



Based upon the development program, the anticipated water demand for the project is expected to be approximately 105,000 gallons per day. This demand is less than the demand of 356,000 gallons per day contemplated for the previously permitted project. The City of Rensselaer has sufficient capacity from their source and distribution system to provide the anticipated water demand. During the Broadway reconstruction project, a new water main was stubbed into the site to provide for a connection for the proposed development, so no off-site improvements will be required to support the water demand of the project.

For details on fresh water demand, please see Section 3.10 of the FGEIS, as well as the Water Study in Appendix J. For details on sanitary sewer and stormwater discharge plans please see Sections 3.3 and 3.11 of the FGEIS, as well as the Stormwater Management Report in Appendix C.

Please also refer to the SEQR Review Summary contained in Exhibit VIII.C.1.c.

Attached is a summary of potential electric service and demand requirements for the proposed site.



**Giovanetti Shulman Associates
Consulting Engineers**

ELECTRIC SERVICE REPORT

HARD ROCK CASINO
ON THE HUDSON

RENSSLAER, NY

PREPARED FOR

HARD ROCK INTERNATIONAL

GSA 6485

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1.0 INTRODUCTION

Giovanetti Shulman Associates has been retained by Hard Rock International to conduct an independent analysis regarding electric service availability for the proposed casino/hotel development in the city of Rensselaer, New York.

2.0 GIOVANETTI SHULMAN ASSOCIATES QUALIFICATIONS

Giovanetti Shulman Associates has been providing consulting engineering services for the Casino & Hotel industry since 1982.

3.0 SITE LOCATION

The project site is located in the city of Rensselaer, on the Hudson River, across from downtown Albany and north of the Dunn Memorial Bridge.

4.0 PROPOSED PROJECT

4.1 Projected Project Demand

The estimated power demand and consumption for the new facility has been determined through engineering analysis and is reflected in the table below. The demand is based on the building program, load diversification, and our experience with similar gaming type facilities.

The electric utility, National Grid, has confirmed that system capacity is available to supply the demand load for the complete facility, although remote from the exact location of the Casino. Based on the estimated demand load a 13.2KV, three-phase service is appropriate to serve this facility.

PROGRAM AREAS	Area Sq. Ft.	Electrical Connected Load	
		VA /Sq. Ft.	KVA
Gaming Floor	53,000	15	795
OTB	2,000	15	30
Casino FOH	16,727	10	167
Casino BOH	36,607	8	293
Hotel Lobby	2,500	6	15
Recreation	7,500	10	75
Retail	800	6	5
Entertainment	1,000	15	15
Food & Beverage	37,976	25	949
Hotel Guestrooms	46,400	4	186
Hotel Support	15,312	3	46
DX Rooftop Units			2,803
Split AC Systems			140
Hotel & Casino Vertical Transportation			147
Signage/Features			110
Building Uplighting			110
Fire & Domestic Water Pumps			147
Low Voltage Equipment			110

Refrigeration (Walk-ins)			61
Parking Structure & Surface Parking			378
TOTAL	219,822		6,580
TOTAL CONNECTED ELECTRICAL POWER	6,580	KVA	
CALCULATED PEAK LOAD	3,290	KVA	
CALCULATED BASE (MINIMUM) LOAD	1,974	KVA	
CALCULATED PEAK ANNUAL ELECTRICAL CONSUMPTION	19,000,000	KWh	

4.2 Onsite Electricity Production for Demand

Onsite production of electricity is limited to standby generators when offsite utility power is unavailable. The generator system will be designed to allow the Casino to participate in a utility demand response program, if feasible.