

	PROJECT .	SHEET	TOTAL
	2023-008	1	45
	COVER SHEE	T	
INDE	EX OF SHEETS		
1	COVER SHEET		
2-3	QUANTITIES		1
4-7	NOTES		
8-10	SWPPP		
11-13	TRAFFIC CONTROL		
14	EROSION CONTROL		
15	TYPICAL SECTION		
16-18	REMOVALS		
19-25	WATERMAIN		
26-27	SEWER		
28-32	SIDEWALK AND PAVEMENT REPLACE	MENT	
33-38	ASPHALT REPLACEMENT		
39-45	DETAILS		
PROJEC	T SITE 2023-008		
KAREN DR.	FROM PENINAH ST. TO VALLEY RD.		
VALLEY RD.	FROM BURLEIGH ST. TO 21ST ST.		
CITY OF YAI	NKTON, SOUTH DAKOTA		
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Item	Description	Quantity	Unit
	General		
1	Mobilization	1	LS
2	Incidental	1	LS
	Traffic Control		
3	Traffic Control	2690	UNITS
4	Traffic Control Miscellaneous	1	LS
	Erosion Control		
5	Vehicle Tracking Control	3	EA
6	Topsoil	1	LS
7	Seeding, Mulching, Fertilizer	1	LS
8	Inlet Sediment Control	9	EA
9	Geotextile Fabric	400	SY
10	Silt Fence	100	LF
	Removals		
11	Saw Existing Concrete	642	LF
12	Saw Existing Asphalt	218	LF
13	Removal of Concrete Pavement	854	SY
14	Removal of Asphalt Pavement	9028	SY
15	Removal of Curb and Gutter	671	LF
16	Unclassified Excavation	1	LS
17	Undercutting	200	CY
18	Water for Embankment or Granular Material	20	Kgal
19	Clearing and Grubbing	1	LS
	Watermain		
20	6" PVC Watermain C-900	2822	LF
21	12" PVC Watermain C-900	12	LF
22	1" Copper Service Line	229	LF
23	6" MJ Gate Valve with Box	14	EA
24	12" MJ Gate Valve with Box	1	EA
25	6" X 6" X 6" MJ Tee	11	EA
26	12" X 12" X 6" MJ Tee	1	EA
27	6" X 45° MJ Bend	9	EA
28	6" X 22.5° MJ Bend	9	EA
29	6" Megalugs	111	EA
30	12" Megalugs	6	EA
31	6" Oversized MJ Skeve	5	EA
32	6" MJ Sleeve	1	EA
33	12" MJ Sleeve	1	EA
34	6" Cap	4	EA
35	Cut and Tie into Existing Main	6	EA
36	Water Service Line Reconnect	30	EA
37	Temporary Fire Hydrant	3	EA
38	Install Fire Hydrant	6	EA
39	Granular Material for Watermain	2834	LF
40	Remove Existing Water Main Pipe	10	LF
41	Remove Existing Valve	3	EA
42	Remove Existing Fire Hydrant	6	EA
10.55×14			0.000000000

	Sanitary Sewer		
43	Remove Existing Vault	1	EA
44	Remove Existing Sanitary Sewer Pipe	204	LF
45	8" PVC Sanitary Sewer 8' to 10'	65	LF
46	8" PVC Sanitary Sewer 10' to 12'	139	LF
47	F&I 48" Manhole 10' to 12'	1	EA
48	Tie Into Existing Clay Pipe	6	EA
49	Tie Into Existing Manhole	2	EA
50	Granular Material for Sewer Main	204	LF
51	Replace Manhole Frame and Cover	2	EA
52	Sanitary Sewer Service Repair	2	EA
	Surfacing		
53	Concrete Curb & Gutter (B66)	671	LF
54	4" Sidewalk	4728	SF
55	6" Sidewalk	2295	SF
56	6" Sidewalk w/ 8"Curb Attached	705	SF
57	6" Sidewalk w/ 1' Curb Attached	1440	SF
58	Salvage and Reinstall Landscape Wall	1	LS
59	6" Approach Pavement	2742	SF
60	6" Concrete Pavement	1443	SF
61	6" Fillet Section	755	SF
62	6" Valley Gutter	981	SF
63	Aggregate Base Course	9308	SY
64	Drill Bars into Exissting Pavement	77	EA
65	Detectable Warning Panel	130	SF



TABLE OF PLACEMENT /INSTALLMEN	T OF CONCRETE SIDEWALI REMOVE(SY)	K REPLACE/INSTALL (SF)
2+77.75 TO 2+82.87 RT. 2+82.87 TO 2+93.43 RT. 2+93.43 TO 3+07.85 RT. 3+07.85 TO 3+27.84 RT. 3+27.84 TO 3+90.94 RT. 3+90.94 TO 4+01.41 RT. 4+01.41 TO 4+63.43 RT. 4+63.43 TO 4+81.72 RT. 4+63.43 TO 4+81.72 RT. 4+81.72 TO 5+82.61 RT. 1+46.06 TO 1+50.95 LT. 1+50.95 TO 2+70.48 LT. 2+70.48 TO 3+10.27 LT. 3+10.27 TO 3+70.39 LT. 5+19.11 TO 5+33.27 LT. 5+33.27 TO 5+50.24 LT. 5+50.24 TO 6+19.57 LT. 7+86.96 TO 7+91.96 LT.	31 2	220.5 42 (6") 58 79 (6") 254.5 43 (6") 248 74 (6") 404 55 (6") (10 SF DWP) 620 239 (6") 341 56 69 (6") 278 46 (6") (10 SF DWP)
		647 (TOTAL 6") 2480 (TOTAL 4")
TOTAL	33	3027 20 SF DWP
TABLE OF REMOVE AND REPLACEME	NT /INSTALLMENT OF CON	CRETE SIDEWALK
1+55.12 TO 3+16.56 LT. 4+19.32 TO 4+27.04 LT. 4+27.04 TO 4+45.90 LT. 4+45.90 TO 5+44.16 LT. 8+29.40 TO 8+34.40 LT. 9+01 TO 9+17.5 RT.	10 7	911 (6") (12 SF DWP) 32.5 96 (6") 469.5 46 (6") (10 SF DWP) 62
		1053 (TOTAL 6") 591 (TOTAL 4")
TOTAL	17	1644 22 SF DWP
TABLE OF REMOVE AND REPLACEME	NT /INSTALLMENT OF CON REMOVE(SY)	ICRETE SIDEWALK REPLACE/INSTALL (SF)
1+02.78 TO 1+12.89 RT. 1+12.89 TO 2+63.14 RT. 2+63.14 TO 2+81.93 RT. 2+81.93 TO 3+88.96 RT. 4+36.77 TO 4+50.43 RT. 4+50.43 TO 4+94.17 RT. 4+94.17 TO 5+15.63 RT. 5+15.63 TO 6+18.50 RT. 5+91.59 TO 5+96.59 LT. 7+87.09 TO 8+01.85 LT. 8+01.85 TO 8+04.85 LT. 8+01.85 TO 8+12.63 LT. 6+53 TO 6+90 RT. 6+90 TO 7+67.27 RT. 7+67.27 TO 8+04.45 RT. 8+04.45 TO 8+14.5 RT.	8 3.5 7.5 6 5 8.5	57 (6") (10 SF DWP) 830 124 (6") 705 (6" W/ 8"CURB) (12 SF DWP) 84 (6") (10 SF DWP) 225 132 (6") 863 (6" W/ 1'CURB) (24 SF DWP) 42 (6") (10 SF DWP) 57 44 76 (6") (10 SF DWP) 262 577 (6" W/ 1'CURB) 239 80 (6") (12 SF DWP) 595 (TOTAL 6") 1657 (TOTAL 6") 1657 (TOTAL 6" W/ 8"CURB) 1440 (TOTAL 6" W/ 1'CURB)
TOTAL	38.5	4397 88 SF DWP

				PROJECT	SHEET	TOTAL
TABLE OF REMOVE AND REPLACEMENT/INSTALLMENT OF CONCRETE APPROACH PAVEMEN		TE APPROACH PAVEMENT	2023-008	NO. 3	45	
LOCATION BRADLEY ST	REMOVE(SY)	REPLACE/	INSTALL (SF)	QUANTITIES		
2+82.87 TO 2+93.43 RT. 3+07.85 TO 3+27.84 RT. 3+90.94 TO 4+01.41 RT. 4+63.43 TO 4+81.72 RT. 2+70.48 TO 3+10.27 LT. 5+33.24 TO 5+50.24 LT.	7 27 6.5 25.5 02 24	117 179 107 164 741 148				
TOTAL	212	1456				
TABLE OF REMOVE AND REPLACE	MENT/INSTALLMEN REMOVE(SY)	T OF CONCRE REPLACE	TE APPROACH PAVEMENT INSTALL (SF)			
2+06.37 TO 2+35.30 LT. 3 4+27.04 TO 4+45.90 LT. 3	34 34	137 230				
TOTAL	58	367				
	MENT/INSTALLMEN					
LOCATION VALLEY RD	REMOVE(SY)	REPLACE	INSTALL (SF)			
2+63.14 TO 2+81.93 RT. 4+94.17 TO 5+15.63 RT. 5+53.65 TO 8+81.42 LT. 5+10.18 TO 6+41.74 LT.	39 48 23.5 19.5	224.5 283.5 229 182				
TOTAL	130	919				
TABLE OF 6" PCC FILLET SECTION LOCATION VALLEY RD	REMOVAL AND REP REMOVE	E(SY)	REPLACE/INSTALL (SF)			
SW COR. VALLEY RD & BURLEK SW COR. VALLEY RD & ROSS S SE COR. VALLEY RD & ROSS S S COR. VALLEY RD & KAREN D SW COR. VALLEY RD & 21ST S SE COR. VALLET RD & 21ST ST	SH ST 13 ST 26.5 T 7 SR 10.5 T 13 T 13		117 238.5 65.5 95.5 118.5 120			
TOTAL	83		755			
TABLE OF 6" PCC VALLEY GUTTER	REMOVAL AND RE	PLACEMENT E(SY)	REPLACE/INSTALL (SF)			
3+98.37 TO 4+41.69 RT. 6+17.49 TO 6+46.43 RT. 8+11.06 TO 8+16.82 LT.	43 32 21		386.5 287 189.5			
LOCATION KAREN DR						
2+77.50 TO 2+96.08 RT.	13		118			
TOTAL	109		981		11	
				111 ed Profess	1000111	
TABLE OF REPLACEMENT OF 6" CO	DNCRETE PAVEMEN REMOVI	IT E(SY)	REPLACE/INSTALL (SF)	Registe	naineet	11111
1+00 TO 1+16 8+17 TO 8+45 LT	56.5 62		510 559	ADAM HABERN	J. IAN	11111
LOCATION KAREN DR					024 ·	1111
12+06.78 TO 12+18	41.5		374			
TOTAL	160		1443	111111	111111	

				PROJECT	SHEET	TOTAL
TABLE OF REMOVE AND REPLACEMENT/INSTALLMENT OF CONCRETE APPROA			TE APPROACH PAVEMENT	2023-008	3	45
LOCATION BRADLEY ST	REMOVE(SY)	REPLACE/	INSTALL (SF)	QUANTITIES		
2+82.87 TO 2+93.43 RT. 3+07.85 TO 3+27.84 RT. 3+90.94 TO 4+01.41 RT. 4+63.43 TO 4+81.72 RT. 2+70.48 TO 3+10.27 LT. 5+33.24 TO 5+50.24 LT.	17 27 16.5 25.5 102 24	117 179 107 164 741 148				
TOTAL	212	1456				
TABLE OF REMOVE AND REPLAC	EMENT/INSTALLMEI REMOVE(SY)	NT OF CONCRE REPLACE/	TE APPROACH PAVEMENT INSTALL (SF)			
2+06.37 TO 2+35.30 LT. 4+27.04 TO 4+45.90 LT.	34 34	137 230				
TOTAL	68	367				
	EMENT/INCTALL ME					
LOCATION VALLEY RD	REMOVE(SY)	REPLACE/	INSTALL (SF)			
2+63.14 TO 2+81.93 RT. 4+94.17 TO 5+15.63 RT. 5+53.65 TO 8+81.42 LT. 6+10.18 TO 6+41.74 LT.	39 48 23.5 19.5	224.5 283.5 229 182				
TOTAL	130	919				
TABLE OF 6" PCC FILLET SECTIO	N REMOVAL AND RE REMOV	PLACEMENT (E(SY)	REPLACE/INSTALL (SF)			
SW COR. VALLEY RD & BURLE SW COR. VALLEY RD & ROSS SE COR. VALLEY RD & ROSS S COR. VALLEY RD & KAREN SW COR. VALLEY RD & 21ST SE COR. VALLET RD & 21ST	EIGH ST 13 ST 26.5 ST 7 DR 10.5 ST 13 ST 13		117 238.5 65.5 95.5 118.5 120			
TOTAL	83		755			
TABLE OF 6" PCC VALLEY GUTTE LOCATION VALLEY RD 3+98.37 TO 4+41.69 RT. 6+17.49 TO 6+46.43 RT. 8+11.06 TO 8+16.82 LT.	ER REMOVAL AND RI REMOV 43 32 21	EPLACEMENT /E(SY)	REPLACE/INSTALL (SF) 386.5 287 189.5			
LOCATION KAREN DR						
2+77.50 TO 2+96.08 RT.	13		118			
TOTAL	109		981		1111	
TABLE OF REPLACEMENT OF 6" LOCATION VALLEY RD 1+00 TO 1+16 8+17 TO 8+45 LT LOCATION KAREN DR	CONCRETE PAVEME REMOV 56.5 62	NT /E(SY)	REPLACE/INSTALL (SF) 510 559	ADAM HABERI	J. MAN Zozy	MANULUT
12+06.78 TO 12+18	41.5		374	TITI OUTH D	AKO	
TOTAL	160		1443	11111111111111111111111111111111111111		

				PROJECT	SHEET	TOTAL
TABLE OF REMOVE AND REPLACEMENT/INSTALLMENT OF CONCRETE APPROACH PAV			TE APPROACH PAVEMENT	2023-008	3	45
LOCATION BRADLEY ST	REMOVE(SY) REPLACE		(INSTALL (SF)	QUANTITIES		
2+82.87 TO 2+93.43 RT.	17	117				
3+90.94 TO 4+01.41 RT.	16.5	107				
4+63.43 TO 4+81.72 RT. 2+70.48 TO 3+10.27 LT.	25.5 102	164 741				
5+33.24 TO 5+50.24 LT.	24	148				
TOTAL	212	1456				
TABLE OF REMOVE AND REPLAC	CEMENT/INSTALLMEN REMOVE(SY)	T OF CONCRE REPLACE	TE APPROACH PAVEMENT			
2106 37 10 21 35 30 1 1	3/	137				
4+27.04 TO 4+45.90 LT.	34	230				
TOTAL	68	367				
TABLE OF REMOVE AND REPLAC	EMENT/INSTALLMEN	T OF CONCRE	ETE APPROACH PAVEMENT			
LOCATION VALLEY RD	REMOVE(SY)	REPLACE	/INSTALL (SF)			
2+63.14 TO 2+81.93 RT.	39	224.5				
4+94.17 10 5+15.63 RT. 5+53.65 TO 8+81.42 LT.	48 23.5	283.5				
6+10.18 TO 6+41.74 LT.	19.5	182				
TOTAL	130	919				
TABLE OF 6" PCC FILLET SECTION	ON REMOVAL AND REP	LACEMENT				
LOCATION VALLEY RD	REMOVE	E(SY)	REPLACE/INSTALL (SF)			
SW COR. VALLEY RD & BURL	EIGH ST 13		117			
SE COR. VALLEY RD & ROSS	ST 7		65.5			
S COR. VALLEY RD & KAREN SW COR. VALLEY RD & 21ST	DR 10.5 ST 13		95.5 118.5			
SE COR. VALLET RD & 21ST	ST 13		120			
TOTAL	83		755			
TABLE OF 6" PCC VALLEY GUTT						
LOCATION VALLEY RD	REMOVI	E(SY)	REPLACE/INSTALL (SF)			
3+98.37 TO 4+41.69 RT.	43		386.5			
6+17.49 TO 6+46.43 RT. 8+11.06 TO 8+16.82 LT.	32 21		287 189.5			
LOCATION RAKEN DR						
2+77.50 TO 2+96.08 RT.	13		118			
TOTAL	109		981			
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				il ereo	J. E. 1.	
TABLE OF REPLACEMENT OF 6" LOCATION VALLEY RD	CONCRETE PAVEMEN REMOV	T E(SY)	REPLACE/INSTALL (SF)	111 5 :	ne	
1±00 TO 1±16	50 5		510	- 2 K2456	i er	1111
8+17 TO 8+45 LT	62		559	- ADAM	J. AN	111
LOCATION KAREN DR					024	111
12+06.78 TO 12+18	41.5		374	AD HTU	K0	5
TOTAL	160		1443	11/1/11		
UTAL	100		1770	111111111	111	

				PROJECT	SHEET	TOTAL
TABLE OF REMOVE AND REPLACEMENT/INSTALLMENT OF CONCRE			ETE APPROACH PAVEMENT	2023-008	3	45
LOCATION BRADLEY ST	REMOVE(SY)	REPLACE	/INSTALL (SF)	QUANTITIES		
2+82.87 TO 2+93.43 RT.	17	117				
3+07.85 TO 3+27.84 RT. 3+90.94 TO 4+01.41 RT.	16.5	1/9				
4+63.43 TO 4+81.72 RT.	25.5	164				
5+33.24 TO 5+50.24 LT.	24	148				
TOTAL	212	1456				
TABLE OF REMOVE AND REPLA						
LOCATION KAREN DR	REMOVE(ST)	REPLACE	ANSTALL (SF)			
2+06.37 TO 2+35.30 LT. 4+27.04 TO 4+45.90 LT.	34 34	137 230				
ΤΟΤΑΙ	68	367				
TOTAL	00	507				
TABLE OF REMOVE AND REPLA	CEMENT/INSTALLMEN	T OF CONCRI	ETE APPROACH PAVEMENT			
LOCATION VALLEY RD	REMOVE(SY)	REPLACE	/INSTALL (SF)			
2+63.14 TO 2+81.93 RT.	39	224.5				
4+94.17 TO 5+15.63 RT. 5+53.65 TO 8+81.42 LT.	48 23.5	283.5 229				
6+10.18 TO 6+41.74 LT.	19.5	182				
TOTAL	130	919				
TABLE OF 6" PCC FILLET SECTION	ON REMOVAL AND REP	LACEMENT				
LOCATION VALLEY RD	REMOVE	E(SY)	REPLACE/INSTALL (SF)			
SW COR. VALLEY RD & BURL	EIGH ST 13		117			
SE COR. VALLEY RD & ROSS	ST 7		65.5			
S COR. VALLEY RD & KAREN SW COR VALLEY RD & 21ST	IDR 10.5 ST 13		95.5 118.5			
SE COR. VALLET RD & 21ST	ST 13		120			
TOTAL	83		755			
TABLE OF 6" PCC VALLEY GUTT						
LOCATION VALLEY RD	REMOVE	E(SY)	REPLACE/INSTALL (SF)			
3+98.37 TO 4+41.69 RT.	43		386.5			
6+17.49 TO 6+46.43 RT. 8+11.06 TO 8+16.82 LT.	32 21		287 189.5			ľ
2. 77 50 TO 0.00 08 DT	17		110			
2+77.50 10 2+96.08 RT.	15		110			
TOTAL	109		981		111	
				, , , Profess	20111	
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TABLE OF REPLACEMENT OF 6" LOCATION VALLEY RD	CONCRETE PAVEMEN REMOVI	E(SY)	REPLACE/INSTALL (SF)	111	nee	111
1+00 TO 1+16	56.5		510	- az (£2456		11
8+17 TO 8+45 LT	62		559	HABERM	AN	111
LOCATION KAREN DR					24	1111
12+06.78 TO 12+18	41.5		374	AD HIV		8
TOTAL	160		1443	11/1/1/1/1/1/1	11111111	

GENERAL NOTES

SPECIFICATIONS TO BE USED

City of Yankton Standard Specifications and the Standard Specifications for Roads and Bridges 2015 Edition and Required Provisions, Supplemental Specifications, and/or Special Provisions as included in the Proposal.

UTILITIES

Location and protection of all underground utilities is the Contractor's responsibility. The Contractor will be required to coordinate work with the utility companies. Existing utilities and service lines that coincide with proposed underground main locations are to be located in advance by the contractor such that proposed underground mains can be adjusted to avoid conflict.

Utility locations are coordinated by calling: 1-800-781-7474 (One Call)

SEQUENCE OF OPERATIONS

The Contractor shall use the following sequence of operations that are listed on the traffic control sheets unless an alternate is approved by the Engineer. An alternate sequence must be submitted in writing a minimum of one week prior to the preconstruction meeting.

All trenches are to be backfilled, compacted and covered with service gravel on the same day the pipe is laid. Aggregate Base Course will be used in lieu of Service Gravel as directed by the engineer to temporarily re-open portions of streets after the pavement is removed.

Construction should be phased as to allow for access to local residents, when possible. Prior to the preconstruction meeting the successful bidder shall submit a plan, to the City of Yankton for review and approval.

ACCEPTANCE TESTING

The City will be responsible for taking the first acceptance test and a backup test if required. All subsequent tests required due to failures will be paid by the Contractor by deducting the cost from the pay request.

INCIDENTAL WORK

All salvageable materials shall be taken out intact and stockpiled within the right-of-way to the satisfaction of the Engineer. The Contractor shall perform salvage operations in a manner that will prevent damage to the salvageable materials.

All concrete removed from the existing structures and other disposable material shall be disposed of in accordance with the Waste Disposal Site note.

Remove, salvage, and reinstall landscape rock and replace mulch at the following location. Landscape rock/mulch shall be free of dirt and debris. Contractor to furnish and install weed barrier prior to placing landscape rock/mulch.

Karen Drive: STA: 11+89 to 12+10 LT. - 115 SF (rock)

Bradley Street: STA: 2+42 to 2+93.5 RT. - 109 SF (mulch)

Valley Road: STA: 7+87 to 8+01 LT. 67 SF (rock)

CLEARING AND GRUBBING

Remove tree at the following locations:

KAREN DR.: STA: 9+07.5 (approx.: 36" diameter)

VALLEY RD.: STA: 7+13 (approx.: 24" diameter)

OCCUPYING STATE ROW

Contractor shall comply with Traffic Control Standards under SD DOT Standard Specifications for Roads and Bridges, and as per the manual on Uniform Traffic Control Devices.

STREET SWEEPING

The Contractor shall be responsible to maintain a clean and well-kept work site. Adjacent streets shall be swept clean of construction debris at the Engineer's request. Street sweeping shall be considered incidental to the project. No separate payment will be made.

TRAFFIC CONTROL NOTES

GENERAL MAINTENANCE OF TRAFFIC

 Storage of vehicles and equipment shall be as near the right-of-way as possible. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the City, and to the satisfaction of the Engineer.

2. The Contractor shall designate an employee whose responsibility is the maintenance of traffic, 24 hours a day and 7 days a week. The person so designated must have training and experience in the field of construction traffic control and be knowledgeable about the Manual on Uniform Traffic Control Devices (MUTCD). The cost of the traffic control person shall be incidental to the contract lump sum price for Traffic Control Miscellaneous. The employee selected must be approved by the Engineer. The name, phone number, and location of person(s) shall be provided to the county sheriff's department and the local police department. Road closure and barricading shall immediately be reported to the local police department by the Contractor. Local police department phone number 605-668-5210

3. Work activities during non-daylight hours are subject to prior approval.

4. The contractor shall maintain traffic control every day. The contractor shall have \$200.00 per day deducted from the contract for each day that traffic control is not maintained. If traffic control is not in place when the contractor begins work which requires traffic control, payment for bid item "Traffic Control" will be reduced by 50%.

5. The Contractor shall notify the City of Yankton Street Department prior to construction to enable the city forces to remove and salvage existing traffic control signs. City of Yankton Street Dept. number 605-668-5211

PEDESTRIAN TRAFFIC

The Contractor will be required to maintain pedestrian access during construction. Pedestrian access shall be ADA accessible and shall conform to the Manual on Uniform Traffic Control Devices 2009 edition. Access can either be maintained on concrete sidewalk or on a temporary boardwalk. This work may include but is not limited to sawing existing sidewalk to leave half in place, staging sidewalk removal and construction to maintain access, installing safety fence around work areas, and construction and removal of temporary boardwalk. The Contractor shall determine the actual location of temporary access during construction and shall be approved by the Engineer. Payment for all work and associated materials shall be incidental to the contract lump sum price for "Traffic Control Miscellaneous".

TRUCK RUOTES

The Contractor shall use the shortest, most direct path from the closet designated truck route for hauling.

EROSION CONTROL NOTES

DEWATERING AND EROSION CONTROL

Pumping required for the removal of surface water from the work area and/or depressions will be considered incidental to other pay items and not paid for separately. The Contractor shall be responsible for obtaining the required erosion control permits from the South Dakota Department of Environment and Natural Resources.

SITE MAINTENANCE

acceptable.

EROSION CONTROL - VEHICLE TRACKING CONTROL

1. CONSTRUCTION

The work covered by this section consists of furnishing all labor and equipment and the performance of all operations in connection with the construction of temporary vehicle tracking control on the project, complete and in accordance with the plans and standard plates. The Contractor shall be responsible for accomplishing the required construction work on this project in such a manner as to effectively minimize and control water pollution which might be caused by vehicular tracking of soil. It is intended that these features be maintained in appropriate functional condition whenever vehicles come or go from the construction site where there is dirt exposed.

incorporated.

2. MATERIALS

11/2" to 3" rock shall be used.

3. LABOR AND EQUIPMENT

All necessary labor and equipment shall be supplied to clean up any dirt or gravel off of the paved roadway surfaces at the end of each day. The contractor shall also remove any service gravel that has dirt mixed in with it from the project site when the tracking control is no longer necessary. Clean service gravel can be incorporated into the base material for the roadbed.

4. PAYMENT

Service gravel shall be paid for at the unit price bid in the contract for service gravel. Unit price for "Temporary Vehicle Tracking Control" shall be the amount paid for each site where the engineer requires the use of the temporary vehicle tracking control for however long it is needed. The Contractor will be charged \$50.00 for each day that diftis not cleaned off of the ered street after it is placed or tracked onto the pavement.

L	PROJECT	SHEET	TOTAL
		NO.	SHEETS
	2023-008	4	45
[NOTES		

The Contractor is to keep the project site properly maintained and graded to drain storm water. No standing water is permitted on site. A penalty of \$500/day will be assessed each day standing water is not removed from site. All regulations pertaining to Storm Water Pollution Prevention will be enforced. Direct discharge of storm water into the storm sewer system is not

In addition to the details shown in the plans, other provisions for controlling erosion may be

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EROSION CONTROL - SILT FENCE NOTES

1. CONSTRUCTION

The work covered by this section consists of furnishing all labor and equipment and the performance of all operations in connection with the construction, maintenance and removal of the silt fence for the control of siltation on the project, complete and in accordance with the plans and standard plates. The Contractor shall be responsible for accomplishing the required construction work on this project in such a manner as to effectively minimize and control water pollution which might be caused by soil erosion from the project. It is intended that these features be maintained in appropriate functional condition from initial construction stages to final completion of the project.

After rainfall events, the Contractor shall take all necessary precautions to prevent silt from being carried away from the project site when water is being pumped out of any area where water is backed up on the project site

In addition to the details shown in the plans, other provisions for controlling erosion may be incorporated.

2. MATERIALS

A. Steel Fence Posts

The steel line posts for field fence shall have a cross section of one and one-half inches by one and one-half inches. The average weight shall be less than 1.33 pounds per linear foot. Paint for steel fence posts shall be the manufacturers standard paint finish.

B. Silt Fabric

The approved brands of engineering fabrics for silt fence are listed below:



All compaction of backfill shall be accomplished with a mechanical tamper or pneumatic tamper. All compacting equipment shall be operated according to the manufacturers recommendations.

4. PAYMENT

Payment shall be based on the lineal foot of silt fence satisfactorily constructed and measured from outside of the end posts. The work completed in accordance with the plans and specifications at the applicable contract price in the bid schedule which price shall constitute full compensation for furnishing all materials, equipment, labor, and tools necessary for completion of the work. The unit price shall also include removing muck from behind the silt fence after rain events and removing the silt fence when it is no longer needed.

INLET SEDIMENT CONTROL Refer to Standard Plates 734.10 SD DOT AND SIOUX FALLS 734.16 - Drop inlet sediment filters.

REMOVAL NOTES

GENERAL NOTES

The Contractor will be required to raze, remove and dispose of all buildings and foundations, structures, fences, advertising signs, and other obstructions of which any portion are on the right-of-way or Temporary Easements except Utilities and those for which other provisions have been made for removal, in accordance with Section 110 of the Standard Specifications.

The removal and disposal of all buildings, foundations and other obstructions not removed under Incidental Work or on a unit basis shall be considered as subsidiary work to the other Contract Items and no separate payment will be made for their removal and disposal.

REMOVAL OF EXISTING CONCRETE PAVEMENT

Payment for concrete removal is included in the contract unit price per square yard for "Removal of Concrete Pavement". Pavment shall be at the contract unit price per square vard. regardless of variations in thickness. Joints shall be sawed wherever existing concrete is to be connected to new construction.

When asphalt is laid over concrete pavement, removal of the asphalt surfacing shall be incidental to the unit price for "Removal of Concrete Pavement".

REMOVAL OF EXISTING ASPHALT PAVEMENT

Payment for asphalt mat removal is included in the contract unit price per square yard for "Removal of Asphalt Concrete". Payment shall be at the contract unit price per square yard, regardless of variations in thickness.

WASTE DISPOSAL SITE

Contractor shall dispose of broken concrete and asphalt generated by this project at the city stockpile site located at 23rd and Kellen Gross Drive. No tipping fee will be assessed to Contractor for broken concrete and asphalt disposed of at this site Concrete and asphalt is to be kept separate from earth material during the removal process. Concrete and asphalt may be mixed.

Asphalt contaminated with soil during the removal process or concrete containing reinforcing steel or contaminated with soil must be disposed of at the Yankton rubble site, 23rd and Kellen Gross Drive. Disposal fees shall be the Contractors responsibility, and considered incidental to other pay items.

The Contractor will be required to use a state permitted solid waste disposal facility. The Contractor can obtain a list of permitted solid waste disposal facilities in the Yankton area or discuss proper disposal of construction and demolition debris by contacting Waste Management Program at 1-(605)-773-3153.

Construction/demolition debris may not be disposed of within the ROW.

UNCLASSIFIED EXCAVATION

Unclassified Excavation will be paid for on a lump sum basis. The bid item for "Unclassified Excavation" shall include removing the existing material to a depth of 10 inches below the new road surface shown on the typical sections. Estimated quantities in cubic yards are shown below. These estimates are based on the assumption of 3 inches of existing asphalt pavement being removed separately on Karen Dr. and Bradley St. and 3-1/2 inches of existing asphalt pavement being removed separately on Valley Rd.

Estimate of 1884 cu vds. of removal KAREN DR., BRADLEY ST., AND VALLEY RD.

UTILITY NOTES

GENERAL ITEMS

All existing pipe and material removed by the contractor shall be appropriately disposed of by the contractor. All open ends of abandoned in place piping shall be plugged with concrete unless otherwise noted in plans. All abandoned valve boxes shall be removed to at least 2 feet below the ground surface and filled with granular material.

Salvageable material shall become the property of the City of Yankton, as directed by engineer. Abandoned valves shall have the valve boxes removed to a depth of not less than 2 feet below ground level. Removal of water main, valves and fittings, necessary for the construction of the new items, shall be incidental to other project costs.

STRUCTURE REMOVAL

WATER MAIN GENERAL

The contractor shall provide new water main with a minimum of 6' of cover. The water main will be AWWA C-900. Adjust the depth of the new main to match existing main where connections to existing mains are shown on plans. Existing copper services will be connected to the new water main. Services will be replaced if line is galvanized, lead or smaller then 3/4 inch copper. Replace these service lines to ROW line behind new curb & gutter or as directed by engineer with 1 inch copper and install a new curb stop and box. Services may be "hole hogged" with an underground piercing tool at no additional expense to the City of Yankton.

Contractor shall backfill all open trenches to the end of the pipe every night and appropriately protect the open hole with fencing. The Contractor shall have \$200 per day deducted from the contract for each day that this is not done.

The City of Yankton will supply fire hydrants needed for the project.

PVC WATER MAIN ENCASEMENT PIPE

PVC Water Main Encasement Pipe shall be of water main guality, including joints, and be either ASTM D2241, Class 160 or Class 125 or AWWA C900 DR 25 or DR 18.

All costs for installation of the new water main in the encasement pipe, attachment of skids to the new water main, and casing seals at the ends of the encasement pipe shall be incidental to the contract price per foot for PVC Water Main Encasement Pipe.

CUT AND TIE TO EXISTING WATER MAIN

Where "Cut and Tie to Existing Water Main" is required, Contractor shall make the required connection at a time to be designated by the City. Where the new main is to be connected to existing mains, the connection, sawing, pumping of water, labor and other items necessary to complete the tie are considered to be part of the bid item. This time may be during nighttime hours. The exact time will vary from location to location to accommodate the needs of water users who will experience an outage. All costs associated with work during this time period shall be incidental to the contract price per each for "Cut and Tie to Existing Water Main".

POLYETHYLENE ENCASEMENT

items.

 PROJECT	SHEET	TOTAL
2023-008	5	45
NOTES		

The removal of existing pipe and manholes is to include the plugging of existing pipe if necessary with concrete and the removal of the structure. Castings and manhole covers removed are to be delivered to the city street shop.

PVC Water Main Encasement Pipe shall be installed at the locations shown on the plans and at locations determined by the Engineer on the project.

All valves, fittings, and other ductile iron appurtenances and pipe are to be wrapped with 8 mil. thick polyethylene in accordance with AWWA C-105. This work is incidental to other pay

SLEEVES AND RETAINER GLANDS

The contractor shall furnish and install all clamps, ready rods, blocking and cradling necessary or the project as an incidental project cost.

Retainer glands are to be installed in addition to blocking at all fittings (mega lug series 2000pv). Retainer glands and sleeves will be paid for per each at the bid unit price.

Bolts shall be the blue fluoropolymer coated bolts, corrosion resistant in accordance with ANSI/AWWA C111/A21.11.

VALVE BOX CENTERING ADAPTER

All valve boxes shall be equipped with a rubber boot/sleeve that covers and firmly holds the pottom of the valve box over the valve nut (valve box adapter ii).

TRACER WIRE SYSTEM

The tracer wire system shall be installed with ductile iron water mains and with PVC water mains to the satisfaction of the engineer.

Tracer wire shall be no. 12 solid single strand Type TW or THHn, or approved equal.

The conductor shall be solid or stranded copper per ASTM B-1, B-3, or B-8. The ground rod shall be a 3/8-inch diameter, 60-inch long steel rod uniformly coated with metallically bonded electrolytic copper. Blackburn catalog no. 3755, or equal. The ground rod at the fire hydrant shall be of the same material except that the ground rod shall be 30 inches long.

Ground rod clamps shall be high strength, corrosion resistant copper alloy. Blackburn catalog ho. G3. or equal.

Splice kits shall be Scotchlok DBY-Y connectors or equal.

The cost of the tracer wire system is considered to be a part of the cost of the water main installation

TRACER WIRE INSTALLATION

Tracer wire shall be installed with PVC, and ductile iron water mains. The wire shall be installed along the lower quadrant of the pipe, but the pipe shall not be laid directly on the wire. Ground rods shall be installed adjacent to connections to existing piping and in the locations specified on the plans. The tracer wire shall be brought to each fire hydrant and connected to a 30" ground rod that extends up to the bolted flange just above the ground surface or a minimum distance of 3" above the ground surface. The ground rod shall be taped to the fire hydrant barrel in at least four locations below the ground surface. The tracer wire shall be spliced only if approved by the engineer and all underground splices shall be inspected by the engineer prior to backfilling. The tracer wire system is considered to be a part of the price bid or water mains.

The contractor shall be responsible for testing the tracer wire system for conductivity. Testing for conductivity shall be completed prior to finish surfacing activities. If the tracer wire does not function as intended, the contractor shall repair the system to the satisfaction of the engineer and the City will charge \$50 per hour to retest the system with a minimum charge of \$50.

DISINFECTION, TESTING, AND OPERATION OF NEW MAIN

New water main shall be disinfected, have two passing bacteriological tests, at least 24 hours apart, and be pressure tested before the water main is put into service. The city will take the est sample and the contractor shall furnish a service line or other suitable location on the new pipe at which a sample can be collected. The contractor shall furnish the equipment necessary for the pressure test and shall conduct the test in the presence of someone from the City Engineering Department staff. New mains shall be installed and disinfected before any of the service lines are reconnected from the old main to the new main. New mains will not be put into operation without city approval.

SANITARY SEWER

MANHOLE EXTERNAL FRAME SEAL

The furnishing and installing of the manhole frame seal shall be paid for under replace and adjust manhole rim and cover bid item. Full compensation for furnishing and installing of the complete manhole frame seal and all appurtenances necessary for the proper installation of the manhole frame seal for the manhole.(See section 210 of the City of Yankton standard specifications for sanitary sewer mains, service lines and appurtenances for approved products list.)

MANHOLE EXTERNAL JOINT SEALS

Manhole external joints seals, meeting the requirements of ASTM C877 Type III, shall be used on all manhole joints unless otherwise specified. Manhole external joint seals shall be Infi-Shield Gator Wrap as manufactured by Sealing Systems Inc., WrapidSeal as manufactured by CANUSA-CPS, or an approved equal. The external joint seal materials shall be compatible with City of Sioux Falls Standard 48 inch diameter RCP manholes and shall be a minimum of 9 inches wide.

Manhole external joint seals shall be considered incidental per manhole regardless of depth or number of joints.

PAVING & RESTORATION NOTES

GEOTEXTILE FABRIC FOR SUBGRADE STABILIZATION

Geotextile fabric shall be installed at locations designated by the engineer underneath the granular base course. The bid item GEOTEXTILE FABRIC has been established to pay for all labor, equipment and material to install the fabric.

Pay quantities for the geotextiles will be paid for at the contract price per square yard in place. Measurement for payment excludes the geotextile used for overlapping as well as seam overlaps. Installation shall be in accordance with the manufacturer's recommendations. Overlap shall be a minimum of 24". The end of the roll shall overlaps shall be 3' min.

The contractor shall not drive equipment directly on top of the geotextile. Should the geotextile be torn or punctured, the damaged area shall be repaired or replaced by the contractor at no expense to the owner. The repair shall consist of a patch of the same type of geotextile a minimum of 3' from the edge of any part of the damaged area. Geotextile fabric shall conform to the requirements listed below. The contractor shall provide a certificate of compliance verifying that the material meets the specification prior to the installation of the fabric.

- 1. Wide Width Tensile Strength (ASTM D-4595) 3600lb/ft min.
- 2. Wide Width Tensile Strength at 5% Strain(ASTM D-4595) 1350 lb/ft min.
- 3. Permittivity (ASTM D-4491) 0.25 sec-1 min.
- 4. UV Resistance at 500 hours (ASTM D-4355) 70% min.

The City has verified that the following products meet these specifications. 4-23-20-OUTH DAKOT

- 1. Mirafi HP370
- 2. Propex Getotex 3x3
- 3. Lumite GTF465

AGGREGATE BASE COURSE

Aggregate Base Course will be supplied by the City of Yankton. Material can be obtained at City stockpile site located at 23rd and Kellen Gross Dr. This material is to be weighed before leaving landfill. The Contractor is to supply his own personnel and equipment to load trucks. Landfill hours are from 8am to 3:45pm. This material to be used under all newly placed concrete /asphalt and to maintain access to intersecting streets and driveways as needed. Unit price shall constitute full compensation for personnel and equipment to load, haul, and place material. Aggregate Base Course shall be compacted to 95% of standard proctor density.

SURFACING THICKNESS DIMENSIONS

Except as hereinafter set forth, plans square yards will be applied even though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans square yards will not be varied to achieve the required elevation.

"6" NONREINFORCED CONCRETE PAVEMENT

The Coarse Aggregate shall be Crushed Ledge Rock.

The fine aggregates may require screening as determined by the Engineer.

The concrete for the nonreinforced PCC shall be of an approved job mix. The mix design shall be submitted three weeks prior to and approved prior to any concrete placement. The design mix shall meet a minimum 4000 PSI compressive strength in 28 days.

Concrete used in Portland cement concrete pavement shall have a minimum cementitious material content of 600 pounds per cubic yard, with a fly ash content of 25%. Any variations must be approved in writing by the Engineer prior to any concrete placement. Fly ash shall be class F and shall meet the requirements of Section 605 of the SDDOT Standard Specifications for Roads and Bridges. The maximum allowable water/cement ratio shall be 0.42.

In lieu of an automatic grader operating from a preset line, a motor grader or other suitable equipment may be used to bring the base course to final grade prior to placement of the concrete.

A construction joint shall be sawed whenever new concrete pavement is placed adjacent to existing concrete pavement.

There will be no direct payment for trimming of the Base Course for PCC pavement. The trimming will be considered incidental to the related items required for PCC pavement. Trimming shall be performed as required by Section 380.3c of the Standard Specifications.

An automated paving machine such as a Bidwell, or equivalent, shall be required for main line paving. An air or vibratory screed will not be allowed for main line paving.

Joints to be sealed shall be thoroughly sandblasted, clean and dry as required by Section 380 P.

MANHOLE ADJUSTMENT

professiono,

Eng

professionor

All costs for adjustment of the sewer manhole frame and lid to finished grade including removal and repair upper courses of brick or concrete, grouting, water-proofing and adjustment rings shall be incidental to the contract unit price per each for "Adjust Manhole" All existing rims & covers will be replaced with Neenah R1733 frame and lid. The lids shall contain concealed pick holes and be equipped with a gasketed self-sealing type covers.

PROJECT	SHEET	TOTAL
2023-008	6	45
NOTES		

STEEL BAR INSTALLATION

The Contractor shall install Steel No. 5x24" epoxy coated deformed tie bars into drilled holes in the existing concrete pavement. An epoxy resin adhesive must be used to anchor steel bars in the drilled holes.

The steel bars shall be cut at the specified length by sawing and shall be free from burring or other deformations. Shearing will not be permitted.

Epoxy resin adhesive shall be of the type intended for horizontal applications, and shall conform to the requirements of ASTM C 881, Type 1, Grade 3 (equivalent to AASHTO M235, Type 1, Grade 3).

The diameter of the drilled holes in the existing concrete pavement for the steel bars shall not be less than 1/8 inch nor more than 3/8 inch greater than the overall diameter of the steel bar. Holes drilled into the existing concrete pavement shall be located at mid-depth of the slab and true and normal. The drilled holes shall be blown out with compressed air using a device that will reach to the back of the hole to ensure that all debris or loose material has been removed prior to epoxy injection.

Mix the epoxy resin as recommended by the manufacturer and apply by an injection method approved by the Engineer. If an epoxy pump is utilized, it shall be capable of metering the components at the manufacturers designated rate and be equipped with an automatic shut-off. The pump shall shut off when any of the components are not being metered at the designated rate. Fill the drilled holes 1/3 to 1/2 full of epoxy, or as recommended by the manufacturer. prior to insertion of the steel bar. Care shall be taken to prevent epoxy form running out of the horizontal holes prior to steel bar insertion. Rotate the steel bar during installation to eliminate voids and ensure complete bonding of the bar. Insertion of the bars by the dipping method will not be allowed.

Cost for the epoxy resin adhesive, steel bars, drilling of holes, applying the adhesives, installing the steel bars into the drilled holes and all other items incidental to the installation of the steel bars shall be included in the contract unit price per each for "Install Steel Bar in Concrete Pavement".

Steel bars shall be installed at the following locations:

	9	800
LOCATION	#5 BARS EACH	Detectable Warning Tile AD/
VALLEY ROAD		Composite 323 Wet-Set Will 800
1+00	30	http
6+46.5	3	Other detectable panels, meeting the necessary require approval from the City Engineer's Office. In no case will
8+17	16	a method of creating the domes on the tactile warning pa
KAREN DRIVE		SALVAGING, STOCKPILING, AND PLACING TOPSO
12+06.78	28	Existing vegetation shall be salvaged, incorporated and practicable.
		The areas to be covered with topsoil to a depth of +/- 3 i areas. Material shall be free of rock and debris.
		The estimated amounts of salvaged topsoil required to o specified depth are as follows:
		Table of Topsoil Cu.Y
		BRADLEY, KAREN, & VALLEY 86

CONCRETE SIDEWALK

Concrete sidewalk shall be constructed in accordance with Section 651 of Standard Specifications. Base Course material, two (2) inches thick, shall be placed beneath the sidewalk.

CURING OF CONCRETE

Portland Cement Concrete Pavement, Concrete Curb & Gutter, Sidewalks, Valley Gutters, and Fillets shall be cured. All concrete shall be cured in accordance with section 380.3.P2 of the 2015 SDDOT Standard Specifications for Roads and Bridges except as modified in this note. All concrete shall be cured with a White Pigmented Linseed Oil Base Emulsion Compound when cured using the Impervious Membrane Method. Curing compound material shall be in accordance with section 821.1.D.

CONCRETE JOINT SEALER

Concrete Joint Sealer shall be hot poured elastic joint sealer and shall conform to section 870 of the Standard Specifications. Payment for concrete joint sealer shall be incidental to PCC Pavement and no separate payment shall be made.

DETECTAVLE WARNING PANEL

In order to comply with the Americans with Disabilities Act (ADA), detectable warning panels are to be placed at locations designated in the plan set. Detectable Warnings consist of a composite or polymer type of panel and should be installed into wet concrete. Surface applied products that are applied to cured concrete are not allowed. The detectable warnings shall be a brick red color for application in concrete curb ramps.

Current detectable warning panels approved for use and installation within the public right of way are:

> Product Manufacturer Engineered Plastics Inc. Armor Tile Modular Payer Series 300 International Drive, Suite 100 Williamsville, NY 14221 -682-2525 ://www.armor-tile.com/ A Solutions, Inc. Andover Street nington, MA 01887 -372-0519 ://www.adatile.com

ments may be allowed with written the stamping of concrete be allowed s anels.

placed with the topsoil as far as

nches comprise all newly graded

over the designated areas to the

d.

SEEDING

All grass areas disturbed by construction are to be hydro-mulched. Lump sum price will be for all areas disturbed by Contractor. Price shall also include the cost for fertilizer and fiber mulch, refer to SD-DOT Standard Specs 2015 Edition section 730 and 731. The following will be provided, by the Contractor, for use on the project unless an alternate is approved by the Engineer.

The estimated amount of area to be seeded: 9170 SF

SEED MIXTURE

Park Kentucky Blue

FERTILIZER AND MULCHING

fertilizer and fiber mulch.

PRIVATE SPRINKLER SYSTEMS

The Contractor shall notify the Engineer when the sprinkler system can be restored and the City will coordinate with the property owner and sprinkler contractor. The system should be restored before seed or sod placement and the Contractor shall make reasonable accommodations to allow for the homeowner's sprinkler contractor to make final repairs and adjustments.

WATERING

Water for compaction is incidental to other pay items. Water from city fire hydrants is to be metered and paid for by Contractor.

 PROJECT	SHEET	TOTAL
2023-008	7	45
NOTES		

PURE LIVE SEED/ 1000 FT. SQ.

Kentucky Bluegrass	1 pound
Perennial Rye Grass	1 pound
Park Kentucky Bluegrass	1 pound

Fertilizer shall be a guaranteed analysis of 12-24-6. Rate applied shall be 3.2 lbs. per 1000 S.F. All areas shall be wood fiber mulched at a rate of 50 lbs./1000 S.F. with tackifier at a rate of 1.5lbs./1000 S.F. Method of payment will be incidental to the seeding lump sum bid price. Refer to SD-DOT Specs. 2015 Edition-section 731 and 732 for additional requirement for

Private sprinkler systems that are located within the construction limits. The City will notify all property owners about the expected construction and the procedures for preparing their systems for construction. When found, the Contractor shall notify the Engineer and take reasonable measures to minimize any damage to the system. It will be the responsibility of the City to pay the property owner's sprinkler contractor directly for repairs. The Contractor will be responsible for any damaged due to Contractor's negligence.



STORM WATER POLLUTION PREVENTION PLAN

(The numbers right of the title headings are **reference numbers** to the <u>GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED</u> <u>WITH CONSTRUCTION ACTIVITIES</u>)

- SITE DESCRIPTION (4.2 1)
- Project Limits: See Title Sheet (4.2 1.b)
- Project Description: See Title Sheet (4.2 1.a.)
- Site Map(s): See Title Sheet and Plans (4.2 1.f. (1)-(6))
- Major Soil Disturbing Activities (check all that apply)
 - Clearing and grubbing
 - Excavation/borrow
 - Grading and shaping
 - Filling
 - Cutting and filling
 - Other (describe):
- Total Project Area 3 acres (4.2 1.b.)
- Total Area To Be Disturbed 2 acres (4.2 1.b.)
- Existing Vegetative Cover (%) 25%
- Soil Properties: AASHTO Soil Classification (4.2 1. d.)
- Name of Receiving Water Body/Bodies Missouri River (4.2 1.e.)
- ORDER OF CONSTRUCTION ACTIVITIES (4.2 1.c.)
- (Stabilization measures shall be initiated as soon as possible, but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Initiation of final or temporary stabilization may exceed the 14-day limit if earth disturbing activities will be resumed within 21 days.)
- Special sequencing requirements (see sheet).
- > Install stabilized construction entrance(s).
- Install perimeter protection where runoff sheets from the site.
- Install channel and ditch bottom protection.
- Clearing and grubbing.
- Remove and store topsoil.
- Stabilize disturbed areas.
- > Install utilities, storm sewers, curb and gutter.
- Install inlet and culvert protection after completing storm drainage and other utility installations.
- Complete final grading.
- Complete final paving and sealing of concrete.
- Complete traffic control installation and protection devices.
- Reseed areas disturbed by removal activities.
- EROSION AND SEDIMENT CONTROLS (4.2 2.a.(1)(a)-(f)) (Check all that apply)
- > Stabilization Practices (See Detail Plan Sheets)
 - Temporary or Permanent Seeding
 - Sodding
 - Planting
 - Mulching (Straw or Cellulose Fiber)
 - Erosion Control Blankets or Mats
 - Uegetation Buffer Strips
 - Roughened Surface (e.g. tracking)
 - Gabions-Gabion Mattress
 - Other

- > Structural Temporary Erosion and Sediment Controls
 - Silt Fence
 - Straw Bale Check
 - Temporary Berm
 - Temporary Slope Drain
 - Straw Wattles or Rolls
 - Diversion Channels/Swales
 - Channel Liners (TRM)
 - Stone Rip Rap She
 Rock Check Dams
 - Rock Check Dams
 Sediment Traps/Basins
 - Sediment hapsi
 Inlet Protection
 - Outlet Protection
 - Surface Inlet Protection
 - Curb Inlet Protection
 - Stabilized Construction Entrances
 - Other
- Wetland Avoidance

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes \square No \boxtimes If yes, the structural and erosion and sediment controls have been included in the total project wetland impacts and have been included in the 404 permit process with the USACE.

Storm Water Management (4.2 2.b., (1) and (2))

Storm water management will be handled by temporary controls outlined in Section 3 above, and any permanent controls needed to meet permanent storm water management needs in the post construction period. Permanent controls will be shown on the plans and noted as permanent.

- Other Storm Water Controls (4.2 2.c., (1) and (2))
- Waste Disposal

All liquid waste materials will be collected and stored in sealed metal containers approved by the project engineer. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal, and notices stating proper practices will be posted in the field office. The general contractor's representative responsible for the conduct of work on the site will be responsible for seeing waste disposal procedures are followed.

Hazardous Waste

All hazardous waste materials will be disposed of in a manner specified by local or state regulations or by the manufacturer. Site personnel will be instructed in these practices, and the individual designated as the contractor's on-site representative will be responsible for seeing that these practices are followed.

Sanitary Waste

Portable sanitary facilities will be provided on all construction sites. Sanitary waste will be collected from the portable units in a timely manner by a licensed waste management contractor or as required by any local regulations.

- Maintenance and Inspection (4.2 3. and 4.2 4.)
 - Maintenance and Inspection Practices
 - Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
 - All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.

- Maintenance and Ins
 - Silt fence will be i order to ensure th that the posts are removed from the silt fence.
 - Sediment basins removed when de structure's capac
- Check dams will removed when de
 - All seeded areas vigorous growth f
- Inspection and m 298 for each site document change inspection form w
- The City Engineer responsible for in responsibility of the inspection and me distribution instruction

Non-Storm Water Dis

The following non-storm w of this project (check all th

- Discharges from v
- Pavement wash-w hazardous materials
- Uncontaminated g activities.

♦ Materials Inventory (

The following materials of site during the construction noted under the headings "SPILL PREVENTION" (construction)

- Concrete and Port
- Detergents
- Paints Metals
- Bituminous Materia
 Petroleum Based
- Cleaning Solvents
- > \\Wood
- Cure
- > Texture
- Chemical Fertilize
 - Other

	PROJECT	SHEET NO.	TOTAL SHEETS
	2023-008	8	45
	SWPPP		
spection Praction	ces(Continued)		
nspected for dep ne fabric is secur well anchored. e silt fence when	oth of sediment and for tears in rely attached to the posts and Sediment buildup will be it reaches 1/3 of the height of the		
and traps will be epth reaches applity, and at the co- be inspected for epth reaches ½ will be checked ree of significan aintenance repo- inspection, this file will be filed with the r and contractor spections. Main he contractor. The aintenance repo- ctions on DOT 2	e checked. Sediment will be proximately 50 percent of the inclusion of the construction. stability. Sediment will be the height of the dam. for bare spots, washouts, and t weed infestations. ints will be prepared on form DOT form will also be used to P. A copy of the completed he SWPPP documents. 's site superintendent are tenance, repair activities are the he City Engineer will complete the prts and distribute copies per the 298.		
scharges (3.0) water discharges hat apply). vater line flushin vater, where no s have occurred. ground water ass	are anticipated during the course g. spills or leaks of toxic or sociated with dewatering		
4.2. 2.c.(2)) r substances are on period. These s "EROSION AN check all that ap land Cement	e expected to be present on the materials will be handled as D SEDIMENT CONTROLS" and ply).		
als Products			
rs	111 Seed Profess		



Spill Prevention (4.2 2.c.(2))

- Material Management
 - Housekeeping
 - Only needed products will be stored on-site by the contractor.
 - Except for bulk materials the contractor will store all materials under cover and in appropriate containers.
 - Products must be stored in original containers and labeled.
 - Material mixing will be conducted in accordance with the manufacturer's recommendations.
 - When possible, all products will be completely used before properly disposing of the container off site.
 - The manufacturer's directions for disposal of materials and containers will be followed.
 - The contractor's site superintendent will inspect materials storage areas regularly to ensure proper use and disposal.
 - Dust generated will be controlled in an environmentally safe manner.
 - Vegetation areas not essential to the construction project will be preserved and maintained as noted on the plans.

Hazardous Materials

- Products will be kept in original containers unless the container is not resealable.
- Original labels and material safety data sheets will be retained in a safe place to relay important product information.
- If surplus product must be disposed of, manufacturer's label directions for disposal will be followed.
- Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, degreasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants will be conducted on an impervious surface and under cover during wet weather to prevent the release of contaminants onto the ground.
- Wheel wash water will be collected and allowed to settle out suspended solids prior to discharge. Wheel wash water will not be discharged directly into any storm water system or storm water treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, and mixer washout waters will be collected on site and managed to prevent contamination of storm water runoff.

Product Specific Practices (6.8)

Petroleum Products

All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.

. Fertilizers

Fertilizers will be applied only in the amounts specified by the Plans. Once applied, fertilizers will be worked into the soil to limit the exposure to storm water. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.

Product Specific Practices (6.8) (Continued)

Paints

All containers will be tightly sealed and stored when not required for use. The excess will be disposed of according to the manufacturer's instructions and any applicable state and local regulations.

Concrete Trucks .

Contractors will provide designated truck washout areas on the site. These areas must be self contained and not connected to any storm water outlet of the site. Upon completion of construction washout areas will be properly stabilized.

Spill Control Practices (4.2 2 c.(2))

In addition to the previous housekeeping and management practices, the following practices will be followed for spill prevention and cleanup if needed.

- For all hazardous materials stored on site, the manufacturer's recommended methods for spill clean up will be clearly posted. Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
- Appropriate cleanup materials and equipment will be maintained by the contractor in the materials storage area on-site. As appropriate, equipment and materials may include items such as booms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for clean up purposes.
- All spills will be cleaned immediately after discovery and the materials disposed of properly.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- After a spill a report will be prepared describing the spill, what . caused it, and the cleanup measures taken. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, as well as clean up instructions in the event of reoccurrences.
- The contractor's site superintendent, responsible for day-to-day operations, will be the spill prevention and cleanup coordinator. The contractor is responsible for ensuring that the site superintendent has had appropriate training for hazardous materials handling, spill management, and cleanup.

Spill Response (4.2 2 c.(2))

The primary objective in responding to a spill is to guickly contain the material(s) and prevent or minimize migration into storm water runoff and conveyance systems. If the release has impacted on-site storm water, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens storm water or surface water at the site, the spill response procedures outlined below must be implemented in a timely manner to prevent the release of pollutants.

- The contractor's site superintendent will be notified immediately when a spill or the threat of a spill is observed. The superintendent will assess the situation and determine the appropriate response.
- If spills represent an imminent threat of escaping erosion and sediment controls and entering receiving waters, personnel will be directed to respond immediately to contain the release and notify the superintendent after the situation has been stabilized.

Spill Response (4.2 2 c.(2)) (Continued)

- site.

- response materials.
- activities.

Spill Notification

In the event of a spill, the contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures: A reportable spill is a quantity of 25 gallons or more or any spill of oil which: 1) violates water quality standards. 2) produces a "sheen" on a surface water, or 3) causes a sludge or emulsion must be reported immediately to the National Response Center .

Construction Changes (4.4)

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Pollution Prevention Plan (SWPPP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The City Engineer will modify the SWPPP plan (DOT 298) and drawings to reflect the needed changes. Copies of changes will be routed per DOT 298. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.

PROJECT	SHEET	TOTAL
2023-008	9	45
SWPPP		

 Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the contractor at the

 If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed or repaired as necessary to prevent further releases.

If a spill occurs the superintendent or the superintendent's designee will be responsible for completing the spill reporting form and for reporting the spill to SD DENR.

 Personnel with primary responsibility for spill response and clean up will receive training by the contractor's site superintendent or designee. The training must include identifying the location of the spill kits and other spill response equipment and the use of spill

Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response

Any spill of oil or hazardous substance to waters of the state must be reported immediately by telephone to the SD DENR.



CERTIFICATIONS

 Certification of Compliance with Federal, State, and Local Regulations

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

City of Yankton

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature. (See the General Permit, Section 6.7.1.C.)

Prime Contractor

This section is to be executed by the General Contractor after the award of the contract and at least 15 days prior to the beginning of construction. This section may be executed any time there is a change in the Prime Contractor of the project.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature. (See the General Permit, Section 6.7.1.a .or b.)

CONTACT INFORMATION

- Contractor Information:
 - Prime Contractor Name:
 - Contractor Contact Name:
 - Address:
 - Address:
 - City: State: Zip:
 - Office Phone: Field: Cell: Fax:

Erosion Control Supervisor

- Name:
- Address:
- Address:
- City: State: Zip:
- Office Phone: Cell: Fax:
- City Engineer
- Name: Brad Moser
- Business Address: 416 Walnut
- Job Office Location 416 Walnut
- City: Yankton State: SD Zip: 57078
 Office Phone: 605-668-5255 Field:
- Fax:

Cell:

- SD DENR Contact Spill Reporting
 - Business Hours Monday-Friday (605) 773-3296
 - Nights and Weekends (605) 773-3231
- SD DENR Contact for Hazardous Materials.
- (605) 773-3153
- National Response Center Hotline
 - (800) 424-8802.

2023-008	NO.	SHEETS
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R3-2 24" x 24"	NO LEFT TURN (SYMBOL)	5	15	75	4
R11-4 60" v 30"	ROAD CLOSED TO THRU TRAFFIC	5	30	150	-
W20-4 36" v 36"	ONE LANE ROAD AHEAD	2	26	52	profession
R1-1 30" x 30"	STOP	2	20	40	in ted h. Eli
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* Speed category	to be determined	by the highway o	igency.			///////	111111,	



LEGEND



-VEHICLE TRACKING CONTROL (TYP.) SEE DETAIL SHEET PLATE # 734.02 -1 USED (SOUTH END OF BRADLEY ST.) -1 USED (SE END OF KAREN DR.) - 1 USED (WEST END OF VALLEY RD.)

-SILT FENCE (TYP.) 100 L.F. USED



PROJECT AREA

-INLET PROTECTION (TYP.)

-3 USED AT KAREN DR. & VALLEY RD. INTERSECTION



NOTE: ALL EROSION

KEPT IN FULL SOIL RUN OF EROSION CO COMPLETION

N CONTROL ITEMS SHALL BE MAINTAINED DAILY AND BE
L FUNCTIONAL CONDITION TO MINIMIZE AND CONTROL
FF THAT COULD OCCUR DURING THE PROJECT CONSTRUCTION.
NTROL ITEMS SHALL BE KEPT IN PLACE UNTIL PROJECT
Ν.

-1 USED 75' NORTH OF KAREN DR AND VALLEY RD INTERSECTION EAST SIDE - 2 USED AT VALLEY RD. & 21ST ST. INTERSECTION - 1 USED AT VALLEY RD. & ROSS ST. INTERSECTION 1 USED AT BURLEIGH ST. & VALLEY RD. INTERSECTION
 1 USED 100' EAST OF BURLEIGH ST. & VALLEY RD. INTERSECTION SOUTH SIDE

 PROJECT	SHEET	TOTAL
	NU.	SHEETS
2023-008	14	45



 PROJECT	SHEET	TOTAL
2023-008	15	45
TYPICAL S	ECTION	

DISTANCE FROM B.O.C TO SIDEWALK

DISTANCE FROM B.O.C TO SIDEWALK















WATERMAIN	20	45
WATERMAIN		
HYDRANT	r i	
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VC	11100201	NO.	SHEETS
	2023-008	25	45
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12 LF 12"	PVC WATERMAIN C-900		
111 LF G	RANULAR MATERIAL FOR WATERMAIN		
1 EA 6" M	IJ GATE VALVE WITH BOX		
1 EA 12" 3 EA 6" M	MJ GATE VALVE WITH BOX		
6 EA 12"	MEGALUGS		
1 EA 12"	X 12" X 6" MJ TEE		
1 EA 12"	MJ SLEEVE		
1 EA CUT	AND TIE INTO EXISTING PVC PIPE		
Z EA REM	NOVE EXISTING VALVE		
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	PROJECT	SHEET	TOTAL
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PR	PROJECT 2023-008		SH	IEET NO.	TOTAL SHEETS
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SIDEWALK	&	PAVEMENT	REPL	ACE	MENT















· · · · · · · · · · · · · · · · · · ·	PROJECT	SHEET NO.	TOTAL		
	2023-008	39	45		
	DETAILS				
with boulevard sidewalk					
Sidewalk					



	PROJ	ECT	SHEET	TOTAL
	2023	3-008	40	45
[DET	AILS		
maximum cross slope o rade in this area. The m ossing (including the fille d controlled legs and 5%	n the ramp and the aximum cross slope t or curb and on uncontrolled or			
arget cross slope of 1.5 irection. Where the turr walk (example: 6" curb t by 5 foot minimum. Th he ramp run. The grade urb ramp must be perpe	% with a maximum ling space is or building), the le 5 foot dimension change between endicular to the			
circulation path crosses maximum slope of the f able to be reestablished ible should be reestabli	s a curb ramp are are sides is 10%. I on flare slopes but shed.			
vidth of detectable warr el across the full width o curbs or flares. Orient do el unless otherwise state	ning surfaces in the of the curb ramp or omes in the ed in plans.			
space, curb ramp, and f ss of 6 inches.	lare slope areas			
a cannot be achieved with in the street and turning e a parallel ramp to mak- ning space and the stand ed 8.3% slope. However ed 15 feet, regardless of s for the parallel ramp in	h the space due to se up the elevation dard sidewalk. This , the length of the f slope. The n this area is 4			
dditional sidewalk will r	not be located			
s, a curb up to 6 inches he turning space or adjo	high may need to bining sidewalk.			
adjacent curb is design n 8.3% unless otherwise required to exceed 15 f t is 1.5% with a maximu	ed at 7.5% or less especified in the eet, regardless of m cross slope of		11/17	
d detectable warning pa for the corresponding c	anel area will be oncrete sidewalk bid	stered REG	sional Engl	
all be measured and pai le all costs for materials, allation of the detectab	d for to the nearest	арам навек 4-23-2 <i>South</i> р	и и ман акотр и и и и и и и и и и и и и	eer
	and a second sec	Rev	vised: Decen	nber 2016
	E ACC	NGINEERING E	FALLS DIVISION	

ACCESSIBLE CURB RAMPS

SPECIFICATION REFERENCE NO. 650

PLATE NUMBER 651.02

30" CONCRETE CURB AND GUTTER N.T.S



1/2" Preformed Expansion Joint Fillers shall be placed, Tranversely in the Curb & Gutter as follows:

which is parallel to the project centerline.

CU.

PER

LIN. FT.

0.055

0.063

0.071

0.074

0.078

0.082

0.086

0.090

0.094

0.098

0.102

T1

INCHES

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8.5

9

9.5

10'

10.5

11

11.5

12.0

YD

Curb & Gutter.

Curb is adjacent to an existing Concrete Sidewalk.

free movement of the Concrete at the joint.

GENERAL NOTES:

- 1) On PCC pavement a keyway longitudinal joint with tie bars shall be used when curb and gutter is poured separately.
- 2) Curb and gutter shall be constructed using M-6 concrete unless monolithically constructed with the adjacent pavement. In monolithic paving, concrete mix for the curb and gutter may be the same as the adjacent concrete pavement.
- 3) The curb transition length at ADA curb ramps will be dependent on the type of curb ramp being installed. The plans should call out the length of the transitions. Refer to plate 651.02 for additional curb transition information.

 PROJECT	SHEET NO.	TOTAL SHEETS
2023-008	41	45
DETAILS		

- (1) At each junction of Radius return Curb & Gutter and the Curb & Gutter
- (2) At each junction with existing Concrete Curb or Concrete Curb & Gutter (3) At each junction with existing sidewalk, to the depth of the sidewalk. (4) At a maximum of 195 L.F. appart, measured along the face of the
- 1/2" Preformed Expansion Joint Filler shall be placed, Longitudinally, along the backface of the Curb, to the depth of the sidewalk, where such backface of
- Weakened Plane Joints shall be constructed at Approx. 10' intervals. The joints shall be constructed to a minimum depth of one inch by scoring with a tool which coincide with pavement joints leave the corners rounded and insure a









