

- NOTES:**
1. REFER TO DWG. E001 FOR SYMBOL LIST AND ABBREVIATIONS.
 2. THE EXACT LOCATION AND ROUTING OF NEW ELECTRIC CONDUIT DUCT BANK FROM EXISTING SUBSTATION # 3 TO NEW BUILDING MUST BE COORDINATED WITH UNIVERSITY OF FLORIDA DEPT OF FACILITIES.
 3. THE ADDITION OF NEW 5KV CIRCUIT BREAKER # 3-10 AND USE OF EXISTING CIRCUIT BREAKER # 3-6 AT EXISTING SUBSTATION # 3 MUST BE COORDINATED WITH UNIVERSITY OF FLORIDA DEPT OF FACILITIES.
 4. THE NEW CIRCUIT BREAKER, 4-WAY SF6 SELECTOR SWITCH, PAD MOUNTED TRANSFORMER AND CONDUIT DUCT BANKS MUST COMPLY WITH THE UNIVERSITY OF FLORIDA FACILITY REQUIREMENTS.

ALTERNATIVE NO.5

PHOTOVOLTAIC SYSTEM

General:

This alternative covers the complete installation of a roof mounted photovoltaic system, including the photovoltaic array, the wiring of the cells to produce DC current input to a Grid Inverter, the provision and installation of the Inverter, AC wiring between the inverter and the installed electrical power distribution system, and the provision and installation of a protective interface device at the interconnect point.

The alternate price should include all labor and material for a complete, functional installation.

Photovoltaic Collectors:

Furnish and install 2,000 square feet of Solarex SX Series Modules (for direct mount on the flat roof surface). Collector panels shall be Model PB/SX-65D, rated at 65 watts output. See architectural roof plan for location.

The total array will be rated for a peak output of 20 kw, 208 volt, 3 phase, 4 wire.

DC Wiring:

All DC wiring shall be sized at 1.5 times the nominal peak current rating for the photovoltaic array or section of that array being serviced.

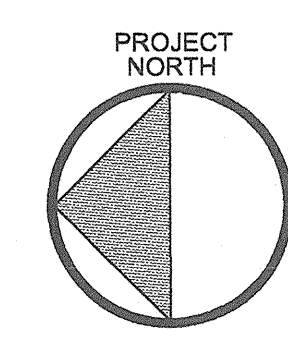
Grid Inverter:

The DC to AC inverter will be of grid connection quality and stability, and rated at 20 kw, 208 volt, 3 phase, 4 wire. The grid inverter shall be as manufactured by Trace Tech.

AC Interconnect Device:

The photovoltaic array output will be routed to Grid inverter, isolation transformer and then connected to the building 120/208 volt, 3 phase, 4 wire power system at location indicated on electrical plan.

ALTERNATE NO.5



M.E. RINKER, Sr. HALL
 SCHOOL OF BUILDING CONSTRUCTION

UNIVERSITY OF FLORIDA-GAINESVILLE
 PROJECT NO. BR-191

ADDRESS:
CROXTON COLLABORATIVE/
GOULD EVANS ASSOCIATES

CROXTON COLLABORATIVE ARCHITECTS
 475 FIFTH AVENUE
 NEW YORK, NY 10017
 TEL 212.683.1998
 FAX 212.683.2799

GOULD EVANS ASSOCIATES
 5405 WEST CYRESS STREET
 TAMPA, FL 33607
 TEL 813.288.0729
 FAX 813.288.0231

MECHANICAL ENGINEERS
LEHR ASSOCIATES
 130 WEST 30TH STREET
 NEW YORK, NY 10001-4092
 TEL 212.947.8050
 FAX 212.967.2959

STRUCTURAL ENGINEER
WALTER P. MOORE
 201 EAST KENNEDY BOULEVARD
 TAMPA, FL 33602
 TEL 813.221.2424
 FAX 813.221.2289

CIVIL ENGINEER
BROWN & CULLEN, INC.
 3530 NW 43 STREET
 GAINESVILLE, FL 32605
 TEL 352.375.8999
 FAX 352.375.8833

LANDSCAPE ARCHITECT
McCLAIN DESIGN GROUP, INC.
 1843 NW 39 DRIVE
 GAINESVILLE, FL 32605
 TEL 352.372.2888
 FAX 352.372.6622

CONSULTANT
SECCY-BISCH
 AUSSERE SULTZBACHER STR. 118
 MURNBERG, GERMANY
 TEL 091/59 90 99
 FAX 091/59 98 05

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100% CONSTRUCTION DOCUMENTS

DRAWING NAME
ELECTRICAL ONE LINE DIAGRAM

DATE
 11/21/01

SCALE
 NTS **E003**

DESIGN BY/ CHECKED BY
 DOC/JH