

**271st St. Improvements, HWY 111 to I-29  
Tea, SD**

<b>Cost Description</b>	<b>Estimated Cost (2015)</b>	<b>Estimated Cost (2017*)</b>
Roadway (excludes water and sewer)	\$ 7,519,250	\$ 8,301,859
Utility (water and sewer)	\$ 1,018,500	\$ 1,124,506
Design and Construction services	\$ 1,208,708	\$ 1,334,511
ROW	\$ 885,000	\$ 977,111
<b>Total Estimated Cost (year 2015)</b>	\$ 10,631,458	
<b>Total Estimated Cost (year 2017*)</b>		\$ 11,737,988
<i>*3% inflation rate used</i>		

**TIGER Application**

TIGER	\$ 10,363,482
Match:	\$ 1,374,506
City of Tea	\$ 1,124,506
Lincoln County	\$ 250,000
Total	\$ 11,737,988

*Match % 12%*

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Item No.	Description	Unit	Quantity	Unit Price	Total Price
<b>GRADING</b>					
1	Mobilization	LS	1	\$ 475,000.00	\$ 475,000
2	Remove Asphalt Concrete Pavement	SqYd	32,000	\$ 1.00	\$ 32,000
3	Misc. Removals	LS	1	\$ 15,000.00	\$ 15,000
4	Salvage Topsoil	CuYd	15,000	\$ 2.00	\$ 30,000
5	Unclassified Excavation	CuYd	55,000	\$ 3.00	\$ 165,000
6	Contractor Furnished Borrow	CuYd	7,000	\$ 3.50	\$ 24,500
7	Geogrid Reinforcement	SqYd	62,000	\$ 5.30	\$ 328,600
				<b>Grading Subtotal Cost</b>	<b>\$ 1,070,100</b>
<b>ROW</b>					
8	Permanent ROW Easements	SqFt	75,000	\$ 10.00	\$ 750,000
9	Temporary ROW Easements	SqFt	90,000	\$ 1.50	\$ 135,000
				<b>ROW Subtotal Cost</b>	<b>\$ 885,000</b>
<b>SURFACING</b>					
10	9" Non-Reinforced Concrete Pavement	SqYd	50,000	\$ 48.00	\$ 2,400,000
11	Asphalt Concrete	Tons	700	\$ 75.00	\$ 52,500
12	Concrete Curb & Gutter	Ft	29,000	\$ 11.00	\$ 319,000
13	Concrete Sidewalk	SqFt	104,000	\$ 3.00	\$ 312,000
14	Colored and Patterned Median Pavement	SqFt	7,100	\$ 6.50	\$ 46,150
15	Base Course	Ton	40,000	\$ 11.00	\$ 440,000
				<b>Surfacing Subtotal Cost</b>	<b>\$ 3,569,650</b>
<b>TRAFFIC CONTROL</b>					
16	Traffic Control	Unit	15,000	\$ 2.50	\$ 37,500
17	Traffic Control, Miscellaneous	LS	1	\$ 50,000.00	\$ 50,000
18	Changeable Signs	Each	4	\$ 5,500.00	\$ 22,000
19	Special Detour Signs	Each	20	\$ 800.00	\$ 16,000
20	Temporary Access Roads	SqYd	7,000	\$ 4.50	\$ 31,500
				<b>Traffic Control Subtotal Cost</b>	<b>\$ 157,000</b>
<b>EROSION CONTROL</b>					
21	Seed, Fertilize, Mulch, Water	SqYd	40,000	\$ 1.20	\$ 48,000
22	Sodding	SqYd	10,000	\$ 2.50	\$ 25,000
23	Silt Fence	Ft	16,000	\$ 4.00	\$ 64,000
24	Inlet Protection	Each	50	\$ 70.00	\$ 3,500
25	2" Caliper Deciduous Tree	Each	100	\$ 300.00	\$ 30,000
26	Median Landscape Area	SqYd	500	\$ 18.00	\$ 9,000
27	Rip Rap	SqYd	500	\$ 38.00	\$ 19,000
28	Irrigation System	LS	1	\$ 60,000.00	\$ 60,000
29	Miscellaneous Landscaping	LS	1	\$ 9,000.00	\$ 9,000
30	Misc. Erosion Control (sweeping, wattles, erosion blanket, tracking control)	LS	1	\$ 20,000.00	\$ 20,000
				<b>Erosion Control Subtotal Cost</b>	<b>\$ 287,500</b>
<b>STORM SEWER</b>					
31	18" RCP Storm Pipe	Ft	2,000	\$ 50.00	\$ 100,000
32	30" RCP Storm Pipe	Ft	1,200	\$ 80.00	\$ 96,000
33	36" RCP Storm Pipe	Ft	700	\$ 105.00	\$ 73,500
34	48" RCP Storm Pipe	Ft	2,000	\$ 170.00	\$ 340,000
35	54" RCP Storm Pipe	Ft	1,100	\$ 200.00	\$ 220,000
36	60" RCP Storm Pipe	Ft	1,100	\$ 250.00	\$ 275,000
37	66" RCP Storm Pipe	Ft	1,100	\$ 300.00	\$ 330,000
38	8'x3' Box Culvert	Ft	60	\$ 500.00	\$ 30,000
39	Flared Ends and Bends	Each	20	\$ 2,500.00	\$ 50,000
40	Storm Inlet	Each	50	\$ 3,000.00	\$ 150,000
41	4" Underdrain Pipe	Ft	15,000	\$ 5.00	\$ 75,000
				<b>Storm Sewer Subtotal Cost</b>	<b>\$ 1,739,500</b>

Item No.	Item Description	Unit	Approx. Qty	Unit Bid Price	Amount Bid
<b>WATERMAIN</b>					
42	12" PVC Watermain	Ft	8,500	\$ 35.00	\$ 297,500
43	6" PVC Watermain	Ft	700	\$ 23.00	\$ 16,100
44	12" Gate Valve	Each	12	\$ 2,300.00	\$ 27,600
45	6" Gate Valve	Each	26	\$ 1,000.00	\$ 26,000
46	12"x6" Tee	Each	20	\$ 700.00	\$ 14,000
47	12"x12" Cross	Each	4	\$ 900.00	\$ 3,600
48	12" Misc. Fittings (bend, sleeve, cap, etc.)	Each	30	\$ 600.00	\$ 18,000
49	Fire Hydrant	Each	20	\$ 2,600.00	\$ 52,000
50	Water Service, 1" or 2"	Ft	700	\$ 35.00	\$ 24,500
51	Connect to Existing Watermain	Each	4	\$ 800.00	\$ 3,200
52	12" Boring	Ft	300	\$ 160.00	\$ 48,000
53	Trench Stabilization Material	Ton	200	\$ 15.00	\$ 3,000
54	Trench Dewatering	LS	1	\$ 3,000.00	\$ 3,000
<b>Watermain Subtotal Cost</b>					<b>\$ 536,500</b>
<b>SANITARY SEWER</b>					
55	12" Sanitary Sewer Pipe 12' to 16' Deep	Ft	0	\$ 45.00	\$ -
56	12" Sanitary Sewer Pipe 16' to 20' Deep	Ft	800	\$ 75.00	\$ 60,000
57	12" Sanitary Sewer Pipe 20' to 24' Deep	Ft	1,200	\$ 95.00	\$ 114,000
58	12" Sanitary Sewer Pipe 24' to 28' Deep	Ft	0	\$ 80.00	\$ -
59	48" Lined Manhole 12'-16' Deep	Each	0	\$ 5,500.00	\$ -
60	48" Lined Manhole 16'-20' Deep	Each	4	\$ 7,000.00	\$ 28,000
61	48" Lined Manhole 20'-24' Deep	Each	4	\$ 8,000.00	\$ 32,000
62	48" Lined Manhole 24'-28' Deep	Each	0	\$ 9,500.00	\$ -
63	Sanitary Sewer Service, 4" or 6"	Ft	800	\$ 40.00	\$ 32,000
64	24" Boring & Casing Pipe	Ft	300	\$ 330.00	\$ 99,000
65	Sewer Main Testing	Ft	2,000	\$ 3.50	\$ 7,000
66	Select Trench Fill	Ft	2,000	\$ 45.00	\$ 90,000
67	Trench Dewatering	LS	1	\$ 20,000.00	\$ 20,000
<b>Sanitary Sewer Subtotal Cost</b>					<b>\$ 482,000</b>
<b>PERMANENT SIGNING</b>					
68	Remove Existing Traffic Sign	Each	50	\$ 40.00	\$ 2,000
69	Install Traffic Sign	Each	90	\$ 450.00	\$ 40,500
<b>Permanent Signing Subtotal Cost</b>					<b>\$ 42,500</b>
<b>PAVEMENT MARKINGS</b>					
70	4" White or Yellow	Ft	7,500	\$ 4.00	\$ 30,000
71	12" White	Ft	1,000	\$ 13.00	\$ 13,000
72	24" White	Ft	700	\$ 25.00	\$ 17,500
73	Arrow	Each	50	\$ 350.00	\$ 17,500
<b>Pavement Markings Subtotal Cost</b>					<b>\$ 78,000</b>
<b>LIGHTING AND SIGNALS</b>					
74	Luminaires (includes conduit, wires, etc.)	Each	50	\$ 5,000.00	\$ 250,000
75	Mast Arm w/ Signals and Luminaires	Each	8	\$ 25,000.00	\$ 200,000
<b>Lighting Subtotal Cost</b>					<b>\$ 450,000</b>
<b>Total Cost Estimate</b>					<b>\$ 9,297,750</b>
<b>Engineering and Design Costs (6.0%)</b>					<b>\$ 557,865</b>
<b>Wetland Mitigation Costs</b>					<b>\$ 125,000</b>
<b>CA Services Costs (7.0%)</b>					<b>\$ 650,843</b>
<b>Grand Total Cost Estimate</b>					<b>\$ 10,631,458</b>