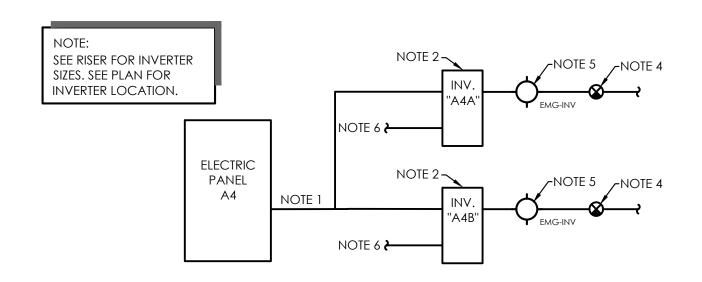
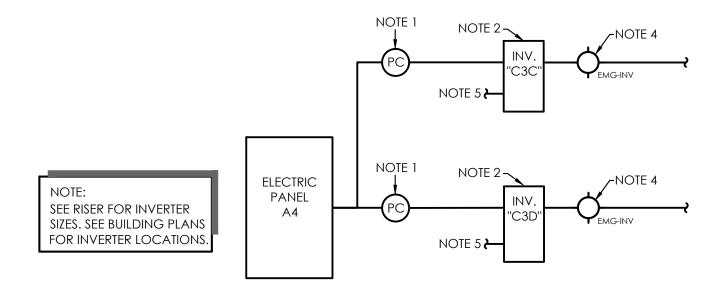


DETOX BUILDING



- 1. AREA LIGHTING CIRCUIT. 2. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP. SEE RISER FOR SPEC.
- 4. EXIT SIGNS WIRED TO INVERTER. 5. AREA NIGHT LIGHT(S) TO BE USED AS EMERGENCY LIGHT. 6. HOT LEG TO INVERTER FOR MONITORING.
- EMERGENCY LIGHTING INVERTER DETAIL

DETOX BUILDING



- 1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS MAY NOT SHARE SINGLE PHOTOCELL.
- PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT DESIGNATION INDICATED ON BUILDING PLANS. 3. EXIT SIGNS.
- 4. EMERGENCY FIXTURES. 5. HOT LEG TO INVERTER FOR MONITORING.

10) EMERGENCY LIGHTING INVERTER & PHOTOCELL DETAIL
NO SCALE

THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA

NEW HANOVER COUNTY

NORTH CAROLINA

SITE PLAN

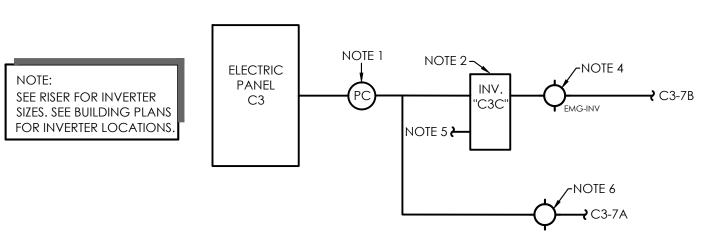
Raleigh, North Carolina 27604

MAPLE ENGINEERING, PLLG

708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797

t. 919.833.5400 www.isdesignpa.com

RESIDENTIAL BUILDING



1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS MAY NOT SHARE SINGLE PHOTOCELL. 2. PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING

DINING BUILDING

1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS

PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING

INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT

\ EMERGENCY LIGHTING INVERTER & PHOTOCELL DETAIL

MAY NOT SHARE SINGLE PHOTOCELL.

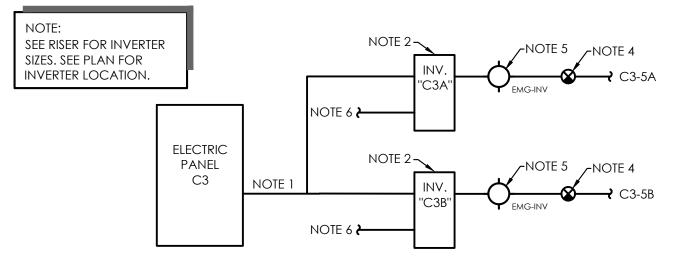
5. HOT LEG TO INVERTER FOR MONITORING.6. NON-EMERGENCY FIXTURES.

4. EMERGENCY FIXTURES.

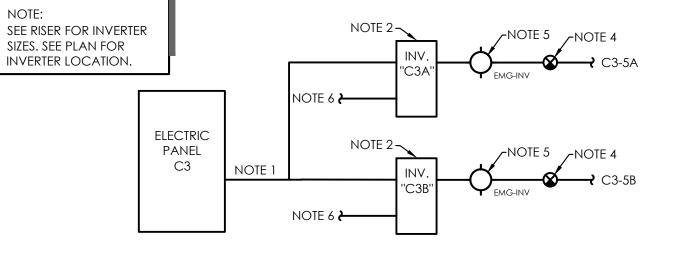
DESIGNATION INDICATED ON BUILDING PLANS.

- INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT DESIGNATION INDICATED ON BUILDING PLANS. 3. EXIT SIGNS. 4. EMERGENCY FIXTURES.5. HOT LEG TO INVERTER FOR MONITORING.
- 6. NON-EMERGENCY FIXTURES. EMERGENCY LIGHTING INVERTER & PHOTOCELL DETAIL

RESIDENTIAL BUILDING



NOTE: 1. AREA LIGHTING CIRCUIT. 2. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP. SEE RISER FOR SPEC. 4. EXIT SIGNS WIRED TO INVERTER.5. AREA NIGHT LIGHT(S) TO BE USED AS EMERGENCY LIGHT.



- 6. HOT LEG TO INVERTER FOR MONITORING.
- EMERGENCY LIGHTING INVERTER DETAIL

SITE LIGHTING

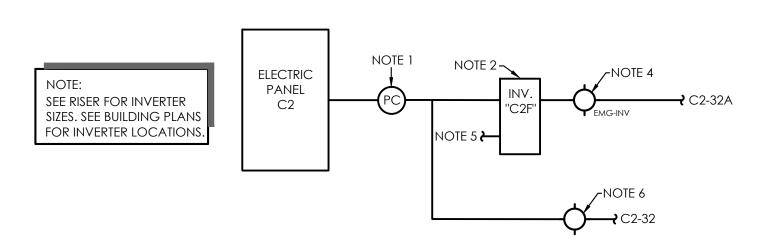
1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS

2. PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING

INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT DESIGNATION INDICATED ON BUILDING PLANS.

\ EMERGENCY LIGHTING INVERTER & PHOTOCELL DETAIL

SITE LIGHTING



MAY NOT SHARE SINGLE PHOTOCELL.

5. HOT LEG TO INVERTER FOR MONITORING.

4. EMERGENCY FIXTURES.

1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS MAY NOT SHARE SINGLE PHOTOCELL.

ADMIN BUILDING

2. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP. SEE RISER FOR SPEC.

5. AREA NIGHT LIGHT(S) TO BE USED AS EMERGENCY LIGHT.

- 2. PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT DESIGNATION INDICATED ON BUILDING PLANS.
- 3. EXIT SIGNS. 4. EMERGENCY FIXTURES. 5. HOT LEG TO INVERTER FOR MONITORING. 6. NON-EMERGENCY FIXTURES.

ELECTRIC

PANEL

1. AREA LIGHTING CIRCUIT.

4. EXIT SIGNS WIRED TO INVERTER.

6. HOT LEG TO INVERTER FOR MONITORING.

3. NOT USED.

SEE RISER FOR INVERTER

SIZES. SEE PLAN FOR

INVERTER LOCATION.

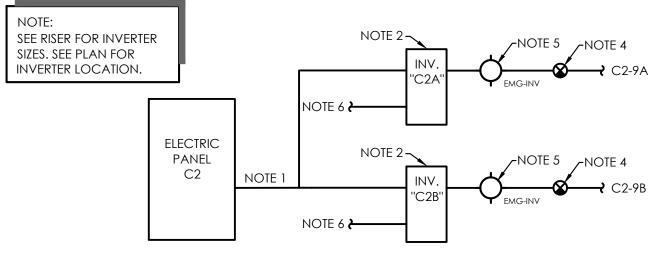
ELECTRIC PANEL

SEE RISER FOR INVERTER

SIZES. SEE BUILDING PLANS FOR INVERTER LOCATIONS

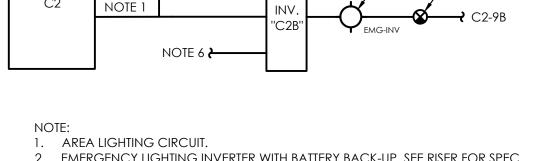
\ EMERGENCY LIGHTING INVERTER & PHOTOCELL DETAIL

DINING BUILDING



- 1. AREA LIGHTING CIRCUIT. 2. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP. SEE RISER FOR SPEC. 5. AREA NIGHT LIGHT(S) TO BE USED AS EMERGENCY LIGHT.

6. HOT LEG TO INVERTER FOR MONITORING.



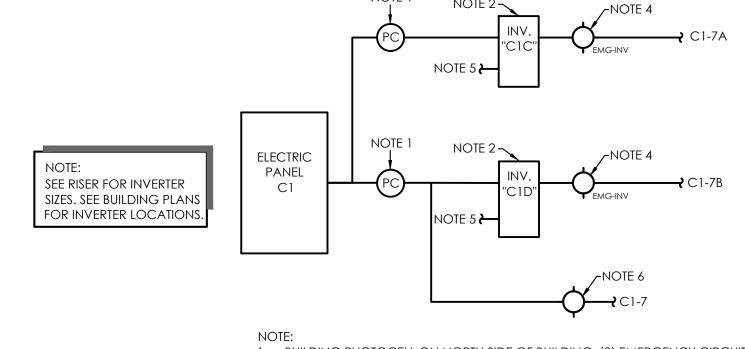
\ EMERGENCY LIGHTING INVERTER DETAIL

ADMIN BUILDING

SEE RISER FOR INVERTER

SIZES. SEE BUILDING PLANS

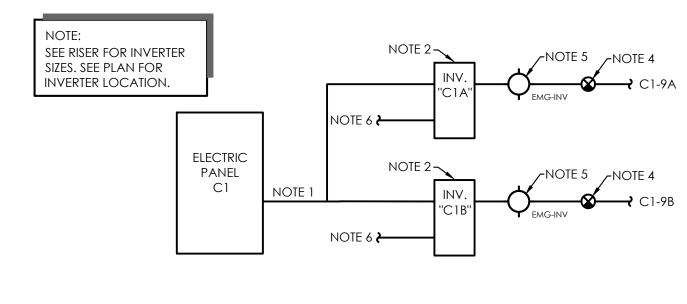
FOR INVERTER LOCATIONS.



ELECTRIC PANEL

- 1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS MAY NOT SHARE SINGLE PHOTOCELL. 2. PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT DESIGNATION INDICATED ON BUILDING PLANS.
- 3. EXIT SIGNS. 4. EMERGENCY FIXTURES. 5. HOT LEG TO INVERTER FOR MONITORING. 6. NON-EMERGENCY FIXTURES.
- **EMERGENCY LIGHTING INVERTER & PHOTOCELL DETAIL**

ADMIN BUILDING

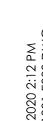


- AREA LIGHTING CIRCUIT. 2. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP. SEE RISER FOR SPEC. 4. EXIT SIGNS WIRED TO INVERTER. 5. AREA NIGHT LIGHT(S) TO BE USED AS EMERGENCY LIGHT. 6. HOT LEG TO INVERTER FOR MONITORING.
- EMERGENCY LIGHTING INVERTER DETAIL

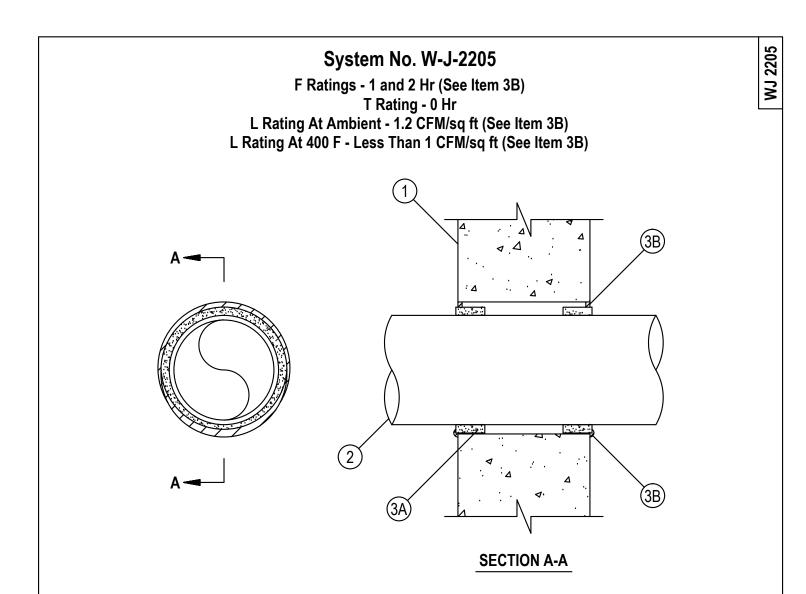
Professional Seals No. Description CONSTRUCTION DOCUMENT SET Sheet Title ELECTRICAL DETAILS

Sheet Number

E003



EMERGENCY LIGHTING INVERTER DETAIL



1. Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. See Table under Item 3B for max diam of opening.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrants — One nonmetallic pipe installed within the firestop system. See Table under Item 3B for annular space required in the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply)

C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

3. Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* — Wrap Strip — See Table under Item 3B for min size of intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and slid into the annular space such that approx 1/8 in. (3 mm) of the wrap strip protrudes from the wall surface. Wrap strip is held in place with integral fastening tape. Wrap strip installed on each surface of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 648S - 1.5" US, CP 648S - 2" US, CP 648S - 3" US, CP 648S - 4" US and CP 648S - 6" US

B. Fill, Void or Cavity Material* — Caulk — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 2 hr fire-rated walls, 1/4 in. (6 mm) bead fill material also applied at wrap strip/wall interface. In 1 hr fire-rated walls, fill material is optional for nom 1-1/2, 2, 3 and 4 in. (38, 51, 76 and 102 mm) diam penetrants. In 2 hr fire-rated walls, fill material is optional for nom 1-1/2, 2 and 3 in. (38, 51 and 76 mm) diam penetrants. Fill material is required to be used to attain L Ratings. HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC — FS-One Sealant

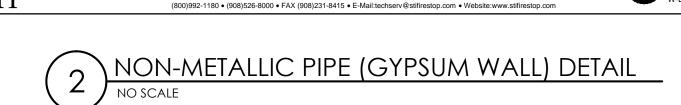
Nom Pipe Diam, in.	Wrap Strip	Wrap Strip Size, thick. x width, in. (mm)	Max Diam of		Space, in. nm)
(mm)		X WIGHT, III. (ITIIII)	Opening,in. (mm)	Min.	Max.
1-1/2 (38)	CP 648S - 1.5" US	3/16 x 1 (5 x 25)	2-3/8 (60)	3/16 (5)	5/16 (8)
2 (51)	CP 648S - 2" US	3/16 x 1 (5 x 25)	3 (76)	3/16 (5)	5/16 (8)
3 (76)	CP 648S - 3" US	3/16 x 1-3/4 (5 x 44)	4 (102)	3/16 (5)	5/16 (8)
4 (102)	CP 648S - 4" US	3/8 x 1-3/4 (10 x 44)	5-3/8 (137)	3/8 (10)	1/2 (13)
6 (152)	CP 648S - 6" US	1/2 x 1-3/4 (13 x 44)	8 (203)	9/16 (14)	13/16 (21)

*Bearing the UL Classification Mark



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Except as noted in Item 2, the F and T Rating of the firestop system is dependent upon the fire rating of wall, diam of through penetrant and the number of wrap strips as tabulated

C. Steel Collar - Collar fabricated from coils of precut 0.016 in. (0.4 mm) thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be min 1-1/2 in. (38 mm)

around wrap strips and pipe with a 1 in. (25 mm) wide overlap along its perimeter joint and secured together by means of a min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick

stainless steel hose clamp installed at mid-depth of the steel collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No. 8 by 1/4

Wrap strip/collar assembly is slid along the through-penetrant until abuts the surface of the wall. Collar secured to wall by 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel molly

bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers. The number of molly bolts used is dependent upon the nom diam of the through penetrant. Two molly bolts,

through-penetrant. Device shall be installed around through-penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. (3 mm) diam by 1-3/4 in. (45 mm) long steel molly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel

SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar . When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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Created or Revised: November 27, 2012

D. Firestop Device* - (Optional, Not Shown) - As an alternate to Item 3B and 3C, galv steel collar lined with an intumescent material sized to fit the specific diam of the

max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe and shall be max 1/4 in. (6 mm) for pipe larger than 2-1/2 in. (64 mm) diam.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three molly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four molly bolts, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam through penetrants. Steel

deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs, are folded 90 degree toward pipe surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped

L Rating At Ambient - 1 CFM/sg ft L Rating At 400 F - Less Than 1 CFM/sq ft

studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

No. 70). When Schedule 80 PVC conduit is used, the F and T Ratings are 1 hr.

(drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 hr.

3. Firestop System - The firestop system shall consist of the following:

1-1/2 (38)

1-1/2 (38)

2 (51)

3 (76)

4 (102)

Wall Hr Penetrant in. (mm)

collars are installed on each side of wall.

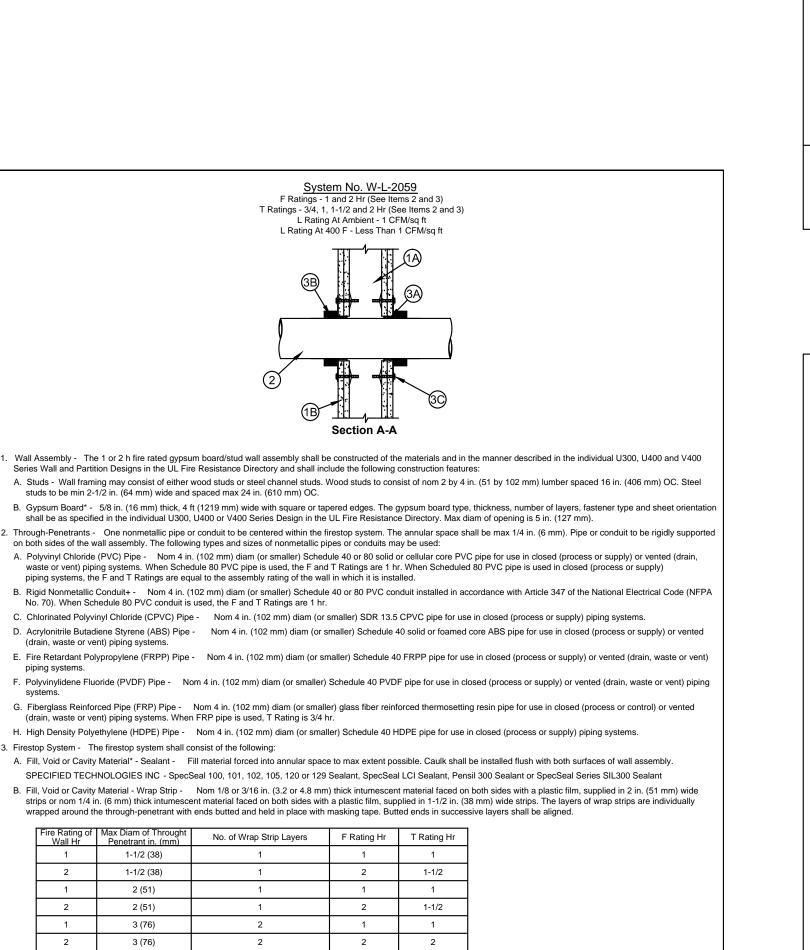
(drain, waste or vent) piping systems.

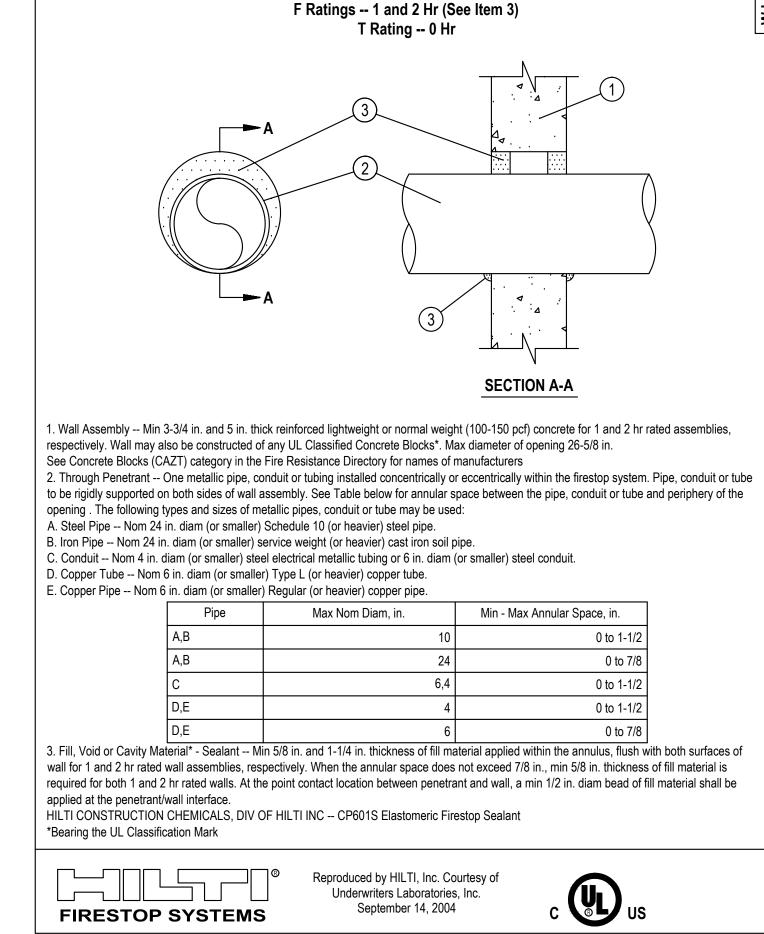
piping systems, the F and T Ratings are equal to the assembly rating of the wall in which it is installed

No. of Wrap Strip Layers

SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip

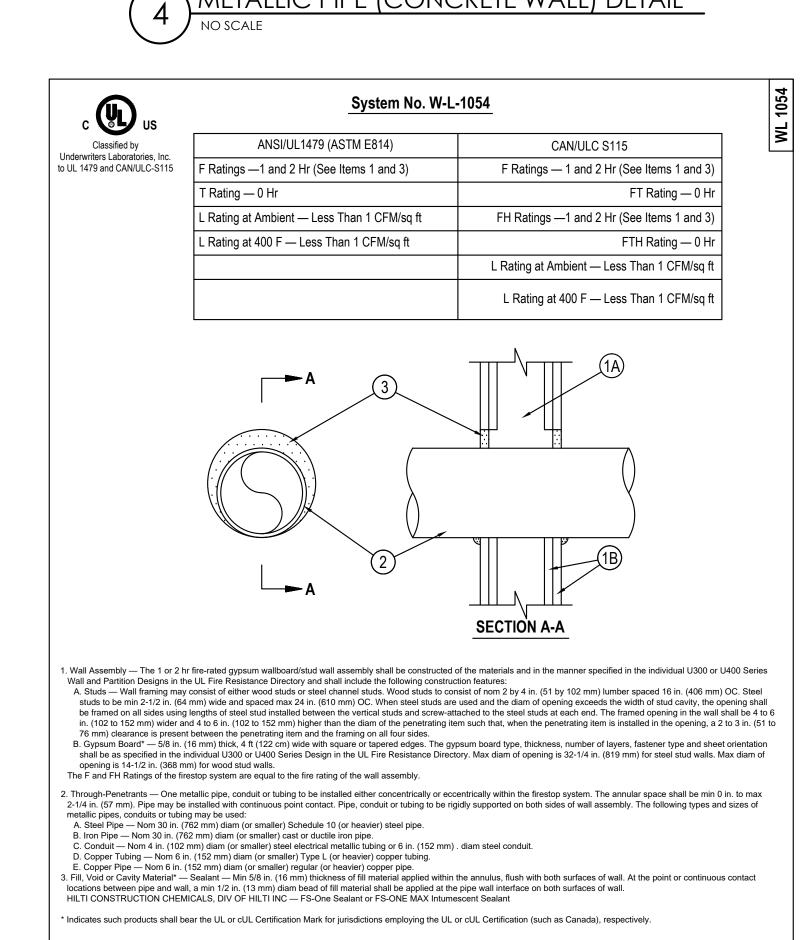
in. (6 mm) long steel sheet metal screws when more than one layer of wrap strip is used.





System No. W-J-1168

METALLIC PIPE (CONCRETE WALL) DETAIL



October 14, 2015 **Hilti Firestop Systems** METALLIC PIPE (GYPSUM WALL) DETAIL

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Raleigh, North Carolina 27604 www.isdesignpa.com ENGINEERING, PLLC 708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797 PLUMBING MECHANICAL ELECTRICAL

THE HEALING PLACE OF NEW HANOVER COUNT 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NEW HANOVER COUNTY NORTH CAROLINA

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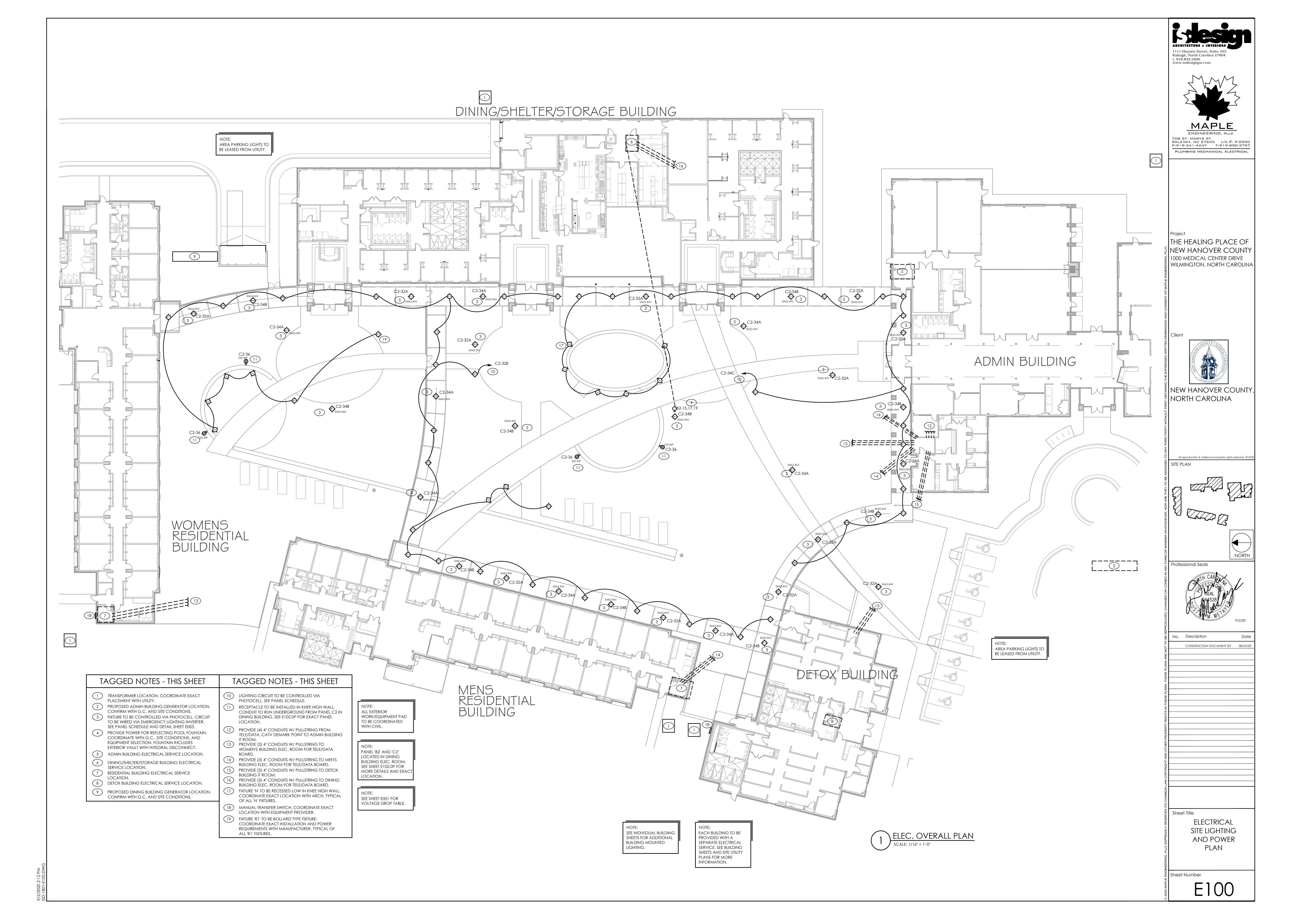
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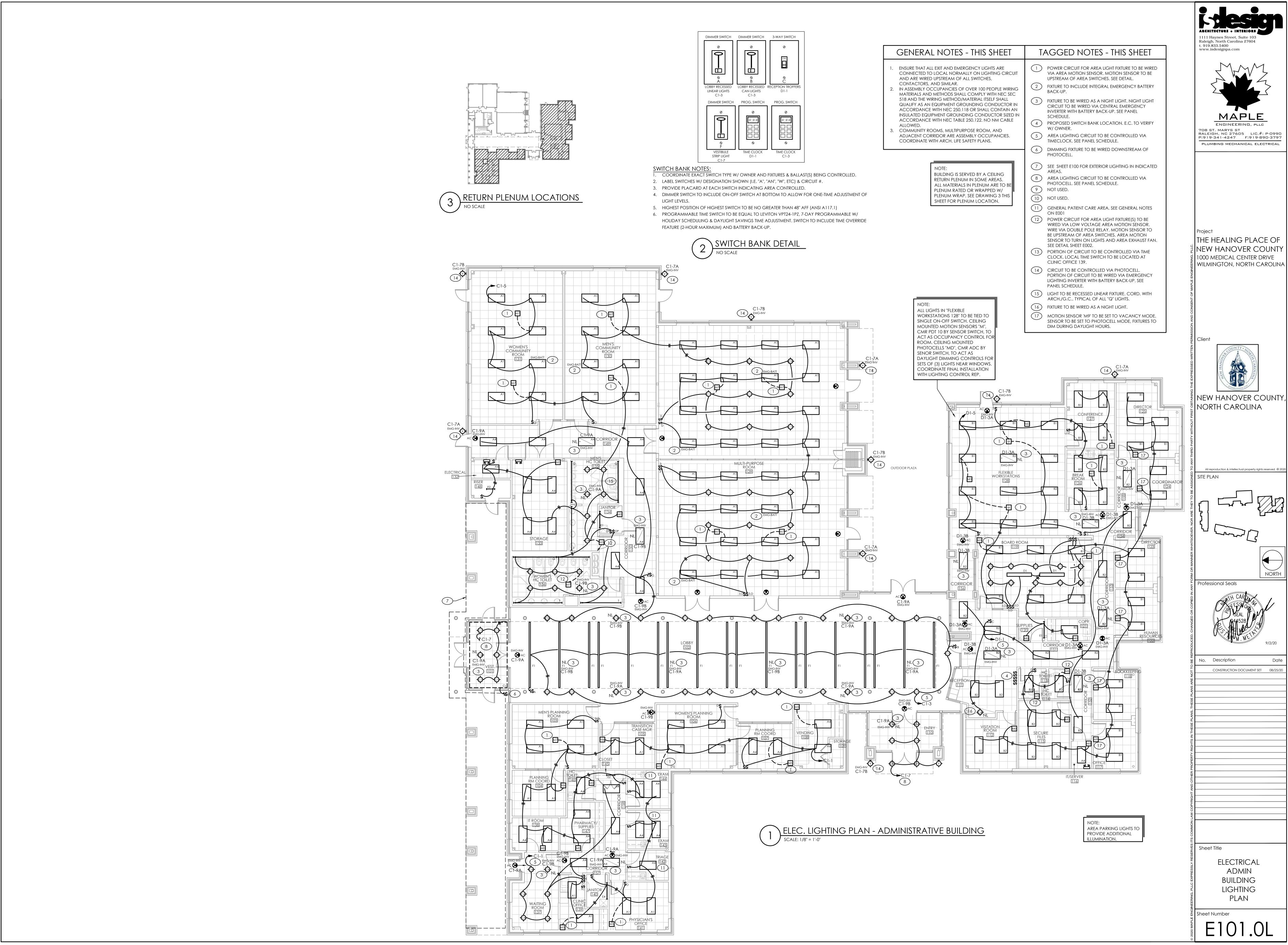
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ELECTRICAL **UL DETAILS**

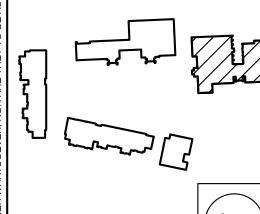
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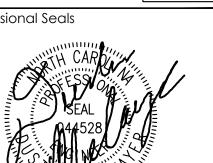
3 NON-METALLIC PIPE (CONCRETE WALL) DETAIL
NO SCALE

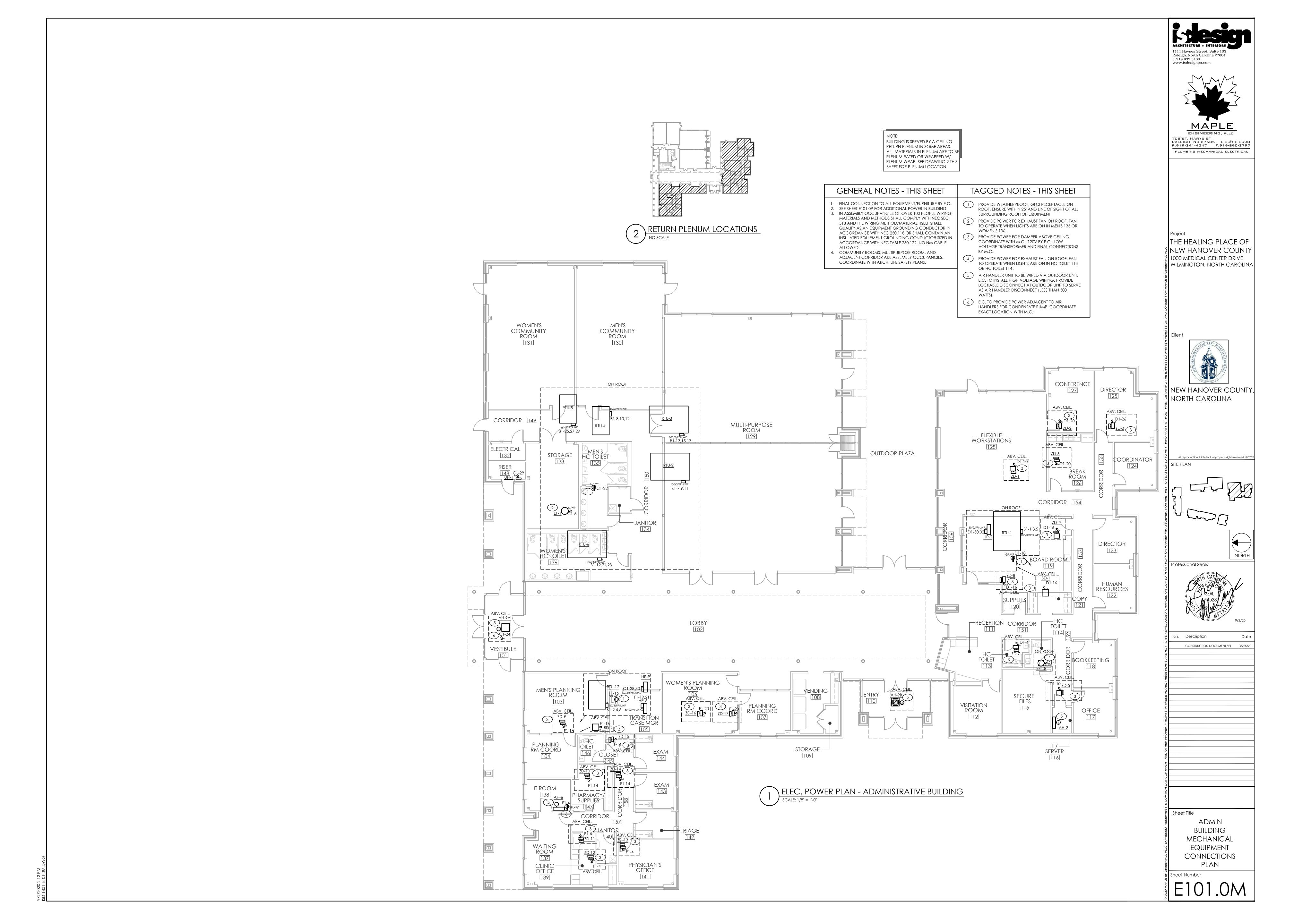


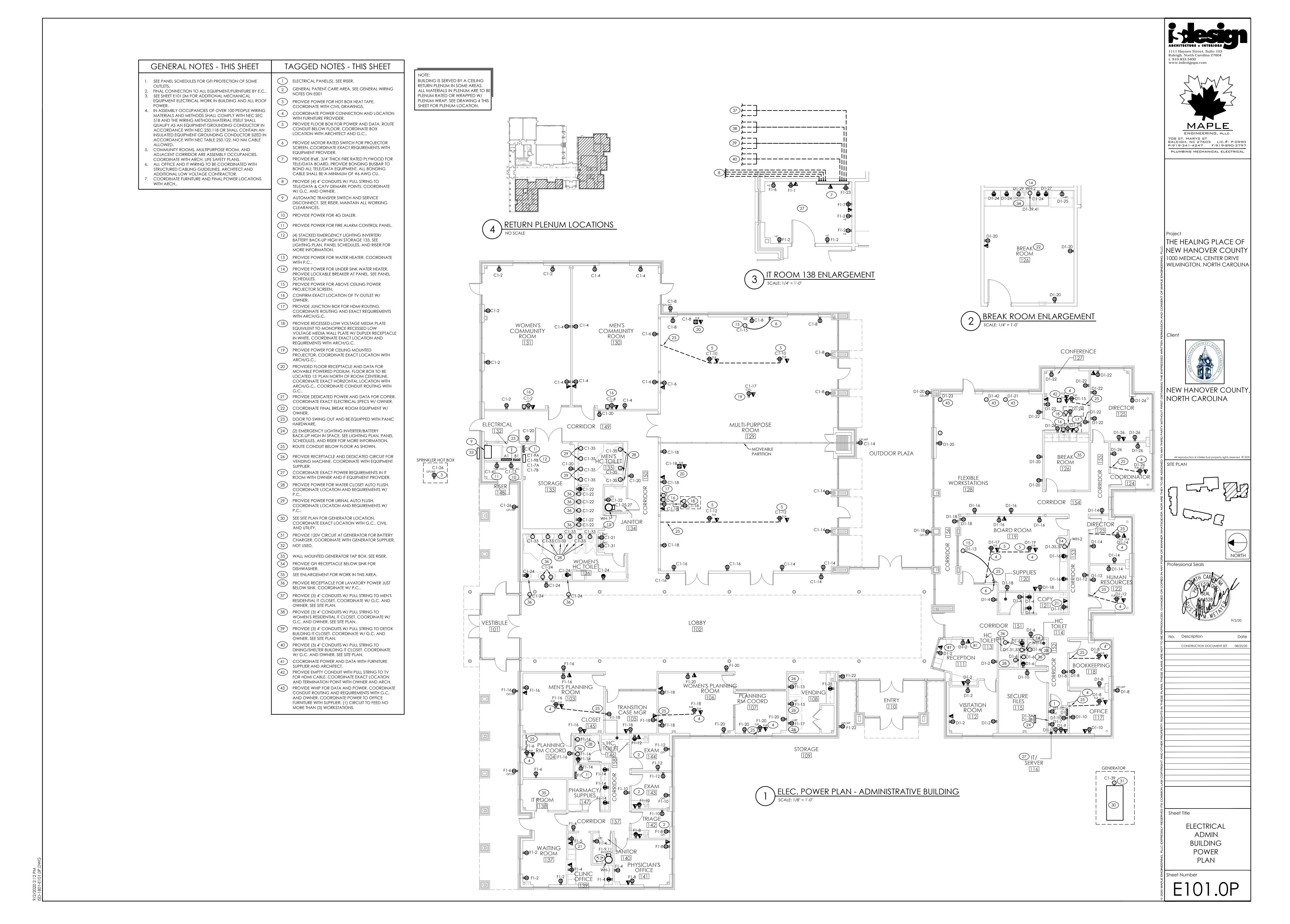


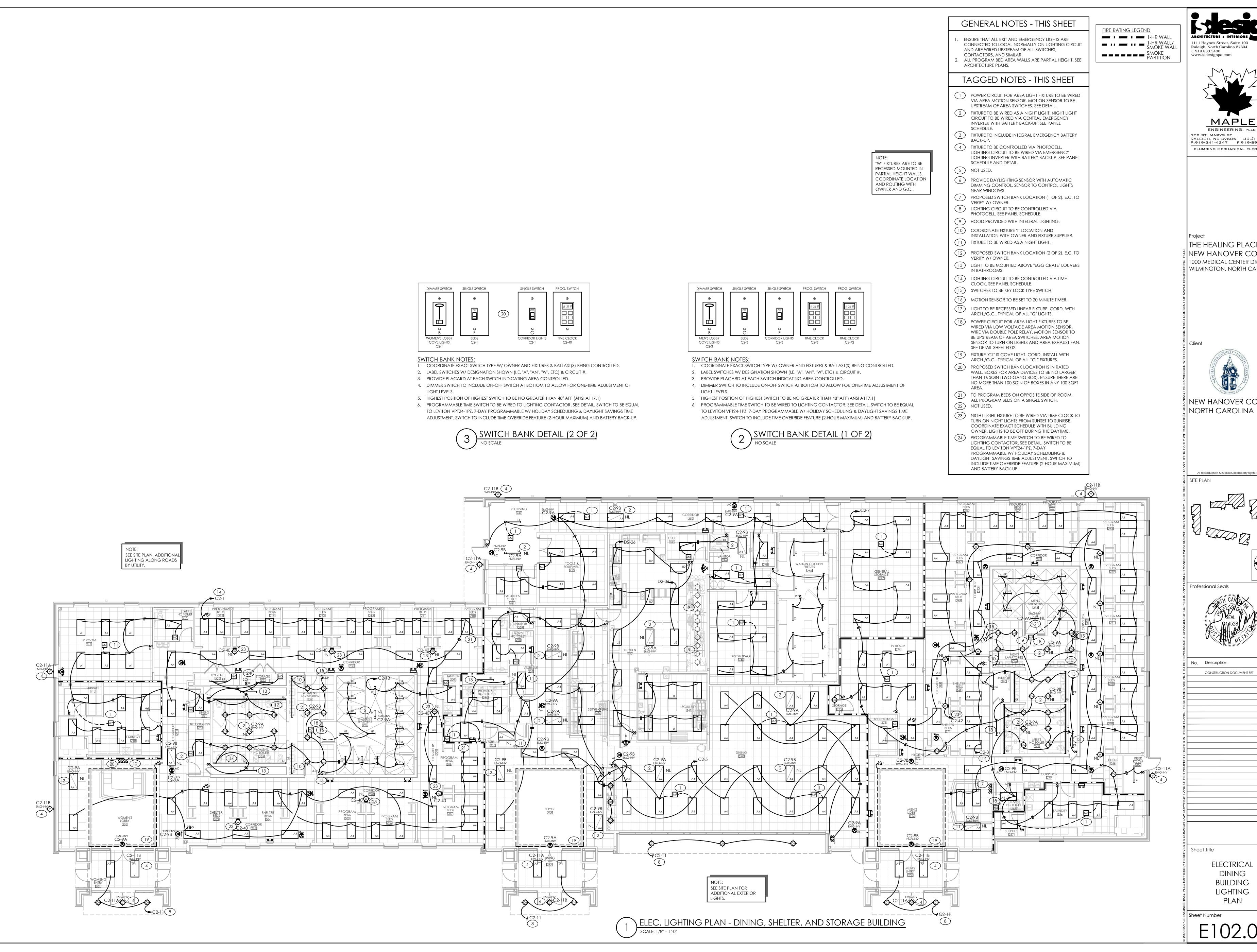
NEW HANOVER COUNTY WILMINGTON, NORTH CAROLINA











Raleigh, North Carolina 27604

MAPLE

708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797 PLUMBING MECHANICAL ELECTRICAL

THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA

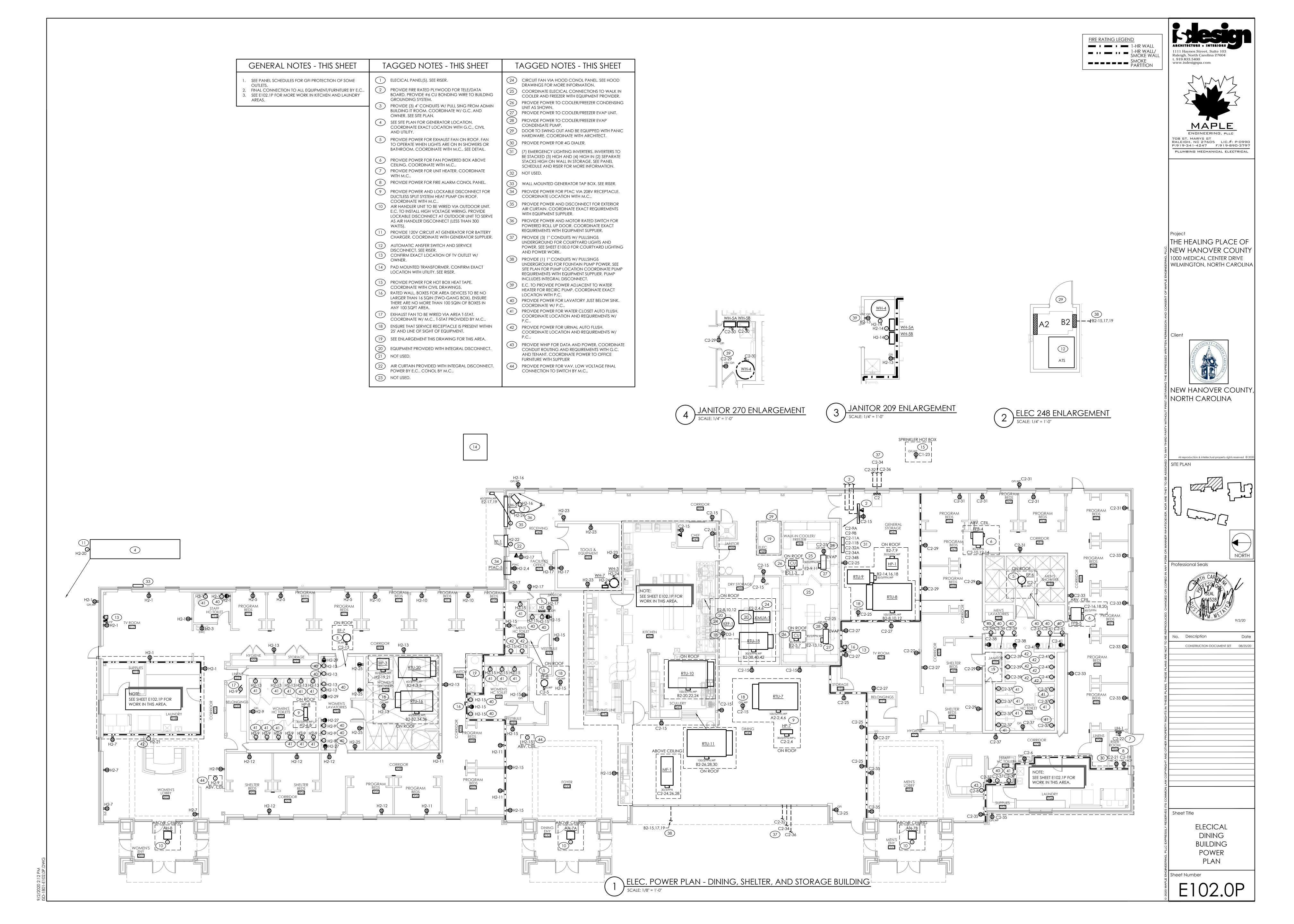


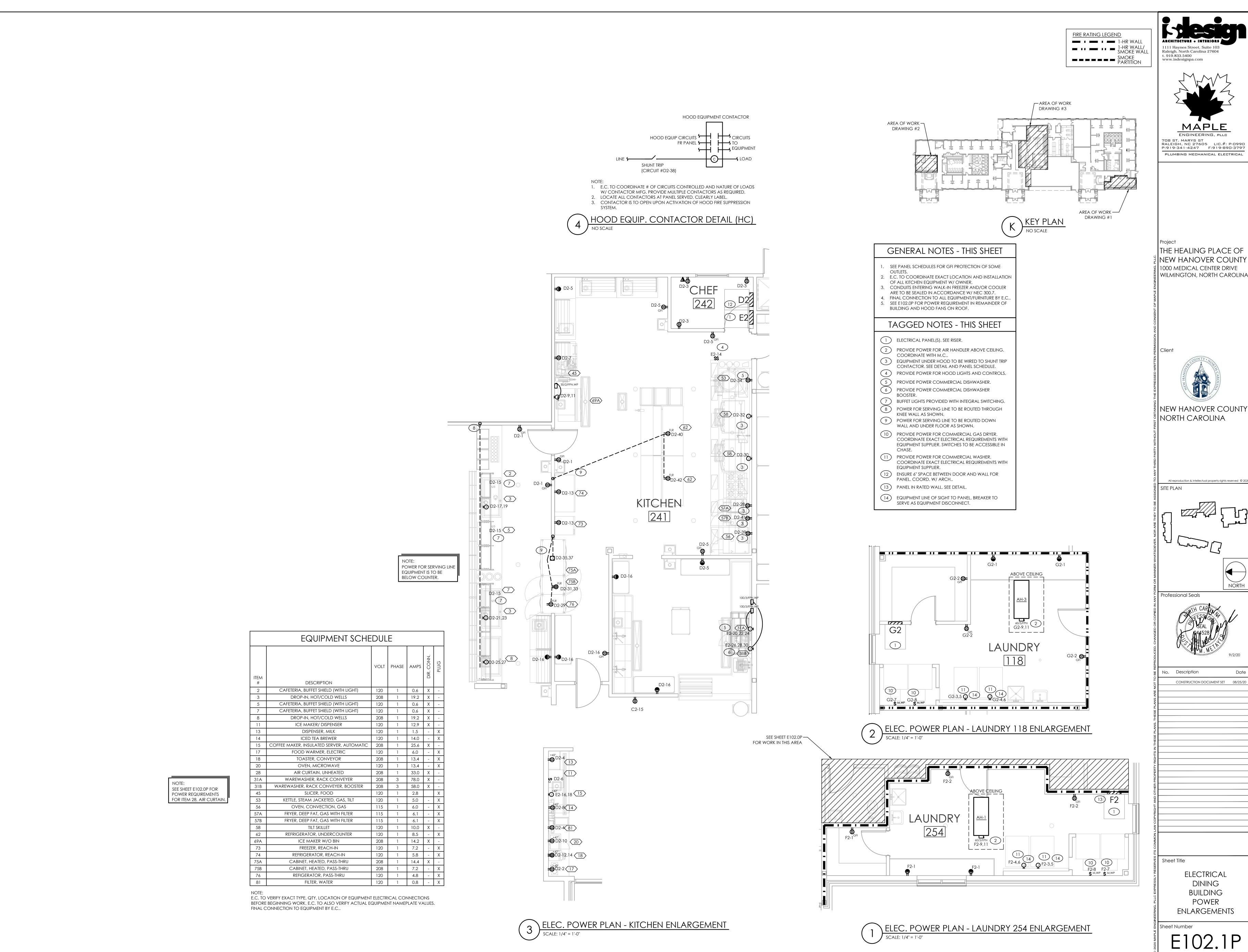
NEW HANOVER COUNTY, NORTH CAROLINA



CONSTRUCTION DOCUMENT SET 08/25/20

DINING BUILDING LIGHTING





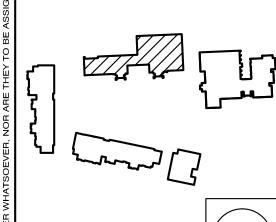
Raleigh, North Carolina 27604 www.isdesignpa.com

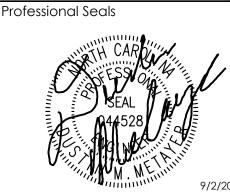
MAPLE ENGINEERING, PLLC

THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NEW HANOVER COUNTY NORTH CAROLINA





CONSTRUCTION DOCUMENT SET 08/25/20

ELECTRICAL DINING

BUILDING POWER **ENLARGEMENTS**

E102.1P



PLUMBING MECHANICAL ELECTRICAL

THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NEW HANOVER COUNTY, NORTH CAROLINA

SITE PLAN

Professional Seals

No. Description

CONSTRUCTION DOCUMENT SET 08/25/20

Sheet Title

ELECTRICAL MENS RESIDENTIAL **BUILDING PLANS**

E103.0

GENERAL NOTES - THIS SHEET

- ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.
- SEE PANEL SCHEDULES FOR GFI PROTECTION OF SOME FINAL CONNECTION TO ALL EQUIPMENT/FURNITURE BY E.C..
- OUTLETS LABELED "USB" TO INCLUDE INTEGRAL UNIVERSAL SERIAL BUS PORT. SIMILAR TO LEGRAND TM826USB. COORDINATE EXACT 120V POWER AND RECEPTACLES WITH
- ARCHITECT AND FINAL FURNITURE LOCATIONS. ALL OUTLETS IN ROOMS TO BE OFFSET WHEN BACK TO
- COORDINATE LOCATION OF BESIDE SWITCH FOR RECEPTACLE WITH ARCH.. COORDINATE EXACT IT POWER NEEDS WITH STATE OF

NORTH CAROLINA STRUCTURED CABLING GUIDLINES, ARCHITECT AND LOW VOLTAGE CONTRACTOR.

TAGGED NOTES - THIS SHEET

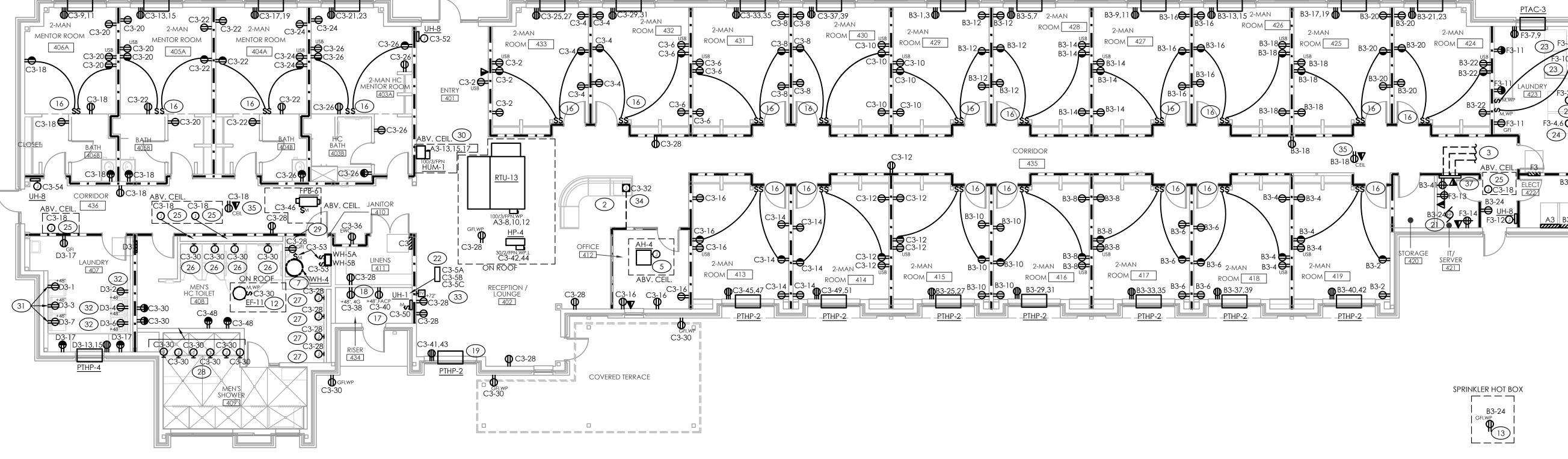
- 1 POWER CIRCUIT FOR AREA LIGHT FIXTURE TO BE WIRED VIA AREA MOTION SENSOR. MOTION SENSOR TO BE
- UPSTREAM OF AREA SWITCHES. SEE DETAIL. 2 COORDINATE POWER AT RECEPTION WITH ARCHITECT
- AND FURNITURE LAYOUT. 3 PROVIDE (3) 4" CONDUITS W/ PULL STRING FROM MAIN ADMIN BUILDING IT ROOM. SEE SITE PLAN
- COORDINATE W/ G.C. AND OWNER. (4) FIXTURE "T" TO BE RECESSED COVE. COORDINATE WITH ARCHITECT. TYPICAL ALL "T" LIGHTS.
- 5 AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT. E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300
- 6 FIXTURE TO BE WIRED AS A NIGHT LIGHT. NIGHT LIGHT CIRCUIT TO BE WIRED VIA CENTRAL EMERGENCY INVERTER WITH BATTERY BACK-UP. SEE PANEL
- (7) (2) TANKLESS WATER HEATERS STACKED. PROVIDE SWITCH FOR EACH WATER HEATER.
- 8 SWITCHES TO BE KEY LOCK TYPE SWITCH. CORD. W/ BUILDING OWNER. 9 MOTION SENSOR TO BE ON 20 MINUTE TIMER.
- PHOTOCELL. CIRCUIT TO BE WIRED VIA CENTRAL EMERGENCY INVERTER WITH BATTERY BACK-UP. SEE PANEL SCHEDULE.

10 LIGHTING CIRCUIT TO BE CONTROLLED VIA

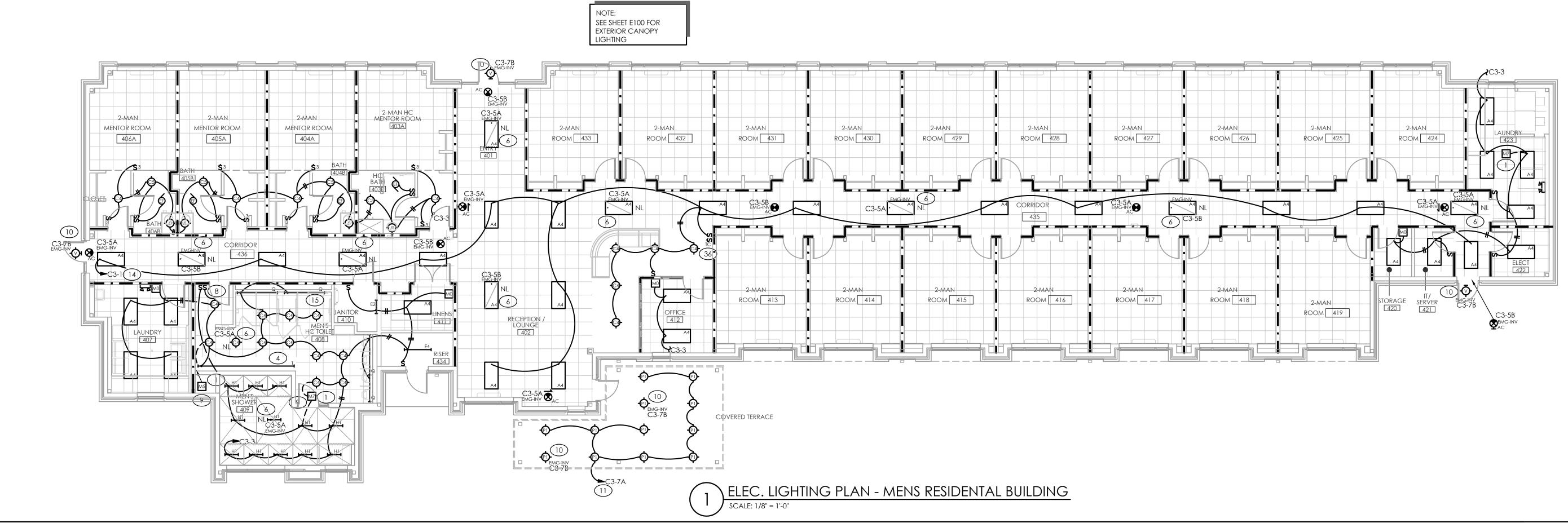
- 11 LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE. 12 ROOF EXHAUST FAN TO BE ON WHEN LIGHTS IN EITHER
- BATHROOM ARE ON. SEE DETAIL FOR WIRING INFORMATION. (13) PROVIDE POWER TO WEATHER PROOF GFI
- RECEPTACLE AT HOT BOX FOR HEAT TAPE. COORDINATE EXACT LOCATION W/ CIVIL. (14) LIGHTING CIRCUIT TO BE CONTROLLED VIA TIME CLOCK. SEE PANEL SCHEDULE.
- (15) LIGHT TO BE RECESSED LINEAR FIXTURE. CORD. WITH ARCH./G.C.. TYPICAL OF ALL "Q" LIGHTS. 16 SWITCH TO CONTROL BOTTOM HALF OF RECEPTACLE
- 17) PROVIDE POWER FOR FIRE ALARM CONTROL PANEL.
- (18) PROVIDE POWER FOR 4G DIALER. 19 PROVIDE POWER FOR PTHP VIA 208V RECEPTACLE. TYPICAL OF ALL PTHP'S
- 20 PROVIDE POWER FOR PTAC VIA 208V RECEPTACLE. TYPICAL OF ALL PTAC'S
- EXHAUST FAN TO BE WIRED VIA AREA T-STAT. COORDINATE W/ M.C.. T-STAT PROVIDED BY M.C.. (22) (3) EMERGENCY LIGHTING INVERTER/BATTERY
- BACK-UP HIGH IN RISER ROOM. SEE LIGHTING PLAN, PANEL SCHEDULES, AND RISER FOR MORE INFORMATION.
- (23) PROVIDE POWER FOR COMMERCIAL GAS DRYER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER. (24) PROVIDE POWER FOR COMMERCIAL WASHER.
- COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER. EQUIPMENT IS IN LINE OF SIGHT
- PROVIDE POWER FOR FIRE SMOKE DAMPER. WIRE VIA FIRE ALARM RELAY.
- 26 PROVIDE POWER FOR WATER CLOSET AUTOFLUSH. COORDINATE LOCATION AND REQUIREMENTS W/ P.C. 27 PROVIDE POWER FOR AUTOFLUSH. COORDINATE
- LOCATION AND REQUIREMENTS W/ P.C.. (28) PROVIDE POWER FOR LAVATORY JUST BELOW SINK. COORDINATE W/ P.C..
- (29) E.C. TO PROVIDE POWER ADJACENT TO WATER HEATERS FOR RECIRC PUMPS. COORDINATE EXACT LOCATION WITH P.C.
- (30) PROVIDE POWER FOR HUMIDIFIER ABOVE CEILING. COORDINATE WITH M.C. (31) PROVIDE POWER FOR RESIDENTIAL GAS DRYER.
- (32) PROVIDE POWER FOR RESIDENTIAL WASHER. 33 PROVIDE POWER AND DATA FOR WALL MOUNTED TELEVISION AND CABLE BOX IN CABINET BELOW
- WALL. COORDINATE WITH ARCHITECT. (34) PROVIDE JUNCTION BOX IN FLOOR FOR POWER AND DATA. COORDINATE POWER BELOW FLOOR WITH
- 35 PROVIDE POWER AND DATA AT CEILING FOR WIFI-BOOSTER. (36) TIME CLOCK FOR HALLWAY LIGHTING CIRCUIT C3-1 WITH 2-HOUR OVERRIDE. (37) PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA

GROUNDING SYSTEM.

BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING



ELEC. POWER PLAN - MENS RESIDENTAL BUILDING





GENERAL NOTES - THIS SHEET

- 1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.
- 2. SEE PANEL SCHEDULES FOR GFI PROTECTION OF SOME OUTLETS.
- FINAL CONNECTION TO ALL EQUIPMENT/FURNITURE BY E.C..
 OUTLETS LABELED "USB" TO INCLUDE INTEGRAL UNIVERSAL SERIAL BUS PORT. SIMILAR TO LEGRAND TM826USB.
 COORDINATE EXACT 120V POWER AND RECEPTACLES WITH ARCHITECT AND FINAL FURNITURE LOCATIONS.
- 6. ALL OUTLETS IN ROOMS TO BE OFFSET WHEN BACK TO BACK.
 7. COORDINATE LOCATION OF SWITCH FOR BEDSIDE
- RECEPTACLE WITH ARCH..

 8. COORDINATE EXACT IT POWER NEEDS WITH STATE OF NORTH CAROLINA STRUCTURED CABLING GUIDLINES,

ARCHITECT AND LOW VOLTAGE CONTRACTOR.

TAGGED NOTES - THIS SHEET

- POWER CIRCUIT FOR AREA LIGHT FIXTURE TO BE WIRED VIA AREA MOTION SENSOR. MOTION SENSOR TO BE UPSTREAM OF AREA SWITCHES. SEE DETAIL.
- 2 COORDINATE POWER AT RECEPTION WITH ARCHITECT AND FURNITURE LAYOUT.

 3 PROVIDE (3) 4" CONDUITS W/ PULL STRING FROM

MAIN ADMIN BUILDING IT ROOM. SEE SITE PLAN

- COORDINATE W/ G.C. AND OWNER.

 FIXTURE "T" TO BE RECESSED COVE. COORDINATE WITH ARCHITECT. TYPICAL ALL "T" LIGHTS.
- AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT.
 E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE
 LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE
 AS AIR HANDLER DISCONNECT (LESS THAN 300
- WATTS).

 6 FIXTURE TO BE WIRED AS A NIGHT LIGHT. NIGHT LIGHT CIRCUIT TO BE WIRED VIA CENTRAL EMERGENCY INVERSE WITH BATTERY BACK-UP. SEE PANEL
- 7 (2) TANKLESS WATER HEATERS STACKED. PROVIDE SWITCH FOR EACH WATER HEATER.
- 8 SWITCHES TO BE KEY LOCK TYPE SWITCH. CORD. W/BUILDING OWNER.
- 9 MOTION SENSOR TO BE ON 20 MINUTE TIMER.

 10 LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. CIRCUIT TO BE WIRED VIA CENTRAL EMERGENCY INVERTER WITH BATTERY BACK-UP. SEE PANEL SCHEDULE.
- 11 LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.

 12 ROOF EXHAUST FAN TO BE ON WHEN LIGHTS IN EITHER
- ROOF EXHAUST FAN TO BE ON WHEN LIGHTS IN EITHE BATHROOM ARE ON. SEE DETAIL FOR WIRING INFORMATION.
- 13 PROVIDE POWER TO WEATHER PROOF GFI RECEPTACLE AT HOT BOX FOR HEAT TAPE. COORDINATE EXACT LOCATION W/ CIVIL.

 14 LIGHTING CIRCUIT TO BE CONTROLLED VIA TIME CLOCK. SEE PANEL SCHEDULE.
- LIGHT TO BE RECESSED LINEAR FIXTURE. CORD. WITH ARCH./G.C.. TYPICAL OF ALL "Q" LIGHTS.
- SWITCH TO CONTROL BOTTOM HALF OF RECEPTACLE SHOWN.

 17) PROVIDE POWER FOR FIRE ALARM CONTROL PANEL.
- 18 PROVIDE POWER FOR 4G DIALER.
- 19 PROVIDE POWER FOR PTHP VIA 208V RECEPTACLE.
 TYPICAL OF ALL PTHP'S

 20 PROVIDE POWER FOR PTAC VIA 208V RECEPTACLE.
- TYPICAL OF ALL PTAC'S

 EXHAUST FAN TO BE WIRED VIA AREA T-STAT.

 COORDINATE W/ M.C.. T-STAT PROVIDED BY M.C..
- (3) EMERGENCY LIGHTING INVERTER/BATTERY
 BACK-UP HIGH IN RISER ROOM. SEE LIGHTING PLAN,
 PANEL SCHEDULES, AND RISER FOR MORE
 INFORMATION.
- PROVIDE POWER FOR COMMERCIAL GAS DRYER.
 COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH
 EQUIPMENT SUPPLIER.
 PROVIDE POWER FOR COMMERCIAL WASHER.
- COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER. EQUIPMENT IS IN LINE OF SIGHT OF PANEL.

 25 PROVIDE POWER FOR FIRE SMOKE DAMPER.
- COORDINATE WITH M.C.

 26 PROVIDE POWER FOR WATER CLOSET AUTOFLUSH.
 COORDINATE LOCATION AND REQUIREMENTS W/ P.C.

 27 SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH.
- 28 PROVIDE POWER FOR LAVATORY JUST BELOW SINK.
- COORDINATE W/ P.C..

 29 E.C. TO PROVIDE POWER ADJACENT TO WATER HEATERS FOR RECIRC PUMPS. COORDINATE EXACT
- LOCATION WITH P.C.

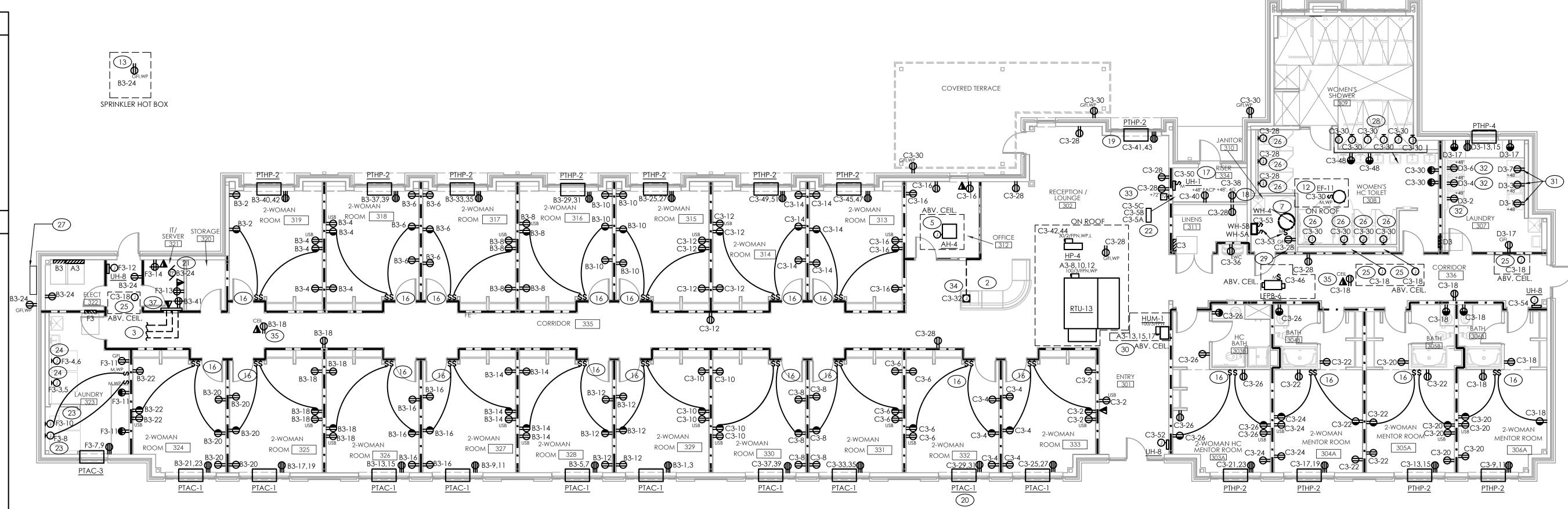
 30 PROVIDE POWER FOR HUMIDIFIER ABOVE CEILING.
- 31 PROVIDE POWER FOR RESIDENTIAL GAS DRYER.

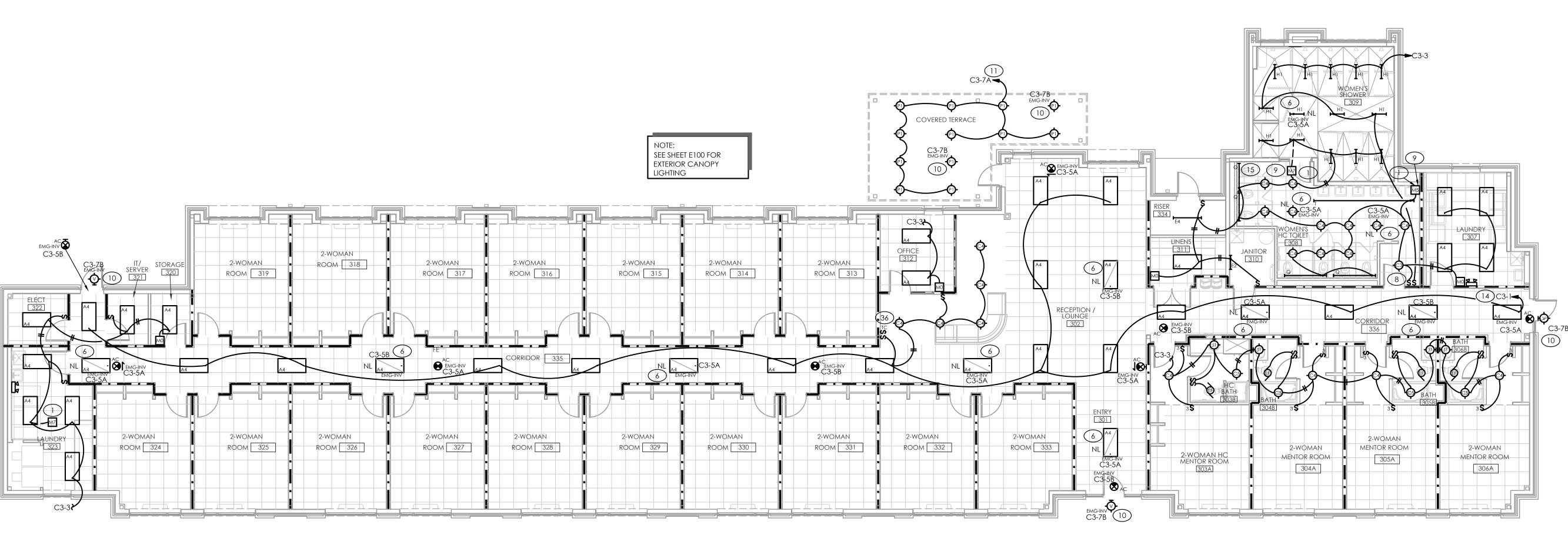
 32 PROVIDE POWER FOR RESIDENTIAL WASHER.
- PROVIDE POWER AND DATA FOR WALL MOUNTED TELEVISION AND CABLE BOX IN CABINET BELOW WALL. COORDINATE WITH ARCHITECT.
- PROVIDE JUNCTION BOX IN FLOOR FOR POWER AND DATA. COORDINATE POWER BELOW FLOOR WITH
- PROVIDE POWER AND DATA AT CEILING FOR WIFI-BOOSTER.

GROUNDING SYSTEM.

36 TIME CLOCK FOR HALLWAY LIGHTING CIRCUIT C3-1 WITH 2-HOUR OVERRIDE.

37 PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING



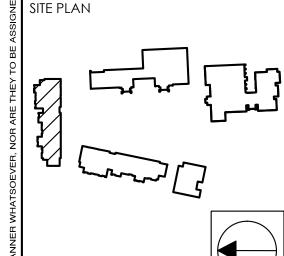


Project
THE HEALING PLACE OF
NEW HANOVER COUNTY
1000 MEDICAL CENTER DRIVE
WILMINGTON, NORTH CAROLINA

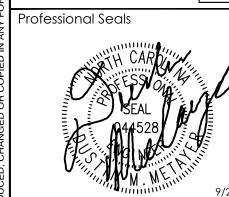


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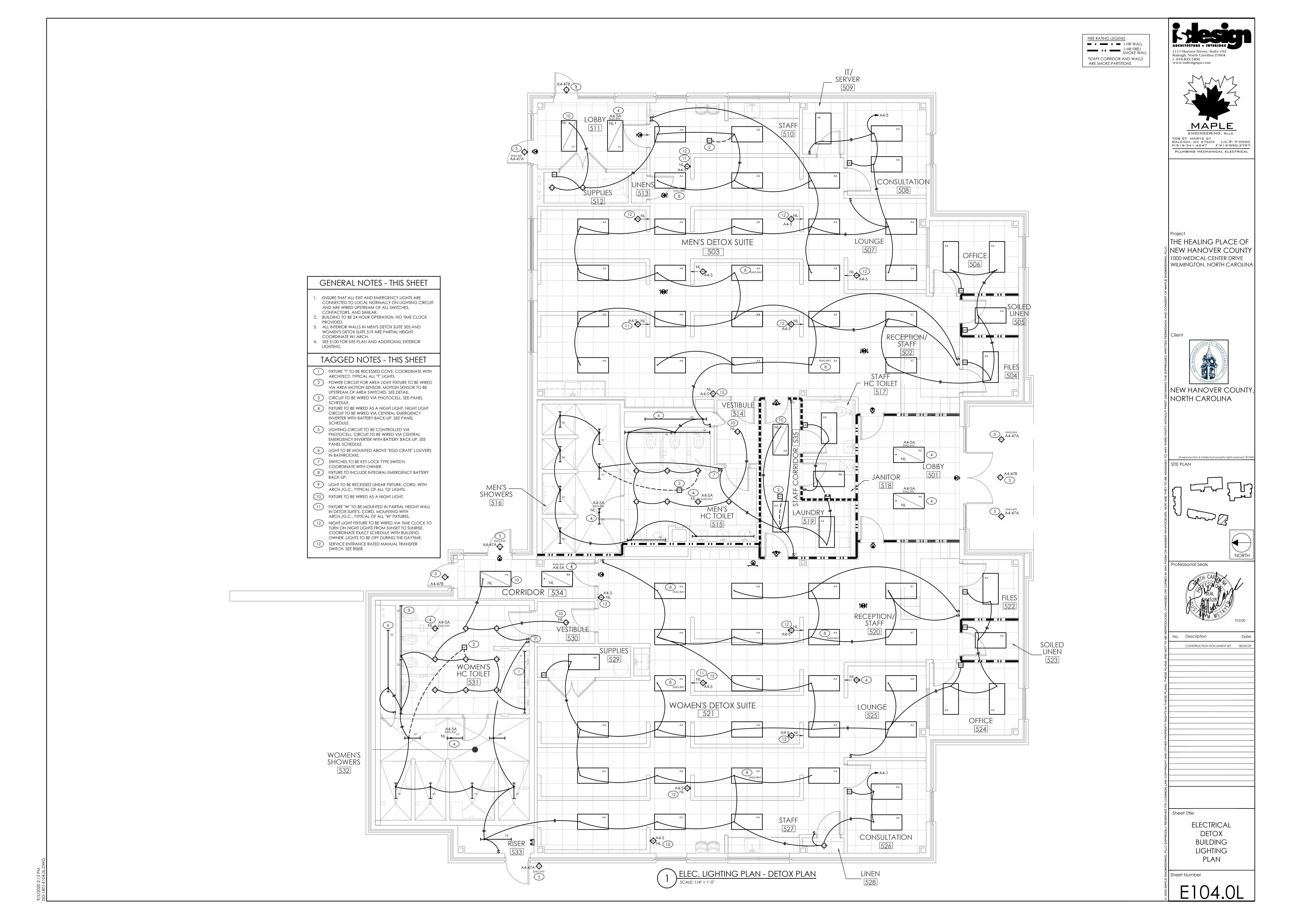
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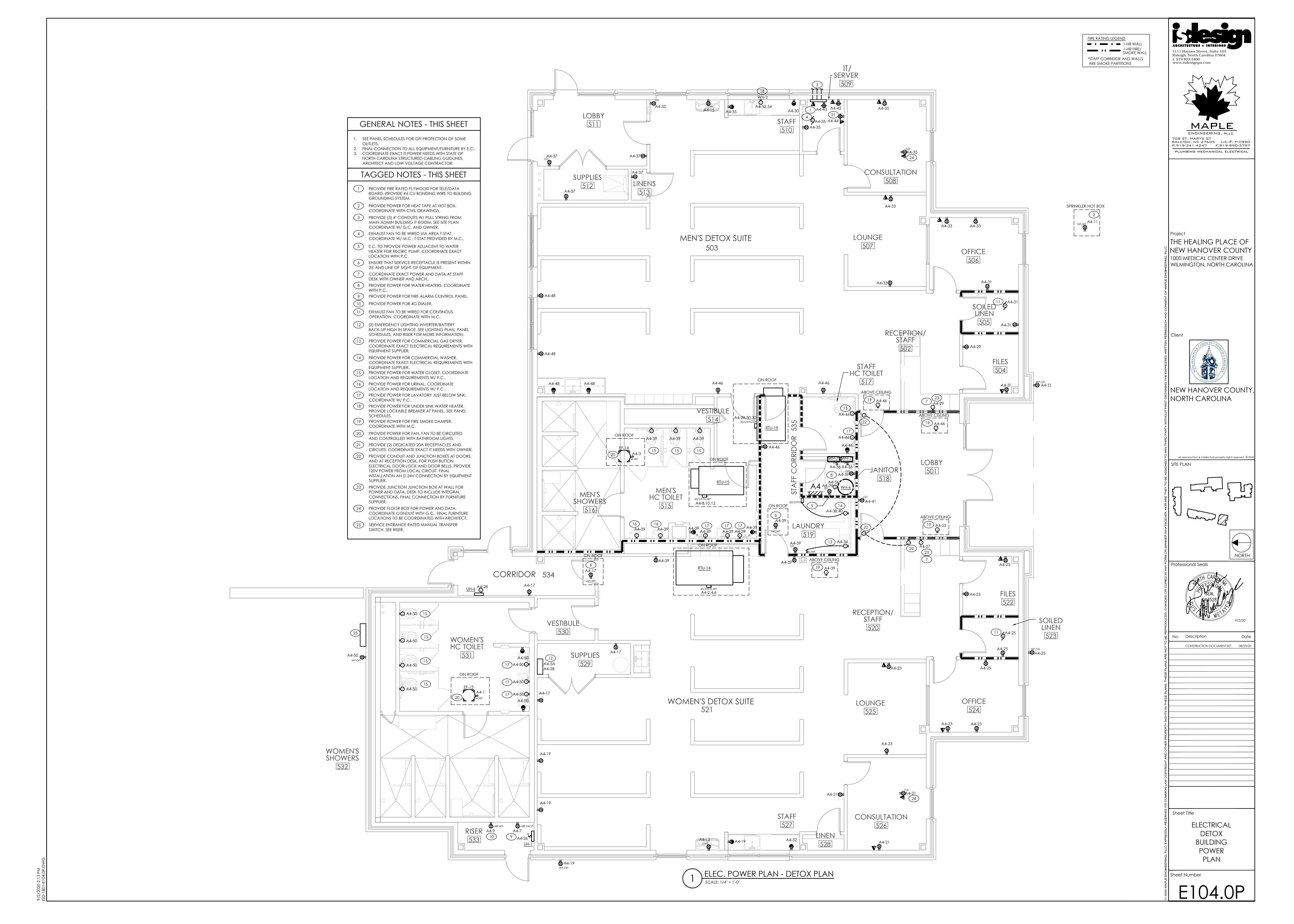
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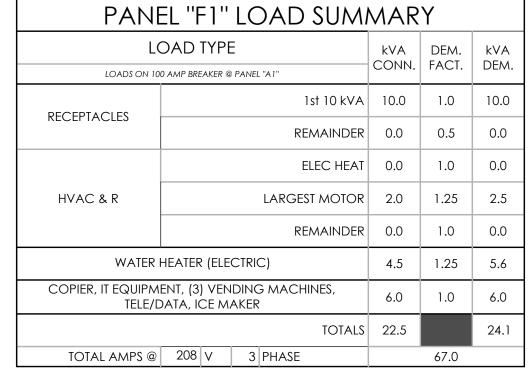
ELECTRICAL WOMENS RESIDENTIAL BUILDING PLANS

Sheet Number E 103.1

2 ELEC. POWER PLAN - WOMENS RESIDENTAL BUILDING







							PHA	ARMAC	Y/ SUP	PLIES						3 PHASE, 4 WIRE
	VOLTAGE: 208Y/120V						PA	ΙN	EL	: F	1					SURFACE MOUNTED
	AMPS: 100-MLO						LC	DAD PE	R PHA	SE						NEMA 1
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	1	۸	Е	3	(<u> </u>	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
#3	IT EQUIPMENT	1	12	20	1	0.3	0.6					2	20	12	1	REC: WAITING ROOM
	SPACE	1	-	-	3			0	1.0			4	20	12	1	REC: CLINIC OFFICE
‡ 3	COPIER	1	12	20	5					0.8	0.8	6	20	12	1	REC: IT ROOM
‡3	IT EQUIPMENT	1	12	20	7	0.3	0.8					8	20	12	1	REC: PHYSICIANS OFFICE
	WH-1	2	10	30	30 9			2.2	1.0			10	20	12	1	REC:TRIAGE/ EXAM
	VVI I- I		10	30	11					2.3	0.8	12	20	12	1	REC: EXAM ROOMS
ŧ3	VENDING MACHINE	1	12			1.0					14	20	12	1	REC: PHARMACY	
<u>+</u> 3	VENDING MACHINE	1	12	20	15			1.2	1.2			16	20	12	1	REC: MEN'S PLANNING
<u>+</u> 3	VENDING MACHINE	1	12	20	17					1.2	1.2	18	20	12	1	REC: CASE MGR
	AH/HP-6	2	12	15	19	1.0	1.0					20	20	12	1	REC: WOMEN'S PLANNING
	A(1)(1)1 -0		12	13	21			1.0	0.6			22	20	12	1	REC: VENDING/ENTRY
	TELE/DATA BOARD	1	12	20	23					0.4	0	24	-	-	1	SPACE
	ICE MAKER	1	12	20	25	0.6	0					26	20	-	1	SPARE
	SPACE	1	-	-	27			0	0			28	20	-	1	SPARE
	SPACE	1	-	-	29					0	0	30	20	-	1	SPARE
						6.	.8	8	.2	7	.5					
	TOTAL	CONNECTED kVA:			A: 22.5				DEMAND kVA:				24.1			
	PANE	L RMS	S SYN	SYM. AMPS: SI			RISE	R				D	EMAI	ND A	MPS:	67.0

1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 3. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

PANE	L "D1"	'LC	DAD SUM	MAR	Υ									
LC	DAD TYPE	=		kVA	DEM.	kVA								
LOADS ON 20	0 AMP BREAKER @	PANEL	"A1"	CONN.	FACT.	DEM.								
,	LIGHTS (2974 SQFT @ 3.5 W/SQFT, 988 SQFT @ .5 W/SQFT>CONN. LOAD)													
RECEPTACLES	10.0	1.0	10.0											
RECEFIACELS			REMAINDER	3.4	0.5	1.7								
			ELEC HEAT	0.0	1.0	0.0								
HVAC & R			LARGEST MOTOR	2.0	1.25	2.5								
			REMAINDER	0.0	1.0	0.0								
WATER	HEATER (ELE	CTRIC	C)	20.7	1.25	25.9								
IT, COPIER, PROJECTO FRIDGE, DISH			7.2	1.0	7.2									
	TOTAL													
TOTAL AMPS @	208 V	3	PHASE		169.0									

						AD	dmin B	LDG SEI	RVER I	ROOM 1	16					3 PHASE, 4 WIRE
	VOLTAGE: 208Y/120V					F	PA	NE	EL:	D]					SURFACE MOUNTED
	AMPS: 200-MLO						LC	DAD PEI	R PHA	SE						NEMA 1
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	P	4	В	3	С		CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
TC	LTS: CORRIDOR	1	12	20	1	0.7	1.0					2	20	12	1	REC: RECEPTION/VISITATION
,#7	LTS: EMG-INVERTER	1	12	20	3			0.3	0.8			4	20	12	1	REC: COPY/ SUPPLIES
	LTS: OFFICE/ BOARD	1	12	20	5					1.3	0.6	6	20	12	1	REC: RESTROOMS
#5	IT EQUIPMENT	1	12	20	7	0.4	1.0					8	20	12	1	REC: BOOKKEEPING
#5	IT EQUIPMENT	1	12	20	9			0.6	1.0			10	20	12	1	REC: OFFICE/IT
#5	COPIER	1	12	20	11					0.8	0.6	12	20	12	1	rec: human resources
	PROJECTOR SCREEN 119	1	12	20	13	0.4	1.0					14	20	12	1	REC: DIRECTOR 123
#5	CONFERENCE ROOM FLR	1	12	20	15			0.4	1.0			16	20	12	1	REC: BOARD ROOM
	BOARD ROOM FLR REC	1	12	20	17					0.4	1.0	18	20	12	1	REC: BOARD ROOM
	BOARD ROOM FLR REC	1	12	20	19	0.4	1.0					20	20	12	1	REC: WORK AREA
#5	FLEXIBLE WORKSTATIONS	1	12	20	21			0.5	1.2			22	20	12	1	REC: CONFERENCE RM
#5	FLEXIBLE WORKSTATIONS	1	12	20	23					0.5	1.0	24	20	12	1	REC: CONFERENCE/BREAK
GFI	BREAK ROOM FRIDGE	1	12	20	25	1.0	1.0					26	20	12	1	REC: COORDINATOR
	MICROWAVE	1	12	20	27			1.2	0			28	20	-	1	SPARE
	DISHWASHER	1	12	20	29					1.2	1.0	30	15	12	2	AH/HP-2
ı	WH-6	2	10	25	31	2.0	1.0					32	13	12		7(1)/111 -2
_	W11-0		10	25	33			2.1	0			34	20	-	1	SPARE
ı	WH-2 BOARD ROOM	2	6	40	35					4.1	0	36	20	-	1	SPARE
_	WIFZ BOYIND NOOM		Ů	70	37	4.2	0					38	20	-	1	SPARE
ı	WH-2 BREAK ROOM	2	6	40	39			4.1	0			40	-	-	1	SPACE
_	THE BREAK ROOM		Ľ	١٠	41					4.2	0.6	42	20	12	1	FLEXIBLE WORKSTATIONS
						15	5.1	13	.2	17.	3					
	TOTAL	OTAL CONNECTED KVA: PANEL RMS SYM. AMPS: S						45	.6				DEM.	AND	kVA:	69
	PAN						PS: SEE RISER					DEMAND AMPS:			MPS:	169.0

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ.
- 2. L INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE
- DISCONNECT) 3. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- 4. GFI PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
- 6. TC CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK,

5. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

- AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND BATTERY BACK-UP. 7. WIRE PORTION OF CIRCUIT VIA EMERGENCY LIGHTING INVERTER. SEE RISER FOR INVERTER DETAILS.
- PROVIDE LOCK-ON BREAKER ATTACHMENT. E.C. TO IDENTIFY AND PERMANENTLY MARK MATERIALS ACCORDING TO NEC 700.10. E.C. TO ALSO CLEARLY LABEL BRANCH CIRCUIT AT PANEL (NEC

700.12(F)(2)(4). 8. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED.

LIGHTS (2480 SQFT @ 3. 3913 SQFT @ .5 W/SQFT	QFT (15.3	1.25	19.1
RECEPTACLES			1st 10 kVA	10.0	1.0	10.0
RECEFIACES			REMAINDER	1.8	0.5	0.9
			ELEC HEAT	1.0	1.0	1.0
HVAC & R	7.0	1.25	8.8			
	REMAINDER	0.0	1.0	0.0		
WATER	C)	4.5	1.25	5.6		
FACP, 4G, PROJECTOR (2)EWC				7.0	1.0	7.0
			TOTALS	46.6		52.4
TOTAL AMPS @	PHASE		145.4			

LOAD TYPE

LOADS ON 200 AMP BREAKER @ PANEL "A 1"

PANEL "C1" LOAD SUMMARY

kVA DEM. kVA CONN. FACT. DEM.

							STORAG	E						3 PHASE, 4 WIRE
	VOLTAGE: 208Y/120V					PA	NEL	: ([]					SURFACE MOUNTED
	AMPS: 200-MLO					LC	DAD PER PI	HASE						NEMA
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В		С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
TC	LTS: CLINIC/PLANNING	1	12	20	1	1.4 1.2				2	20	12	1	REC: WOMENS COMMUNITY
TC	LTS: LOBBY/RESTROOMS	1	12	20	3		1.3 1.0	5		4	20	12	1	REC: MEN'S COMMUNITY
	LTS: MULTI/COMMUNITY	1	12	20	5			0	.9 1.0	6	20	12	1	REC: MEN'S/ MULTI PURPOSE
,PC,#8	LTS: EXTERIOR/INV	1	12	20	7	0.4 1.0				8	20	12	1	REC: MULTI PURPOSE
LO,#8	LTS: EMG-INVERTER	1	12	20	9		0.7 0.8	3		10	20	12	1	MULTI PURPOSE FLOOR REC
	SPACE	1	-	-	11			(0.8	12	20	12	1	MULTI PURPOSE FLOOR REC
LO,#6	4G DIALER	1	12	20	13	0.8 1.2				14	20	12	1	REC: MULTI PURPOSI
#7	PROJECTOR SCREEN	1	12	20	15		0.6 0.	5		16	20	12	1	REC: MULTI PURPOSI
#7	PROJECTOR	1	12	20	17			1.	.2 1.0	18	20	12	1	REC: MULTI PURPOSI
	PODIUM	1	12	20	19	0.6 0.8				20	20	12	1	REC: CORRIDOR
GFI	EWC	1	12	20	21		0.8 0.	5		22	20	12	1	REC: MEN'S RESTROOM
	SPACE	1	-	-	23			(0.8	24	20	12	1	REC: WOMEN'S RESTROOM
	WH-1	2	10	30	25	2.2 0.6				26	20	12	1	REC: HOT BOX/ EXTERIOR
	VV [1-1		10	30	27		2.3 3.	5		28	40	8	2	AH/HP-9
	UH-1	1	12	20	29			1.	.0 3.5	30	40	0		A11/111 -
GFI	EWC	1	12	20	31	0.8 0				32	20	-	1	SPARE
	WOMENS TOILETS	1	12	20	33		0.5 0			34	20	-	1	SPARI
	MENS TOILETS	1	12	20	35			0	.5 0	36	20	-	1	SPARI
	SPACE	1	-	-	37	0 0				38	-	-	1	SPACE
#7	GENERATOR CHARGER	1	12	20	39		0.2 0			40	-	-	1	SPACI
LO,#6	FACP	1	12	20	41			0.	.8 0	42	-	-	1	SPACE
						11.0	13.5		11.5					
	TOTA	AL CON	NECT	/A:	+			DEMAND kVA:				52.4		

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 3. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI
- BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY. 4. TC - CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK, AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND
- BATTERY BACK-UP. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
 CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER
- TO BE LOCKED IN ON POSITION. NEC 760.41 7. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING
- WORK. 8. WIRE PORTION OF CIRCUIT VIA EMERGENCY LIGHTING INVERTER. SEE RISER FOR INVERTER DETAILS. PROVIDE LOCK-ON BREAKER ATTACHMENT. E.C. TO IDENTIFY AND PERMANENTLY MARK MATERIALS ACCORDING TO NEC 700.10. E.C. TO ALSO CLEARLY LABEL BRANCH CIRCUIT AT PANEL (NEC
- 700.12(F)(2)(4). 9. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED.

PANE	PANEL "B1" LOAD SUMMARY												
				EL A1	kVA CONN.	DEM. FACT.	kVA DEM.						
				ELEC HEAT	KVA DEM. KVA DEM. CONN. FACT. DEM. DEM.	0.0							
HVAC & R		LARGEST M			19.6	1.25	24.5						
				REMAINDER	CONN. FACT. DE ELEC HEAT 0.0 1.0 0 ST MOTOR 19.6 1.25 24 EMAINDER 88.8 1.0 88		88.8						
TOTAL AMPS @	208	٧	3	PHASE	314.5								

						ADMIN	N BLDG	ELEC.	ROOM	1					3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V					F	PA	N	EL:	В	1					SURFACE MOUNTED
AMPS: 400-MLO						LC)AD PE	ER PHA	SE						NEMA 1
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	١	E	3	()	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
				1	6.5	3.6				2					
RTU-1	3	3	90	3			6.6	3.6			4	50	6	3	RTU-12
				5					6.5	3.6	6				
				7	6.2	3.6					8				
RTU-2	3	3	90	9			6.1	3.6			10	50	6	3	RTU-4
				11					6.1	3.6	12				
RTU-3		3	90	13	6.1	0					14	-	-	1	SPACE
	3		90	15			6.1	0			16	-	-	1	SPACE
				17					6.2	0	18	-	-	1	SPACE
				19	6.6	0					20	-	-	1	SPACE
RTU-6	3	3	90	21			6.5	0			22	-	-	1	SPACE
				23					6.5	0	24	-	-	1	SPACE
				25	3.6	0					26	-	-	1	SPACE
RTU-5	3	6	50	27			3.6	0			28	-	-	1	SPACE
				29					3.6	0	30	-	-	1	SPACE
					36	.2		6.1	36	5.1					
TOTA	AL CON	NECT	ED k	/A:	A: 108.4					DEMAND kVA				113.3	
PA	NEL RMS	S SYN	I. AM	PS:	: SEE RISER DEMAND AMPS						MPS:	314.5			

 PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.

Pane	L "A1"	<u>L(</u>	DAD	SUM	MAR	Y							
	DAD TYPE				kVA CONN.	DEM. FACT.	kVA DEM.						
LIGHTS (5454 SQFT @ 3 4901 SQFT @ .5 W/SQFT					26.2	1.25	32.8						
DECEDTACLES	RECEPTACLES 1st 10 kVA												
RECEFIACLES			REM	MAINDER	25.2	0.5	12.6						
	EC HEAT	1.0	1.0	1.0									
HVAC & R			LARGEST	MOTOR	19.6	1.25	24.5						
			REM	MAINDER	99.8	1.0	99.8						
WATER	HEATER (ELE	CTRIC	C)		29.7	1.25	37.1						
TELE/DATA, IT, COF WORKSTATION MICROWAVE,COPIE MACHINES, FACP, 4G, F PODIUM,(2	ING	19.2	1.0	19.2									
	TOTALS	230.7		237.0									
TOTAL AMPS @	208 V	3	PHASE			657.8							

					ADM	IN BLDG ELEC	. ROOM					3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V					PA	NEL:	: A1					SURFACE MOUNTED
AMPS: 800-MLO					L	OAD PER PHA	\SE					NEMA 1
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
				1	36.2 15.1			2				
PANEL "B1"	3	· · · · · · · · · · · · · · · ·								PANEL "D1"		
				5			36.1 17.3	6				
				7	11.0 6.8			8				
PANEL "C1"	3	3/0	200	9		13.5 8.2		10	100	1	3	PANEL 'F1'
				11			11.5 7.5	12				
SPACE	1	1	-	13	0 0			14	-	-	1	SPACE
SPACE	1	-	-	15		0 0		16	-	-	1	SPACE
SPACE	1	-	-	17			0 0	18	-	-	1	SPACE
					69.1	71.0	72.4					
TOT	TAL CON	NECT	ED k'	VA:		212.5			DEM.	AND	kVA:	237.0
P/	PANEL RMS SYM. AMPS: SEE RISER DEMAND AMP											657.8

1111 Haynes Street, Suite 103 Raleigh, North Carolina 27604 t. 919.833.5400 www.isdesignpa.com MAPLE 708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797 PLUMBING MECHANICAL ELECTRICAL

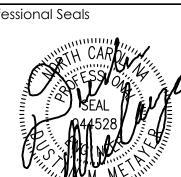
THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NORTH CAROLINA

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SITE PLAN



CONSTRUCTION DOCUMENT SET 08/25/20 Sheet Title ELECTRICAL PANEL SCHEDULES-

ADMIN BUILDING

Sheet Number

PANI	EL G	2	LC)AD S	SUMN	MAR'	Y	
LOADS ON 6	DAD T			. B2		kVA CONN.	DEM. FACT.	kVA DEM.
RECEPTACLES				1s	† 10 kVA	1.0	1.0	1.0
				EL	EC HEAT	5.8	1.0	5.8
HVAC & R				LARGEST	MOTOR	0.9	1.25	1.1
				REA	MAINDER	0.0	1.0	0.0
			WAS	SHERS		4.6	1.0	4.6
LAUNDRY EQUIPMENT		# 0		YERS TRIC DRYERS:	0	2.8	1.0	2.8
					TOTALS	15.1		15.3
TOTAL AMPS @	208 \	V	3	PHASE			42.5	

	VOLTAGE: 208Y/120V					PA	NEL:	G2					flush mounted	
	AMPS: 60-MLO						DAD PER PHA						NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	GENERAL POWER REC.	1	12	20	1	0.4 0.6			2	20	12	1	SERVICE RECEPTACLES	
#3	WASHER	2	12	15	3		1.2 1.1		4	15	12	2	WASHER	#3
		\vdash			5			1.1 1.2	6				7.71/5	
#3	DRYER		12	20	7	1.4 1.4			8	20	12		DRYER	#3
	AH-3	2	8	40	9		3.3 0		10	20	-	1	SPARE	
	711-0		O	ř	11			3.4 0	12	20	-	1	SPARE	
	SPACE	1	-	-	13	0 0			14	20	-	1	SPARE	
	SPACE	1	-	-	15		0 0		16	-	-	1	SPACE	
	SPACE	1	-	-	17			0 0	18	-	- 1	1	SPACE	
						3.8	5.6	5.7						
	TOTAL	СОИ	NECT	ED k\	/A:		15.1	•	DEMAND kVA:				15.3	
	PANE	L RMS	SSYM	. AM	PS:	SEE RISE	R		DEMAND AMPS:			MPS:	42.5	
	 PANEL SHALL BE EQUAL TO SQUARE D NQ. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE B WORK. 											E BEC	SINNING	

3 PHASE, 4 WIRE

LC	kVA	DFM.	kVA	
LOADS ON 10) DAMP BREAKER @ PANEL "A2"	CONN.	FACT.	DEM
DE05DT (0) 50	1st 10 kVA	10.0	1.0	10.0
RECEPTACLES	REMAINDER	0.2	0.5	0.1
	ELEC HEAT	2.1	1.0	2.1
HVAC & R	LARGEST MOTOR	3.0	1.25	3.8
	REMAINDER	1.7	1.0	1.7
WATE	R HEATER (GAS)	0.7	1.25	0.9
EWC(S), ROLL UP	DOOR,FLY FAN, CHARGER	2.4	1.0	2.4
	TOTALS	20.1		20.9
TOTAL AMPS @	208 V 3 PHASE		58.1	

							JANITOR 239	,					3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V					РА	NEL:	H2					SURFACE MOUNTED	
	AMPS: 100-MLO					LC	DAD PER PHA	SE					NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: TV RM 217/STAFF BATH	1	12	20	1	1.2 1.1			2	1.5	10	_		
GFI	REC: EWC	1	12	20	3		0.8 1.2		4	15	12	2	FACILITIES OFFICE PTAC-5	
	REC: PRGM BED	1	12	20	5			0.6 0.8	6	15	12	2	HP-8	
	REC: WOMEN'S LOBBY/HALL	1	12	20	7	1.0 0.7			8	13	12		ПГ-0	
	REC: SHLTR BED/WMN BATH	1	12	20	9		0.6 0.6		10	20	12	1	REC: PRGM BEDS	
	RC: PROGRAM BEDS/HALL	1	12	20	11			0.8 1.0	12	20	12	1	REC: PRGM BEDS	
	REC: WOMEN'S LAV/HALL	1	12	20	13	1.0 0.4			14	20	12	1	WH-4,5A,5B	
	REC: WOMEN'S TOILET	1	12	20	15		1.2 0.2		16	20	12	1	UH-3 AND REC	L
	REC: FAC OFFICE	1	12	20	17			1.0 0	18	-	-	1	SPACE	
	HP-3	2	10	30	19	1.5 0.2			20	20	12	1	GENERATOR CHARGER	#5
	TII -5		10	30	21		1.5 0.2		22	20	12	1	FLY FAN 1	_
	REC: TOOLS/EQUIP	1	12	20	23			0.8 1.2	24	20	12	1	ROLL UP DOOR #	#5
	REC: WOMEN'S LAVS	1	12	20	25	0.8 0.3			26	20	12	1	WH-7 &3	
	REC: WOMEN'S LAVS	1	12	20	27		0.4 0		28	-	-	1	SPACE	
	REC: WOMEN'S LAVS	1	12	20	29			0.4 0	30	-	-	1	SPACE	
						8.2	6.7	6.6						
	TOTAL	CON	NECT	ED k	√A:		21.5			DEM.	AND	kVA:	20.9	
	PANE	ELRM	S SYN	1. AM	PS:	SEE RISE	R		D	EMAI	ND A	MPS:	58.1	

- PANEL SHALL BE EQUAL TO SQUARE D NQ.
- 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 3. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI
- PROTECTION & ACCESSIBILITY. 4. L - INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE

	5.	VERIFY BREAKER AND	wire size requirements	WITH EQUIPMENT	NAMEPLATE BEFORE BE	GINNING
		WORK.				
ı						

PANE	L ''D2'	' L(DAD	SUM	MAR	Υ							
_	LOAD TYPE												
LIGHTS (1100 SQFT				2.2	1.25	2.8							
RECEPTACLES			1s ⁻	† 10 kVA	3.2	1.0	3.2						
KITCH	HEN EQUIPA # PIECES C		G EQUIPMENT:	28	37.1	0.65	24.1						
				TOTALS	42.5		30.1						
TOTAL AMPS @	208 V	3	PHASE			83.5							
							-						

							CHEFS OFFIC	E					3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V					PA	NEL:	D2					SURFACE MOUNTED	
	AMPS: 100-MLO					L	DAD PER PHA	SE					NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: SERVICE	1	12	20	1	0.6 0.7			2	20	12	1	FOOD WARMER	GF
	REC: CHEFS OFFICE	1	12	20	3		0.6 0.3		4	20	12	1	WATER FILTER & MILK DISPENSE	GF
	REC: KITCHEN	1	12	20	5			1.0 1.5	6	20	12	1	ICE MAKER/DISPENSER	
GFI	FOOD SLICER	1	12	20	7	0.3 1.7			8	20	12	1	ICE TEA BREWER	GF
	ICE MANCED	2	10	20	9		1.5 1.6		10	20	12	1	MICROWAVE	GFI
	ICE MAKER	2	12	20	11			1.5 1.4	12	20	10	2		ΩF.
GFI	REACH IN FRIDGE & FREEZER	1	12	20	13	1.6 1.4			14	20	12	_	CONVEYOR TOASTER	GFI
#3	BUFFET SHIELDS WITH LIGHT	1	12	20	15		0.2 1.0		16	20	12	1	REC: WAREWASHING	
,	DROP IN HOT/COLD WELL	2	10	25	17			2.0 0	18	20	-	1	SPARE	
L	DROP IN HOI/COLD WELL	2	10	25	19	2.0 0			20	20	-	1	SPARE	
ì	DROP IN HOT/COLD WELL	2	10	25	21		2.0 0		22	20	-	1	SPARE	
L	DROF IN HOI/COLD WELL		10	23	23			2.0 0	24	-	-	1	SPACE	
	DROP IN HOT/COLD WELL	2	10	25	25	2.0 0.4			26	20	12	1	LTS: KITCHEN	
L	DROF IN HOI/COLD WELL		10	23	27		2.0 0.7		28	20	12	1	FRYER	GFI
GFI	PASS THRU REFRIGERATOR	1	12	15	29			0.5 1.2	30	20	12	1	TILT SKILLET	L,#
С ЕІ	HEATED PASS THRU CABINET	2	12	15	31	0.7 1.2			32	20	12	1	TILT SKILLET	L,#
GH	THEATED FASS THRU CADINET		12	2	33		0.8 0.6		34	20	12	1	TILT KETTLE	GF
CEI	HEATED PASS THRU CABINET	2	12	20	35			1.5 0.1	36	20	12	1	LTS: IN FRONT OF HOOD	
GH	THEATED FASS THRU CADINET		12	20	37	1.5 0			38	20	12	1	SHUNT TRIP	#5
I,#4	CONVECTION OVEN	1	12	20	39		0.7 1.0		40	20	12	1	UNDER COUNTER FRIDGE	GFI
1,#4	FRYER	1	12	20	41			0 1.0	42	20	12	1	UNDER COUNTER FRIDGE	GF
						14.1	13.0	13.7						
	TOTAL	CON	NECT	ED k\	/A:		40.8			DEM	AND	kVA:	30.1	
	PANE	PS:	SEE RISER DEMAND A						MPS:	83.5				

- 2. L INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE
- 3. GFI PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI
- BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
- 4. WIRE VIA HOOD EQUIPMENT CONTACTOR. SEE DETAIL(HC).
- 5. CONNECT SHUNT TRIP TO HOOD FIRE SUPPRESSION CONTROL PANEL. BREAKER TO TURN OFF UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM.

PANE	L "E	2"	LC	DAD	SUM	MAR	Υ	
LOADS ON 400	DAD .			. "A2"		kVA CONN.	DEM. FACT.	kVA DEM.
LIGHTS (1100 SQFT	@ 2 W	/SQF	T > C	ONN. LO	AD)	2.2	1.25	2.8
RECEPTACLES				1:	st 10 kVA	3.2	1.0	3.2
				EL	EC HEAT	0.0	1.0	0.0
HVAC & R				LARGEST	MOTOR	5.5	1.25	6.9
				REA	MAINDER	0.0	1.0	0.0
KITCH	IEN EQ # PIE			GEQUIPMENT:	30	95.2	0.65	61.9
KMUA-1, KEF-1, HOOD EVAP, FREEZ				•	OOLER	21.7	1.25	27.1
					TOTALS	127.8		101.8
TOTAL AMPS @	208	٧	3	PHASE			282.7	

								CHEFS	OFFIC	E						3 PHASE, 4 WIRE		
	VOLTAGE: 208Y/120V					F	A	N	EL:	E	2					SURFACE MOUNTED		
	AMPS: 400-MLO						LC)AD PE	R PHA	SE						NEMA 1		
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	\	Е	3)	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-		
5	COOLER CONDENSER	2	12	20	3	1.5	1.5	1.5	1.6			2	30	10	3	KMUA-1	#4,#	
5	FREEZER CONDENSER	2	12	20	5					1.5	1.5	6						
					7	1.5	1.5		, ,			8		1,,		VEE 1] да д	
5	COOLER EVAP	2	12	20	9			1.5	1.5	1.5	1.6	10	20	12	3	KEF-1	#4,# 	
_			10		13	1.5	0.5					14	20	12	1	HOOD LTS AND CONTROLS	#4	
5	FREEZER EVAP	2	12	20	15			1.5	4.5			16	30	10	2	COFFEE MAKER],	
5	AIR CURTAIN	2	8	40	17	0.7	0.0			2.8	4.6	18	30	10		COTTLE MAKEK		
	SPARE	1	_	20	19 21	2.7	9.3	0	9.3			20	100	1	3	WAREWASHER	#5	
	SPARE	1	_	20	23			0	7.0	0	9.4	24	100	'	ľ	VVV (KE VVV (OI IEK	"	
	SPARE	1	-	20	25	0	7.0					26					1	
	SPACE	1	-	-	27			0	7.0			28	75	3	3	WAREWASHER BOOSTER	#5	
	SPACE	1	-	-	29					0	7.0	30						
	SPACE	1	-	-	31	0	0					32	-	-	1	SPACE	1	
	SPACE	1	-	-	33			0	0			34	-	-	1	SPACE	1	
	SPACE	1	-	-	35					0	0	36	-	-	1	SPACE	1	
	SPACE	1	-	-	37	0	13.7					38					1	
	SPACE	1	-	-	39			0	13.0			40	100	1	3	PANEL "D2"		
	SPACE	1	-	-	41					0	13.7	42	1					
						40	.7	41	.4	43	3.6						1	
	TOTAL	L CONNECTED kVA: 125.7										DEMAND kVA:				101.8	1	
	PANE	L RMS	SSYM	1. AM	PS:	SEE RISER				DEMAND AMPS:			MPS:	282.7				

- PANEL SHALL BE EQUAL TO SQUARE D NQ.
 L INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE
- 3. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- 4. WIRE VIA HOOD CONTROL PANEL5. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

PAN	EL F	-2	LO	ad s	UMN	1AR	/				
L(DAD			R2		kVA CONN.	DEM. FACT.	kVA DEM.			
RECEPTACLES	O PAVIII BIK	LAKEK	STAILL		† 10 kVA	1.0	1.0	1.0			
				EL	EC HEAT	5.8	1.0	5.8			
HVAC & R	HVAC & R LARGEST MOTOR										
				REA	MAINDER	0.0	1.0	0.0			
			WA:	SHERS		4.6	1.0	4.6			
LAUNDRY EQUIPMENT		# (YERS TRIC DRYERS:	0	2.8	1.0	2.8			
					TOTALS	15.1		15.3			
TOTAL AMPS @	208 V 3 PHASE 42.5										

PAN	EL C2	LC	AD SUMI	MAR'	Y					
Lo	DAD TYPI	E		kVA CONN.	DEM. FACT.	kVA DEM.				
LOADS ON 2	LOADS ON 200AMP BREAKER @ PANEL A2									
LIGHTS (6007 SQFT @ 2 5526 SQFT @ 1/2 W/S C		QFT@		16.5	1.25	20.6				
RECEPTACLES			1st 10 kVA	10.0	1.0	10.0				
RECEPTACLES			REMAINDER	1.4	0.5	0.7				
			ELEC HEAT	20.0	1.0	20.0				
HVAC & R			LARGEST MOTOR	3.7	1.25	4.6				
			REMAINDER	4.8	1.0	4.8				
WATE	ER HEATER (GAS)		0.2	1.25	0.3				
UH-1,	TELE/DATA,	EWC		2.2	1.0	2.2				
FACP, 4G DIA	LER, COURT	YARE) LIGHTS	2.8	1.25	3.5				
			TOTALS	61.6		66.7				
TOTAL AMPS @	208 V	3	PHASE		185.1					

	1P BREAKER @ PANEL A2	CONN.	FACT.	DEM.	
5526 SQFT @ 1/2 W/SQFT	/SQFT, 1560 SQFT @ 1 W/SQFT. ', 1904 SQFT @ 1/4 W/SQFT > N. LOAD)	16.5	1.25	20.6	
DECEDIA CLES	1st 10 kVA	10.0	1.0	10.0	
RECEPTACLES	REMAINDER	1.4	0.5	0.7	
	ELEC HEAT	20.0	1.0	20.0	LC
HVAC & R	LARGEST MOTOR	3.7	1.25	4.6	
	REMAINDER	4.8	1.0	4.8	
WATER H	EATER (GAS)	0.2	1.25	0.3	
UH-1, TELE	E/DATA, EWC	2.2	1.0	2.2	
FACP, 4G DIALER,	, COURTYARD LIGHTS	2.8	1.25	3.5	
	TOTALS	61.6		66.7	
TOTAL AMPS @ 2	208 V 3 PHASE		185.1		

PAN	EL E	32	LC)ADS	UMN	/AR	Y	
L(OADS ON 4	DAD			FI A2		kVA CONN.	DEM. FACT.	kVA DEM.
RECEPTACLES	,0,0,0,0,0	LI INCIN C	3171112		10 kVA	2.0	1.0	2.0
				ELI	EC HEAT	11.6	1.0	11.6
HVAC & R				LARGEST	MOTOR	18.4	1.25	23.0
				RE∧	NAINDER	79.6	1.0	79.6
			WA	SHERS		9.2	1.0	9.2
LAUNDRY EQUIPMENT		# (CYERS CTRIC DRYERS:	0	5.6	1.0	5.6
	FOUNT	ΓΑΙΝ				4.5	1.25	5.6
					TOTALS	130.9		136.6
TOTAL AMPS @	208	٧	3	PHASE			379.2	

DANIE	1 " A O'	' (7 V D CI	1	λ <i>λ</i> Λ Γ	· · ·	
PANE	L AZ	L	DAD SU) \vee	MAK	T	
LC	DAD TYP	E			kVA	DEM. FACT.	kV.
LOAL	DS ON 1200 AMP	ATS			CONN.	FACI.	DEI
LIGHTS (6807 SQFT @ 2 5526 SQFT @ 1/2 W/SG C		QFT @			18.7	1.25	23
RECEPTACLES			1st 10	kVA	10.0	1.0	10.
RECEFTACEES			REMAIN	IDER	17.2	0.5	8.
			ELEC I	HEAT	33.7	1.0	33
HVAC & R			LARGEST MC	OTOR	19.6	1.25	24
			REMAIN	1DER	116.7	1.0	116
WATE	R HEATER (GAS)			0.7	1.25	0.
KITCH	IEN EQUIPA	ΛENT			05.0	0.45	/1
	# PIECES C	OOKING	EQUIPMENT: 30		95.2	0.65	61
		WA:	SHERS		9.2	1.0	9.
LAUNDRY EQUIPMENT	#		YERS TRIC DRYERS: 0		5.6	1.0	5.
EWC(S), LAUNDRY EG CHARGER	QUIPMENT, I COURTYA			٧.	6.8	1.0	6.
KMUA-1, KEF-1, HOOI EVAP, FREEZER EVAP,					26.8	1.25	33
			TO	TALS	360.2		334
TOTAL AMPS @	208 V	2	PHASE			929.1	

						٨	MEN'S LAUND	RY					3 PHASE, 4 WIRE
	VOLTAGE: 208Y/120V					PA	NEL:	F2					FLUSH MOUNTED
	AMPS: 60-MLO					LC	DAD PER PHA	SE					NEMA 1
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
	GENERAL POWER REC.	1	12	20	1	0.6 0.4			2	20	12	1	SERVICE RECEPTACLES
#3	WASHER	2	12	15	3		1.2 1.1		4	15	12	2	WASHER :
π3	WASHER		12	13	5			1.1 1.2	6	13	12		WASHER
#3	DRYER	1	12	20	7	1.4 1.4			8	20	12	1	DRYER :
	AH-1	2	8	40	9		3.3 0		10	20	-	1	SPARE
	All-1		0	40	11			3.4 0	12	20	-	1	SPARE
	SPACE	1	-	-	13	0 0			14	20	-	1	SPARE
	SPACE	1	-	-	15		0 0		16	-	-	1	SPACE
	SPACE	1	-	-	17			0 0	18	-	-	1	SPACE
						3.8	5.6	5.7					
	TOTAL	. CON	NECT	ED k\	/A:		15.1			DEM.	AND	kVA:	15.3
	PAN	EL RM	S SYN	I. AM	PS:	SEE RISE	R		D	EMAI	ND A	MPS:	42.5

1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 3. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

					DII	NING/SHELTER	?/STORAGE BI	LDG ELE	C. RO	ОМ				3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V					PA	NEL:	C'	2					SURFACE MOUNTED	
	AMPS: 200-MLO					LC	DAD PER PHA	\SE						NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В)	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
TC	LTS: WOMEN'S BEDS	1	12	20	1	1.4 1.8				2			_	110.7	
TC	LTS: MEN'S BED	1	12	20	3		1.4 1.9			4	25	10	2	HP-7	
	LTS: DINING/BATHROOMS	1	12	20	5			1.6	0.8	6	20	12	1	MEN'S EWC	GFI
	LTS: STORAGE/MEN BATH	1	12	20	7	0.6 0.4				8	20	12	1	men's lobby desk	
LO,#8	LTS: EMG-INV	1	12	20	9		0 2.5			10					
LO,PC,#8	LTS: EXTERIOR	1	12	20	11			0.6	2.5	12	30	10	3	FPB-4	
	LTS: WOMEN'S BATH	1	12	20	13	0.5 2.5				14					
	REC: DRY STOR/DINING	1	12	20	15		1.4 3.5			16					
	TELE/DATA BOARD	1	12	20	17			0.4	3.5	18	40	8	3	FPB-5	
LO,#5	REC: FACP	1	12	20	19	0.4 3.5				20					
LO,#5	REC: 4G DIALER	1	12	20	21		0.2 1.0			22	20	12	1	RISER RM UH-1	
	REC: HOTBOXES	1	12	20	23			0.4	2.3	24					
	REC: DINING	1	12	20	25	1.0 2.3				26	25	10	3	MF-1	
	REC: MEN'S TV ROOM	1	12	20	27		1.4 2.2			28					
	REC: MEN'S SHELTER BEDS	1	12	20	29			1.0	0.2	30	20	12	1	WATER HEATER	
	REC: MEN'S PROGRAM BEDS	1	12	20	31	1.0 1.1				32	20	12	1	COURTYARD LIGHTS	LO,GFI,PC,#8
	REC: MEN'S PROGRAM BEDS	1	12	20	33		1.4 1.1			34	20	12	1	COURTYARD LIGHTS	LO,GFI,PC,#8
	REC: MEN'S LOBBY	1	12	20	35			0.8	1.0	36	20	12	1	REC: COURTYARD	GFI
	REC: MEN'S STAFF TOILET	1	12	20	37	0.6 0.4				38	20	12	1	REC: MEN'S LAVS	
	REC: MEN'S LAVATORIES	1	12	20	39		0.4 0.1			40	20	12	1	WOMEN'S NIGHT LIGHTS	TC,LO,#9
	REC: MEN'S LAVATORIES	1	12	20	41			0.6	0.1	42	20	12	1	MEN'S NIGHT LIGHTS	TC,LO,#9
						17.5	18.5	15	.8						
	TOTAL	CON	NECT	ED k	VA:		51.8				DEM.	AND	kVA:	66.7	

DEMAND AMPS: 185.1

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED.
- 3. PC CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING. 4. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.

PANEL RMS SYM. AMPS: SEE RISER

- 5. CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER
- TO BE LOCKED IN ON POSITION. NEC 760.41 6. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI
- PROTECTION & ACCESSIBILITY. 7. TC - CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK, AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND
- BATTERY BACK-UP. SEE PLANS FOR LOCATIONS. 8. WIRE PORTION OF CIRCUIT VIA EMERGENCY LIGHTING INVERTER. SEE RISER FOR INVERTER DETAILS.
- PROVIDE LOCK-ON BREAKER ATTACHMENT.
- 9. NIGHT LIGHT FIXTURE TO BE WIRED VIA TIME CLOCK TO TURN ON NIGHT LIGHTS FROM SUNSET TO SUNRISE. COORDINATE EXACT SCHEDULE WITH BUILDING OWNER. LIGHTS TO BE OFF DURING THE

				DIN	IING/SH	HELTER	/STORAGE B	LDG ELE	C. RO	ОМ				3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V					F	A	NEL:	: B2	2					SURFACE MOUNTED
AMPS: 400-MLO						LC	DAD PER PHA	\SE						NEMA 1
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	\	В	С		CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
				1	4.0	3.8				2				
RTU-20	3	6	50	3			4.1 5.6			4	60	4	3	PANEL F2
				5				4.0	5.7	6				
HP-1	2	10	30	7	1.5	6.2				8				
		ıŭ		9			1.5 6.1			10	90	3	3	RTU-8
SPACE	1	-	-	11				0	6.1	12				
SPACE	1	-	-	13	0	1.9				14				
				15			1.5 2.0			16	30	10	3	RTU-9
WATER FOUNTAIN	3	8	40	17				1.5	2.0	18				
		<u> </u>	<u> </u>	19	1.5	6.1				20				
				21			5.6 6.2			22	90	3	3	RTU-10
PANEL G2	3	4	60	23				5.7	6.1	24				
		<u> </u>	├─	25	3.8	6.1				26				
SPACE	1	-	-	27			0 6.1			28	90	3	3	RTU-11
SPACE	1	-	-	29				0	6.2	30				
SPACE	1	-	-	31	0	4.1				32				DTIL 17
SPACE	1	-	-	33			0 4.1			34	50	6	3	RTU-16
SPACE	1	-	-	35		- ,		0	4.0	36				
SPACE	1	-	-	37	0	2.6				38	40			DTU 10
SPACE	1	-	 -	39			0 2.6		2 /	40	40	8	3	RTU-18
SPACE	1	-	 -	41	41	,	45.4	0	2.6	42				
TC TC	OTAL CONI	NFCI	FD k\	/A·	41	.6	45.4 130.9	43.	.9		DFM.	AND	۲۸۷.	136.6
					CEE I	DICE								
F	PANEL RMS	> 21W	I. AM	P5:	SEE I	KI2F	K				EMAI	ND AI	MPS:	379.2

1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 3. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

				DIN	ning/shelter	/STORAGE BI	DG ELEC. RC	ОМ				3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V					PA	NEL:	A2					SURFACE MOUNTED
AMPS: 1200-MLO					LC	DAD PER PHA	SE					NEMA 1
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
				1	41.6 6.5			2				
PANEL "B2"	3	500	400	3		45.4 6.5		4	90	3	3	RTU-7
				5			43.9 6.5	6				
				7	16.7 0			8	-	-	1	SPACE
PANEL "C2"	3	3/0	200	9		18.5 0		10	-	-	1	SPACE
				11			16.2 0	12	-	-	1	SPACE
				13	40.7 7.8			14				
PANEL "E2"	3	500	400	15		41.4 6.7		16	100	1	3	PANEL "H2"
				17			43.6 5.6	18				
					113.3	118.5	115.8					
TOTA	AL CON	NECT	ED k	/A:		347.6			DEM.	AND	kVA:	334.7
PA	NEL RM	S SYN	1. AM	PS:	SEE RISE	R		D	EMAI	ND A	MPS:	929.1

1. PANEL SHALL BE EQUAL TO SQUARE D I-LINE. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.



THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



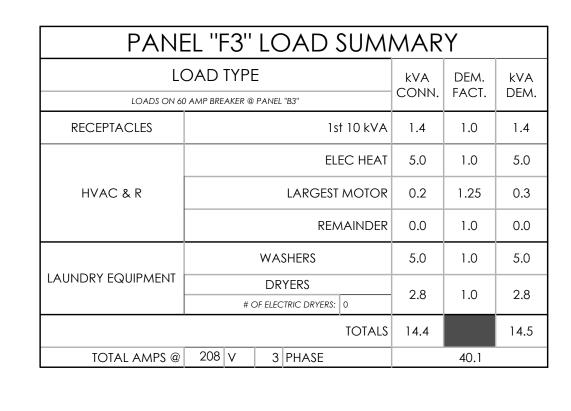
NEW HANOVER COUNTY NORTH CAROLINA

SITE PLAN



CONSTRUCTION DOCUMENT SET 08/25/20 Sheet Title ELECTRICAL PANEL SCHEDULES-DINING/SHELTER/ STORAGE BUILDING

Sheet Number



PANE	EL "[)3'	LC	DAC	SUM	MAR	Y	
LC	DAD	TYPI	E			kVA	DEM.	kVA
LOADS ON 60	AMP BRE	AKER @	PANEL	"A3"		CONN.	FACT.	DEM.
RECEPTACLES				1s	† 10 kVA	0.6	1.0	0.6
				EL	EC HEAT	3.0	1.0	3.0
HVAC & R				LARGEST	MOTOR	0.2	1.25	0.3
				REA	MAINDER	0.0	1.0	0.0
			WA:	SHERS		5.4	1.0	5.4
LAUNDRY EQUIPMENT		# (YERS TRIC DRYERS:	0	5.4	1.0	5.4
	_				TOTALS	14.6		14.7
TOTAL AMPS @	208	V	3	PHASE			40.7	

						RESIDE	NTIAL BLDG L	AUNDRY					3 PHASE, 4 WIRE
Ī	VOLTAGE: 208Y/120V					PA	NEL:	F3					FLUSH MOUNTED
Ī	AMPS: 60-MLO					LC	DAD PER PHA	SE					NEMA 1
Ī	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
Ī	SPACE	1	-	-	1	0 0			2	-	-	1	SPACE
, [WASHER	2	12	15	3		1.3 1.2		4	15	12	2	WASHER
4 [WASHLK		12	13	5			1.2 1.3	6	13	12		WASHIK
	PTAC	2	12	20	7	1.6 1.4			8	15	12	1	GAS DRYER
	TIAC		12	20	9		1.6 1.4		10	15	12	1	GAS DRYER
	REC: LAUNDRY	1	12	20	11			0.6 1.0	12	20	12	1	UH-8
4	REC: IT ROOM	1	12	20	13	0.8 0.4			14	20	12	1	IT/SERVER
Ī	SPACE	1	-	-	15		0 0		16	20	-	1	SPARE
Ī	SPACE	1	-	-	17			0 0	18	20	-	1	SPARE
ſ						4.2	5.5	4.1					
Ī	TOT	AL CON	NECT	ED k\	/A:		13.8			DEM.	AND	kVA:	14.5
	PA	NEL RM:	S SYN	I. AM	PS:	SEE RISE	R		D	EMAI	ND A	MPS:	40.1

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- 3. L INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE
- 4. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

					RESID	ENI	TIAL BLDG	3 LAL	JNDR	Y.					3 PHASE, 4 WIRE	
VOLTAGE: 208Y/120V					PA	1	NEL	:	D,	3					FLUSH MOUNTED	
AMPS: 60-MLO						LOA	AD PER PI	HASE							NEMA 1	
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α		В		()	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
GAS DRYER	1	12	20	1	1.8 1.8						2	20	12	1	WASHER C	GFI,#4
GAS DRYER	1	12	20	3			1.8 1.8	8			4	20	12	1	WASHER C	GFI,#4
GAS DRYER	1	12	20	5					1.8	1.8	6	20	12	1	WASHER C	GFI,#4
SPACE	1	-	-	7	0 0						8	20	-	1	SPARE	
SPACE	1	-	-	9			0 0				10	20	-	1	SPARE	
SPACE	1	-	-	11					0	0	12	-	-	1	SPACE	
PTHP	2	12	20	13	1.6 0						14	-	-	1	SPACE	
1 11 11		12	20	15			1.6 0				16	-	-	1	SPACE	
RECEPTACLES	1	12	20	17					0.6	0	18	-	-	1	SPACE	
					5.2		5.2		4.	.2						
TOTAL	CON	NECT	ED k	√A:			14.6					DEM	AND	kVA:	14.7	
PANE	EL RMS	S SYN	I. AM	IPS:	SEE RIS	ER					D	EMA	ND A	MPS:	40.7	

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- 3. GFI PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI
- PROTECTION & ACCESSIBILITY. 4. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

HVAC & R			LARGEST	MOTOR	1.5	1.25	1.9
			REM	MAINDER	2.6	1.0	2.6
(3) WAT	ER HEATERS	(GA	S)		1.2	1.25	1.5
EWC,	FACP, 4G DI	ALER)		2.4	1.0	2.4
				TOTALS	54.3		53.2
TOTAL AMPS @	208 V	3	PHASE			 147.6	

PANEL B3 LOAD SUMMARY

DRYERS

OF ELECTRIC DRYERS: 0

kVA DEM. kVA CONN. FACT. DEM.

5.0 1.0 5.0

2.8 1.0 2.8

0.8 1.0 0.8

135.3

TOTALS 156.3 153.9

427.3

1st 10 kVA | 10.0 | 1.0 | 10.0

REMAINDER 1.2 0.5 0.6

ELEC HEAT 27.1 1.0 27.1

REMAINDER 2.2 1.0 2.2

LARGEST MOTOR 0.2 1.25 0.3

TOTALS 49.3

LOAD TYPE

LOADS ON 200 AMP BREAKER @ PANEL 'A3'

TELE/DATA BOARD, HOT BOXES

TOTAL AMPS @ 208 V 3 PHASE

TOTAL AMPS @ 208 V 3 PHASE

RECEPTACLES

HVAC & R

LAUNDRY EQUIPMENT

PANEL "C3" LOAD SUMMARY

kVA DEM. kVA CONN. FACT. DEM.

4.0 1.25 5.0

1st 10 kVA 10.0 1.0 10.0

REMAINDER 5.6 0.5 2.8

ELEC HEAT 27.0 1.0 27.0

LOAD TYPE

LOADS ON 200 AMP BREAKER @ PANEL "A3"

LIGHTS (1462SQFT @ 2 W/SQFT, 2069 @ .5 W/SQFT >

CONN. LOAD)

RECEPTACLES

			I . —												KEO. 100	
	lts: restrooms/laundry	1	12	20	3		0.8	1.2			4	20	12	1	REC: 433/432	
#7	LTS: EMG-INVERTER	1	12	20	5				0.3	0.8	6	20	12	1	REC: 432/431	
PC	LTS: EXTERIOR	1	12	20	7	0.2 1.2					8	20	12	1	REC: 431/430	
Ī	DTUD 407		10	1.5	9		1.1	0.8			10	20	12	1	REC: 430/429	
ľ	PTHP-406	2	12	15	11				1.2	0.8	12	20	12	1	REC: 414/415	
Ī	PTHP-405	2	10	15	13	1.2 1.2					14	20	12	1	REC: 413/414	
	P1HP-4U3	2	12	15	15		1.1	1.0			16	20	12	1	REC: 413/OFFICE	
	PTHP-404	2	12	15	17				1.1	1.2	18	20	12	1	REC: 406	
	Γ1ΠΓ-4U4		12	13	19	1.2 1.2					20	20	12	1	REC: 405/406	
	PTHP-403	2	12	15	21		1.2	1.2			22	20	12	1	REC: 404/405	
L	F1HF-403		12	13	23				1.1	1.2	24	20	12	1	REC: 403/404	
	PTAC-434	2	12	15	25	1.2 0.8					26	20	12	1	REC: 403	
	F1AC-434	2	12	13	27		1.1	1.0			28	20	12	1	REC: CORRIDOR/CLOSETS	
	PTAC-433		12	15	29				1.1	0.6	30	20	12	1	rec: bathroom	
	PTAC-433	2	12	15	31	1.2 0.8					32	20	12	1	REC: RECEPTION	
	PTAC-432	2	12	1.5	33		1.2	0			34	20	-	1	SPARE	
	FTAC-432	2	12	15	35				1.1	0.8	36	20	12	1	EWC	GFI
	PTAC-431		10	15	37	1.2 0.8					38	20	12	1	4G DIALER	#6,LC
	FTAC-431	2	12	13	39		1.1	0.8			40	20	12	1	FACP	#6,LC
	PTHP-LOUNGE	2	12	15	41				1.1	0.7	42	15	12	2	AH/HP-5	
L	FIRE-LOUNGE		12	13	43	1.2 0.8					44	13	12		Allylli -5	
	PTHP-413	2	12	15	45		1.1	1.5			46	20	12	1	FPB-8	#11
L	1 1111 -410		12	13	47				1.2	0.4	48	20	12	1	REC: BATHROOM	
	PTHP-414	2	12	15	49	1.2 1.0					50	20	12	1	RISER UH-1	
L	1 1111 -414		12	13	51		1.1	1.0			52	20	12	1	UH-8 ENTRY	L
	WATER HEATERS	1	12	20	53				1.2	1.0	54	20	12	1	UH-8 AT 407	L
L						18.2	18.	.3	16	5.9						
	TOTAL	CON	NECT	ED k	√A:		53.	.4				DEM	AND	kVA:	53.2	
	PANE	L RM:	S SYN	1. AM	PS:	SEE RISE	R				D	EMAI	ND A	MPS:	147.6	

MEN'S RESIDENTIAL BLDG STORAGE ROOM

PANEL: C3

LOAD PER PHASE

POLE SIZE SIZE SIZE A B C CKT SIZE SIZE POLE

VOLTAGE: 208Y/120V

AMPS: 200-MLO

-DESCRIPTION-

TC LTS: HALL/LOUNGE

3 PHASE, 4 WIRE

NEMA 1

REC: 433

SURFACE MOUNTED

-DESCRIPTION-

- 4. TC CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK, AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND BATTERY BACK-UP.
- 5. PC CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING. 6. CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER TO BE LOCKED IN
- ON POSITION. NEC 760.41 7. WIRE PORTION OF CIRCUIT VIA EMERGENCY LIGHTING INVERTER. SEE RISER FOR INVERTER DETAILS. PROVIDE LOCK-ON BREAKER ATTACHMENT. E.C. TO IDENTIFY AND PERMANENTLY MARK MATERIALS ACCORDING TO NEC 700.10. E.C. TO ALSO CLEARLY LABEL BRANCH CIRCUIT AT PANEL (NEC 700.12(F)(2)(4).
- 9. GFI PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
- 10. LO INDICATES LOCK-ON ATTACHMENT REQUIRED. 11. FPB-6 PRESENT IN ONLY MEN'S RESIDENTIAL. FPB-6 TO HAVE 15 AMP BREAKER. FPB-8 PRESENT ONLY IN WOMEN'S RESIDENTIAL. FPB-8 TO HAVE 20 AMP BREAKER.

					RESIDENT	TIAL BLD	G ELE	C. RO	ОМ					3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V					PA	NE	EL:	Βί	3					SURFACE MOUNTED
AMPS: 200-MLO					LC	DAD PER	R PHA	SE						NEMA
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В		(<u> </u>	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
PTAC-430	2	12	15	1	1.1 0.6					2	20	12	1	REC: 419
FTAC-430	2	12	15	3		1.2	0.8			4	20	12	1	REC: 418/419
PTAC-429	2	12	15	5				1.1	1.2	6	20	12	1	REC: 417/418
FTAC-429		12	13	7	1.2 0.8					8	20	12	1	REC: 416/417
PTAC-428	2	12	15	9		1.1	1.2			10	20	12	1	REC: 415/416
FTAC-420		12	13	11				1.2	1.2	12	20	12	1	REC: 429/428
PTAC-427	2	12	15	13	1.2 0.8					14	20	12	1	REC: 428/427
FTAC-42/	2	12	15	15		1.1	1.2			16	20	12	1	REC: 427/426
PTAC-426	2	12	15	17				1.1	0.8	18	20	12	1	REC: 426/425
F1AC-426	2	12	15	19	1.2 1.2					20	20	12	1	REC: 425/424
PTAC-425	2	12	15	21		1.1	0.8			22	20	12	1	REC: 424/ LAUNDR)
FTAC-423		12	13	23				1.2	0.6	24	20	12	1	REC: CORRIDOR/EI
PTHP-415	2	12	15	25	1.1 0					26	-	-	1	SPACI
FINE-413		12	13	27		1.2	0			28	-	-	1	SPACI
PTHP-416	2	12	15	29				1.1	0	30	20	-	1	SPARI
1 1111 -410		12	13	31	1.2 3.8					32				
PTHP-41 <i>7</i>	2	12	15	33		1.1	5.5			34	60	4	3	PANEL 'F3
1 1111 -417		12	13	35				1.2	3.1	36				
PTHP-418	2	12	15	37	1.1 0					38	20	-	1	SPARE
		12	10	39		1.2	1.1			40	15	12	2	PTHP-419
TELE/DATA BOARD	1	12	20	41				0.4	1.2	42	'	12		11111 417
					15.3	18.	.6	15	5.4					
TO	TAL CON	NECT	ED k	√A:		49.	.3				DEM.	AND	kVA:	48.8
P	anel RM:	S SYN	. AM	PS:	SEE RISE	R				D	EMAI	ND A	MPS:	135.3

1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.

PANE	EL A3 LOAD SUM	MAR	Υ								MEN'S RESID	ENTIAL BLDG	ELEC. ROOM	Λ				3 PHASE, 4 WIRE	
	AD TYPE	kVA		kVA	-	VOLTAGE: 208Y/120V					PA	NEL:	A3					SURFACE MOUNTED	
	S ON 600 AMP MCB	CONN.	DEM. FACT.	DEM.		AMPS: 600-MLO					LC	DAD PER PHA	\SE					NEMA 1	
	2 W/SQFT >< CONN. LOAD)	4.0	1.25	5.0	_	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
EIOTTIS (0020 3QTT @	Z W/SQIT / CONN. LOAD	4.0	1.23	3.0	4					1	15.3 5.2			2	1				
	1st 10 kVA	10.0	1.0	10.0	#4	PANEL "B3"	3	3/0	200	3		18.6 5.2		4	60	4	3	PANEL "D3"	#7
RECEPTACLES	REMAINDER	17.4	0.5	8.7			+	+	\vdash	7	18.4 6.7		15.4 4.2	8	<u> </u>				
	ELEC HEAT	57.1	1.0	57.1	#5	PANEL "C3"	3	3/0	200	9		17.4 6.7		10	90	2	3	RTU-13	#3,#
		07.11	1.0	0,.,	-			_	_	11			17.2 6.7	12					l
HVAC & R	LARGEST MOTOR	20.1	1.25	25.1						13	6.0 0			14	-	-	1	SPACE	l
	REMAINDER	6.7	1.0	6.7	#6,#9	HUMIDIFIER	3	3	80	15		6.0 0	6.0 0	16	-	-	1 1	SPACE SPACE	
		-			-			+	+	17	51.6	53.9	49.5	10	<u>-</u>	-	'	SPACE	l
(3) WATE	ER HEATERS (GAS)	1.2	1.25	1.5	_	TOTA	L CON	INEC ⁻	I ГЕD k	VA:	01.0	155.0	17.0		DEM	L AND	kVA:	153.9	
	WASHERS	10.4	1.0	10.4		PAN	IFI RM	IS SYN	л. AN	ΛPS:	SEE RISE	R			FMA	ND A	MPS:	427.3	
UNDRY EQUIPMENT	DRYERS	0.0	1.0	0.0		17.11					OLL MOL							127.10	l
	# OF ELECTRIC DRYERS: 0	8.2	1.0	8.2		1. PANEL SHALL BE SERVIC).					
	TELE/DATA BOARD, HOT BOXES, UMIDIFIER	21.2	1.0	21.2		 PROVIDE HACR BREAKE BREAKER TO BE USED FO 								SEE	SHEE	ГЕ10	3.1.		

- PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. BREAKER TO BE USED FOR RTU-17 IN WOMEN'S RESIDENTIAL BUILDING. SEE SHEET E103.1.
- 4. SERVICE DISCONNECT 1 OF 5. 5. SERVICE DISCONNECT 2 OF 5.
- 6. SERVICE DISCONNECT 3 OF 5. 7. SERVICE DISCONNECT 4 OF 5.
- 8. SERVICE DISCONNECT 5 OF 5. 9. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING



PLUMBING MECHANICAL ELECTRICAL

THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



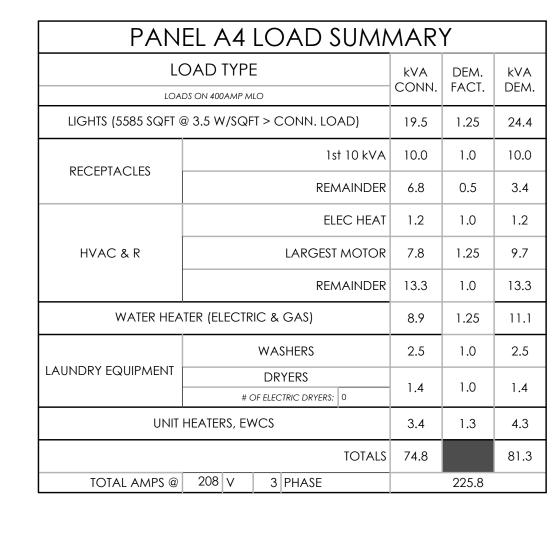
NEW HANOVER COUNTY NORTH CAROLINA

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No. Description CONSTRUCTION DOCUMENT SET 08/25/20 Sheet Title ELECTRICAL PANEL SCHEDULE-MEN'S RESIDENTIAL BUILDING

Sheet Number E203



						C	DETOX	(BLDG I	ELEC.	ROOM						3 PHASE, 4 WIRE
	VOLTAGE: 208Y/120V					Р	Α	NE	L:	A	4					SURFACE MOUNTED
	AMPS: 400-MLO						LC	DAD PER	R PHAS	SE						NEMA 1
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α		В		C		CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
	LTS: WOMEN'S	1	12	20	1	1.3	2.6					2	O.L.L	O.L.L		
	LTS: MEN'S	1	12	20	3			1.5	2.6			4	40	8	3	RTU-14
O,TC,#8	LTS: PATHWAY NIGHT LIGHTS	1	12	20	5					0.6	2.6	6				
#4,LO	FACP	1	12	20	7	0.2	2.8					8				
#4,LO	4G DIALER	1	12	20	9			0.2	2.9			10	45	6	3	RTU-15
	REC: EXTERIOR HOT BOXES	1	12	20	11					0.4	2.9	12				
GFI	EWC WOMEN	1	12	20	13	0.7	0					14	20	-	1	SPARE
GFI	EWC MEN	1	12	20	15			0.7	0			16	20	-	1	SPARE
	REC: EXT/CORR/RESTROOM	1	12	20	17					0.8	1.9	18				
	REC: WOMEN DETOX/STAFF	1	12	20	19	1.0	2.0					20	30	10	3	RTU-19
	REC: CONSULTATION	1	12	20	21			1.0	2.0			22				
	REC: LOUNGE/OFFICE	1	12	20	23					1.0	0	24	-	-	1	SPACE
	REC: OFFICE/FILES	1	12	20	25	1.0	1.0					26	20	12	1	UH-1 RISER
	REC: RECEPTION/STAFF	1	12	20	27			0.8	1.0			28	20	12	1	UH-6
	REC: STAFF/FILES	1	12	20	29					1.0	0.2	30	20	12	1	REC: STAFF STATION
	REC: OFFICE	1	12	20	31	1.0	0.2					32	20	12	1	REC: STAFF STATION
	REC: LOUNGE	1	12	20	33			1.2	1.4			34	20	12	1	GAS DRYER
	REC: CONSULTATION/STAFF	1	12	20	35					1.2	0.6	36	20	12	1	WATER HEATERS
	REC: LOBBY/MEN DETOX	1	12	20	37	1.2	1.2					38	15	12	2	WASHER
	REC: MEN RESTROOM	1	12	20	39			1.0	1.3			40	13	12		WASHILK
	SPARE	1	-	20	41					0.2	1.0	42	20	12	1	REC: IT EQUIPMENT
	REC: TELE/DATA BOARD	1	12	20	43	0.4	1.0					44	20	12	1	REC: IT EQUIPMENT
	SPARE	1	-	20	45			0.2	1.0			46	20	12	1	REC: MEN'S DETOX SUITE
\$8,LO,PC	LTS: EXTERIOR EMG INV	1	12	20	47					0.1	1.0	48	20	12	1	REC: MEN'S DETOX SUITE
#9	SPACE	1	-	-	49	0	0.6					50	20	12	1	REC: WOMEN'S RESTROOM
#9	SPACE	1	-	-	51			0	4.2			52	40	8	2	WH-2
#9	SPACE	1	-	-	53					0	4.1	54	70	Ů		VVI I-Z
						18.	2	23.	.0	19	.6					
	TOTAL	CON	NECT	ED k	√A:			60.	.8				DEM.	AND	kVA:	81.3
	PANE	L RM	S SYN	1. AM	PS:	SEE F	RISEI	R				D	EMAI	ND A	MPS:	225.8

- 1. PANEL SHALL BE SERVICE ENTRANCE RATED, EQUAL TO SQUARE D NQ.
- 2. LO INDICATES LOCK-ON ATTACHMENT REQUIRED.
- 3. PC CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING. 4. CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER
- TO BE LOCKED IN ON POSITION. NEC 760.41 5. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI
- BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
- 6. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- 7. L INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE
- 8. WIRE PORTION OF CIRCUIT VIA EMERGENCY LIGHTING INVERTER. SEE RISER FOR INVERTER DETAILS. PROVIDE LOCK-ON BREAKER ATTACHMENT.
- 9. E.C. TO LEAVE 3 CONSECUTIVE POLES AS SPACES. MARK SPACES TO LEAVE EMPTY 10. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING
- 11. TC CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK,
- AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND BATTERY BACK-UP.



PANE	EL "F3"	LOAD SU	M	MAR	Υ	
	OAD TYPI			kVA CONN.	DEM. FACT.	kVA DEM.
RECEPTACLES		1st 10	kVA	1.4	1.0	1.4
		ELEC H	HEAT	5.0	1.0	5.0
HVAC & R		LARGEST MC	TOR	0.2	1.25	0.3
		REMAIN	IDER	0.0	1.0	0.0
		WASHERS		5.0	1.0	5.0
LAUNDRY EQUIPMENT	# (DRYERS OF ELECTRIC DRYERS: 0		2.8	1.0	2.8
		ТО	TALS	14.4		14.5
TOTAL AMPS @	208 🗸	3 PHASE			40.1	

						RES	SIDEN	NTIAL BLDG L	AUNDRY					3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V					Р	Α	NEL:	F3					FLUSH MOUNTED	
	AMPS: 60-MLO						LC	AD PER PHA	SE					NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α		В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	SPACE	1	-	-	1	0	0			2	-	-	1	SPACE	
ш. а	NA A CLIED	2	10	15	3			1.3 1.2		4	15	12	2	\\/ \ C.L.I.C.D.	ш,
#4	WASHER		12	13	5				1.2 1.3	6	13	12	2	WASHER	#4
	PTAC	2	12	20	7	1.6	1.4			8	15	12	1	GAS DRYER	#4
	PIAC		12	20	9			1.6 1.4		10	15	12	1	GAS DRYER	#4
	REC: LAUNDRY	1	12	20	11				0.6 1.0	12	20	12	1	UH-8	L
#4	REC: IT ROOM	1	12	20	13	0.8	0.4			14	20	12	1	IT/SERVER	#4
	SPACE	1	-	-	15			0 0		16	20	-	1	SPARE	
	SPACE	1	-	-	17				0 0	18	20	-	1	SPARE	
						4.2		5.5	4.1						
	TOTAL	CON	NECT	ED k\	√A:			13.8			DEM.	AND	kVA:	14.5	
	PANI	EL RM:	S SYM	I. AM	PS:	SEE R	ISEI	?		D	EMAI	ND A	MPS:	40.1	

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
- 3. L INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE DISCONNECT)
- 4. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.

PANE	PANEL "D3" LOAD SUMMARY													
LC	DAD	TYP	Е			kVA	DEM.	kVA						
LOADS ON 60	AMP BRE	AKER @	PANEL	"A3"		CONN.	FACT.	DEM.						
RECEPTACLES				1s	† 10 kVA	0.6	0.6							
				EL	3.0	1.0	3.0							
HVAC & R				LARGEST	MOTOR	0.2	1.25	0.3] `					
				REA	MAINDER	0.0	1.0	0.0						
			WA	SHERS		5.4	1.0	5.4						
LAUNDRY EQUIPMENT		#		YERS CTRIC DRYERS:	0	5.4	1.0	5.4						
					TOTALS	14.6		14.7						
TOTAL AMPS @	208	٧	3	PHASE			40.7		1					

					RESIDE	ntial B	LDG L	AUNDR	Υ					3 PHASE, 4 WIRE	
VOLTAGE: 208Y/120V					PA	NE	<u>EL:</u>	D;	3					FLUSH MOUNTED	
AMPS: 60-MLO					LC	DAD PE	R PHA	SE						NEMA 1	
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	E	3)	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
GAS DRYER	1	12	20	1	1.8 1.8					2	20	12	1	WASHER	GFI,#4
GAS DRYER	1	12	20	3		1.8	1.8			4	20	12	1	WASHER	GFI,#4
GAS DRYER	1	12	20	5				1.8	1.8	6	20	12	1	WASHER	GFI,#4
SPACE	1	-	-	7	0 0					8	20	-	1	SPARE	
SPACE	1	-	-	9		0	0			10	20	-	1	SPARE	
SPACE	1	-	-	11				0	0	12	-	-	1	SPACE	
PTHP	2	12	20	13	1.6 0					14	-	-	1	SPACE	
		12	20	15		1.6	0			16	-	-	1	SPACE	
RECEPTACLES	1	12	20	17				0.6	0	18	-	-	1	SPACE	
					5.2	5	.2	4.	2						
TOTAL	CON	NECT	ED k	√A:		14	.6				DEM	AND	kVA:	14.7	
PANE	L RM	S SYN	1. AM	PS:	SEE RISE	R				D	EMA	ND A	MPS:	40.7	

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ.
- 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 3. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI
- PROTECTION & ACCESSIBILITY. 4. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

PANE	L "C3"	'LOAD SUM	MAR	Y		
L	OAD TYP	E	kVA	DEM.	kVA	
LOADS ON 20	0 AMP BREAKER @	PANEL "A3"	CONN.	FACT.	DEM.	
LIGHTS (1462SQFT @ C	2 W/SQFT, 1 ONN. LOAD		4.0	1.25	5.0	
		1st 10 kVA	10.0	1.0	10.0	
RECEPTACLES		REMAINDER	5.6	0.5	2.8	LC
		ELEC HEAT	27.0	1.0	27.0	
HVAC & R		LARGEST MOTOR	1.5	1.25	1.9	
		REMAINDER	2.6	1.0	2.6	
(3) WA	ER HEATERS	(GAS)	1.2	1.25	1.5	
EWC,	FACP, 4G D	IALER	2.4	1.0	2.4	
		TOTALS	54.3		53.2	
TOTAL AMPS @	208 V	3 PHASE		147.6		1

PANEL B3 LOAD SUMMARY

WASHERS

DRYERS

OF ELECTRIC DRYERS: 0

kVA DEM. kVA CONN. FACT. DEM.

5.0 1.0 5.0

2.8 | 1.0 | 2.8

0.8 1.0 0.8

135.3

153.9

1st 10 kVA 10.0 1.0 10.0

REMAINDER 1.2 0.5 0.6

ELEC HEAT 27.1 1.0 27.1

REMAINDER 2.2 1.0 2.2

LARGEST MOTOR 0.2 1.25 0.3

TOTALS 49.3

LOAD TYPE

LOADS ON 200 AMP BREAKER @ PANEL 'A3'

TELE/DATA BOARD, HOT BOXES

TOTAL AMPS @ 208 V 3 PHASE

TOTAL AMPS @ 208 V 3 PHASE

RECEPTACLES

HVAC & R

LAUNDRY EQUIPMENT

					W	omen's	RESID	ENTIAL BLDG	STORA	GE RC	MOC				3 PHASE, 4 WIRE
	VOLTAGE: 208Y/120V					P	A	NEL:	C	3					SURFACE MOUNTED
Ī	AMPS: 200-MLO						LC	DAD PER PHA	ιSΕ						NEMA 1
İ	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	\	В		<u> </u>	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
] [LTS: HALL/LOUNGE	1	12	20	1	1.2	0.6				2	20	12	1	REC: 433
ſ	LTS: RESTROOMS/LAUNDRY	1	12	20	3			0.8 1.2			4	20	12	1	REC: 433/432
, [LTS: EMG-INVERTER	1	12	20	5				0.3	0.8	6	20	12	1	REC: 432/431
:[LTS: EXTERIOR	1	12	20	7	0.2	1.2				8	20	12	1	REC: 431/430
ſ	DTLID 407		10	1.5	9			1.1 0.8			10	20	12	1	REC: 430/429
	PTHP-406	2	12	15	11				1.2	0.8	12	20	12	1	REC: 414/415
ſ	DTUD 405		10	1.5	13	1.2	1.2				14	20	12	1	REC: 413/414
1	PTHP-405	2	12	15	15			1.1 1.0			16	20	12	1	REC: 413/OFFICE
ſ	PTHP-404		10	1.5	17				1.1	1.2	18	20	12	1	REC: 406
1	1111 -404	2	12	15	19	1.2	1.2				20	20	12	1	REC: 405/406
ſ	DTLID 402		10	1.5	21			1.2 1.2			22	20	12	1	REC: 404/405
	PTHP-403	2	12	15	23				1.1	1.2	24	20	12	1	REC: 403/404
Ī	DT A C 424	2	10	1.5	25	1.2	0.8				26	20	12	1	REC: 403
	PTAC-434		12	15	27			1.1 1.0			28	20	12	1	REC: CORRIDOR/CLOSETS
	PTAC-433	2	12	15	29				1.1	0.6	30	20	12	1	REC: BATHROOM
	FTAC-433		12	13	31	1.2	0.8				32	20	12	1	REC: RECEPTION
ſ	PTAC-432	2	12	15	33			1.2 0			34	20	-	1	SPARE
L	FTAC-432		12	13	35				1.1	0.8	36	20	12	1	EWC
	PTAC-431	2	12	15	37	1.2	0.8				38	20	12	1	4G DIALER
L	1 1AC-431		12	13	39			1.1 0.8			40	20	12	1	FACP
	PTHP-LOUNGE	2	12	15	41				1.1	0.7	42	15	12	2	AH/HP-4
Į	TITII -LOONOL		12	13	43	1.2	0.8				44	13	12		7 (11) 111 - 4
	PTHP-413	2	12	15	45			1.1 1.5			46	15	12	1	FPB-6
L	1 1111 -410		12	13	47				1.2	0.4	48	20	12	1	REC: BATHROOM
	PTHP-414	2	12	15	49	1.2	1.0				50	20	12	1	RISER UH-1
ļ					51			1.1 1.0			52	20	12	1	UH-8 ENTRY
ļ	WATER HEATERS	1	1 12 20	53				1.2	1.0	54	20	12	1	UH-8 AT 407	
ļ						18	.2	18.3	16	5.9					
	TOTAL	CON	NECT	ED k\	/A:			53.4				DEM.	AND	kVA:	53.2
	PANEL RMS SYM. AMPS:	S: SEE RISER						EMAI	ND A	MPS:	147.6				

- 1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. L - INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE DISCONNECT)
- 3. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT. 4. TC - CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK, AUTO-DAWN
- FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND BATTERY BACK-UP. 5. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
- 6. CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER TO BE LOCKED IN ON POSITION. NEC 760.41
- 7. WIRE PORTION OF CIRCUIT VIA EMERGENCY LIGHTING INVERTER. SEE RISER FOR INVERTER DETAILS. PROVIDE LOCK-ON BREAKER ATTACHMENT. E.C. TO IDENTIFY AND PERMANENTLY MARK MATERIALS ACCORDING TO NEC 700.10. E.C. TO ALSO CLEARLY LABEL BRANCH CIRCUIT AT PANEL (NEC 700.12(F)(2)(4).
- 8. NOT USED. 9. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY. 10. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED.

					RESIDENT	TIAL BLDG EL	EC. ROOM					3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V					PA	NEL	: B3					SURFACE MOUNTED
AMPS: 200-MLO					LC	DAD PER PH	ASE					NEMA 1
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CK [*]	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
PTAC-430		12	15	1	1.1 0.6			2	20	12	1	REC: 419
FTAC-430	2	12	13	3		1.2 0.8		4	20	12	1	REC: 418/419
PTAC-429	2	12	15	5			1.1 1.	2 6	20	12	1	REC: 417/418
1 1AC-427		12	13	7	1.2 0.8			8	20	12	1	REC: 416/417
PTAC-428	2	12	15	9		1.1 1.2		10	20	12	1	REC: 415/416
117(0-420		12	13	11			1.2 1.	2 12	20	12	1	REC: 429/428
PTAC-427	2	12	15	13	1.2 0.8			14	20	12	1	REC: 428/427
11/10-42/		12	13	15		1.1 1.2		16	20	12	1	REC: 427/426
PTAC-426	2	12	15	17			1.1 0.	8 18	20	12	1	REC: 426/42
				19	1.2 1.2			20	20	12	1	REC: 425/42
PTAC-425	2	12	15	21		1.1 0.8		22	+	12	1	REC: 424/ LAUNDRY
			"	23			1.2 0.	6 24	20	12	1	REC: CORRIDOR/E
PTHP-415	2	12	15	25	1.1 0			26	-	-	1	SPACI
				27		1.2 0		28	+	-	1	SPACE
PTHP-416	2	12	15	29			1.1	_	+	<u> </u>	1	SPARI
				31	1.2 3.8			32	-	l .		
PTHP-417	2	12	15	33		1.1 5.5		34	⊣ ՟՟	4	3	PANEL 'F3
				35			1.2 3	_	_	-	ļ ,	CD + D1
PTHP-418	2	12	15	37	1.1 0	10 11		38	+	-	1	SPARI
TELE/DATA BOARD	1	12	20	41		1.2 1.1	0.4 1.	40 2 42	-1 15	12	2	PTHP-419
TELE/DATA BOARD	- '	12	20	41	15.3	18.6	15.4	2 42	+			
I C	TAL CON	L NFCT	ED N	<u>Ι</u>	13.3	49.3	13.4		DEM	AND	<u></u> ν\/Δ·	48.8
10	/I//L CON	IVLCI	בט גי	٧ / .		47.0		+	DLIV	שווועו	K V /\.	170.0
P	ANEL RM	S SYN	1. AM	PS:	SEE RISE	R		[DEMA	ND A	MPS:	135.3

1. PANEL SHALL BE EQUAL TO SQUARE D NQ. 2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.

PANEL	L A3 LOAD SUMA	MAR'	Υ							١	vomen's res	SIDENTIAL BLC	G ELEC. ROO	ОМ				3 PHASE, 4 WIRE
	AD TYPE			13/4		VOLTAGE: 208Y/120V					PA	NEL:	A3					SURFACE MOUNTED
	N 600 AMP LUGS	kVA CONN.	DEM. FACT.	kVA DEM.		AMPS: 600-MLO						OAD PER PHA						NEMA 1
		4.0	1.05			-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	Α	В	С	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
LIGHIS (8620 SQFI @ 2	2 W/SQFT >< CONN. LOAD)	4.0	1.25	5.0						1	15.3 5.2			2				
DE0EDT 4 01 E0	1st 10 kVA	10.0	1.0	10.0		PANEL "B3"	3	3/0	200	3		18.6 5.2		4	60	4	3	PANEL "D3"
RECEPTACLES	REMAINDER	17.4	0.5	8.7						7	18.4 6.7		15.4 4.2	8		\vdash		
	ELEC HEAT	57.1	1.0	57.1		PANEL "C3"	3	3/0	200	9		17.4 6.7		10	90	2	3	RTU-13
	LLLC TIL/ (I	07.1	1.0	07.1						11			17.2 6.7	12				
HVAC & R	LARGEST MOTOR	20.1	1.25	25.1						13	6.0 0			14	-	-	1	SPACE
	REMAINDER	6.7	1.0	6.7	#4	HUMIDIFIER	3	3	80	15		6.0 0	6.0 0	16	-	-	1	SPACE SPACE
(3) WATER	HEATERS (GAS)	1.2	1.25	1.5						 	51.6	53.9	49.5	+			† <u>'</u>	517(GE
(0) ****	TIE, WEIGO (C) (C)	1.2	1.25	1.5		TOTAL	CON	NEC1	ED k	VA:		155.0			DEM	AND	kVA:	153.9
	WASHERS	10.4	1.0	10.4		PANE	EL RM	S SYN	1. AN	ΛPS:	SEE RISE	:R			EMA	ND A	MPS:	427.3
LAUNDRY EQUIPMENT	DRYERS	0.0	1.0	8.2														
	# OF ELECTRIC DRYERS: 0	8.2	1.0	0.2		1. PANEL SHALL BE EQUAL												
	ELE/DATA BOARD, HOT BOXES, MIDIFIER	21.2	1.0	21.2		 PROVIDE HACR BREAKER BREAKER TO BE USED FO 								SEE	SHEE ⁻	T E10	3.1.	

3. BREAKER TO BE USED FOR RTU-17 IN WOMEN'S RESIDENTIAL BUILDING. SEE SHEET E103.1. 4. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING

Raleigh, North Carolina 27604 ENGINEERING, PLLC 708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797 PLUMBING MECHANICAL ELECTRICAL

THE HEALING PLACE OF NEW HANOVER COUNTY 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NEW HANOVER COUNTY NORTH CAROLINA

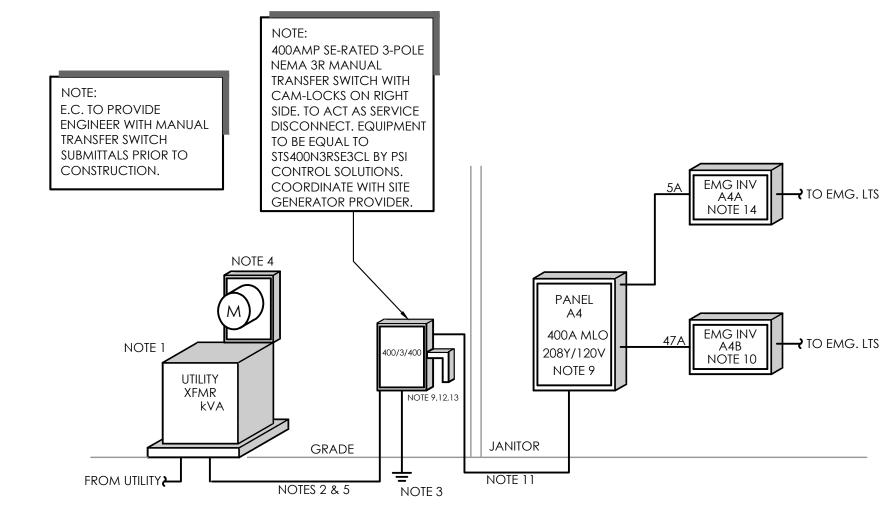
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Professional Seals



No. Description CONSTRUCTION DOCUMENT SET ELECTRICAL PANEL SCHEDULE-**WOMEN'S RESIDENTIAL** & DETOX BUILDINGS Sheet Number

E204



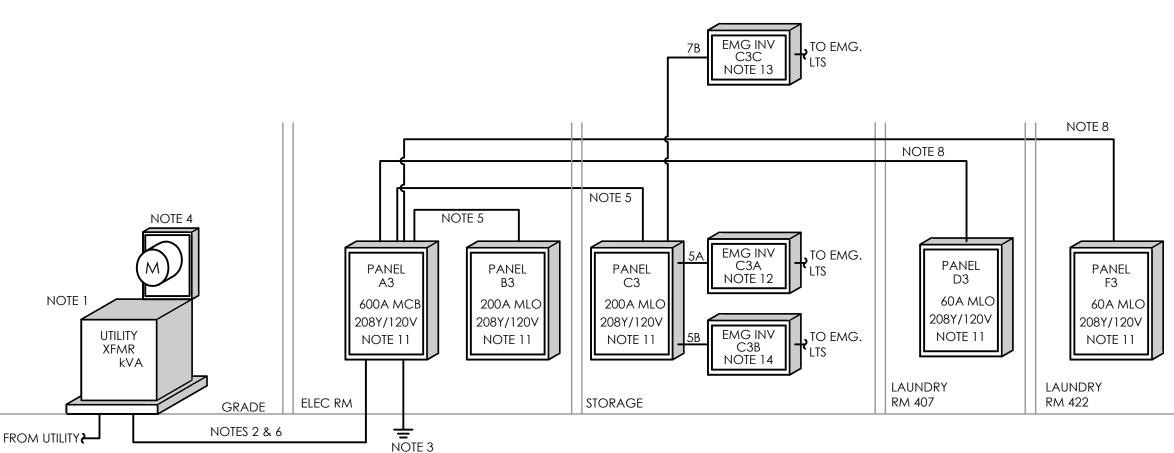
\ ELECTRICAL POWER RISER - DETOX BUILDING

INVERTER "A4A" CALC												
FIXTURE	QTY	WATTAGE	TOTAL									
A4	4	30	120									
H1	2	27	54									
C4	2	21	42									
		TOTAL	216									
INVER	TER '	'A4B'' C	CALC									
FIXTURE	QTY	WATTAGE	TOTAL									
V	3	23	69									
P1	3	12	36									
		TOTAL	105									

RISER DIAGRAM NOTES . PAD MOUNTED TRANSFORMER BY UTILITY.

- 2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
- 3. #1/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL).
- BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM. 4. TRANSFORMER MOUNTED METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- 5. (4)500KCMIL CU, 3" CONDUIT.
- 6. PROVIDE PLACARD AT PANEL(S)/DISCONNECT(S) INDICATING PANEL SERVED.
- 7. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24). 8. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16) 9. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED
- BREAKERS/FUSES. 10. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-SM 125 WATT MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION.
- 11. (4)500KCMIL CU,#3 CU GND, 3" CONDUIT.
- 12. 208Y/120V, 400 AMP MANUAL TRANSFER SWITCH. SWITCH TO BE SERVICE ENTRANCE RATED AND ACT AS SERVICE DISCONNECT LOCATION. INCLUDES MANUAL 3 POSITION "ON-OFF-EMERGECY" TRANSFER WITH LOCK-OUT FUNCTION. WITH NEMA 3R ENCLOSURE. MTS TO INCLUDE MANUAL SIDE CONNECT CAM LOCKS FOR ROLL UP GENERATOR CONNECTION.
- 13. SERVICE ENTRANCE RATED WEATHERPROOF DISCONNECT SIZED AND FUSED AS INDICATED. 14. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT

MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION.



LELECTRICAL POWER RISER - MEN'S RESIDENTIAL BUILDING

INVERTER "C3A" CALC

FIXTURE	QTY	WATTAGE	тот
A4	5	30	150
C3	1	21	21
H1	1	27	27
EXIT SIGN	5	3	15
		TOTAL	213
1. I) (ED	TCD		

| INVERTER "C3B" CALC FIXTURE QTY WATTAGE TOTAL 3 30 90 EXIT SIGN TOTAL 99

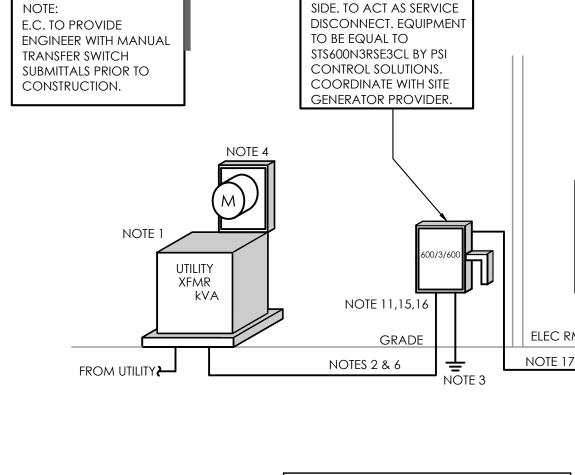
INVER'	TER "	C3C" (CALC
FIXTURE	QTY	WATTAGE	TOTAL
V	3	21	63
P1	2	12	24
		TOTAL	87

RISER DIAGRAM NOTES

- PAD MOUNTED TRANSFORMER BY UTILITY. 2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
- 3. #2/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL).
- BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM. 4. TRANSFORMER MOUNTED METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- 5. (4)#3/0 CU, #6 CU GND, 2" CONDUIT.
- 6. (2) SETS OF 350 kcmil CU, 3" CONDUIT. 7. NOT USED.
- 8. (4) #4 CU, #10 CU GND, 1 1/4" CONDUIT. 9. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- 10. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- 11. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED
- BREAKERS/FUSES. 12. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT

MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION.

- MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION. 13. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-SM 125 WATT
- 14. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-SM 125 WATT MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION.



INVERTER "C3A" CALC

FIXTURE QTY WATTAGE TOTAL

EXIT SIGN 5 3 15

INVERTER "C3B" CALC

FIXTURE QTY WATTAGE TOTAL

INVERTER "C3C" CALC

FIXTURE QTY WATTAGE TOTAL

P1 2 12 24

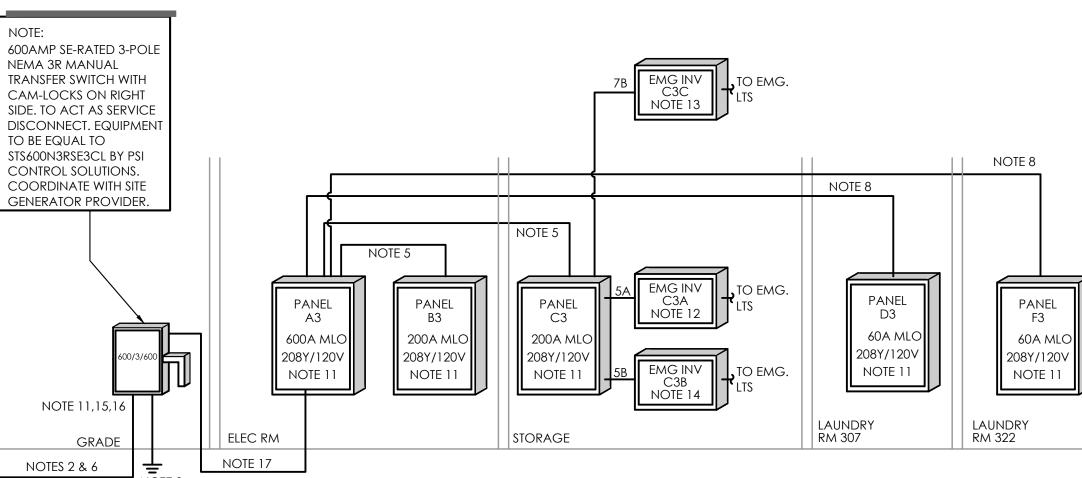
V 3 21

EXIT SIGN 3

TOTAL 213

30 90

TOTAL 99



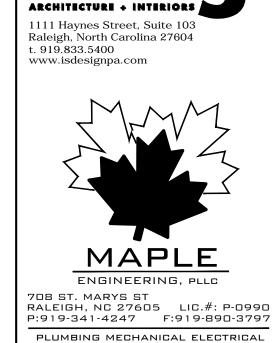
ELECTRICAL POWER RISER - WOMEN'S RESIDENTIAL BUILDING NO SCALE

RISER DIAGRAM NOTES: 1. PAD MOUNTED TRANSFORMER BY UTILITY.

- 2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
- 3. #2/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
- 4. TRANSFORMER MOUNTED METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- 5. (4)#3/0 CU, #6 CU GND, 2" CONDUIT.
- 6. (2) SETS OF 350 kcmil CU, 3" CONDUIT. 7. NOT USED.
- 8. (4) #4 CU, #10 CU GND, 1 1/4" CONDUIT.
- 9. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24). 10. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- 11. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED
- BREAKERS/FUSES. 12. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT
- MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION. 13. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-SM 125 WATT
- MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION.
- MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION. 15. 208Y/120V, 600 AMP MANUAL TRANSFER SWITCH. SWITCH TO BE SERVICE ENTRANCE RATED AND ACT AS SERVICE DISCONNECT LOCATION, INCLUDES MANUAL 3 POSITION "ON-OFF-EMERGECY"

14. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-SM 125 WATT

- TRANSFER WITH LOCK-OUT FUNCTION. WITH NEMA 3R ENCLOSURE. MTS TO INCLUDE MANUAL SIDE CONNECT CAM LOCKS FOR ROLL UP GENERATOR CONNECTION. 16. SERVICE ENTRANCE RATED WEATHERPROOF DISCONNECT SIZED AND FUSED AS INDICATED.
- 17. (2) SETS OF 350 KCMIL CU, #1 CU GND, 3" CONDUIT.

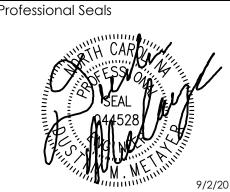


THE HEALING PLACE OF NEW HANOVER COUNT 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NEW HANOVER COUNTY NORTH CAROLINA

SITE PLAN



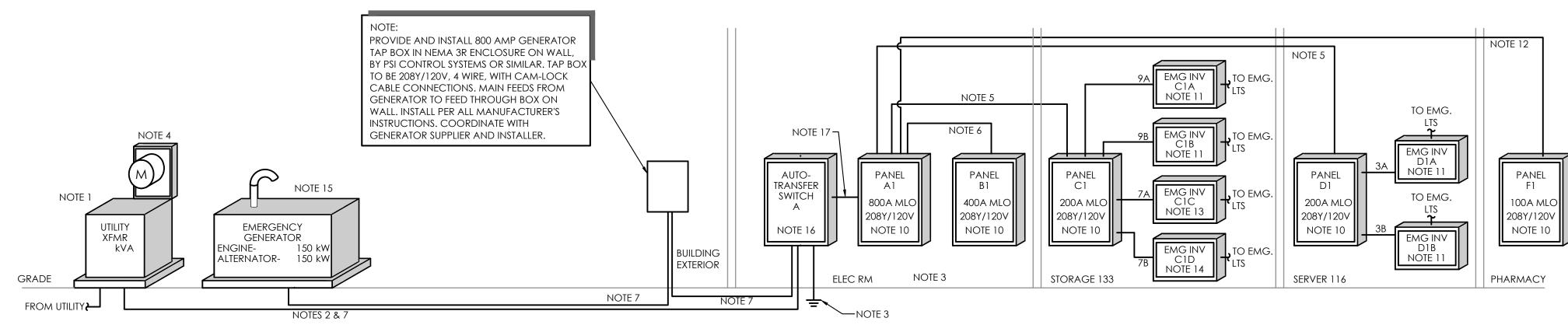
No. Description CONSTRUCTION DOCUMENT SET 08/25/20

Sheet Title

ELECTRICAL RISERS

Sheet Number

E205



GENERATOR CONTROL PANEL NOTES

- GENERATOR CONTROL PANEL TO BE EQUAL TO GENERAC H-100. WITH HTS TRANSFER SWITCH FUNCTION MONITORING
- AND CONTROL. CONTROL PANEL TO MEET REQUIREMENTS OF NFPA 99 AND
- WITH DIGITAL MICROPROCESSOR, FULL SYSTEM STATUS DISPLAY, PROGRAMMABLE INPUTS AND OUTPUTS, AND BUILT PLC FOR SPECIAL APPLICATIONS. INCLUDING ENGINE FUNCTION MONITORING AND CONTROL
- **AUTOMATIC TRANSFER SWITCH NOTES**
- ATS TO BE 800A, 208Y/120V, SERVICE ENTRANCE RATED 3-POLE, IN NEMA 1 ENCLOSURE. OPEN TRANSITION, WITH INPHASE TRANSFER.
- TO INCLUDE ATC-300+ MICROPROCESSOR BASED CONTROLS 4. ATS TO BE UL 1008 LISTED AND CSA CERTIFIED.

STANDBY GENERATOR NOTES

- GENERATOR IS STAND-BY ONLY AND NOT CODE REQUIRED. ALL REQUIRED LIFE SAFETY OF BUILDING, INCLUDING EGRESS LIGHTING AND EXIT SIGNS, ARE WIRED TO SEPERATE SYSTEMS GENERATOR TO BE MOUNTED ON MINIMUM 705 GALLON
- DIESEL SUBTANK, PER UL142 REQUIREMENT. GENERATOR RUN TIME AT FULL LOAD TO BE NO LESS THAN 48 HOURS. TO INCLUDE REMOTE EMERGENCY STOP SWITCH, AND 21
- LIGHT ANNUNCIATOR. TO BE INSTALLED NEAR ATS IN ELECTRICAL ROOM. GENERATOR AND ALL EXTERIOR EQUIPMENT TO BE 150MPH WIND LOAD CERTIFIED.

GENERATOR ENCLOSURE TO INCLUDE MANUFACTURER'S **ENCLOSURE HEATER TO** MAINTAIN TEMPERATURES ABOVE 40°F PER NFPA

COORDINATE EXACT OCATION OF NEW TRANSFORMER, GENERATOR, AND SERVICE DISCONNECT EXTERIOR TAP BOX WITH CIVIL, G.C., AND UTILITY.

EXIS SIGN 4 INVERTER "C1B" CALC FIXTURE QTY WATTAGE TOTAL 13 39 84 168 EXIT SIGN 3 12

INVERTER "C1A" CALC

WATTAGE TOTAL

FIXTURE

INVERTER "D1A" CALC FIXTURE | QTY | WATTAGE | TOTAL 38 152 EXIT SIGN TOTAL 164 INVERTER "D1B" CALC QTY | WATTAGE | TOTAL FIXTURE

EXIT SIGN

38

TOTAL 126

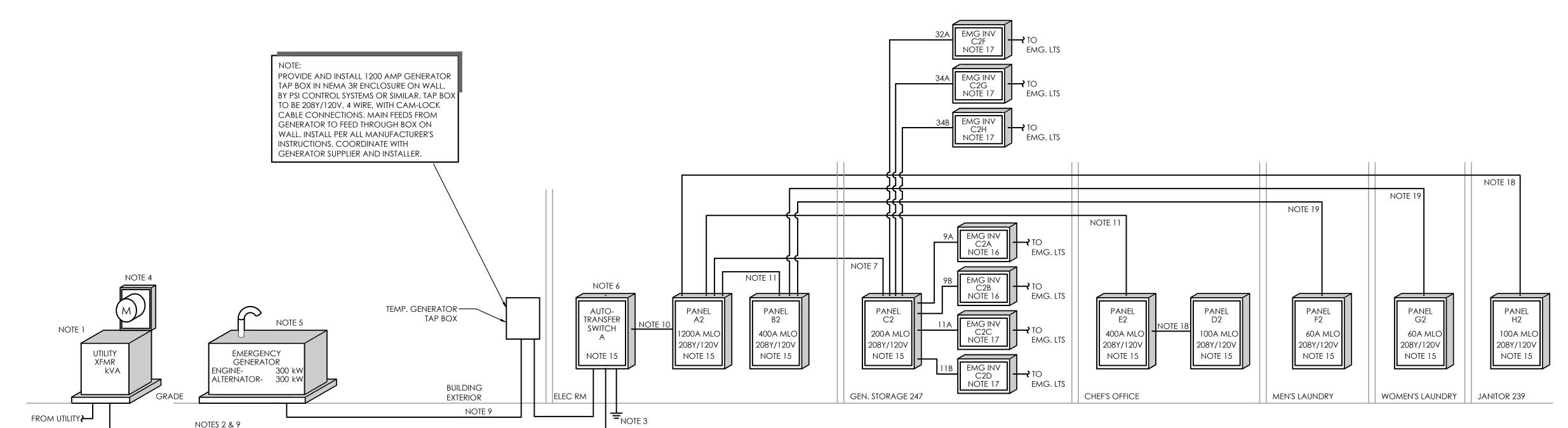
TOTAL 249 FIXTURE QTY WATTAGE TOTAL TOTAL 138 INVERTER "C1D" CALC FIXTURE QTY WATTAGE TOTAL

TOTAL 115

\ ELECTRICAL POWER RISER - ADMIN BUILDING

RISER DIAGRAM NOTES:

- PAD MOUNTED TRANSFORMER BY UTILITY. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK. 3. #2/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE
- GROUNDING ELECTRODE SYSTEM. 4. TRANSFORMER MOUNTED METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- 5. (4)#3/0 CU, #6 CU GND, 2" CONDUIT.
- 6. (4) 500 kcmil CU, #3 CU GND, 3" CONDUIT.
- 7. (2) SETS OF (4) 500 kcmil CU, 4" CONDUIT.
- 8. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24). 9. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- 10. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.
- 11. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION.
- 12. (4) #1 CU, #8 CU GND, 1 1/2" CONDUIT.
- 13. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION. 14. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-SM 125 WATT MODEL. SWITCHED INPUT. SEE
- DETAIL FOR MORE INFORMATION. 15. NEW 208V/3 PHASE 150KW DIESEL GENERATOR WITH STANDARD 150KW ALTERNATOR, 5.7L ENGINE, 10A BATTERY CHARGER,
- ENGINE COOLANT HEATER, INTEGRAL 800A MAIN CIRCUIT BREAKER FOR OVER CURRENT PROTECTION AND EQUIPMENT
- DISCONNECT, IN LEVEL 2 ACOUSTIC EXTERIOR ENCLOSURE. GENERATOR TO BE BE PER UL2200 AND EPA CERTIFIED. 16. NEW 800A 208Y/120V SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH. ATS TO SERVE AS MAIN SERVICE DISCONNECT. SEE BOX NOTES.
- 17. (2) SETS OF (4) 500 kcmil CU, 1/0 CU GND, 4" CONDUIT.



GENERATOR ENCLOSURE TO INCLUDE MANUFACTURER'S **ENCLOSURE HEATER TO** MAINTAIN TEMPERATURES ABOVE 40°F PER NFPA

COORDINATE EXACT LOCATION OF NEW TRANSFORMER, GENERATOR, AND SERVICE DISCONNECT EXTERIOR TAP BOX WITH CIVIL, G.C., AND UTILITY.

GENERATOR CONTROL PANEL NOTES

- GENERATOR CONTROL PANEL TO BE EQUAL TO GENERAC
- H-100. WITH HTS TRANSFER SWITCH FUNCTION MONITORING AND CONTROL. CONTROL PANEL TO MEET REQUIREMENTS OF NFPA 99 AND
- WITH DIGITAL MICROPROCESSOR, FULL SYSTEM STATUS DISPLAY, PROGRAMMABLE INPUTS AND OUTPUTS, AND BUILT II
- PLC FOR SPECIAL APPLICATIONS. INCLUDING ENGINE FUNCTION MONITORING AND CONTROL. AUTOMATIC TRANSFER SWITCH NOTES
- ATS TO BE 1200A, 208Y/120V, SERVICE ENTRANCE RATED 3-POLE, IN NEMA 1 ENCLOSURE.
- OPEN TRANSITION, WITH INPHASE TRANSFER. TO INCLUDE ATC-300+ MICROPROCESSOR BASED CONTROLS.
- 4. ATS TO BE UL 1008 LISTED AND CSA CERTIFIED. STANDBY GENERATOR NOTES
- GENERATOR IS STAND-BY ONLY AND NOT CODE REQUIRED. ALL REQUIRED LIFE SAFETY OF BUILDING, INCLUDING EGRESS LIGHTING AND EXIT SIGNS, ARE WIRED TO SEPERATE SYSTEMS.
- GENERATOR TO BE MOUNTED ON MINIMUM 1325 GALLON DIESEL SUBTANK, PER UL142 REQUIREMENT. GENERATOR RUN
- TIME AT FULL LOAD TO BE NO LESS THAN 48 HOURS. . TO INCLUDE REMOTE EMERGENCY STOP SWITCH, AND 21
- LIGHT ANNUNCIATOR. TO BE INSTALLED NEAR ATS IN
- ELECTRICAL ROOM. GENERATOR AND ALL EXTERIOR EQUIPMENT TO BE 150MPH WIND LOAD CERTIFIED.

ELECTRICAL POWER RISER - DINING/SHELTER/STORAGE BUILDING NO SCALE

RISER DIAGRAM NOTES 1. PAD MOUNTED TRANSFORMER BY UTILITY.

- 2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/
- UTILITY BEFORE BEGINNING WORK.
- 3. #3/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM. 4. TRANSFORMER MOUNTED METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.

5. NEW 208V/3 PHASE 300KW DIESEL GENERATOR WITH STANDARD 300KW ALTERNATOR, 10.7L

ENGINE, 10A BATTERY CHARGER, ENGINE COOLANT HEATER, INTEGRAL 1200A MAIN CIRCUIT

BREAKER FOR OVER CURRENT PROTECTION AND EQUIPMENT DISCONNECT, IN LEVEL 2 ACOUSTIC

- EXTERIOR ENCLOSURE. GENERATOR TO BE BE PER UL2200 AND EPA CERTIFIED. 6. NEW 1200A 208Y/120V, 3-POLE SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH. ATS
- TO SERVE AS MAIN SERVICE DISCONNECT. SEE BOX NOTES. 7. (4)#3/0 CU, #6 CU GND, 2" CONDUIT.
- 8. NOT USED.
- 9. (4) SETS OF (4) 350 kcmil CU, 3" CONDUIT. 10. (4) SETS OF (4) 350 kcmil CU, #3/0 CU GND, 3" CONDUIT.
- 11. (4) 500 kcmil CU, #3 CU GND, 3" CONDUIT.
- 12. PROVIDE PLACARD AT PANEL(\$)/DISCONNECT(\$) INDICATING PANEL SERVED. 13. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- 14. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16) 15. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON
- 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED
- BREAKERS/FUSES. 16. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION.
- 17. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-I 375 WATT
- MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION. 18. (4)#1 CU, #8 CU GND, 1 1/2" CONDUIT.
- 19. (4)#4CU, #10 CU GND, 1 1/4" CONDUIT.

FIXTURE	QTY	WATTAGE	TOTAL	F
Hl	2	27	54	
A4	4	30	120	
C4	2	13	26	
E4	1	30	30	
U2	1	48	48	I
EXIT SIGN	7	3	21	I
		TOTAL	299	F
INVER	TER '	'C2B'' C	CALC	
FIXTURE	QTY	WATTAGE	TOTAL	
C4	2	13	26	11
A4	8	30	240	11
EXIT SIGN	7	3	21	F
		TOTAL	287	
INVER	TER "	C2C" (CALC	
FIXTURE	QTY	WATTAGE	TOTAL	11
01	2	9	18	H
V	2	21	42	F
P1	4	12	48	·
		TOTAL	108	
			-	

INVERTER "C2A" CALC

INVERTER "C2D" CALC			
FIXTURE	QTY	WATTAGE	TOTAL
01	1	9	9
V	3	21	63
P1	4	12	48
TOTAL 120			120
INVERTER "C2F" CALC			
FIXTURE	QTY	WATTAGE	TOTAL
P1	4	12	48
R1	3	100	300
		TOTAL	348
INVERTER "C2G" CALC			
FIXTURE	QTY	WATTAGE	TOTAL
P1	3	12	36
R1	3	100	300
		TOTAL	336
INVERTER "C2H" CALC			
FIXTURE	QTY	WATTAGE	TOTAL
P1	4	12	48
R1	3	100	300
TOTAL			348

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RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797

PLUMBING MECHANICAL ELECTRICAL

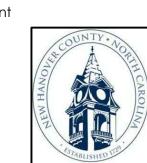
THE HEALING PLACE OF

NEW HANOVER COUNTY

WILMINGTON, NORTH CAROLINA

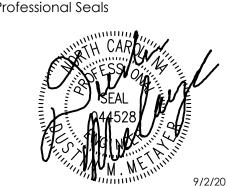
1000 MEDICAL CENTER DRIVE

708 ST. MARYS ST



NEW HANOVER COUNTY NORTH CAROLINA

SITE PLAN



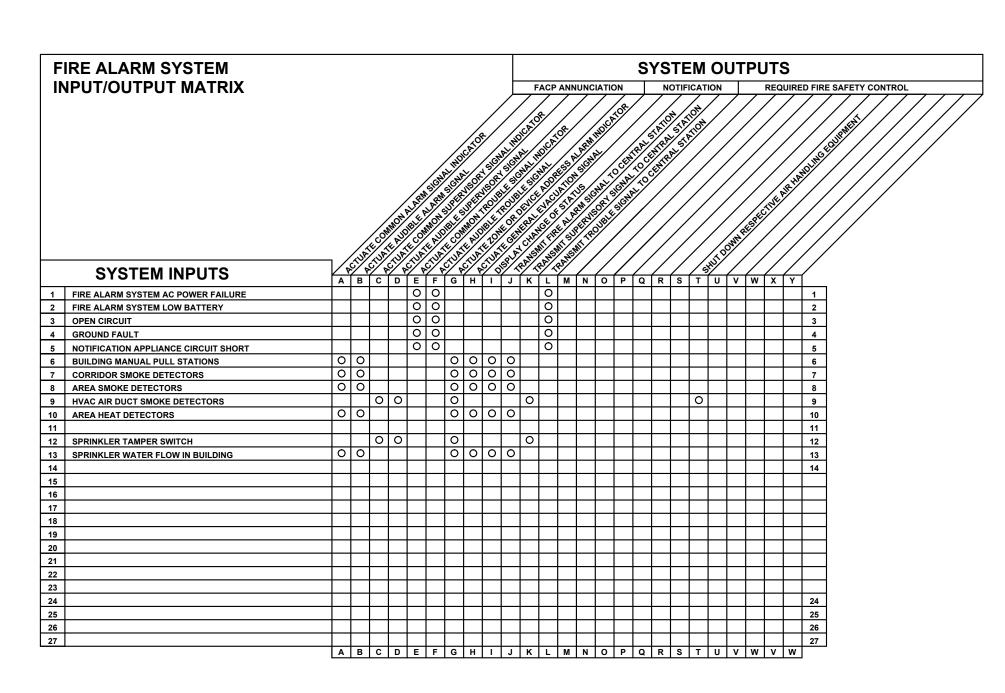
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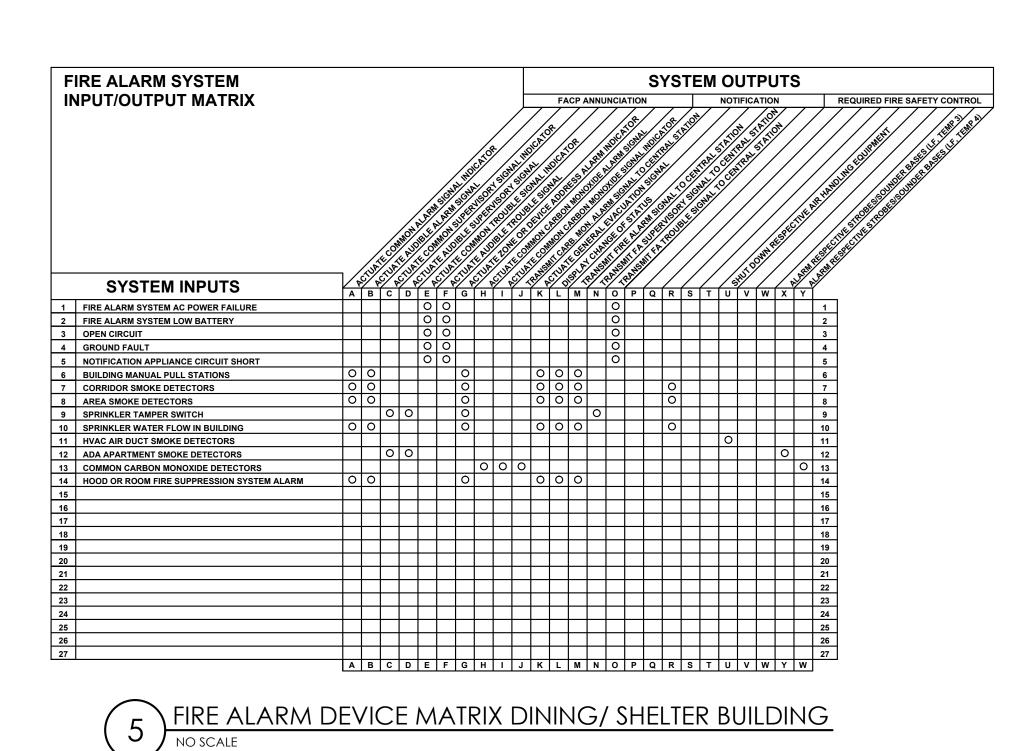
ADMIN AND DINING BUILDING ELECTRICAL RISERS

Sheet Number

E206



FIRE ALARM DEVICE MATRIX ADMIN BUILDING



NOTE 3 R NOTIFICATION DEVICES ANNUNCIATOR PANEL SPRINKLER BELL(S) RISER IS TYPICAL OF (4) BUILDINGS. NOT ALL DEVICES ON RISER ARE 4 H A

BACK FLOW FIRE SMOKE PULL STATIONS SPRINKLER RISER

PREVENTER DAMPERS

RISER NOTES:

1. FIRE ALARM CONTROL PANEL TO BE EQUAL TO FIRE-LITE MS9200UDLS W/ FIRE-LITE IPGSM-4G DIGITAL CELLULAR FIRE COMMUNICATOR W/ BATTERY BACK-UP (POWER AND TELECOM LINES FOR DEVICE MUST BE IN CONDUIT. SEE MANUFACTURER'S INSTRUCTIONS) AND ANN-80 ANNUNCIATOR PANEL. PROVIDE FCPS24-FS8 POWER SUPPLIES AS REQUIRED.

2. ENSURE ALL DEVICES/APPLIANCES USED ARE COMPATIBLE WITH FACP. PROVIDE ALL PROGRAMMING AND FINAL CONNECTION BY A FACTORY TRAINED TECHNICIAN.

EMG. RESPONDER RADIO

IF DEEMED REQUIRED BY THE LOCAL AHJ THIS PROJECT WILL REQUIRE A BI-DIRECTIONAL EMERGENCY RADIO AMPLIFIER SYSTEM DESIGNED

INSTALLED & TESTED PER SECTION 510 OF THE 2018 NC FIRE CODE AND

IF INSTALLED THE FIRE ALARM SYSTEM SHALL BE DESIGNED TO MONITOR

THE STATUS OF THE ABOVE SYSTEM PER THE REQUIREMENTS OF NFPA

BEFORE PURCHASING ANY SYSTEM COMPONENTS THE CONTRACTOR

IS TO PROVIDE A FULL SUBMITTAL AND SHOP DRAWING PACKAGE OF THE ABOVE SYSTEM TO THE ENGINEER OF RECORD FOR APPROVAL.

NEW HANOVER COUNTY, PLEASE PROVIDE DIRECTION DURING PLAN

REVIEW AS TO WHETHER THIS PROJECT WILL NEED TO MEET TH REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.

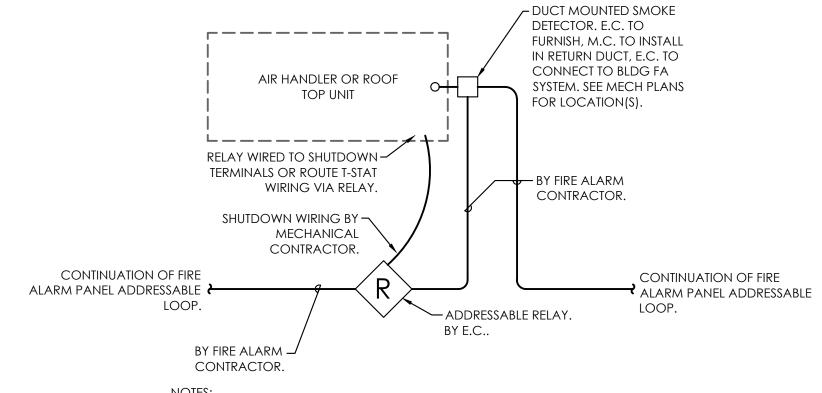
APPLICABLE SECTIONS OF NFPA 72-2013.

72-2013.

3. RELAYS FOR SMOKE DAMPERS AND HVAC SHUT DOWN. SEE PLANS.

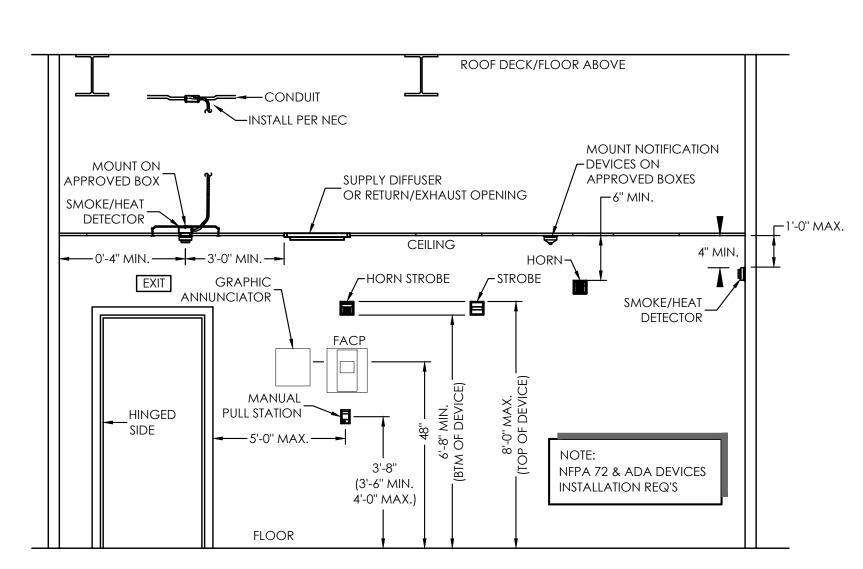
FIRE ALARM RISER DIAGRAM

NOTIFICATION DEVICES IN SLEEPING AREAS ARE TO BE LOW FREQUENCY TYPE

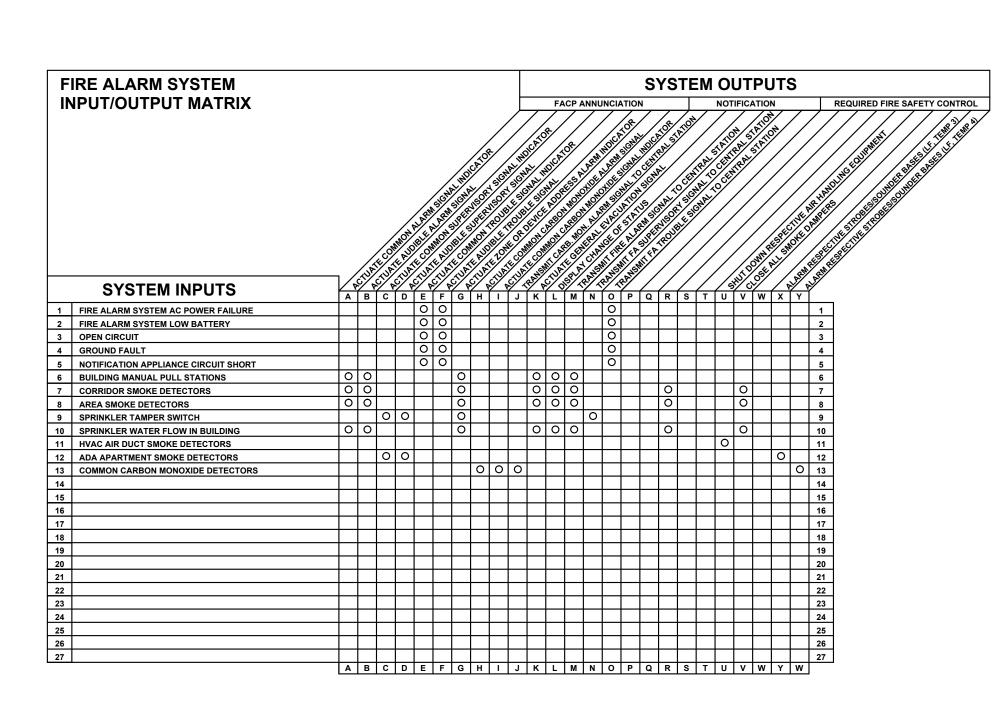


1. UPON DETECTION OF SMOKE, DUCT MOUNTED SMOKE DETECTOR IS TO ACTIVATE 2. AIR HANDLERS ARE TO SHUT DOWN UPON ACTIVATION OF BUILDING FIRE ALARM SYSTEM.

HVAC UNIT DUCT DETECTOR/SHUTDOWN DETAIL



\ FIRE ALARM DEVICE LOCATIONS



FIRE ALARM DEVICE MATRIX DETOX BUILDING

FIRE ALARM SYSTEM SYSTEM OUTPUTS INPUT/OUTPUT MATRIX SYSTEM INPUTS FIRE ALARM SYSTEM AC POWER FAILURE FIRE ALARM SYSTEM LOW BATTERY 3 OPEN CIRCUIT 4 GROUND FAULT NOTIFICATION APPLIANCE CIRCUIT SHORT BUILDING MANUAL PULL STATIONS CORRIDOR SMOKE DETECTORS AREA SMOKE DETECTORS 9 SPRINKLER TAMPER SWITCH 0 SPRINKLER WATER FLOW IN BUILDING HVAC AIR DUCT SMOKE DETECTORS 12 ADA APARTMENT SMOKE DETECTORS 19 20 21 24 25 A B C D E F G H I J K L M N O P Q R S T U V W Y W FIRE ALARM DEVICE MATRIX RESIDENTIAL BUILDINGS

PRESENT IN ALL BUILDING

GENERAL FIRE ALARM NOTES

THE FIRE ALARM CONTRACTOR IS TO BE HELD TO THE SAME REQUIREMENTS AS THE ELECTRICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND ELECTRICAL "GENERAL NOTES" BEFORE COMPLETING BID.

FIRE ALARM CONTRACTOR IS TO PROVIDE FIRE ALARM SHOP DRAWINGS INCLUDING DEVICE CUTSHEETS, BATTERY & VOLTAGE DROP CALCULATIONS, AND WIRING LAYOUT TO LOCAL AHJ PRIOR TO BEGINNING WORK.

AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND PRESSURE LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, AT ALL LOCATIONS WITHIN THE OCCUPIABLE SPACE (TYPICAL AVERAGE AMBIENT SOUND PRESSURE LEVELS ARE GIVEN IN NFPA 72 TABLE A.18.4.3). THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 75 dBA IN OCCUPANCY GROUPS R AND I-1, 90 dBA IN MECHANICAL EQUIPMENT ROOMS, AND 60 dBA IN ALL OTHER OCCUPANCIES. THE MAXIMUM SOUND PRESSURE LEVEL SHALL BE 110 dBA AT THE MINIMUM HEARING DISTANCE FROM ANY AUDIBLE APPLIANCE.

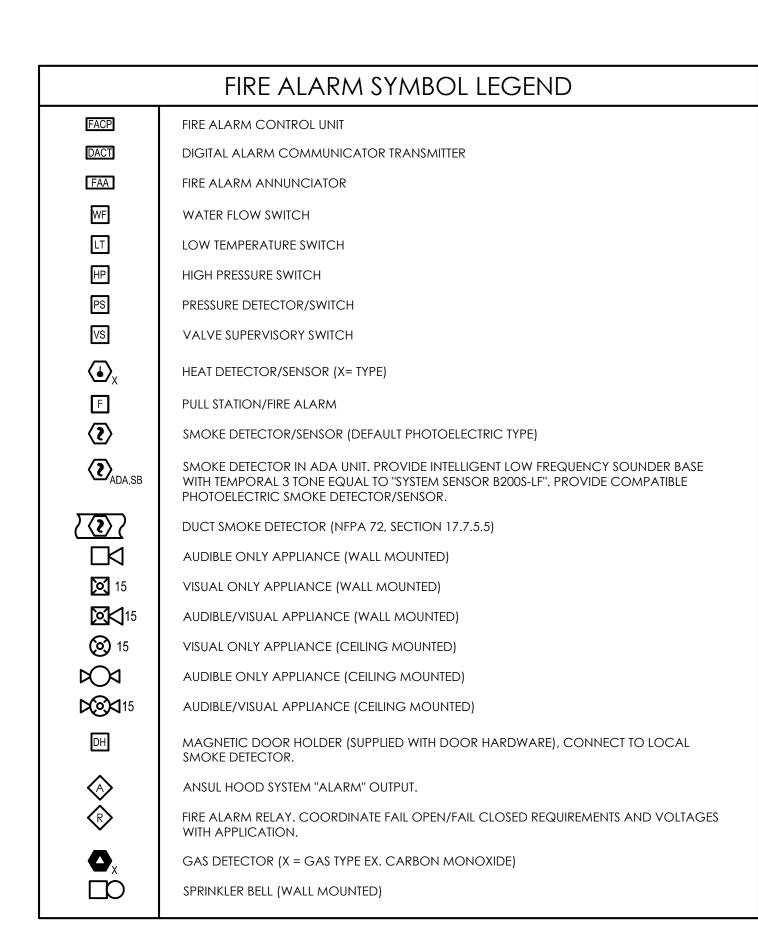
4. IF THREE OR MORE FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCES ARE LOCATED WITHIN AN OBSERVERS FIELD OF VIEW (135°) AND WITHIN 55'-0" OF THE OBSERVER, THEN THE DEVICES SHALL BE SYNCHRONIZED.

FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND 'ADA'.

ALL FIRE ALARM WIRING SHALL BE IN CONDUIT OR AS ALLOWED BY NEC OR LOCAL AHJ.

ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE ALARM LAYOUT PLAN AT THE FACP.

TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.



Raleigh, North Carolina 27604 www.isdesignpa.com MAPLE ENGINEERING, PLLC 708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797 PLUMBING MECHANICAL ELECTRICAL

THE HEALING PLACE OF NEW HANOVER COUNT 1000 MEDICAL CENTER DRIVE WILMINGTON, NORTH CAROLINA



NEW HANOVER COUNTY NORTH CAROLINA

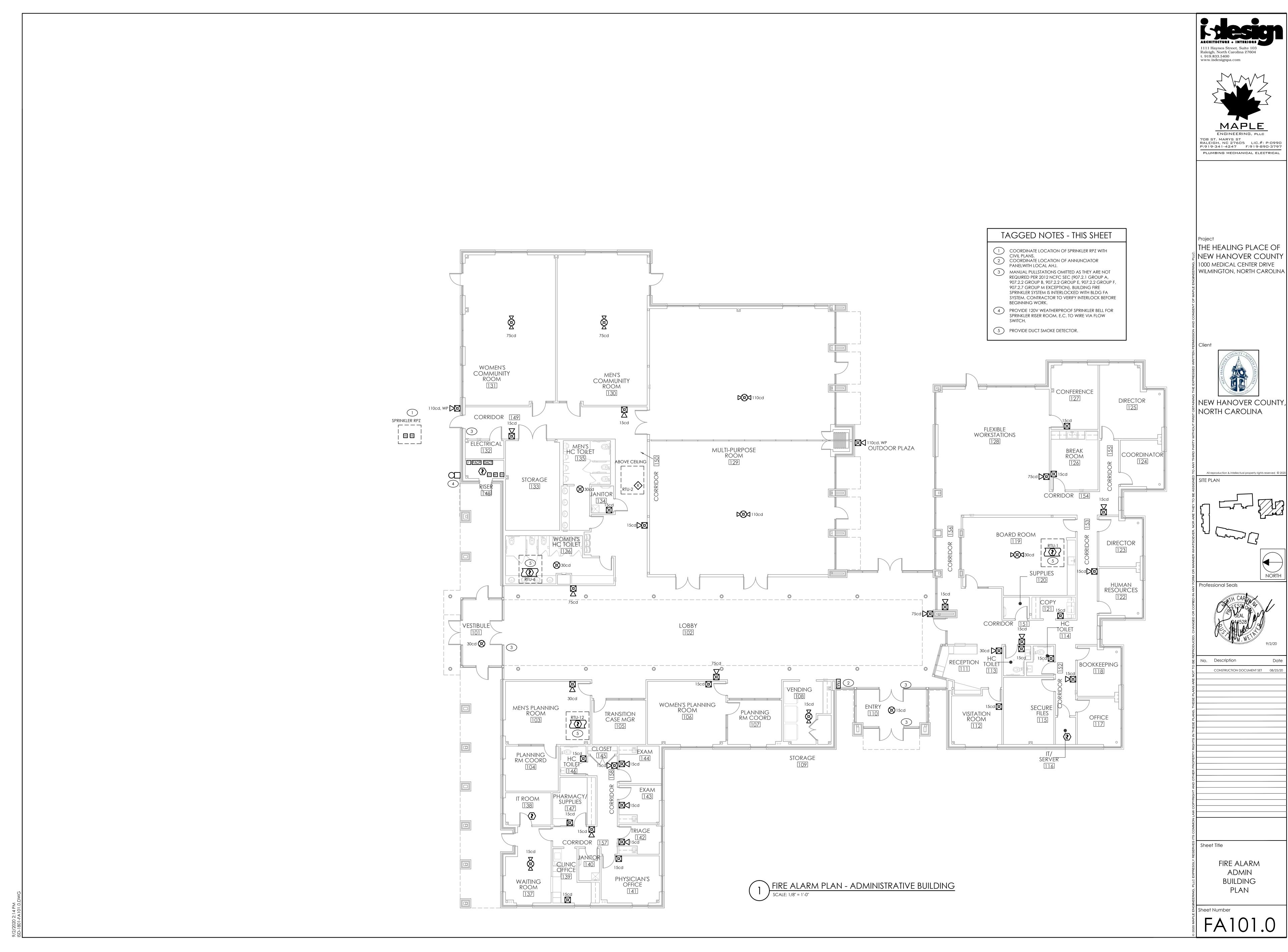


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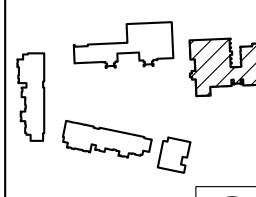
Sheet Title

FIRE ALARM **SCHEDULES** AND NOTES

heet Number FA001



NEW HANOVER COUNTY WILMINGTON, NORTH CAROLINA



NORTH

