DOCKETED	
Docket Stamp Updated:	7/13/2020 11:11:53 AM
Docket Number:	20-SPPE-01
Project Title:	Great Oaks South Backup Generating Facility Small Power Plant Exemption
TN #:	233840
Document Title:	Presentation - Siting Committee Conference
Description:	SV1 Status Conference GOSBGF by Equinix
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	7/13/2020 11:09:29 AM
Docketed Date:	7/13/2020

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Docketed Date:	7/13/2020

Siting Committee Conference
CEC- GOS-20-SPPE-01

7/13/2020

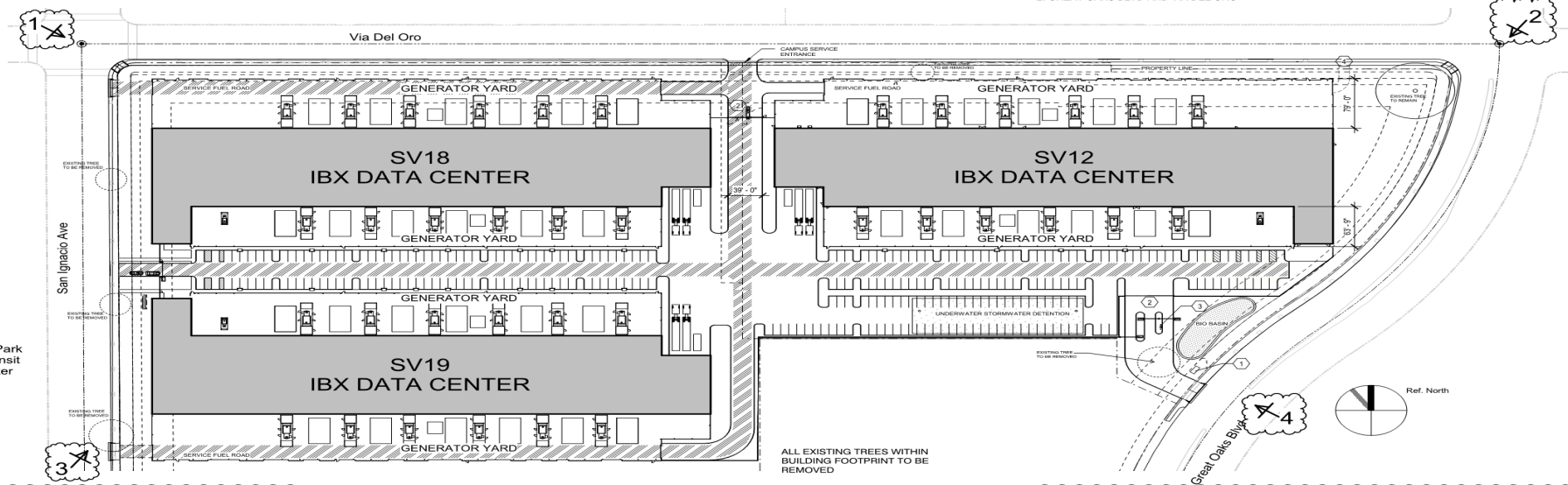
EQUINIX

GOS – SV12 Rendering

GOS – SV12 SV18 and SV19 Layout

1. CORNER OF VIA DEL ORO AND SAN IGNACIO AVE

2. GREAT OAKS BLVD AND VIA DEL ORO



3. VIEW FROM SAN IGNACIO AVE

4. VIEW FROM GREAT OAKS BLVD

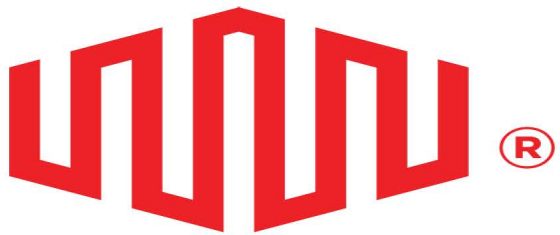
A1 SITE PHOTOS
1" = 80'-0"

Project Description (1 of 2)

- The configuration for Great Oak South (GOS) consists of three new, two story buildings on 18 Acres site.
- The total GSF for all three new buildings is 547,050 with total electrical demand at 99MW.
- The project site is located in an urban area and bound by Via Del Oro (a two-lane roadway with a center turn lane) to the north, Great Oaks Boulevard (a four-lane roadway with a center median) to the east, vacant land to the south, and San Ignacio Avenue (a two lane roadway with a center turn lane) to the west. Surrounding development consists of one to two story modern office buildings, constructed with stucco, steel, and reflective glass windows.
- The Great Oak South Data Center (GOSDC) will be constructed in three separate phases, comprising of SV12, SV18 and SV19 buildings.
- Each new building will consist of (12) 3.25MW generators and one 0.5MW dedicated as life safety.
- The generators will be located in two exterior yards at each individual building (SV12, SV18 and SV19) designated as “Generator or Equipment yard”.
- The revised site drawings have also been resubmitted to City of San Jose for approval.
    - The City approved a Special Use Permit (SUP) including an Initial Study (IS) and adopted a Mitigated Negative Declaration (MND) and a Mitigation Monitoring and Reporting Plan (MMRP) for the GOSDC on February 1st, 2017. The SUP, IS, MND and MMRP included backup generating facilities. A copy of the MND which includes the IS and MMRP and supporting technical studies was provided to commission (Appendix B).
    - The original 2017 site plan approval (SUP15-031) included total of three buildings at total of 63MW of building generators capacity with 573,000 gsf.
    - It is our understanding that the city intends to rely on the environmental analysis of the Great Oaks South Building Generating Facility (GOSBGF) performed by the commission to supplement its environmental reviews of the modified GOSDC.
    - The expectation is that city will complete the review of building site plan, elevations, materials and aesthetics and then wait for CE approval.

Project Description (2 of 2)

- Proposed modifications of GOSDC that resulted from optimizing the GOS for its customers includes:
  - Replacing the (21) 3 MW generators with (36) 3.25 MW generators in 30+6 configuration (6 generators are designated as back-up).
  - Adding (3) 0.50 MW life safety emergency generators, 1 per building
  - The total generation demand for each building will be 33.0 MW
- Electrical distribution system including MV Switchgear, LV Switchgear, UPS, ASTS and distribution cabling will interconnect the six generation yards/GOSBGF to their respective buildings.
- The GOS Backup Generating Facility (GOSBGF) will only be operated for maintenance, testing and during emergency utility power outages. It is our experience that outside of very limited maintenance/testing hours, GOSDC will rarely use back-up generators due to high reliability of PG&E electrical grid. The GOSBGF's main purpose is a safety net and assurance for our customers.
- The main purpose, primary objective of GOSBGF will be to provide sufficient power to meet the demand of GOSDC during power outage, and to maintain power to servers that are housed in the GOSDC.
- The GOSDC load is based on a fully loaded building and ASHRAE hottest design day temperature which is possible, but extremely unlikely, is just under 99MW, below the SPPE threshold. It is therefore expected that the actual total electrical demand load will be much lower than 99MW.
- As communicated to commission, GOSDC has adapted Air-Cooled Chillers in lieu of Water-Cooled Chillers that resulted in major domestic water consumption reduction, down to 3.36 ACRE-FT/YR.



EQUINIX

WHERE OPPORTUNITY CONNECTS