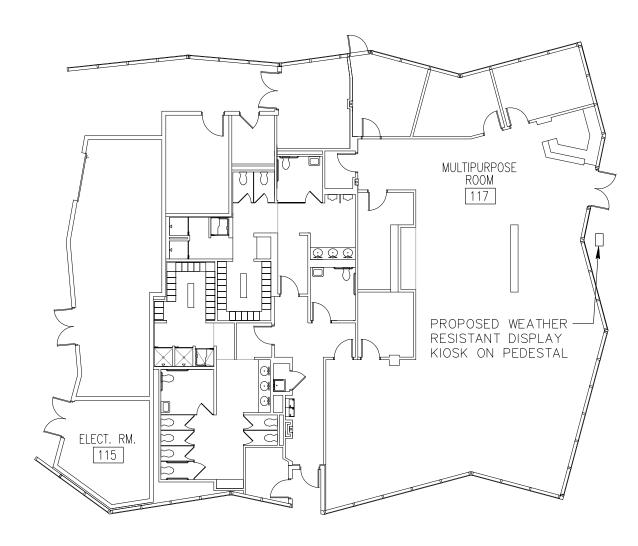
PROPOSED ROOF MOUNTED -SOLAR PANELS LOCATION



NOT TO SCALE



PARTIAL FLOOR PLAN

SCALE: 1/16" = 1'-0"

INTERNAL REVIEW SET
PRELIMINARY NOT FOR CONSTRUCTION



| | | | | | | | | Calvin, Giordano & Associates, In- |
|------|----------|----|----|------|----------|----|----|---|
| | | | | | | | 10 | EXCEPTIONAL SOLUTION |
| | | | | | | | | 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 333 |
| | | | | | | | | Phone: 954.921.7781 • Fax: 954.921.8807 |
| DATE | REVISION | BY | NO | DATE | REVISION | BY | | Certificate of Authorization 514 |

PHOTOVOLTAIC SYSTEM

COMMUNITY CENTER

TOWN OF SURFSIDE, FLORIDA

PARTIAL GROUND FLOOR AND AERIAL PLAN

PROJECT No

EXH-A

INTERNAL REVIEW SET PRELIMINARY NOT FOR CONSTRUCTION

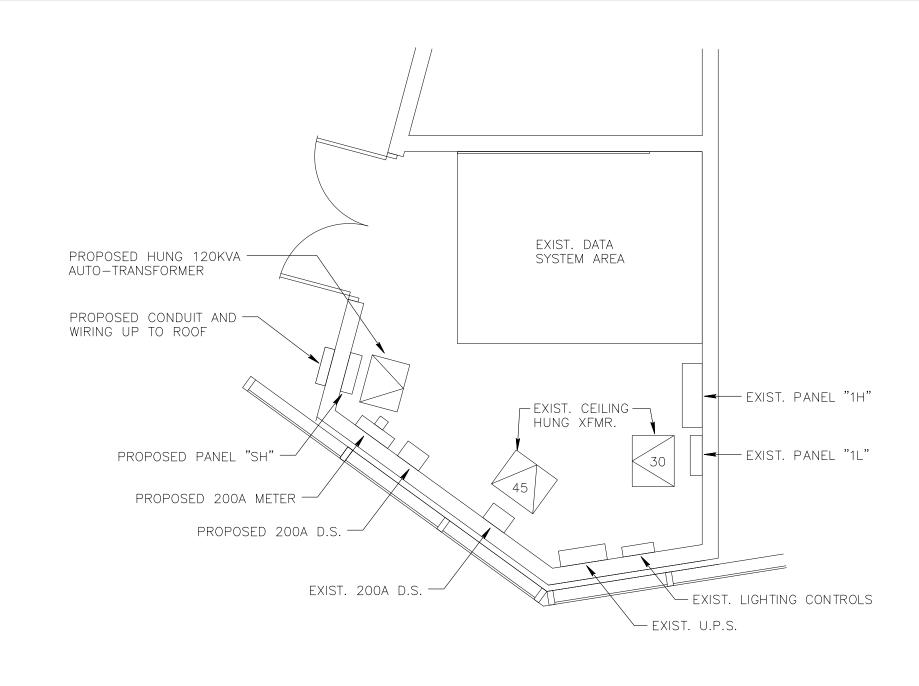
| | | | | | | | | Calvin, Giordano & Associates, Inc. |
|----|------|----------|----|----|------|----------|----|---|
| | | | | | | | | EXCEPTIONAL SOLUTIONS" |
| | | | | | | | | 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316 |
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PHOTOVOLTAIC SYSTEM
COMMUNITY CENTER
TOWN OF SURFSIDE, FLORIDA

ROOF PLAN

PROJECT No

EXH-B



EXISTING MAIN ELECTRICAL ROOM

SCALE: 1/4" = 1'-0"

INTERNAL REVIEW SET PRELIMINARY NOT FOR CONSTRUCTION



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|----|------|----------|----|----|------|----------|----|---|
| | | | | | | | | EXCEPTIONAL SOLUTIONS" |
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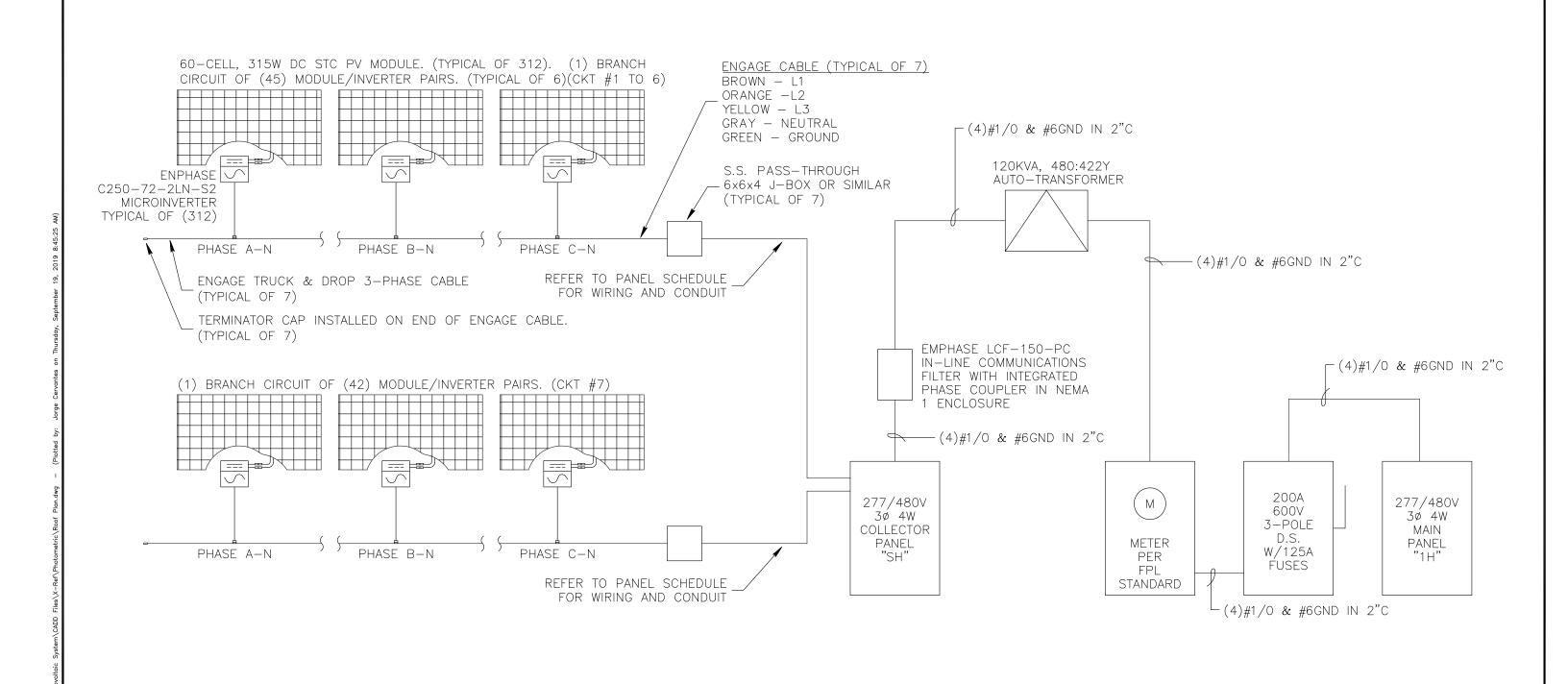
TOWN OF SURFSIDE, FLORIDA

ELECTRICAL ROOM

SCALE
AS NOTED

PROJECT No
18-1461

EXH-C



OUTLINE DIAGRAM

NOT TO SCALE

INTERNAL REVIEW SET
PRELIMINARY NOT FOR CONSTRUCTION

| | | | | | | | | Calvin, Giordano & Associates, Inc. |
|----|------|------------|----|----|------|-------------|----|---|
| | | | | | | | | EXCEPTIONAL SOLUTIONS" |
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| | | | - | | | | | Phone: 954.921.7781 • Fax: 954.921.8807 |
| NO | DATE | REVISION | BY | NO | DATE | REVISION | BY | Certificate of Authorization 514 |
| NO | DATE | INE TIDION | | NO | DAIL | ILE VIOLOTY | ы | |

PHOTOVOLTAIC SYSTEM

COMMUNITY CENTER
TOWN OF SURFSIDE, FLORIDA

OUTLINE DIAGRAM

SCALE
AS NOTED

PROJECT No
18-1461

EXH-D

| PANEL N | | - | | • | 002025 | .021) | | | | | | | | | | MAIN I NEUTR | | 600 100 | AMP |
|-----------|---|-------|-----|------|--------|-------|--------|---------------------|-----|-----|-----------------|------|------|--------|---------|-----------------|-------|------------|-------|
| | PE: SIEMENS P4E90H0500FTS (S.O. #3003025031) TO-N VOLTAGE: 277 3-PHASE, 4-WIRE | | | | | | | | | | | | | | | AL. BREAKER: | | 500 AMP | |
| , | TO-Ø VOLTAGE: 480 MOUNTING: SURFACE | | | | | | | | | | | | | | A.I.C.: | | | 10 K | |
| 0 10 0 10 | NOONING. SOMACE | | | | | | | | | | | | | A.I.C. | | | 20 // | | |
| KVA | C.B. | COND. | Ø | NEU. | GND. | FEET | %VD | LOAD | СКТ | СКТ | LOAD | %VD | FEET | GND. | NEU. | Ø | COND. | C.B. | KVA |
| 2.82 | 20-1 | 11/4" | 250 | | 4 | 500 | 0.19 | LTG. INTERIOR SOUTH | 1 | 2 | PANEL "1L" XFMR | 0.53 | 30 | 10 | | 8 | 3/4" | 50-3 | 10.00 |
| 2.12 | 20-1 | | | | | | | LTG. INTERIOR NORTH | 3 | 4 | | | | | | | | | 10.00 |
| 1.20 | 20-1 | 2" | 350 | 350 | 4 | 300 | 0.03 | LTG. EXTERIOR SOUTH | 5 | 6 | | | | | | | | | 10.00 |
| 6.67 | 30-3 | 1/2" | 10 | | 10 | 100 | 1.87 | EDH-1 | 7 | 8 | PANEL "SH" | 0.71 | 100 | 6 | | 1 | 1½" | 125-3 | 20.42 |
| 6.67 | | | | | | | | | 9 | 10 | | | | | | | | | 20.42 |
| 6.67 | | | | | | | | | 11 | 12 | | | | | | | | | 20.42 |
| 0.94 | 20-3 | 1/2" | 12 | | 12 | 100 | 0.42 | EF-6 | 13 | 14 | RP-1 CONTROL | 0.13 | 30 | 12 | 12 | 12 | 1/2" | 20-3 | 1.00 |
| 0.94 | | | | | | | | | 15 | 16 | | | | | | | | | 1.00 |
| 0.94 | | | | | | | | | 17 | 18 | | | | | | | | | 1.00 |
| 9.00 | 40-3 | 3/4" | 8 | | 10 | 100 | 1.58 | CU-1A | 19 | 20 | SPARE | | | | | | | 20-3 | |
| 9.00 | | | | | | | | | 21 | 22 | | | | | | | | | |
| 9.00 | | | | | | | | | 23 | 24 | | | | | | | | | |
| 9.00 | 40-3 | 3/4" | 8 | | 10 | 100 | 1.58 | CU-1B | 25 | 26 | WATER HEATER | 0.35 | 100 | 6 | | 2 | 11/4" | 110-3 | 8.00 |
| 9.00 | | | | | | | | | 27 | 28 | | | | | | | | | 8.00 |
| 9.00 | | | | | | | | | 29 | 30 | | | | | | | | | 8.00 |
| 2.10 | 15-3 | 1/2" | 12 | | 12 | 100 | 0.93 | AHU-1 | 31 | 32 | PANEL "PH" | 0.53 | 100 | 6 | 1 | 1 | 1½" | 100-3 | 15.19 |
| 2.10 | | | | | | | | | 33 | 34 | | | | | | | | | 15.19 |
| 2.10 | | | | | | | | | 35 | 36 | | | | | | | | | 15.19 |
| (27.30) | 125-3 | 1½" | 1 | 1 | 6 | 50 | (0.47) | PROPOSED PANEL "SH" | 37 | 38 | PANEL "PL" XFMR | 0.00 | | 8 | | 4 | 11/4" | 70-3 | 15.00 |
| (27.30) | | | | | | | | | 39 | 40 | | | | | | | | | 15.00 |
| (27.30) | | | | | | | | | 41 | 42 | | | | | | | | | 15.00 |

A-PHASE TOTAL CONNECTED LOAD: 361.52 AMPS PANEL LOAD(KVA): 298.10 KVA PANEL LOAD(AMP): 358.56 AMPS B-PHASE TOTAL CONNECTED LOAD: 358.99 AMPS C-PHASE TOTAL CONNECTED LOAD: 355.67 AMPS

(1) REMOVE EXISTING SPARE BREAKER AND INSTALL NEW BREAKER SIZE SHOWN. MATCH EXISTING BREAKERS IN PANEL.

(2) 98.28KWdc/81.9KWac

PANEL NAME: SH MAIN BUS: 225 AMP TYPE: SIEMENS NEUTRAL: 100 % Ø-TO-N VOLTAGE: 277 3-PHASE, 4-WIRE MAIN BREAKER: 150 AMP Ø-TO-Ø VOLTAGE: 480 MOUNTING: SURFACE A.I.C.: 14 K

| Γ | KWdc | C.B. | COND. | Ø | NEU. | GND. | FEET | %VD | LOAD | СКТ | СКТ | LOAD | %VD | FEET | GND. | NEU. | Ø | COND. | C.B. | KWdc |
|-----|------|------|-------|---|------|------|------|------|--------------|-----|-----|--------------|--|------|------|-------|---|-------|------|------|
| ,t | | | 111 | | | | | | | CK1 | | | | | | IVEO. | | 111 | | |
| (2) | 4.73 | 20-3 | 1 | 8 | 8 | 10 | 255 | 2.12 | SOLAR CKT #1 | 1 | 2 | SOLAR CKT #5 | 2.12 | 255 | 10 | 8 | 8 | 1 | 20-3 | 4.73 |
| (2) | 4.73 | | | | | | | | (45)PANELS | 3 | 4 | (45)PANELS | | | | | | | | 4.73 |
| 2) | 4.73 | | | | | | | | | 5 | 6 | | | | | | | | | 4.73 |
| (2) | 4.73 | 20-3 | 1" | 8 | 8 | 10 | 255 | 2.12 | SOLAR CKT #2 | 7 | 8 | SOLAR CKT #6 | 2.12 | 255 | 10 | 8 | 8 | 1" | 20-3 | 4.73 |
| 2)[| 4.73 | | | | | | | | (45)PANELS | 9 | 10 | (45)PANELS | | | | | | | | 4.73 |
| 2)[| 4.73 | | | | | | | | | 11 | 12 | | | | | | | | | 4.73 |
| 2)[| 4.73 | 20-3 | 1" | 8 | 8 | 10 | 255 | 2.12 | SOLAR CKT #3 | 13 | 14 | SOLAR CKT #7 | 1.98 | 255 | 10 | 8 | 8 | 1" | 20-3 | 4.41 |
| 2) | 4.73 | | | | | | | | (45)PANELS | 15 | 16 | (42)PANELS | | | | | | | | 4.41 |
| 2)[| 4.73 | | | | | | | | | 17 | 18 | | | | | | | | | 4.41 |
| 2)[| 4.73 | 20-3 | 1" | 8 | 8 | 10 | 255 | 2.12 | SOLAR CKT #4 | 19 | 20 | SPACE | | | | | | | | |
|)[| 4.73 | | | | | | | | (45)PANELS | 21 | 22 | SPACE | | | | | | | | |
| 2) | 4.73 | | | | | | | | | 23 | 24 | SPACE | | | | | | | | |
| | | | | | | | | | SPACE | 25 | 26 | SPACE | | | | | | | | |
| | · | | | | | | | | SPACE | 27 | 28 | SPACE | | | | | | | · | |
| Γ | | | | | | | | | SPACE | 29 | 30 | SPACE | | | | | | | | |

98.28 KWdc(1) A-PHASE TOTAL CONNECTED LOAD: 118.27 AMPS PANEL LOAD(KVA): PANEL LOAD(AMP): 118.21 AMPS B-PHASE TOTAL CONNECTED LOAD: 118.27 AMPS C-PHASE TOTAL CONNECTED LOAD: 118.27 AMPS

(2) WIRING AND CONDUIT SIZING SHOWN FOR REFERENCE. VERIFY SIZES DURING DESIGN.

INTERNAL REVIEW SET PRELIMINARY NOT FOR CONSTRUCTION



| | | | | | | | Calvin, Giordano & Associates, II |
|------|----------|----|----|------|----------|----|--|
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PHOTOVOLTAIC SYSTEM

COMMUNITY CENTER

TOWN OF SURFSIDE, FLORIDA

PANEL SCHEDULES

PROJECT No