

Table-1 First Street NIP – Stormwater Treatment System and Outfall Alternatives Evaluation Matrix

Category	1 - SWTS @ South Pointe Parking Lot	2 - SWTS @ Washington St. End Median	3A - SWTS @ Triangular Park & Pipe through South Pointe Dr.	3B – SWTS @ Triangular Park & Pipe through First St. & Washington Ave.	4 – SWTS @ Roundabout Washington & First St. & Pipe through Washington	5 – SWTS @ City Parking Lot on Washington & First St.	6 – SWTS @ Dog Park on Washington & Second St. & Pipe through Washington
Hydraulics	No conveyance redundancy.	No conveyance redundancy.	1,300 ft of redundant gravity and FM pipe.	1,300 ft of redundant gravity and FM pipe.	600 ft of redundant gravity and FM pipe.	550 ft of redundant gravity and FM pipe.	1,200 ft of redundant gravity and FM pipe.
FM Length	400 LF	400 LF	1,800 LF	2000 LF	1,350 LF	1,300 LF	1,950 LF
Major Utility Conflicts ¹	1	1	3	4	2	3	2
Greenspace Impacts	None	None	2,500 SqFt	2,500 SqFt	None	None	2,000 SqFt
Traffic Impacts	Least traffic impacts.	Moderate impacts due to equipment on median.	Minimal traffic impacts.	Minimal traffic impacts.	Greatest impacts due to reduced number of lanes at busy intersection.	Moderate impacts due to equipment on median.	Minimal traffic impacts.
Maintenance Accessibility	Easy access to SWTS at parking lot.	Restricted access to SWTS at median.	Moderate access to SWTS at Triangular Park on busy street.	Moderate access to SWTS at Triangular Park on busy street.	Restricted access to SWTS at roundabout on busy intersection.	Restricted access to SWTS at small parking lot and equipment on median on busy intersection.	Easy access to SWTS at park.
Parking Spaces Lost	10	12	2	2	25	15	2
Schedule	24 months Shortest FM.	25 months Shortest FM.	27 months Longer FM.	28 months Longer FM.	30 months Longer FM, and requires additional traffic study.	26 months Longer FM.	27 months Longer FM.
Cost ²	\$ 44 M	\$ 45 M	\$ 48 M	\$ 49 M	\$ 47 M	\$ 46 M	\$ 48 M

¹ The number of utility conflicts depicted in these options are among the proposed stormwater pipes (gravity and force main) and the existing sanitary sewer force main. Conflicts between the proposed pipes and private utilities (electrical, telephone, cable, gas, etc.) are not included here and it is expected that conflict resolution will be closely coordinated with the private utilities and these costs will be borne by the private utilities and not the City.

² Order of magnitude, conceptual-level, Class 5 estimate per AACE 56R-08.

Level of Impact:  Best Case / Lowest Impact  Moderate Impact  Worst Case / Highest Impact