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June 26, 2015

Mr. David Manugian  
Public Works Director  
Town of Ashland  
20 Ponderosa Road  
Ashland, MA 01721

Re: **Ashland/Southborough Emergency Interconnection  
Capacity Evaluation**  
PARE Project No. 11144.01

On behalf of the Town of Ashland, Pare Corporation (PARE) has prepared this letter to clarify the capacity of the proposed water distribution system interconnection between the Towns of Southborough and Ashland.

In 2013, the Town of Ashland engaged PARE to prepare a conceptual design of a proposed emergency interconnection between Ashland and Southborough. Specifically, PARE's design addressed the upgrades that would be necessary in Southborough's system to move water from the MWRA system to the Town of Ashland. Those upgrades are identified in a preliminary plan set titled, "Conceptual (25%) Design Ashland and Southborough Emergency Interconnection", dated September 2013. Those upgrades generally include new pumps in Southborough's Hosmer Pump Station, new distribution system piping in Southborough's system, a proposed meter and vault, and a new altitude valve at the base on one of Southborough's existing storage tanks. The design basis of the proposed emergency interconnection was to deliver one million gallons per day (1 MGD) to Ashland on a maximum summer day, which is to say on a day when water use in both systems is at or near its maximum summertime usage. The capacity of the proposed interconnection is dictated largely by the size of the proposed pumps in the Hosmer Pump Station and the pressure gradient difference between the two systems. The proposed upgrades designed by PARE are intended to deliver 1 MGD through the proposed interconnection. However, there may be times when the delivery capacity of the interconnection is greater than 1 MGD. During times of low demand, and when the pressure gradient between the two systems is near its maximum, it may be possible to move between 1.3 and 1.6 MGD through the proposed interconnection. For example, if Ashland were experiencing generally low pressure due to a depleted storage tank and Southborough was operating with its tanks full or nearly full and had little demand on its system, it may be possible to move as much as 1.6 MGD through the proposed interconnection. Therefore, for planning purposes the maximum flow through the proposed interconnection is expected to be no more than 1.6 MGD.

I hope this clarifies this issue for the Town. If we can be of any further assistance with this matter, please don't hesitate to give me a call at (401) 334-4100.

Sincerely,

Timothy P. Thies, P.E.  
Managing Engineer

TPT/abv

Cc: Karen Galligan, Town of Southborough

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