Freedom Pointe | **MSP No.** | **15352.27**
Design Flow Rates | **Date** | **8/5/2021**

Design Point	**North Tributary**	**NW Tributary**	**NE Tributary**	**West Tributary**	**Central Tributary**	**East Tributary**
Pre-development Data						
Drainage Area (ac)	70.00	75.00	25.00	30.00	29.00	21.00
Curve Number	72	84	90	82	89	89
Frequency (yr)	100	100	100	100	100	100
P, Rainfall (in)	5.8	5.8	5.8	5.8	5.8	5.8
Q, Runoff (in)	2.83	4.01	4.65	3.80	4.54	4.54
Q, Runoff Volume (cf)	719225	1091633	422100	414208	478123	346227
Time of Concentration (hr)	1.25	0.75	0.50	0.50	0.50	0.50
Ia/P	0.13	0.07	0.04	0.08	0.04	0.04
Peak Unit Discharge (csm/in)	289	424	307	424	357	357
Peak Discharge Rates (cfs)	**89**	**199**	**56**	**76**	**73**	**53**
Estimated Pipe Size (in)	**49**	**67**		**46**	**45**	**40**
Selected Pipe Size (in)	**60**	**8'x3' Box**		**5'x3' Box**	**12'x3'**	**12'x6'**