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Date: 8-20-19

TO: Cape Cod Commission

FROM: Daniel A. Ojala, PE, PLS down cape engineering, inc.

RE: Cape Cod Hospital #27 Park Street, Hyannis, MA
UTILITY CAPACITY
DCE Job # 17-005

This memo is to inform the Commission that my firm has been working with various utility vendors to coordinate upgraded connections for the proposed expansion at the Cape Cod Hospital's main campus.
National Grid has reviewed our existing and proposed gas demand and generated a work order to supply natural gas for the facility.
Hyannis Water Systems has reviewed proposed modifications to the site and has worked with us on the water system design presented. Improvement to the water main in Lewis Bay Road and replacement of older hospital water lines is proposed, and adequate capacity exists in their water system for the expansion.
We have also received permission from the Yarmouth Water Superintendent to connect to the 12" main in Bay View Street for an upgraded fire service line, this will provide important redundancy in the fire protection for the facility.
The Town Engineer of Barnstable has received the revised sewer connection plans and is working with his consultant on reviewing the proposed modifications, and has stated he feels confident in the capacity of the WWTP and collection system to receive the existing and proposed wastewater flows. The wastewater flow is estimated to increase 7,000 gpd from 52,800 gpd to 59,800 gpd design flow (299 beds x 200 gpd/bed total).
We have also worked with Verizon to coordinate a new telephone trunk line, the existing service ran through a panel in the basement of the Whitcomb Pavilion, which is vulnerable to flooding during a greater than 100 year interval storm event. The new panel will be elevated above the first floor which is 21.7' above mean sea level.
In summary, all utilities serving the facility have been examined and designed to assure adequate capacity for the proposed expanded Hospital use.