Exhibit VIII.C.17.a

INFRASTRUCTURE REQUIREMENTS: ESTIMATED FRESH WATER AND ELECTRICITY DEMAND

Submit as Exhibit VIII. C.17.a. studies of independent engineers or other experts reporting projections of estimated fresh water and electricity demand (base and peak---period) and sanitary sewer and storm water discharge, each, for the proposed Gaming Facility. Include in those reports an assessment of the feasibility of any plans to accommodate that demand onsite (e.g. by onsite production of electricity, treatment of fresh or waste water, or detention of storm water).

ESTIMATED FRESH WATER AND ELECTRICITY DEMAND

Electricity Demand

Electric power to the site is currently provided by Central Hudson Gas & Electric (CHG&E), a Fortis company, from the Greenfield substation approx. 9000' northwest the site. Electric power also enters the site from the Clinton Avenue Substation approx. 2000' northeast of the site.

Central Hudson Gas & Electric Corporation has indicated in writing, a willingness and capacity to serve Nevele Resort, Casino & Spa (see Appendix B). Extensions of services may be conducted at cost to Central Hudson.

There is one drawing, two letters and one report included as part of this exhibit.

Electrical usage demand has been calculated to be 9,000 KW peak load, and 7500KW base load. The usage demands have been analyzed on a square footage basis per occupancy type. These numbers are pending finalized square footage. The breakdown per building / usage type on a demand usage is estimated as follows:

	PEAK KW	BASE KW
Existing BJB & Empire Hotel Buildings	829	691
New Nevele Hotel Building	1,310	1,092
Casino Building - Lower level amenities	1,026	855
Casino Building - Lower level support	700	583
Casino Gaming / Restaurants / IT / Security	3,400	2,900
Golf Clubhouse	40	33
Parking Garage	220	183
Site Loads	1,000	700
Central Plant / Butler Building	475	463
TOTAL DEMAND	9,000	7,500

The projected electrical usage load analysis is included as an attachment.

Water Supply Design and Engineers Report

A Water Supply Design and Engineers Report was prepared by The Chazen Companies in June 2014 is attached. The findings of this report conclude that the existing Village of Ellenville public water system has sufficient treatment, storage, and pumping capacity to satisfy the anticipated combined water demand of the Water District and of Nevele Resort, Casino & Spa. No adverse impacts on the Village's water distribution system are anticipated. Existing transmission facilities, currently serving the site (8" water main) are adequate to address domestic water demands.

The anticipated average daily domestic water demand from the proposed development was calculated by correlating water supply to wastewater generation. Using Table 3 of the NYSDEC Design Standards for Wastewater Treatment Works (2014), expected hydraulic wastewater loading rates were correlated directly to anticipate average daily domestic water demand. It is noted that water demand is typically 10 percent higher than the domestic daily hydraulic wastewater loading when consideration is given to water that does not reach the sewer (i.e. boiler, sprinklers, etc.). As mandated by Section 15-0314 of the Environmental Conservation Law, plumbing facilities in new and renovated buildings must use water-saving fixtures and, therefore, a 20 percent reduction in water demand can be taken. The anticipated average daily domestic water demand for Nevele will be 162,523 GPD or 0.162 MGD. See Appendix H for detailed water usages and corresponding average day demands.

The total operating capacity of the Village's existing water system with the largest permitted source out of service is 0.75 mgd. The anticipated domestic water supply demand of Nevele is estimated to be 0.162 mgd. Therefore, considering the 2013 annual water produced by the Village (0.529 mgd), the total water demand of the system under the build condition will be 0.691 mgd.

Existing Average Day Demand	0.529 mgd	
Nevele Demand	0.162 mgd	
Total	**0.691 mgd**	**< 0.75 mgd**

No improvements or extensions to the Village system are required as part of the project in order to meet the estimated average daily demand for us. The existing 8" DIP Water Main that traverses the Honors Haven property within an existing utility easement will

remain in place and will continue to service Nevele Resort, Casino & Spa (see Figure 3.3.1). The existing 8-inch water main will have sufficient capacity to service Nevele given the fact that this main provided adequate service to the previous Nevele Grande, which had a greater average daily water demand than that of the proposed project. Nevele will remain as an out of district user of the Village of Ellenville public water supply system.

The planned on-site water distribution system is illustrated on Figure 3.3.1 "On Site Water and Sewer Master Plan." The proposed water distribution system will be designed in accordance with *"Recommended Standards for Water Works"* (Ten States Standards) and will serve Nevele in our entirety. The distribution system will consist of eight-inch water mains with individual service connections to associated buildings. The water mains will be generally installed with the limits of proposed pavement with a minimum earthen cover of five feet. The distribution system will be designed to meet the NYSDOH and UCDOH criteria for distribution system pressure and to accommodate the wide range of uses within the proposed service area.

Sanitary Sewer Design and Engineers Report

A Sanitary Sewer Design and Engineers Report was prepared by The Chazen Companies in June 2014 is attached. The findings of this report conclude that all wastewater from the various Nevele facilities will be collected and conveyed through a series of new PVC gravity sanitary sewer collection pipes which ultimately will discharge into a sanitary sewer pump station located on the Nevele property. This sanitary sewer pump station will be owned, operated and maintained by the Nevele.

Wastewater from the pump station would be conveyed via an HDPE forcemain to the Village of Ellenville's sanitary sewer collection system within Nevele Road. Approximately 4,000 linear feet of force main will be directionally drilled along Arrowhead Road which will include an insulated, heat trace aerial crossing mounted to the Sandburg Bridge. At the intersection of Arrowhead and Nevele Roads, the force main will traverse north along Nevele Road finally discharging to an existing 8-inch gravity sewer main owned by the Village.

During the design phase of this project a detailed hydraulic analysis of the Village's existing collection and conveyance system will be completed. This analysis will consider

the proposed project flows and pump rates in context to the Village's conveyance system along with the physical condition of the existing collection system. Improvements to the Village's conveyance system will be designed in accordance the NYS Building Code and "Recommended Standards for Wastewater Facilities" (Ten State Standards).

Considering the wet weather flow of 0.5 MGD at the Ellenville WWTP, adding the proposed project's estimated total wastewater flow of 0.148 MGD would increase the flow to the WWTP to 0.648 MGD. This would be below the WWTP's current operating capacity and leave a reserve capacity of 0.452 MGD for potential new wastewater flows.

Master Stormwater Pollution Prevention Program

A Master Stormwater Pollution Prevention Plan (SWPPP) has been prepared to support project planning, the SEQRA review process, and the gaming license review process (see Exhibit VIII.C.17.E). The Master SWPPP provides sufficient documentation to serve as the baseline for the final SWPPP that will be prepared for the proposed development, as approved. As such, design concepts are provided for stormwater collection and conveyance systems, and water quality and quantity control facilities.

The stormwater analysis is an integral part of Nevele's natural resource environmental analysis, which takes into consideration existing parameters of site topography, soils, erosion potential, surface waters, their connectivity and water quality, vegetative characteristics, visual resources, and the overall health of the watersheds. Project design sensitive to stormwater concerns combine to manage stormwater in compliance with current regulations, incorporating engineering design measures to minimize impacts on the site's natural resources through proposed stormwater management facilities discussed in the report.

Construction of Nevele Resort, Casino & Spa will involve the disturbance of approximately 50-acres of land of which approximately 40-acres will include re-development of the above mentioned Nevele "focus area." Primary construction activities will include the mass demolition and removal of dilapidated buildings, pavement and associated infrastructure in support of the new and vibrant family-friendly resort, casino and spa. In addition, significant site grading, roadway grading and paving, installation of storm drainage system, and construction of water supply and

sanitary sewage collection and conveyance systems will also be completed. Nevele may modify existing or create new stormwater outfalls, however, stormwater will generally be directed to locations to where stormwater is currently being discharged.

Development of Nevele will create additional impervious areas, which will alter the hydrologic characteristics of the watershed and could have indirect impacts on water resources. The total area of impervious surfaces (e.g. roads, driveways, sidewalks, rooftops) associated with these improvements is approximately 21.4-acres (an increase of approximately 3.6-acres as compared to pre-development conditions). Impervious areas can cause rainfall to rapidly convert into stormwater runoff and can also result in the introduction of additional nutrients and pollutants into surface water resources. These pollutants can be transported by stormwater if adequate preventative measures are not put in place.

Stormwater runoff from the proposed development will be collected and conveyed to the quantity control systems through a network of catch basins, drainage manholes, high density polyethylene (HDPE) piping, roadside ditches and HDPE culverts which will be designed to fully convey the 10-year storm event.

Supporting Documentation

To fully respond to the Exhibit, the following maps, memorandum, reports and files are attached:

- Correspondence with CHG&E Letter (dated 04.09.14)
- Nevele Sewer Letter B&L (dated 04.08.14)
- Nevele Water Letter B&L (dated 04.09.14)
- Water Supply and Wastewater Memorandum
- Master SWPPP

As requested, these files have also been provided on the designated jump drives.

Notes

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