Each)	³ 4'x11' Precast Concrete Type S Drop Inlet Lid (Each)	⁴ Type A4 (Each)	⁵ SF Type B Inlet, 3 Grates, 8' (Each)	⁶ SF 2'x2' Catch Basin (Each)	⁷ SF Type 1 Junction Box 4x4 (Each)	⁸ SF Type 1 Junction Box 5x5 (Each)	⁹ 6'-0" SF Type Inlet (18"-24") Type Y F&G (Each)	¹⁰ 10'-0" SF Type Inlet (18"-24") Type Y F&G (Each)	¹¹ 10'-0" SF Type Inlet (48"-60") Type Y F&G (Each)
41st Street															
21+83.00	22.00' L	SF 6'-0" Type Inlet	2.8	412								1			
22+25.00	19.25' L	SF 10'-0" (48"-60") Type Inlet	4.5	708										1	
23+40.00	19.00' L	SF 6'-0" Type Inlet	3.0	440								1			
25+00.00	19.00' L	SF 6'-0" Type Inlet	2.8	417								1			
22+10.00	24.20' L	SF 6'-0" Type Inlet	2.9	420								1			
22+24.00	23.50' R	SF 10'-0" (18"-24") Type Inlet	4.5	715									1		
30+65.00	19.00' R	SF 6'-0" Type Inlet	3.3	479								1			
31+30.00	19.00' R	SF 10'-0" (18"-24") Type Inlet	5.7	857									1		
31+80.00	19.00' R	SF 6'-0" Type Inlet	3.6	516								1			
30+65.00	19.00' L	SF 6'-0" Type Inlet	3.3	476								1			
31+30.00	19.00' L	SF 10'-0" (18"-24") Type Inlet	5.1	797									1		
31+60.00	19.00' L	SF 6'-0" Type Inlet	3.3	483								1			
34+00.00	19.00' L	SF 6'-0" Type Inlet	4.0	564								1			
34+00.00	37.00' R	SF 6'-0" Type Inlet	4.1	571								1			
NB I-229															
205+96.00	8.83' L	DOT 2'x3' Type B	1.3	193	1										
210+82.00	8.83' L	DOT 2'x3' Type B	1.3	196	1										
220+39.00	69.00' R	DOT 5'x5' Junction Box	5.0	933			1								
219+03.00	49.00' R	DOT Type M Median Drain	2.2	264		1									
230+00.00	31.00' L	DOT Type M Median Drain	0.6	78		1									
SB I-229															
206+81.00	44.83' L	DOT 2'x3' Type B	1.3	207	1										
214+20.00	60.00' L	SF Type 1 Junction Box 5'x5'	9.1	493						1					
211+68.00	45.00' L	DOT 2'x3' Type B	1.3	199	1										
211+68.00	16.00' R	SF Type 1 Junction Box 4'x4'	3.8	227					1						
Subtotal:			78.8	10,645	4	2	1			1	1	10	3	1	

For Informational Purposes:

- ¹ Paid for as Bid Item No. 670E0200 - Type A Frame and Grate
- ² Paid for as Bid Item No. 670E4205 - Type M Frame and Grate Assembly
- ³ Paid for as Bid Item No. 670E5340 - 4' x 11' Precast Concrete Type S Drop Inlet Lid
- ⁴ Paid for as Bid Item No. 671E6040 - Manhole Frame and Bid Item No. 671E6050 - Manhole Lid
- ⁵ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly
- ⁶ Paid for as Bid Item No. 671E6008 - Type A8 Manhole Frame and Lid
- ⁷ Paid for as Bid Item No. 671E6035 - Special Manhole Frame and Lid
- ⁸ Paid for as Bid Item No. 671E6035 - Special Manhole Frame and Lid
- ⁹ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly
- ¹⁰ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly
- ¹¹ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly



Plot Scale - 1:200

Plotted From - ngiersvik

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TABLE OF STORM SEWER DROP INLETS AND QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT IM-B-CR 2292(101)3	SHEET B27	TOTAL SHEETS B225
Plotting Date: 2/18/2025		Revised Date: 2/18/2025 Initials: NBG	

Station	Offset (L/R)	Inlet Type	Class M6 Concrete (CuYd)	Reinforcing Steel (Lb)	Frame and Grate/Lid										
					¹ Type A (Each)	² Type M (Each)	³ 4'x11' Precast Concrete Type S Drop Inlet Lid (Each)	⁴ Type A4 (Each)	⁵ SF Type B Inlet, 3 Grates, 8' (Each)	⁶ SF 2'x2' Catch Basin (Each)	⁷ SF Type 1 Junction Box 4x4 (Each)	⁸ SF Type 1 Junction Box 5x5 (Each)	⁹ 6'-0" SF Type Inlet (18"-24") Type Y F&G (Each)	¹⁰ 10'-0" SF Type Inlet (18"-24") Type Y F&G (Each)	¹¹ 10'-0" SF Type Inlet (48"-60") Type Y F&G (Each)
NB Cliff															
119+75.30	24.00' R	SF 10'-0" (48"-60") Type Inlet	5.0	775										1	
120+94.00	23.67' R	SF Type B Inlet 3 Grates, 8'	5.2	1,242				1							
123+00.00	12.67' R	SF Type B Inlet 3 Grates, 8'	4.3	1,382				1							
124+37.50	19.77' R	SF Type 1 Junction Box 5'x5'	4.5	294						1					
119+30.00	17.00' R	SF 6'-0" Type Inlet	3.1	454							1				
120+28.00	24.00' R	SF 6'-0" Type Inlet	3.1	454							1				
117+90.00	13.00' R	SF 6'-0" Type Inlet	3.5	500							1				
117+25.00	15.00' R	SF 6'-0" Type Inlet	3.5	501							1				
113+73.00	15.00' R	SF 6'-0" Type Inlet	3.8	538							1				
114+80.00	15.00' R	SF 6'-0" Type Inlet	3.5	503							1				
114+30.00	15.00' R	SF 6'-0" Type Inlet	3.5	507							1				
109+20.00	21.50' R	SF 10'-0" (18"-24") Type Inlet	4.9	772								1			
107+75.00	15.00' R	SF 6'-0" Type Inlet	3.2	463							1				
112+09.00	26.00' R	SF 6'-0" Type Inlet	2.9	424							1				
111+13.00	26.00' R	SF 6'-0" Type Inlet	3.2	464							1				
109+75.00	26.00' R	SF 6'-0" Type Inlet	3.2	467							1				
108+57.00	15.50' R	SF 10'-0" (18"-24") Type Inlet	5.4	833								1			
105+47.00	15.00' R	SF 6'-0" Type Inlet	4.2	595							1				
SB Cliff															
310+77.00	16.20' L	SF 6'-0" Type Inlet	3.9	556							1				
310+49.40	25.50' L	DOT 2'x3' Type B	2.1	28	1										
320+00.00	24.00' L	SF 10'-0" (18"-24") Type Inlet	5.0	775								1			
323+73.00	23.50' L	SF Type B Inlet 3 Grates, 8'	8.9	2,832				1							
324+44.00	23.70' L	SF Type B Inlet 3 Grates, 8'	9.3	2,983				1							
325+77.00	17.50' L	SF Type B Inlet 3 Grates, 8'	9.3	2,968				1							
320+83.00	24.00' L	SF 6'-0" Type Inlet	3.1	453							1				
319+46.40	24.00' L	SF 6'-0" Type Inlet	3.1	453							1				
318+66.00	24.00' L	SF 6'-0" Type Inlet	3.1	454							1				
317+82.00	15.00' L	SF 6'-0" Type Inlet	3.2	465							1				
313+90.00	15.00' L	SF 6'-0" Type Inlet	3.7	531							1				
314+50.00	15.00' L	SF 6'-0" Type Inlet	2.8	418							1				
308+79.00	15.00' L	SF 10'-0" (18"-24") Type Inlet	5.0	782								1			
307+96.00	15.00' L	SF 6'-0" Type Inlet	3.2	459							1				
309+41.00	12.00' L	DOT 2'x3' Type B	1.5	28	1										
305+48.00	15.00' L	SF 6'-0" Type Inlet	4.8	668							1				
Pam Road															
51+20.00	29.50' R	SF 6'-0" Type Inlet	3.4	488							1				
Subtotal:			145.6	26,507	2			5			1	22	4	1	

For Informational Purposes:
¹ Paid for as Bid Item No. 670E0200 - Type A Frame and Grate
² Paid for as Bid Item No. 670E4205 - Type M Frame and Grate Assembly
³ Paid for as Bid Item No. 670E5340 - 4' x 11' Precast Concrete Type S Drop Inlet Lid
⁴ Paid for as Bid Item No. 671E6040 - Manhole Frame and Bid Item No. 671E6050 - Manhole Lid
⁵ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly
⁶ Paid for as Bid Item No. 671E6008 - Type A8 Manhole Frame and Lid
⁷ Paid for as Bid Item No. 671E6035 - Special Manhole Frame and Lid
⁸ Paid for as Bid Item No. 671E6035 - Special Manhole Frame and Lid
⁹ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly
¹⁰ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly
¹¹ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly



Plot Scale - 1:200

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TABLE OF STORM SEWER DROP INLETS AND QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT IM-B-CR 2292(101)3	SHEET B28	TOTAL SHEETS B225
Plotting Date: 2/18/2025		Revised Date: 2/18/2025 Initials: NBG	

Station	Offset (L/R)	Inlet Type	Class M6 Concrete (CuYd)	Reinforcing Steel (Lb)	Frame and Grate/Lid										
					¹ Type A (Each)	² Type M (Each)	³ 4'x11' Precast Concrete Type S Drop Inlet Lid (Each)	⁴ Type A4 (Each)	⁵ SF Type B Inlet, 3 Grates, 8' (Each)	⁶ SF 2'x2' Catch Basin (Each)	⁷ SF Type 1 Junction Box 4x4 (Each)	⁸ SF Type 1 Junction Box 5x5 (Each)	⁹ 6'-0" SF Type Inlet (18"-24") Type Y F&G (Each)	¹⁰ 10'-0" SF Type Inlet (18"-24") Type Y F&G (Each)	¹¹ 10'-0" SF Type Inlet (48"-60") Type Y F&G (Each)
Ramp A															
19+57.00	10.50' R	DOT Type M Median Drain	2.3	265		1									
14+97.00	45.00' R	DOT Type M Median Drain	1.9	233		1									
10+75.00	16.50' R	DOT 4'x11' Type S Drop Inlet	4.3	705			1								
12+00.00	16.00' R	DOT 2'x3' Type B	1.4	209	1										
Ramp B															
33+85.00	37.00' L	SF 2'x2' Catch Basin	1.6	16					1						
30+30.00	4.00' L	SF 6'-0" Type Inlet	3.2	468							1				
31+73.00	1.50' L	DOT 2'x3' Type B	1.8	262	1										
Ramp C															
56+40.00	6.00' L	DOT Type M Median Drain	2.3	269		1									
64+75.00	25.50' L	DOT 2'x3' Type B	1.4	210	1										
64+75.00	37.50' L	SF 2'x2' Catch Basin	1.3	16					1						
66+00.00	28.50' L	DOT 4'x11' Type S Drop Inlet	3.9	655			1								
Ramp D															
84+57.00	4.50' R	DOT 4'x11' Type S Drop Inlet	4.8	759			1								
Ramp E															
5+00.64	27.20' L	DOT 2'x3' Type B	1.4	216	1										
Ramp F															
17+51.00	26.00' R	SF Type 1 Junction Box 4'x4'	6.3	354						1					
15+50.00	24.80' R	DOT 4'x11' Type S Drop Inlet	4.8	764			1								
17+44.00	4.00' L	SF Type 1 Junction Box 4'x4'	5.9	333						1					
Ramp G New															
26+23.00	39.00' R	DOT 4'x11' Type S Drop Inlet	4.3	710			1								
25+38.00	28.00' R	SF 2'x2' Catch Basin	1.3	16					1						
Trail															
2+21.00	9.00' R	DOT Type M Median Drain	1.5	184		1									
4+32.00	8.00' R	DOT Type M Median Drain	1.7	209		1									
3+82.00	16.50' L	SF 2'x2' Catch Basin	0.8	16					1						
0+27.00	27.40' R	DOT Type M Median Drain	2.0	234		1									
School															
42+70.00	15.00' R	SF 6'-0" Type Inlet	3.2	469							1				
42+70.00	15.00' L	SF 6'-0" Type Inlet	3.2	465							1				
42+70.00	91.30' R	SF 6'-0" Type Inlet	2.9	423							1				
Subtotal:			59.5	8,459	4	6	5		4	2		4			
Total:			293.8	45,611	10	8	5	1	5	4	3	2	36	7	2

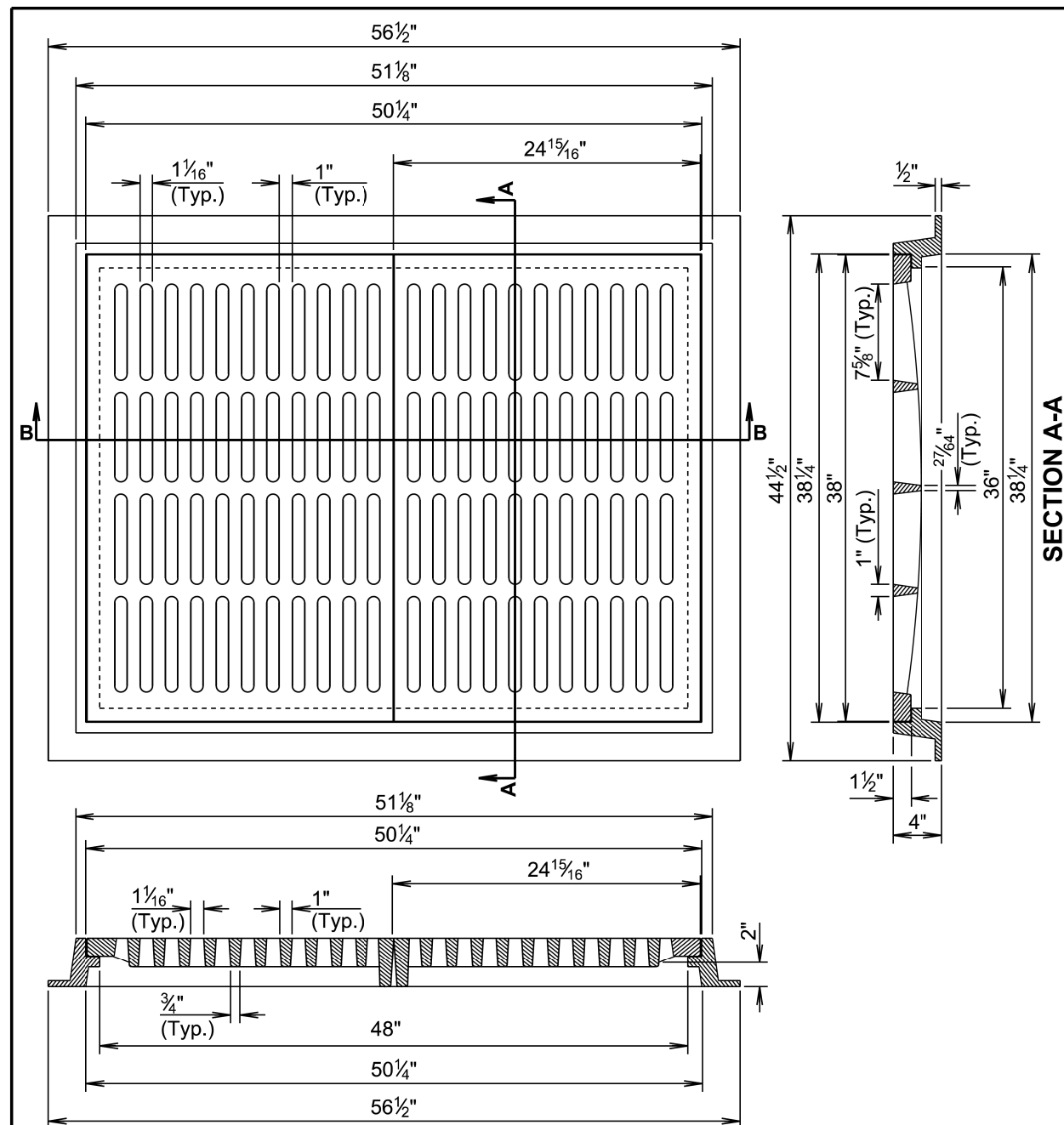
- For Informational Purposes:
- ¹ Paid for as Bid Item No. 670E0200 - Type A Frame and Grate - 10 Each
 - ² Paid for as Bid Item No. 670E4205 - Type M Frame and Grate Assembly - 8 Each
 - ³ Paid for as Bid Item No. 670E5340 - 4' x 11' Precast Concrete Type S Drop Inlet Lid - 5 Each
 - ⁴ Paid for as Bid Item No. 671E6040 - Manhole Frame - 1 Each and Bid Item No. 671E6050 - Manhole Lid - 1 Each
 - ⁵ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly - 15 Each (3 Grates per Inlet)
 - ⁶ Paid for as Bid Item No. 671E6008 - Type A8 Manhole Frame and Lid - 4 Each
 - ⁷ Paid for as Bid Item No. 671E6035 - Special Manhole Frame and Lid - 5 Each (3 Each size 4' x 4')
 - ⁸ Paid for as Bid Item No. 671E6035 - Special Manhole Frame and Lid - 5 Each (2 Each size 5' x 5')
 - ⁹ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly - 45 Each (36 Each size 6'-0" for 18"-24" Pipe)
 - ¹⁰ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly - 45 Each (7 Each size 10'-0" for 18"-24" Pipe)
 - ¹¹ Paid for as Bid Item No. 670E5200 - Special Frame and Grate Assembly - 45 Each (2 Each size 10'-0" for 48"-60" Pipe)



Plot Scale - 1:200

Plotted From - engiersvik

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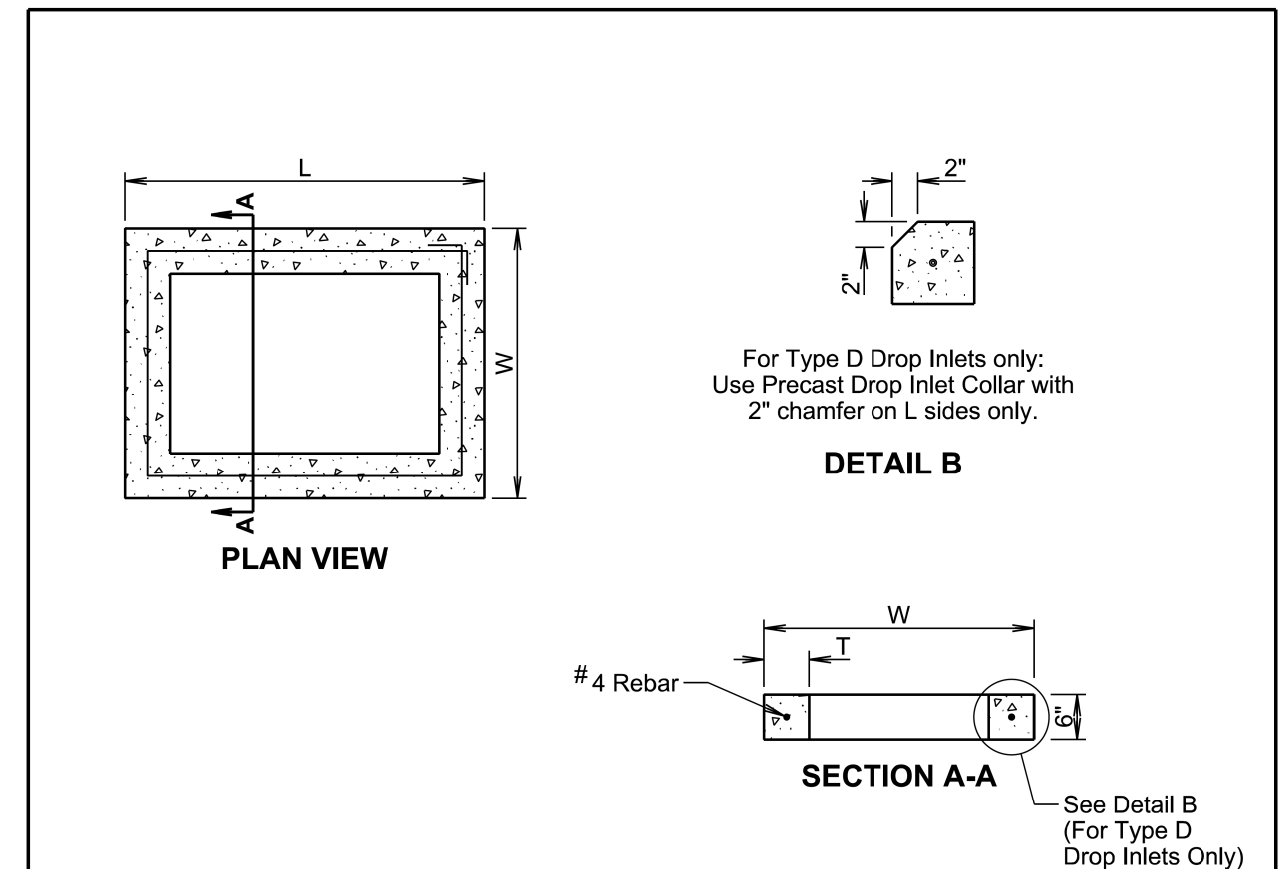
GENERAL NOTES: SECTION B-B

The product dimensions may vary from those shown on the standard plate depending on the manufacturer. Grate size and configuration will be similar to the standard plate for hydraulic capacity. Any variation in dimensions will be approved by the Engineer and the type C frame and grate will be from a manufacturer on the approved products list.

Design load for the grate will meet the requirements of AASHTO HL-93.

March 31, 2024

Published Date: 2025	SDDOT	TYPE C FRAME AND GRATE	PLATE NUMBER 670.82
			Sheet 1 of 1



INFORMATIONAL QUANTITIES					
FRAME AND GRATE TYPE	L (Ft-in)	W (Ft-in)	T (in)	CLASS M6 CONCRETE (CuYd)	REINFORCING STEEL (Lb)
TYPE A, B, and E	4'-0"	3'-0"	6	0.11	9
TYPE C	5'-0"	4'-0"	6	0.15	11
TYPE D	4'-0"	2'-6"	6	0.10	8

GENERAL NOTES:

All reinforcing steel will conform to ASTM A615, Grade 60.

The 1/2" diameter bar will lap 6"± and will be centered in the concrete.

The cost of furnishing and installing Precast Drop Inlet Collars, including labor, materials, and incidentals will be incidental to the contract unit price per Each for "Precast Drop Inlet Collar".

June 1, 2022

Published Date: 2025	SDDOT	PRECAST DROP INLET COLLAR	PLATE NUMBER 670.99
			Sheet 1 of 1

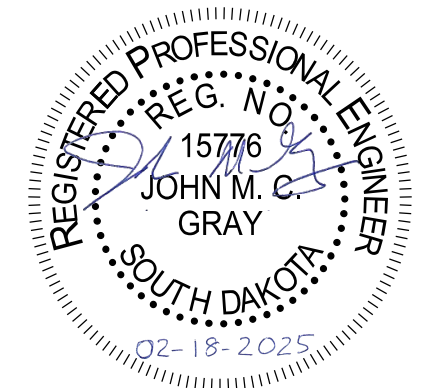
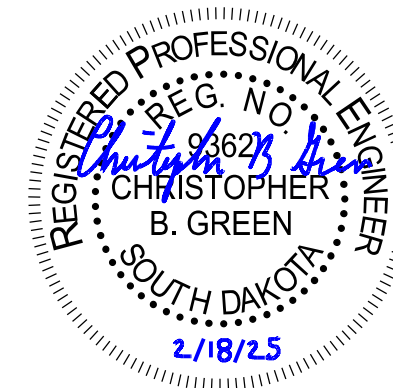
SECTION L ESTIMATE OF QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-B-CR 2292(101)3	L2	L73

Revised Date: 02/18/2025
Initials: NBG

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1530	Remove Signal Pole Footing	9	Each
110E1540	Remove Luminaire Pole Footing	18	Each
110E1550	Remove Light Tower	5	Each
110E5100	Salvage Luminaire Pole	15	Each
110E5105	Salvage Luminaire	23	Each
110E5110	Salvage Signal Equipment	Lump Sum	LS
110E7200	Remove Luminaire Pole for Reset	4	Each
635E0030	Breakaway Base Luminaire Pole with Arm, 30' Mounting Height	1	Each
635E0040	Breakaway Base Luminaire Pole with Arm, 40' Mounting Height	35	Each
635E0050	Breakaway Base Luminaire Pole with Arm, 50' Mounting Height	29	Each
635E0150	Breakaway Base Luminaire Pole with Twin Arms, 50' Mounting Height	28	Each
635E0650	Fixed Base Luminaire Pole with Arm, 50' Mounting Height	4	Each
635E2000	Pedestal Signal Pole	15	Each
635E2025	Signal Pole with 25' Mast Arm	1	Each
635E2030	Signal Pole with 30' Mast Arm	1	Each
635E2135	Signal Pole with 35' Mast Arm and Luminaire Arm	1	Each
635E2145	Signal Pole with 45' Mast Arm and Luminaire Arm	1	Each
635E2150	Signal Pole with 50' Mast Arm and Luminaire Arm	2	Each
635E2155	Signal Pole with 55' Mast Arm and Luminaire Arm	2	Each
635E3545	Under Bridge Deck Luminaire, LED	8	Each
635E3585	Tunnel Luminaire, LED	11	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	127	Each
635E4030	3 Section Vehicle Signal Head	39	Each
635E4040	4 Section Vehicle Signal Head	17	Each
635E5020	2' Diameter Footing	805.0	Ft
635E5025	2.5' Diameter Footing	13.3	Ft
635E5030	3' Diameter Footing	46.0	Ft
635E5040	4' Diameter Footing	9.0	Ft
635E5310	Special Electrical Junction Box	84	Each
635E5360	Surface Mounted Junction Box	8	Each
635E5400	Electrical Service Cabinet	6	Each
635E5430	Traffic Signal Controller	3	Each
635E5450	Side Mounted Cabinet	6	Each
635E5515	Battery Backup System for Traffic Signal	3	Each
635E5520	Video Detection System	3	Each
635E5560	Emergency Vehicle Preemption Unit	3	Each
635E5570	Optical Detector	12	Each
635E5600	Surveillance Camera	2	Each
635E5880	Accessible Pedestrian Signal	24	Each
635E5910	Pedestrian Push Button Pole	13	Each
635E5922	Pedestrian Signal Head with Countdown Timer	24	Each
635E5930	Pedestrian Crossing Sign	24	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E5980	Rectangular Rapid Flashing Beacon System	4	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS
635E7505	Reset Luminaire Pole	2	Each
635E8008	0.75" Rigid Galvanized Steel Conduit	270	Ft
635E8010	1" Rigid Galvanized Steel Conduit	211	Ft
635E8020	2" Rigid Galvanized Steel Conduit	655	Ft
635E8108	0.75" Rigid Conduit, Schedule 40	568	Ft
635E8110	1" Rigid Conduit, Schedule 40	6,790	Ft
635E8120	2" Rigid Conduit, Schedule 40	19,493	Ft
635E8130	3" Rigid Conduit, Schedule 40	386	Ft
635E8140	4" Rigid Conduit, Schedule 40	365	Ft
635E8150	5" Rigid Conduit, Schedule 40	25	Ft
635E8220	2" Rigid Conduit, Schedule 80	3,806	Ft
635E8230	3" Rigid Conduit, Schedule 80	1,010	Ft
635E8240	4" Rigid Conduit, Schedule 80	200	Ft
635E8250	5" Rigid Conduit, Schedule 80	60	Ft
635E8420	1.5" Innerduct, SDR 13.5	4,630	Ft
635E8830	2/2/2/4 Aluminum Wire	8,728	Ft
635E9012	1/C #2 AWG Copper Wire	13,476	Ft
635E9014	1/C #4 AWG Copper Wire	6,574	Ft
635E9016	1/C #6 AWG Copper Wire	38,893	Ft
635E9018	1/C #8 AWG Copper Wire	13,201	Ft
635E9020	1/C #10 AWG Copper Wire	9,672	Ft
635E9022	1/C #12 AWG Copper Wire	6,059	Ft
635E9302	2/C #14 AWG IMSA Copper Cable, K1	1,020	Ft
635E9303	3/C #14 AWG IMSA Copper Cable, K1	480	Ft
635E9305	5/C #14 AWG IMSA Copper Cable, K1	1,285	Ft
635E9307	7/C #14 AWG IMSA Copper Cable, K1	8,345	Ft
635E9312	12/C #14 AWG IMSA Copper Cable, K1	1,990	Ft
635E9325	25/C #14 AWG IMSA Copper Cable, K1	2,270	Ft
635E9800	Preemption Cable	7,990	Ft
635E9906	6 Strand Fiber Optic Cable	1,133	Ft
635E9924	24 Strand Fiber Optic Cable	4,745	Ft



BRIDGE / BARRIER MOUNTED LUMINAIRE POLE

Luminaire Poles L14, L15, L16, and L17 are barrier mounted poles. The anchor bolt will be designed by the pole fabricator and will not exceed the barrier height. Refer to Section E for mounting details.

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

SOILS INFORMATION

Location	Subsurface Soils Below Proposed Signal Location	Anticipated Groundwater Depth
Cliff Ave and 41 st St (SP-A1)	0' - 11' Brown clay silt 11'-14' Brown sand and gravel 14' Refusal, quartzite	10'
Cliff Ave and 41 st St (SP-A2)	0' - 3' Brown silt clay 3' - 7' Brown clay 7' - 12.5' Brown sand and gravel 12.5' - 13.5' Cobbles and fractured quartzite 13.5' Refusal, quartzite	8'
Cliff Ave and 41 st St (SP-A3)	0' - 10' Brown clay 10' - 16' Cobbles and fractured quartzite 16' Refusal, quartzite	Below 7'
Cliff Ave and 41 st St (SP-A4)	0' - 9' Brown clay 9' - 15' Brown sand and gravel 15' Refusal, quartzite	Below 12'
Cliff Ave and 38th St (SP-A5)	0' - 2.5' Brown silt clay 2.5' - 5' Brown clay 5' - 7' Cobbles and fractured quartzite 7' Refusal, quartzite	Below 6'
Cliff Ave and 38th St (SP-A6)	0' - 1.2' Concrete and gravel surfacing 1.2' - 3.8' Gray to brown clay 3.8' - 4.2' Cobbles and fractured quartzite 4.2' Refusal, quartzite	2.0'
Cliff Ave and 38th St (SP-A7)	0' - 1.7' Concrete and gravel surfacing 1.7' - 8.0' Gray to brown clay 8' - 11.5' Cobbles and fractured quartzite 11.5' Refusal, quartzite	8.0'
Cliff Ave and 38th St (SP-A8)	0' - 2' Brown silty sand and gravel 2' - 7' Brown to gray clay silt 7' - 8' Cobbles and fractured quartzite 8' Refusal, quartzite	Below 7'

1. Footing locations that have high water tables or contain sand, gravel, or cobbles are potential candidates for caving soils. During construction of the cylindrical footings, concrete placement operations will closely follow excavation procedures. The longer the excavations are left open, the more likely caving will occur. If caving soils are encountered, it may be necessary to use casing or drilling fluids to maintain an open excavation. Casing will be of sufficient strength to withstand handling and installation procedures. Casing material will consist of Sonotube, corrugated metal pipe, PVC, smooth metal pipe or any other material as approved by the Engineer. Drilling fluids can be water or other slurries as approved by the Engineer. Concrete will not be dropped through standing water. Concrete placed through drilling fluids will be tremied. If caving is not an issue but water is present, it must be removed prior to concrete placement, or the concrete will be tremied.

2. At signal pole location A7, the Contractor will first attempt to install a 4' x 9' cylindrical footing. Drilling operations at this location may require pre-bore with a smaller bit before to the final footing diameter. If intact quartzite is encountered at a depth less than 9' below finished ground a spread footing alternative provided by the Office of Bridge Design will be utilized for the signal pole at this location.

SPREAD FOOTING ON ROCK

The rock surface will be cleaned of all soil and debris prior to placing rock dowels and reinforcing steel for the spread footing. Cleaning will be accomplished by water washing and/or air jetting. Material washed from the rock surface will be directed into a sump or low area and physically removed from the exposed rock surface.

The cost of cleaning the rock will be included in the unit price bid for Structure Excavation. Payment will be considered full compensation for all materials, labor, equipment, and incidentals necessary to satisfactorily complete the work.

The steel dowel for use with the item Install Dowel in Rock is included in the Reinforcing Schedule and will be paid for at the unit price bid for Reinforcing Steel. Install Dowel in Rock will not be measured unless a change is ordered. Payment will be for the lineal foot of embedment into the rock, and will be considered full compensation for all materials, labor, equipment, and incidentals necessary to satisfactorily complete the work.

Dowel bond material will be suitable for bonding steel dowel bars to rock in the existing moisture conditions. The Contractor will submit dowel bonding material product data to the Engineer for approval. Site mixed and cartridge resins will be commercially available and manufactured for rock dowel installation in this rock type. The diameter of the hole, drilled into the rock, will be a maximum of 3/8 inch larger than the diameter of the steel dowel, or as specified by the dowel bond material manufacturer. The drilled holes will be blown out with compressed air using a device that will reach the bottom of the hole to ensure that all debris or loose material has been removed prior to epoxy injection.

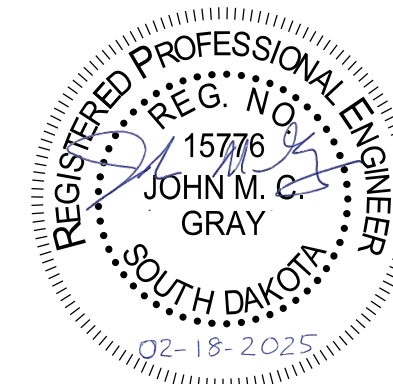
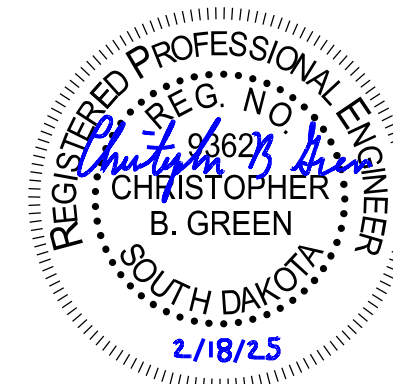
TABLE OF FOOTING DATA

Site Designation	Footing Diameter	* Footing Depth	**Spiral Diameter	**Spiral Length	Vertical Reinforcement
A9, A10, A12, A13, A14, A15, A17, A18, A19, A20, A22, A23, A24, A26, A27	2' - 0"	4' - 0"	1' - 8"	33' - 9"	8-#7 x 3' - 6"
CFL1 - CFL8, CFL11, CFL14, CFL15, CFL18 - CFL24, 41L1 - 41L12	2' - 0"	7' - 0"	1' - 8"	49' - 6"	8-#7 x 6' - 6"
AL1 - AL7, BL1 - B7, CL1 - CL7, DL1 - DL8	2' - 0"	8' - 0"	1' - 8"	54' - 9"	8-#7 x 7' - 6"
L1 - L13, L18 - L32, HSL1, HSL2	2' - 0"	9' - 0" ***	1' - 8"	60' - 0"	8-#7 x 8' - 6"
A11, A16, A21, A25	2' - 0"	10' - 0"	1' - 8"	65' - 3"	8-#7 x 9' - 6"
A3	3' - 0"	10' - 0"	2' - 8"	104' - 3"	14-#8 x 9' - 6"
A1, A2, A4	3' - 0"	12' - 0"	2' - 8"	120' - 9"	14-#8 x 11' - 6"
**** A7	4' - 0"	9' - 0"	3' - 8"	131' - 9"	23-#8 x 8' - 6"
A5, A6, A8	SEE SECTION E FOR SPREAD FOOTING DATA				

- * Footing depth will be below ground level.
- ** The size of all spirals will be #3.
- *** For HSL1 & HSL2, 2' of the 9' tall footings will be installed above ground.
- **** See Section E for spread footing alternative.

During construction of the cylindrical footings, concrete placement operations should closely follow excavation procedures. The longer the excavations are left open, the more likely caving may occur.

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.



FIBER OPTIC CABLE

Fiber optic cable will be furnished and installed by the Contractor. Fiber optic cable will meet all requirements discussed in the City's specifications. Each fiber optic cable will have buffer tubes containing 12 fiber strands.

25 feet of fiber cable coil will be installed in the side mounted cabinet. The fiber optic cable will be installed continuous from traffic cabinet to traffic cabinet. No splices will be allowed in the fiber optic cable, except in the cabinets. All terminations and/or splicing will be completed by the City of Sioux Falls fiber optic specialist. For questions regarding the fiber optic cabling, contact Matt Rock at (605) 941-1143.

Note that fisheye cameras with power cable runs greater than 300 feet from traffic signal cabinet to camera will require that 6 strand single mode fiber optic cables be used instead of CAT 5 cables.

The fiber optic cable will be installed in accordance with the manufacturer's recommendations and the NEC. Slack cable will be left in each controller and junction box. All junction boxes will have 50-feet of slack. Slack cable will be over / under coiled. Tying will be loose and kept to a minimum to prevent damage when operating lid. No splices will be allowed in the fiber optic cable except in the controllers. Splices will be of the fusion splice type. All fusion splices will be placed in a splice tray. Terminations will be of the epoxy/polish type, or fusion splice to pig tail type.

No testing will be completed on the fiber optic cable by the Contractor. All testing will be completed by the City outside of this project / contract. If repairs are needed to be completed by the Contractor due to deficiencies found by the City during their testing, the Contractor will repair the fiber optic cable as required to correct these deficiencies at no cost to the City.

INNERDUCT

Innerduct will meet the following requirements:

- Compliant with NFPA70, National Electric Code
- UL listed
- Meets NEMA TC-7
- Have smooth exterior and longitudinally ribbed interior.

The innerduct conduit will be orange in color and longitudinally ribbed on the inside wall.

The innerduct bid items will include furnishing and installing the innerduct, as well as all work to seal the traffic interconnect conduit within the junction boxes.

Innerduct ends will be sealed using a mastic style tape wrapped around the end of the innerduct and fiber optic cable. If innerduct is empty, a heat shrinkable cap will be installed over the end of the innerduct.

All costs for the innerduct will be included in the contract unit price per foot for "1.5" Innerduct SDR 13.5".

TRAFFIC AND FIBER OPTIC CABLE CONDUIT

All nonmetallic conduit open ends will have an approved bell end or bushing installed to prevent damage to cable or conductors, per the City's specifications Section 635A.3.G.6. #12 AWG Tracer wire will be installed in all traffic conduit and interconnect. The tracer wire will be paid for separately under its respective bid item, unless noted otherwise.

SIGNAL AIMING

Signals will be aimed such that all signals for each approach will be continuously visible for the minimum distance listed in the table in Section 4D-12 of the MUTCD.

All costs required for this work are incidental to the "3 Section Vehicle Head" and "4 Section Vehicle Head" pay items.

ELECTRICAL SERVICE CABINET

All costs to furnish and install the Electrical Service Cabinets as shown on the plans and as discussed below will be incidental to the contract unit price per each for "Electrical Service Cabinet".

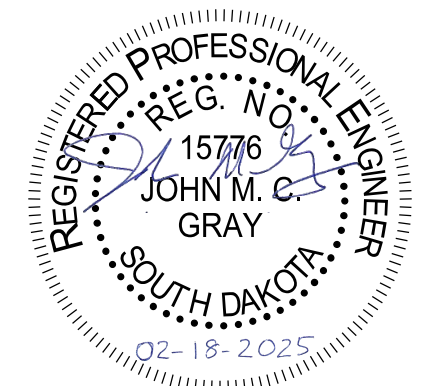
(Meter 1, 2, 3, 4, 5 and 6)

The electrical service cabinets will be U6281-XL-200-5T9 as manufactured by Milbank or approved equal. The electrical service cabinets will be mounted to 8'-6"x6" ground-contact pressure treated wood post, 3' burial depth. Conduits will be attached to post with strut and clamps at 6" above ground. The City of Sioux Falls standard plates #635.41 and #635.42 are shown in the plans for general guidance for these electrical service cabinets.

There are a total of 6 Electrical Service Cabinets required for signals and lighting. Three of the cabinets are shown on the plans for the lighting system, the other three will be located adjacent to the traffic signal controller cabinets and meter sockets (CC1, CC2, and CC3).

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM-B-CR 2292(101)3	L12	L73

Revised Date: 02/18/2025
Initials: NBG

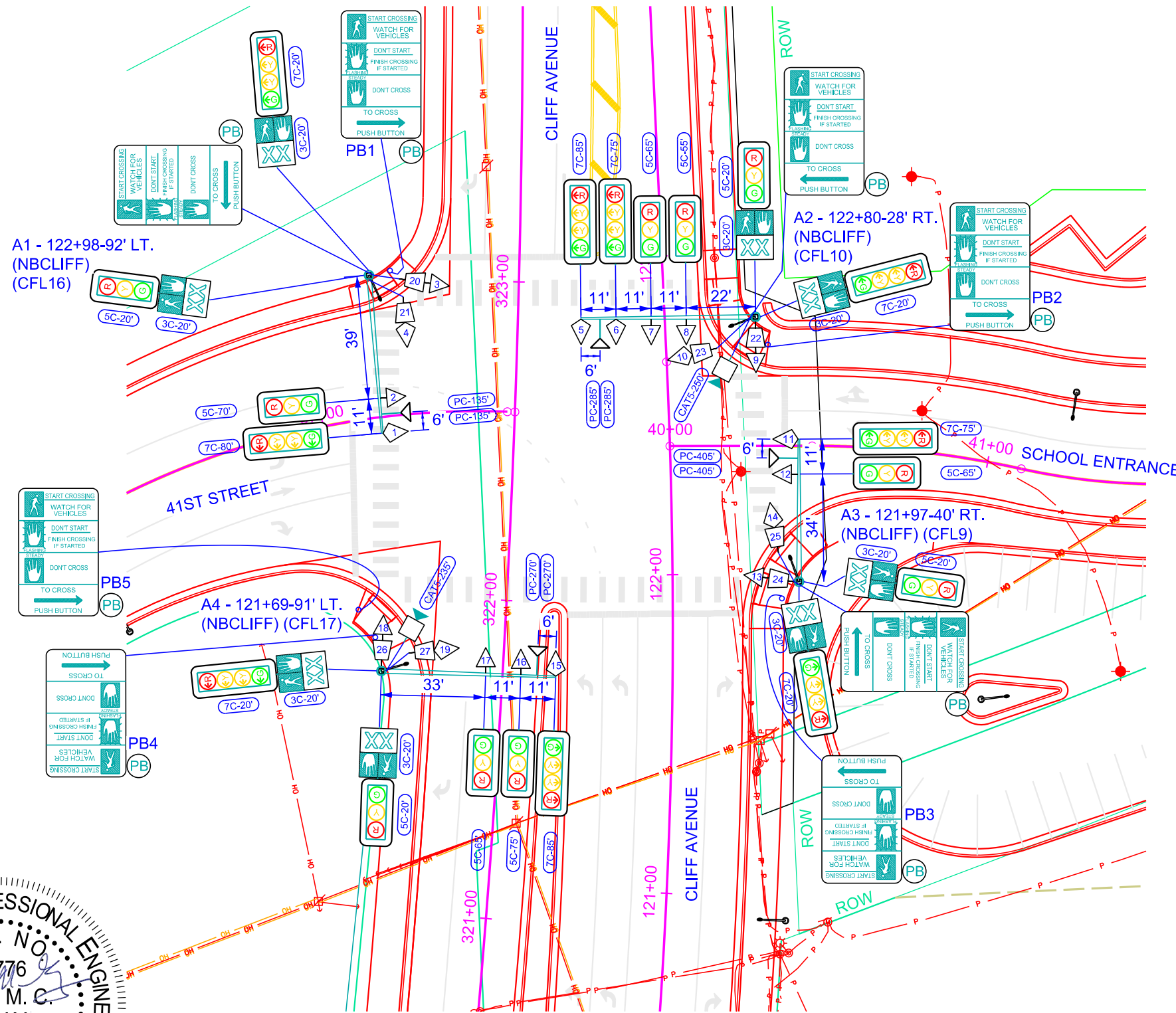


SIGNAL LAYOUT

CLIFF AVENUE & 41ST STREET

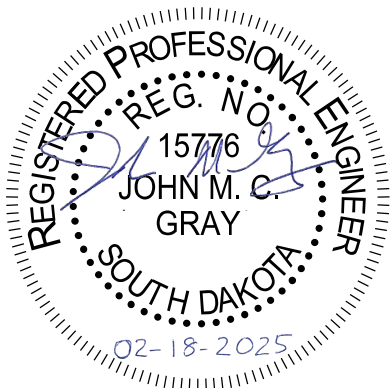
STATE OF SOUTH DAKOTA	PROJECT IM-B-CR 2292(101)3	SHEET L27	TOTAL SHEETS L73
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Plotting Date: 2/18/2025 Revised Date: 2/18/2025
Initials: NBG



ESTIMATE OF QUANTITIES			
KEY	ITEM	UNIT	EST QUANT
	Signal Pole w/45' Mast Arm & 8' Lumin Arm, 40' Mt Ht (A3)	EACH	1
	Signal Pole w/50' Mast Arm & 8' Lumin Arm, 40' Mt Ht (A1)	EACH	1
	Signal Pole w/55' Mast Arm & 8' Lumin Arm, 40' Mt Ht (A2, A4)	EACH	2
	3 Section Vehicle Signal Head (2,3,7,8,9,12,13,16,17,18)	EACH	10
	4 Section Vehicle Signal Head (1,4,5,6,10,11,14,15,19)	EACH	9
	Optical Detector	EACH	4
	Accessible Pedestrian Signal Push Button	EACH	8
	Pedestrian Signal Head w/Countdown Timer (20,21,22,23,24,25,26,27)	EACH	8
	Adaptive Signal Camera and Equipment (1 Processor)	EACH	2
	Pedestrian Push Button Pole (PB1,PB2,PB3,PB4,PB5)	EACH	5
	Pedestrian Crossing Sign R10-3b (Left - 4/Right - 4)	EACH	8
	Emergency Vehicle Preemption Unit	EACH	1
	3' Diameter Footing (A1,A2,A3,A4)	FT	46.0

NOTE:
CONTRACTOR TO SUPPLY HUB FOR
ADAPTIVE SIGNAL CAMERAS AT A2 AND A4.



REMOVAL OF QUANTITIES (LIGHTING)

KEY	ITEM	EST QUANT	UNIT
(2" RG SC)	2" Rigid Galvanized Steel Conduit	LUMP SUM*	LS
(2" SCH 40)	2" Rigid Conduit, Schedule 40	LUMP SUM*	LS
(UNKN)	Unknow Size Conduit	LUMP SUM*	LS
(# 3AL)	Triplex Aluminum 2/2/4 Wire	LUMP SUM*	LS
(UNKN)	Unknown Conductor Number and Size Wire	LUMP SUM*	LS
(DBC)	Direct Bury Cable	LUMP SUM*	LS
(EM1)	Remove Existing Meter Service (EM1)	LUMP SUM*	LS
(EJL)	Remove Existing Electrical Junction Box (EJL1 - EJL15)	LUMP SUM*	LS
(EL)	Salvage Luminaire Pole (EL1 - EL4, EL9 - EL12, EL17 - EL23)	15	EACH
(EL)	Salvage Luminaire (From Luminaire Pole) (EL1 - EL4, EL9 - EL12, EL17 - EL23)	15	EACH
(EL)	Salvage Luminaire (From Signal Pole) (EL5 - EL8, EL13 - EL16)	8	EACH

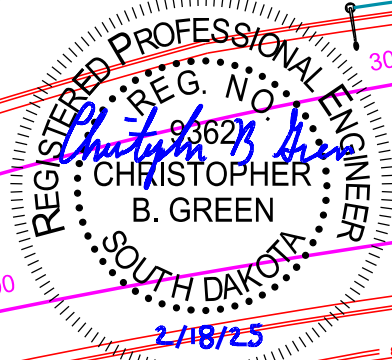
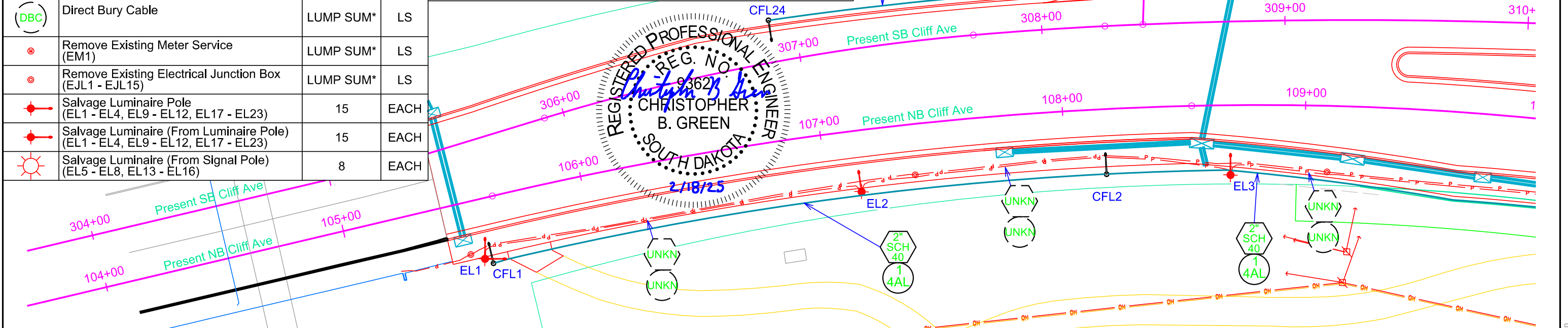
CONDUIT LAYOUT CLIFF AVENUE

STATE OF SOUTH DAKOTA	PROJECT IM-B-CR 2292(101)3	SHEET L32	TOTAL SHEETS L73
Plotting Date: 2/18/2025		Revised Date: 2/18/2025 Initials: NBG	

REMOVAL OF QUANTITIES (LIGHTING)

KEY	ITEM	EST QUANT	UNIT
(EL)	Remove Existing Luminaire Pole Footing (EL1 - EL4, EL9 - EL12, EL17 - EL23, ELHS1, ELHS2)	17	EACH
(EL)	Remove Light Tower (ELT1 - ELT5)	5	EACH
(EL)	Remove Luminaire Pole for Reset (ELHSL1, ELHSL2)	2	EACH

* INCLUDED IN THE BID ITEM "MISCELLANEOUS ELECTRICAL"



ESTIMATE OF QUANTITIES (LIGHTING)

KEY	ITEM	EST QUANT	UNIT	KEY	ITEM	EST QUANT	UNIT	KEY	ITEM	EST QUANT	UNIT
(CFL)	Breakaway Base Luminaire Pole, 30' Mounting Height W/8' Arm (CFL 14)	1	EACH	(JL)	Type 2 Electrical Junction Box (Lighting) (JL1 - JL50)	50	EACH	(2" SCH 80)	2" Rigid Conduit, Schedule 80	3,081	FT
(CFL)	Breakaway Base Luminaire Pole, 40' Mounting Height W/8' Arm (CFL1 - CFL13, CFL15 - CFL24, 41L1 - 41L12)	35	EACH	(JSM)	Surface Mounted Junction Box (JSM1 - JSM6)	6	EACH	(# 4AL)	Quadruplex Aluminum 2/2/2/4 Wire	8,728	FT
(CFL)	Breakaway Base Luminaire Pole, 50' Mounting Height W/8' Arm (AL1 - AL7, BL1 - BL7, CL1 - CL7, DL1 - DL8)	29	EACH	(M)	Meter Socket Not a Bid Item	3	EACH	(# #2)	1/C #2 AWG Copper Wire	13,476	FT
(CFL)	Breakaway Base Luminaire Pole, 50' Mounting Height W/8' Twin Arm (L1 - L13, L18 - L32)	28	EACH	(ESC)	Electrical Service Cabinet (ESC1, ESC2, ESC3)	3	EACH	(# #4)	1/C #4 AWG Copper Wire	6,574	FT
(CFL)	Roadway Underpass Luminaire, LED (CFLU1 - CFLU8)	8	EACH	(RG SC)	3/4" Rigid Galvanized Steel Conduit	270	FT	(# #6)	1/C #6 AWG Copper Wire	38,338	FT
(CFL)	Roadway Luminaire, LED with Photoelectric Cell (CFL1 - CFL24, 41L1 - 41L12, L1 - L32, AL1 - AL7, BL1 - BL7, CL1 - CL7, DL1 - DL8, HSL1 - HSL2)	127	EACH	(SCH 40)	3/4" Rigid Conduit, Schedule 40	568	FT	(# #8)	1/C #8 AWG Copper Wire	13,201	FT
(NPUL)	Pedestrian Underpass Luminaire, LED (NPUL1 - NPUL6, SPUL1 - SPUL5)	11	EACH	(RG SC)	1" Rigid Galvanized Steel Conduit	211	FT	(# #10)	1/C #10 AWG Copper Wire	2,584	FT
(HSL)	Reset Luminaire Pole, (HSL1 - HSL2)	2	EACH	(SCH 40)	1" Rigid Conduit, Schedule 40	99	FT	(*)	* Inside pole 12/2 UF Copper Wire	8,190	FT
(L)	2' Diameter Footing (L1 - L13, L18 - L32, AL1 - AL7, BL1 - BL7, CL1 - CL7, DL1 - DL8, CFL1 - CFL8, CFL11, CFL14, CFL15, CFL18 - CFL24, 41L1 - 41L12, HSL1 - HSL2)	705	FT	(SCH 40)	2" Rigid Conduit, Schedule 40	18,788	FT				
(L)	Fixed Base Luminaire Pole with Arm, 50' Mounting Height (L14 - L17)	4	EACH	(SCH 40)	3" Rigid Conduit, Schedule 40	31	FT				

Plot Scale: 1"=40'

Plotted From: engiersvik

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