Camden Cty E-4
## EXISTING PANEL 'A'
FED FROM:

MAKE: CUTLER HAMMER
TYPE: PRL1
MOUNTING: SURFACE
MINIMUM AIC: VERIFY

RATING: 120/230 1 PHASE 3 WIRE
200A MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

| LOAD SERVICE | CKT BRKR | WATTS PER PHASE A | WATTS PER PHASE B | CKT NO | NEUTRAL A B | CKT NO | WATTS PER PHASE A | WATTS PER PHASE B | CKT BRKR | LOAD SERVICE |
|---|---|---|---|---|---|---|---|---|---|---|
| AREA LIGHTS | 20A | --- | | 1 | | 2 | --- | | 100A | SUB PANEL A |
| AREA LIGHTS | 20A | | --- | 3 | | 4 | | --- | | – |
| AREA LIGHTS | 20A | --- | | 5 | | 6 | --- | | 20A | BUILDING LIGHTS |
| AREA LIGHTS | 20A | | --- | 7 | | 8 | | --- | 20A | BUILDING LIGHTS |
| AREA LIGHTS | 20A | --- | | 9 | | 10 | --- | | 20A | LTS: BUILDING, UNISEX |
| AREA LIGHTS | 20A | | --- | 11 | | 12 | | --- | 100A | REFRESHMENT STAND |
| AREA LIGHTS | 20A | --- | | 13 | | 14 | --- | | | |
| AREA LIGHTS CONTROL | 20A | | --- | 15 | | 16 | | --- | 30A | AIR COMPRESSOR |
| EMERGENCY LIGHTS/EXIT LIGHTS | 20A | --- | | 17 | | 18 | --- | | | |
| AREA LIGHTS | 20A | | --- | 19 | | 20 | | --- | 50A | HEAT |
| HEAT PUMP | 20A | --- | | 21 | | 22 | --- | | | |
| SPACE | | | --- | 23 | | 24 | | --- | 60A | HP-1 |
| SPACE | | --- | | 25 | | 26 | --- | | | |
| BUILDING LIGHTS | 20A | | --- | 27 | | 28 | | --- | 30A | WATER HEATER |
| WATER HEATER | 30A | --- | | 29 | | 30 | --- | | | |
| | | | --- | 31 | | 32 | | --- | 20A | HAND DRYER |
| SPARE | 20A | --- | | 33 | | 34 | --- | | 20A | HAND DRYER |
| EXHAUST FAN | 20A | | --- | 35 | | 36 | | --- | 20A | REC: MECH |
| SPARE | 20A | --- | | 37 | | 38 | --- | | 20A | REC: LOBBY & UNISEX |
| AHU-1 | 40A | | --- | 39 | | 40 | | --- | 30A | SPARE |
| | | --- | | 41 | | 42 | --- | | | |
| NOTES | SUB-TOTALS 'B' | --- | --- | | 200A | BUS | --- | --- | SUB-TOTALS 'A' | TOTAL CONNECTED LOAD |
| | | | | | 200A | LUGS | --- | --- | SUB-TOTALS 'B' | |
| | | | | | 200A | FEED | --- | --- | GRAND TOTAL | |
| | | | | | VERIFY | SIZE | --A | --A | AMPS/PHASE | |

Camden Cty E-4
## REVISED PANEL 'A'
FED FROM:

MAKE: CUTLER HAMMER
TYPE: PRL1
MOUNTING: SURFACE
MINIMUM AIC: VERIFY

RATING: 120/240 1 PHASE 3 WIRE
200A MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

| LOAD SERVICE | CKT BRKR | WATTS PER PHASE A | WATTS PER PHASE B | CKT NO | NEUTRAL A B | CKT NO | WATTS PER PHASE A | WATTS PER PHASE B | CKT BRKR | LOAD SERVICE |
|---|---|---|---|---|---|---|---|---|---|---|
| AREA LIGHTS | 20A | --- | | 1 | | 2 | --- | | 100A | SUB PANEL A |
| AREA LIGHTS | 20A | | --- | 3 | | 4 | | --- | | – |
| AREA LIGHTS | 20A | --- | | 5 | | 6 | 445 | | 20A | **LTS: CHASE/MECH** |
| AREA LIGHTS | 20A | | --- | 7 | | 8 | | 550 | 20A | **LTS: LOBBY** |
| AREA LIGHTS | 20A | --- | | 9 | | 10 | 962 | | 20A | **LTS: TOILETS** |
| AREA LIGHTS | 20A | | --- | 11 | | 12 | | --- | 100A | REFRESHMENT STAND |
| AREA LIGHTS | 20A | --- | | 13 | | 14 | --- | | | |
| AREA LIGHTS CONTROL | 20A | | --- | 15 | | 16 | | --- | 30A | **SPARE** |
| **SPARE** | 20A | --- | | 17 | | 18 | --- | | | |
| AREA LIGHTS | 20A | | --- | 19 | | 20 | | --- | 50A | HEAT STRIPS |
| REC: HEAT PUMP | 20A | --- | | 21 | | 22 | --- | | | |
| **WATER CLOSET CONTROL CIRCUIT** | 20A | | 540 | 23 | | 24 | | --- | 60A | HP-1 |
| **WATER CLOSET CONTROL CIRCUIT** | 20A | 1080 | | 25 | | 26 | --- | | | |
| **LTS: SOFFIT** | 20A | | 475 | 27 | | 28 | | 3000 | 35A | **WATER HEATER** |
| **SPARE** | 30A | --- | | 29 | | 30 | 3000 | | | |
| | | | --- | 31 | | 32 | | --- | 20A | HAND DRYER |
| SPARE | 20A | --- | | 33 | | 34 | --- | | 20A | HAND DRYER |
| EXHAUST FAN | 20A | | --- | 35 | | 36 | | --- | 20A | REC: MECH |
| **EWH-2** | 20A | 1650 | | 37 | | 38 | --- | | 20A | REC: LOBBY & UNISEX |
| AHU-1 | 40A | | --- | 39 | | 40 | | --- | 30A | **SPARE** |
| | | --- | | 41 | | 42 | --- | | | |
| NOTES | SUB-TOTALS 'B' | --- | --- | | 200A | BUS | --- | --- | SUB-TOTALS 'A' | TOTAL CONNECTED LOAD |
| | | | | | 200A | LUGS | --- | --- | SUB-TOTALS 'B' | |
| | | | | | 200A | FEED | --- | --- | GRAND TOTAL | |
| | | | | | VERIFY | SIZE | --A | --A | AMPS/PHASE | |

EXISTING CIRCUIT TO REMAIN
**NEW OR REVISED CIRCUIT**

LOAD HAS BEEN REDUCED THEREFORE PANEL LOADS ARE NOT RE-CALCULATED.

Camden Cty E-4
## EXISTING SUBPANEL 'B'
FED FROM:

MAKE: SQUARE D
TYPE: NQOD
MOUNTING: SURFACE
MINIMUM AIC: VERIFY

RATING: 120/240 1 PHASE 3 WIRE
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

| LOAD SERVICE | CKT BRKR | WATTS PER PHASE A | WATTS PER PHASE B | CKT NO | NEUTRAL A B | CKT NO | WATTS PER PHASE A | WATTS PER PHASE B | CKT BRKR | LOAD SERVICE |
|---|---|---|---|---|---|---|---|---|---|---|
| GFI CIRCUIT 14 | 20A | --- | | 1 | | 2 | --- | | 20A | REC: CIRCUIT 22 |
| GFI CIRCUIT 12 | | | --- | 3 | | 4 | | --- | | REC: CIRCUIT 24 |
| GFI CIRCUIT 18 | | --- | | 5 | | 6 | --- | | | REC: CIRCUIT 26 |
| GFI CIRCUIT 16 | | | --- | 7 | | 8 | | --- | | REC: CIRCUIT 28 |
| SMOKE DETECTOR | | --- | | 9 | | 10 | --- | | | SPARE |
| CIRCUIT 20 LOBBY REC | | | --- | 11 | | 12 | | --- | | FIRE ALARM PANEL L |
| NOTES | SUB-TOTALS 'B' | --- | --- | | 100A | BUS | --- | --- | SUB-TOTALS 'A' | TOTAL CONNECTED LOAD |
| | | | | | 100A | LUGS | --- | --- | SUB-TOTALS 'B' | |
| | | | | | 100A | FEED | --- | --- | GRAND TOTAL | |
| | | | | | VERIFY | SIZE | --A | --A | AMPS/PHASE | |

L LOCKING BREAKER

Camden Cty E-4
## REVISED SUBPANEL 'B'
FED FROM:

MAKE: SQUARE D
TYPE: NQOD
MOUNTING: SURFACE
MINIMUM AIC: VERIFY

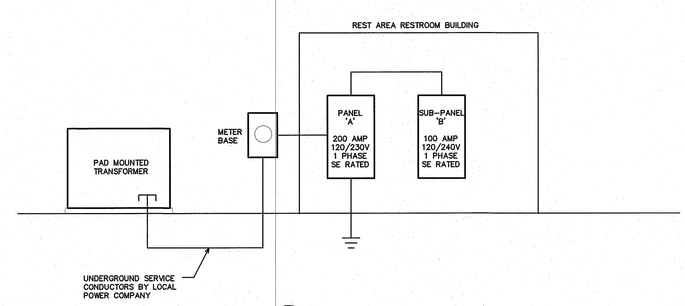
RATING: 120/240 1 PHASE 3 WIRE
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

| LOAD SERVICE | CKT BRKR | WATTS PER PHASE A | WATTS PER PHASE B | CKT NO | NEUTRAL A B | CKT NO | WATTS PER PHASE A | WATTS PER PHASE B | CKT BRKR | LOAD SERVICE |
|---|---|---|---|---|---|---|---|---|---|---|
| GFI CIRCUIT 14 | 20A | --- | | 1 | | 2 | --- | | 20A | REC: CIRCUIT 22 |
| GFI CIRCUIT 12 | | | --- | 3 | | 4 | | --- | | REC: CIRCUIT 24 |
| GFI CIRCUIT 18 | | --- | | 5 | | 6 | --- | | | REC: CIRCUIT 26 |
| GFI CIRCUIT 16 | | | --- | 7 | | 8 | | --- | | REC: CIRCUIT 28 |
| **SPARE** | | --- | | 9 | | 10 | --- | | | SPARE |
| CIRCUIT 20 LOBBY REC | | | --- | 11 | | 12 | | 250 | | **LAVATORY CONTROL CIRCUIT** |
| NOTES | SUB-TOTALS 'B' | --- | --- | | 100A | BUS | --- | --- | SUB-TOTALS 'A' | TOTAL CONNECTED LOAD |
| | | | | | 100A | LUGS | --- | --- | SUB-TOTALS 'B' | |
| | | | | | 100A | FEED | --- | --- | GRAND TOTAL | |
| | | | | | VERIFY | SIZE | --A | --A | AMPS/PHASE | |

EXISTING CIRCUIT TO REMAIN
**NEW OR REVISED CIRCUIT**

LOAD HAS BEEN REDUCED THEREFORE PANEL LOADS ARE NOT RE-CALCULATED.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING PRIOR TO RELEASING GEAR. AIC RATING ON PANELS ARE FOR PERMIT REVIEW AND PRICING ONLY. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO CO.




1 E4 SERVICE RISER
SCALE: NOT TO SCALE

CONSTRUCTION DOCUMENTS

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E. BURKE 6/2015

DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
Phone: 919-707-4540 Fax: 919-715-0399

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

CONSULTANT:
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BURKE DESIGN GROUP, PA
CIVIL ENGINEERING
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
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Corp. License # C-2802

DRAWING TITLE / DISCRIPTION:
ELECTRICAL PANELS & RISER

PROJECT TITLE:
CAMDEN COUNTY REST AREA REFURBISHMENT
2356 HWY 117 NORTH, SOUTH MILLS NC 27976
CAMDEN COUNTY, NORTH CAROLINA

| | |
|---|---|
| SCO ID NO. | 14-11342-01A |
| TIP PROJ. NO. | – |
| WBS NO. | 36059.27 |
| FEDERAL ID NO. | |

ASSET NUMBER:
CO.# SITE.# BLDG.#
15 - 04 - 02

REVISIONS

| NO. | DATE |
|---|---|
| | |
| | |
| | |

DATE ISSUED: 4/17/15
DRAWN BY: VG
CHECKED BY: BEB

SHEET NO.
E4