

SPIRE DELIVERY STATION—CHAIN OF ROCKS SAINT LOUIS, MO

Year: 2023

Client: Spire STL Pipeline

Phone: (314) 356-1886

Contact: Dave Feeman, General Manager
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Saint Louis, MO 63101
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Project Manager Permitting: Tiffany Danz
Project Manager Construction: Jennifer Wendt
Immediate Supervisor: Raymond H. Frankenberg

Engineering, Surveying, Construction
Management Services Cost
Estimated: \$155,000.00
Actual: \$122,283.55

Sub Consultants

GAI - Archeology
SCI - Geotechnical Engineering
Kelp Contracting - Construction
STL Select Landscaping - Landscaping

Regulatory Agencies/Permits

MSD
DNR
St. Louis County
State Historical Preservation Office (SHPO)



Scope of Project

BFA coordinated with Spire, sub-consultants, and the contractor on improvements-to the site to obtain all permits and approvals for the Chain of Rocks Delivery Station. Aside from surveying, engineering design, and construction management, BFA provided clarification and direction to site questions from the owner, regulators, and utility companies. BFA also coordinated unexpected archeology services and SHPO authorization to relocate several burial sites uncovered during construction. The Project Scope included Right-of-Way exhibits, stormwater management, landscaping, construction management, land disturbance permit, and building permits. Surveying services included construction stakeout, final inspection, and as-built documentation.

Table B-3: Differential Runoff Calculations

DIFFERENTIAL RUNOFF CALC. (15-YR,20-MIN)	
PRE-DEVELOPMENT	
Impervious Area - Pavement (AC)	0.05
Pervious Area (AC)	4.12
Total (AC)	4.17
Pavement P.I. Factor (Table 4-2)	3.54
Pervious P.I. Factor (Table 4-2)	1.70
Runoff (CFS)=(P.I.*Area)=	7.18
POST-DEVELOPMENT	
Impervious Area - Pavement (AC)	0.24
Impervious Area -Gravel (AC)	1.50
Pervious Area (AC)	2.43
Total (AC)	4.17
Pavement P.I. Factor (Table 4-2)	3.54
Gravel P.I. Factor (Table 4-2)	3.24
Pervious P.I. Factor (Table 4-2)	1.70
Runoff (CFS)=(P.I.*Area) =	9.84
Project Differential = Post Runoff - Pre Runoff	
Project Differential (cfs)	2.66