

**Structure Specification Sheet**

Phil Balch, 2002 - revised 3/2006

Project Name		Stream		County	State	Bank						
City of Marysville, Spring Creek		Spring Creek		Marshall	Kansas	Length	Height					
Structure								Key	Shaped	Total	Height	
#	Type	Spacing ft.	Angle (Degrees)	Area sq. ft.	Height ft.	Length ft.	Key Length ft.	Yards3	yds3	Tons	Material Specifications	
1	LFSTP	N/A	N/A	17680	3	1360	150	1284.44	150	2151.66	Poorly Sorted Limestone Rock D50 = 18"	
<b>Geo-Textile Materials</b>								<b>Rolls</b>				
1						550	60			20.1	BXG 110 Geogrid (7,142 sq. yds)	
1						550	60			88.4	C125BN Erosion Control Fabric (8,839. sq.yds)	
								<b>17680</b>		<b>1284</b>	<b>150</b>	<b>2,152</b>
								<b>Total yds3</b>	<b>1434</b>			

Site Information			
Structure Height / ft.	3	Cord Length / ft.	975
Crest Width / ft.	4	Mid Ord / ft.	425
Finished Slope Grade / H:V	3.00	BkF Elev	1132 At Station 19+00
Schumm Channel Stage	5	Rosgen Classification	C5c1
Radius of Curvature / ft.	492.10	Channel Width / ft.	85.00
Max Structure Spacing / ft.	0.00	Tortuosity	5.789
Reg Structure Spacing / ft.	0.00	Critical Shear Stress	0.433 lbs./sq.ft.
Hydraulic Radius / ft.	3.458	Slope = ft./ ft.	0.002005682 10.59 ft./mile
Cross Sectional Area / sq. ft.	256.9	Wetted Perimeter /ft.	74.3
Bank Full Discharge / cfs	1,746.67	Manning's n	0.022
		Mean Velocity / ft. sec	6.80

Quantities List	
Rock / Cubic Yards	1,434
Shotrock D50 = 18" / Tons	2,152
Shotrock D50 = 24" / Tons	0
Soil moving/ Cubic Yds. *	10,689
Bare Root Trees	1,660
Live Stakes	4,400
Temporary Seeding / acres	1.79
Native Grass Seeding / acres	1.79
Mulching / acres	1.79
Geo-Grid / sq.yds.	7,142
Coir / sq.yds.	8,839

Channel Bank Vegetation - Practice Code 322		Five Year Flood Frequency -	
Vegetation Type	Quantity	Discharge / cfs	6,160
Bare Root Seedlings / ea.	1,660.00	65.57 Sq. Mi.	
Live Stakes / ea.	4,400.00		
Seeding/ acres	1.79		
Mulching - Practice Code 484			
Mulching / acres	1.79		

Landowner	City of Marysville
C/O	Austin St. John
Address	209 N 8th St
City, State Zip	Marysville, Kansas 66508
Phone	785-562-5331
Legal	SW 1/4, Section 33 T2S R7E
Date	1/8/2021