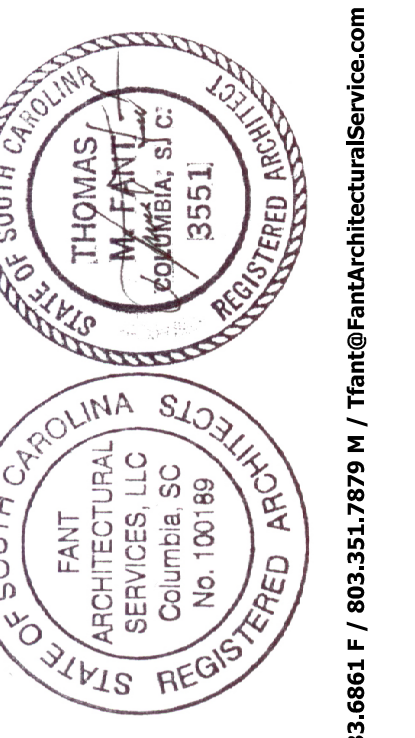


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| | |
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| Job Number | K077 |
| Drawn by | Inf |
| File name | 10/17/17 |
| Plot name | 10/17/17 |
| Plotted on | 2/20/2018 |
| Drawing date | 2/17/2018 |
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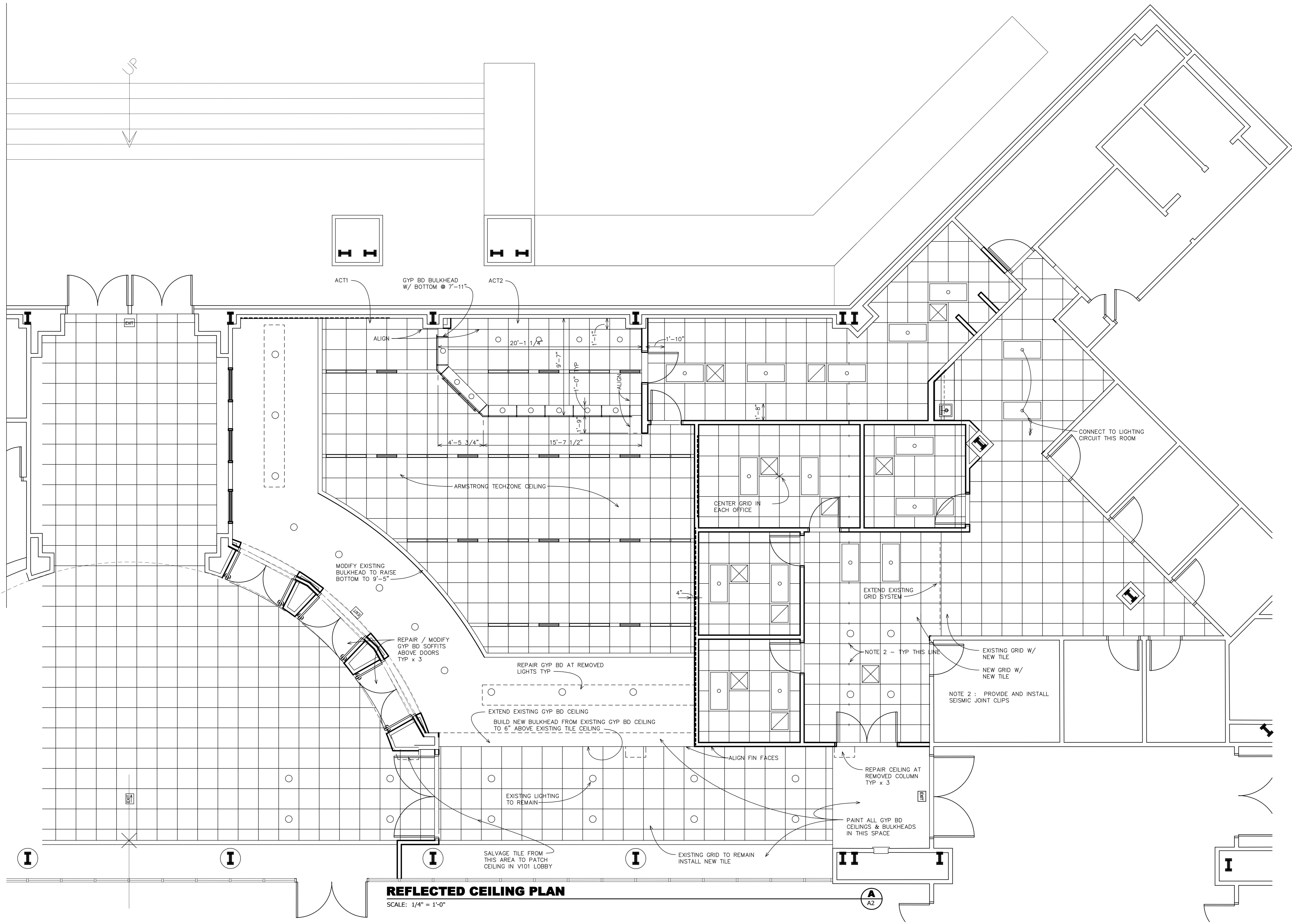
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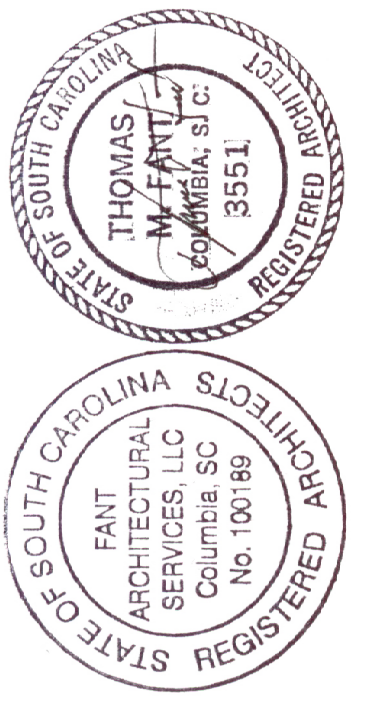


REFLECTED CEILING PLAN

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

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|----------------|-----------|
| Job Number: | 1677 |
| Drawn by: | Inf |
| File name: | 1677.rvt |
| Plotfile name: | 1677.rvt |
| Plotted on: | 2/20/2018 |
| Drawing date: | 2/1/2018 |
| REV | ▲▲▲▲ |

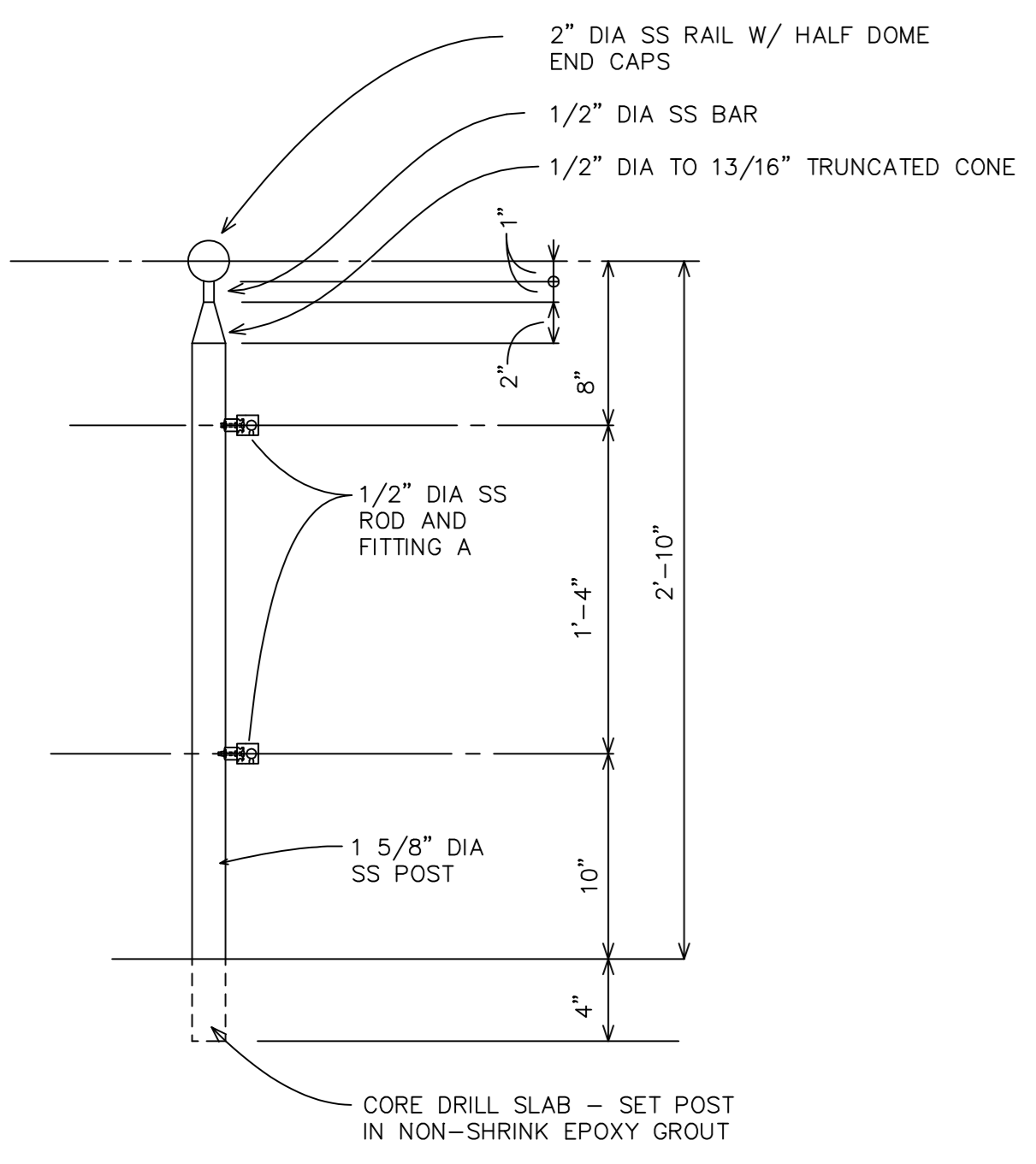
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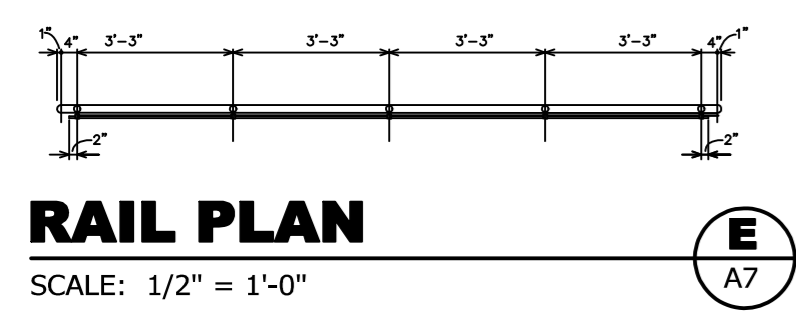
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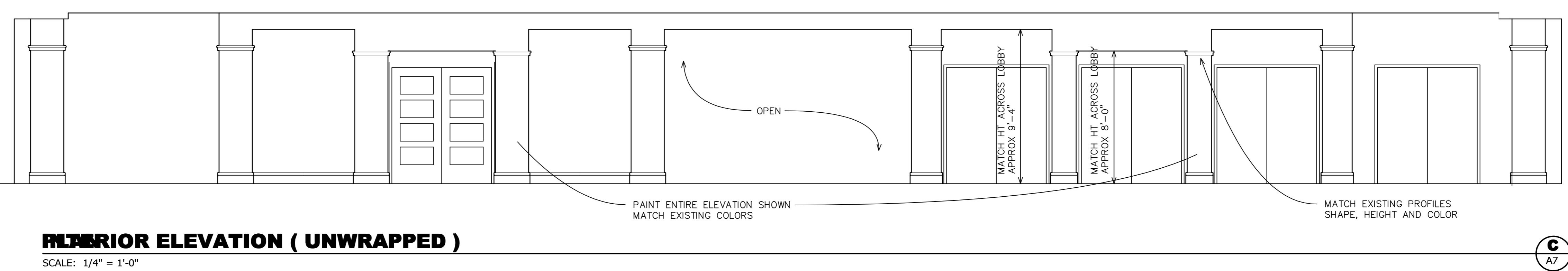


RAIL SECTION
SCALE: 1 1/2" = 1'-0"

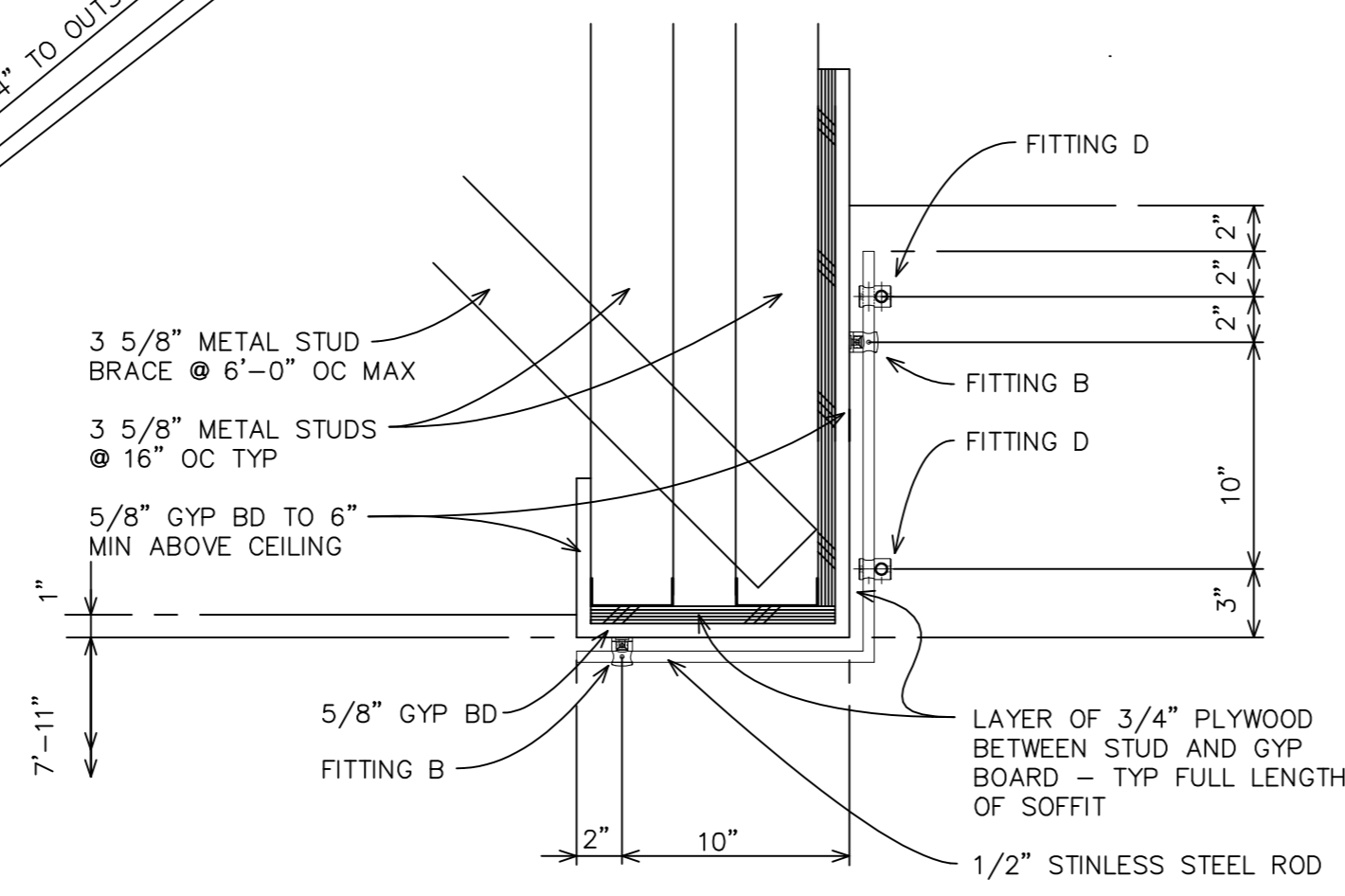


RAIL PLAN
SCALE: 1/2" = 1'-0"

PLAN DETAIL
SCALE: 3/4" = 1'-0"



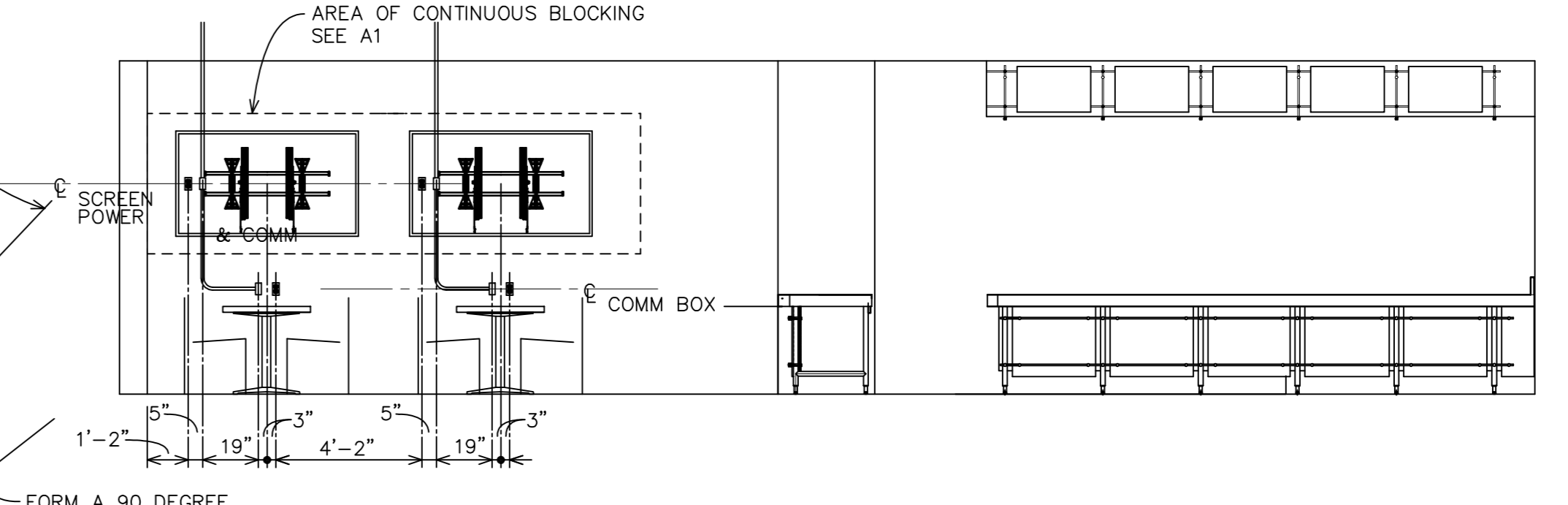
INTERIOR ELEVATION (UNWRAPPED)
SCALE: 1/4" = 1'-0"



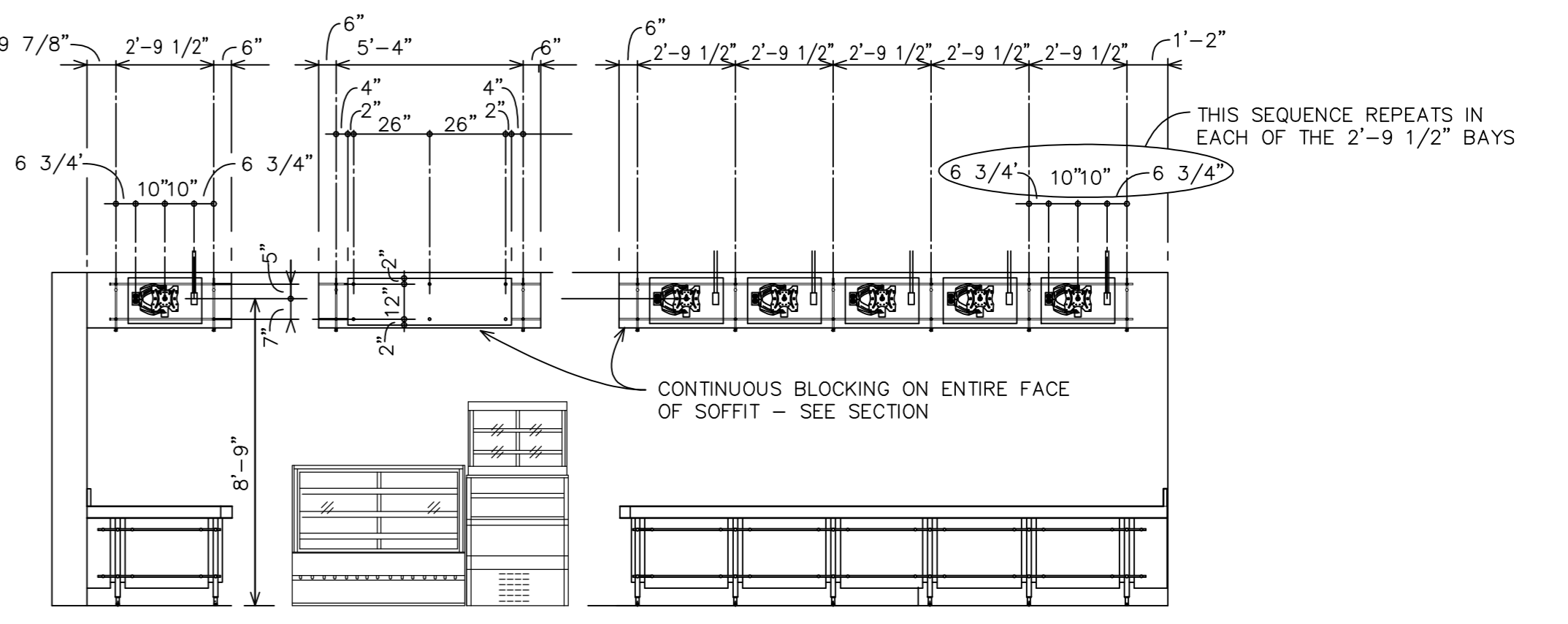
SOFFIT SECTION
SCALE: 1/4" = 1'-0"

ESTABLISH ALL WALL POSITIONS FIRST WITH DIMENSIONS PROVIDED - BUILD WALL TYPE 5 FIRST TO PROVIDE REQ'D RATING THEN BUILD WALL TYPE 3 TO WALL TYPE 5

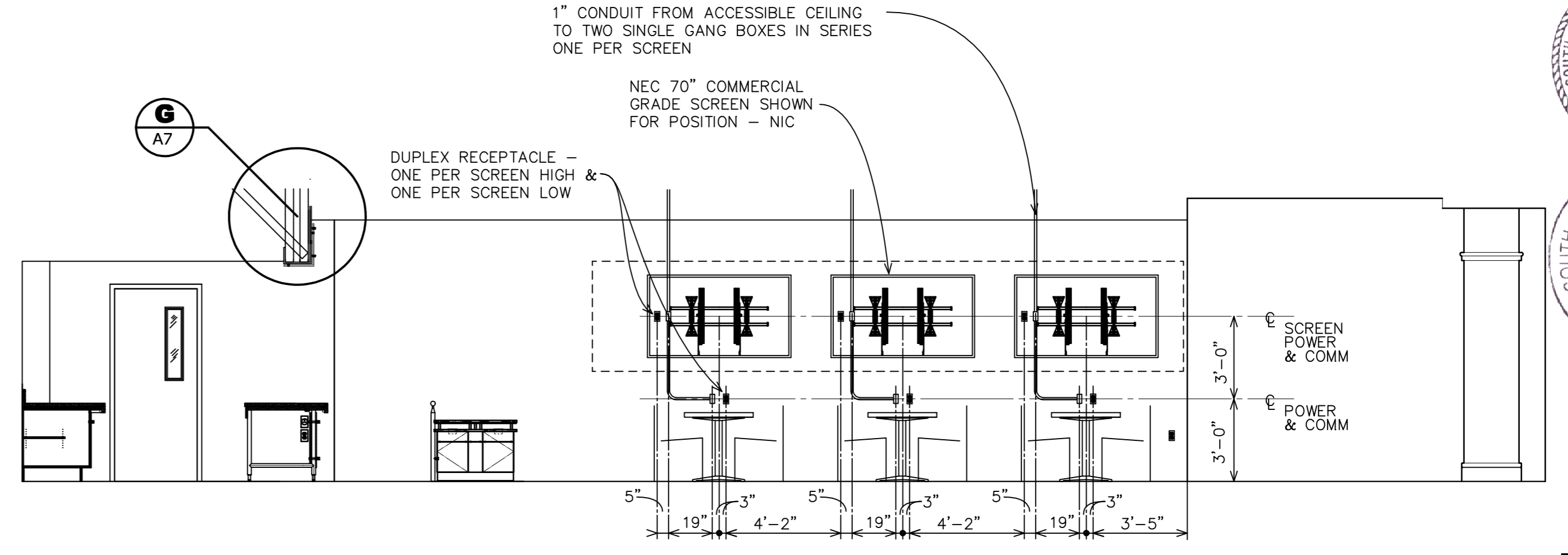
CONTROL LINE CL1 - SEE A1 TO ESTABLISH
INFORMATION PROVIDED ON WALL TYPES AND DIMENSIONS SYMMETRICAL ABOUT CL1
31'-4" TO OUTSIDE FACE OF STUD
DIMENSION D1 - SEE A1 TO ESTABLISH



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



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



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

| | |
|------------|-------------------|
| Job Number | 1077 |
| Drawn by | Inf |
| File name | 1077.rvt |
| Plot date | 2/1/2018 |
| Plot time | 2:50:20 PM |
| Plotter | HP DesignJet T120 |
| Plot size | 11x17 |
| Plot scale | 1/4" = 1'-0" |
| Plotter | HP DesignJet T120 |

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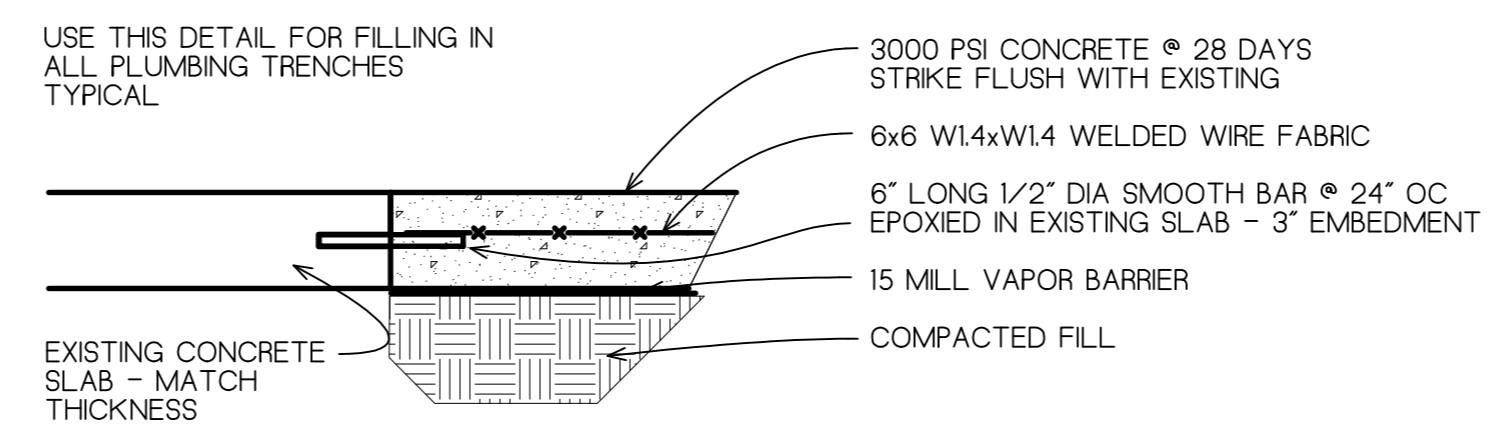


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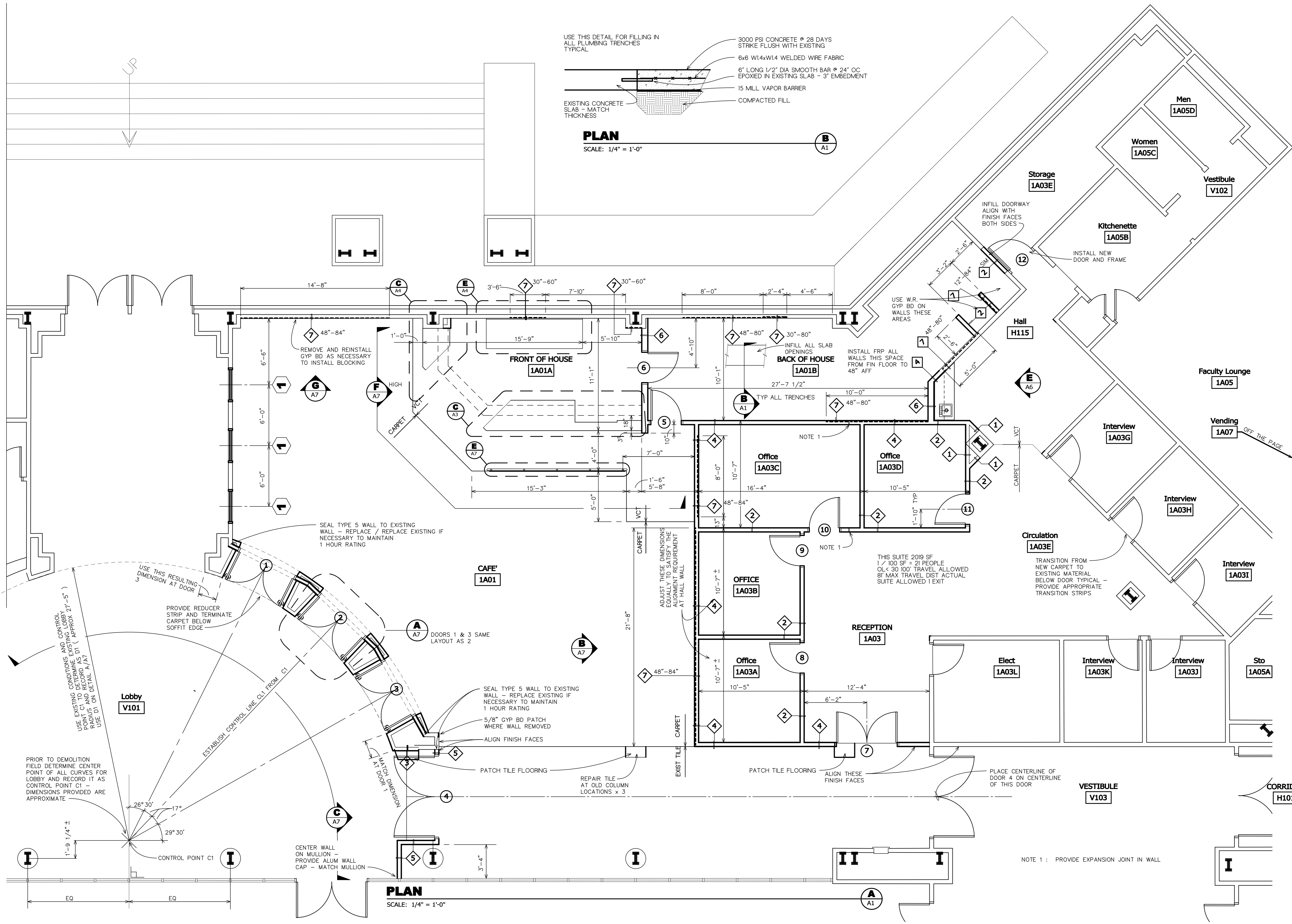
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PLAN

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

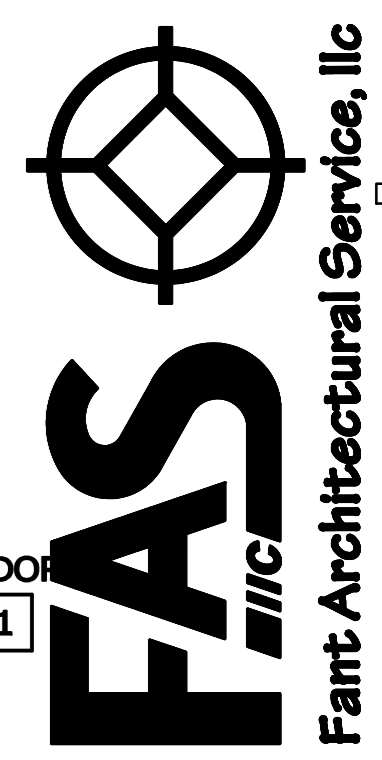
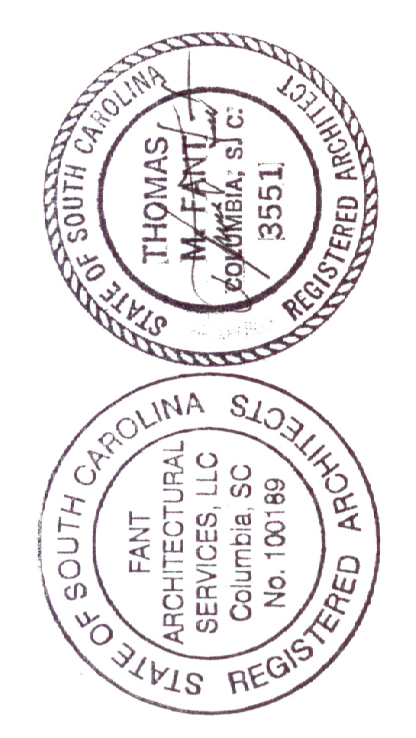


PLAN

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

| | |
|--------------|-----------|
| Job Number | 1677 |
| Drawn by | Inf |
| File name | 1677.dwg |
| Plotted on | 2/20/2018 |
| Drawing date | 2/1/2018 |

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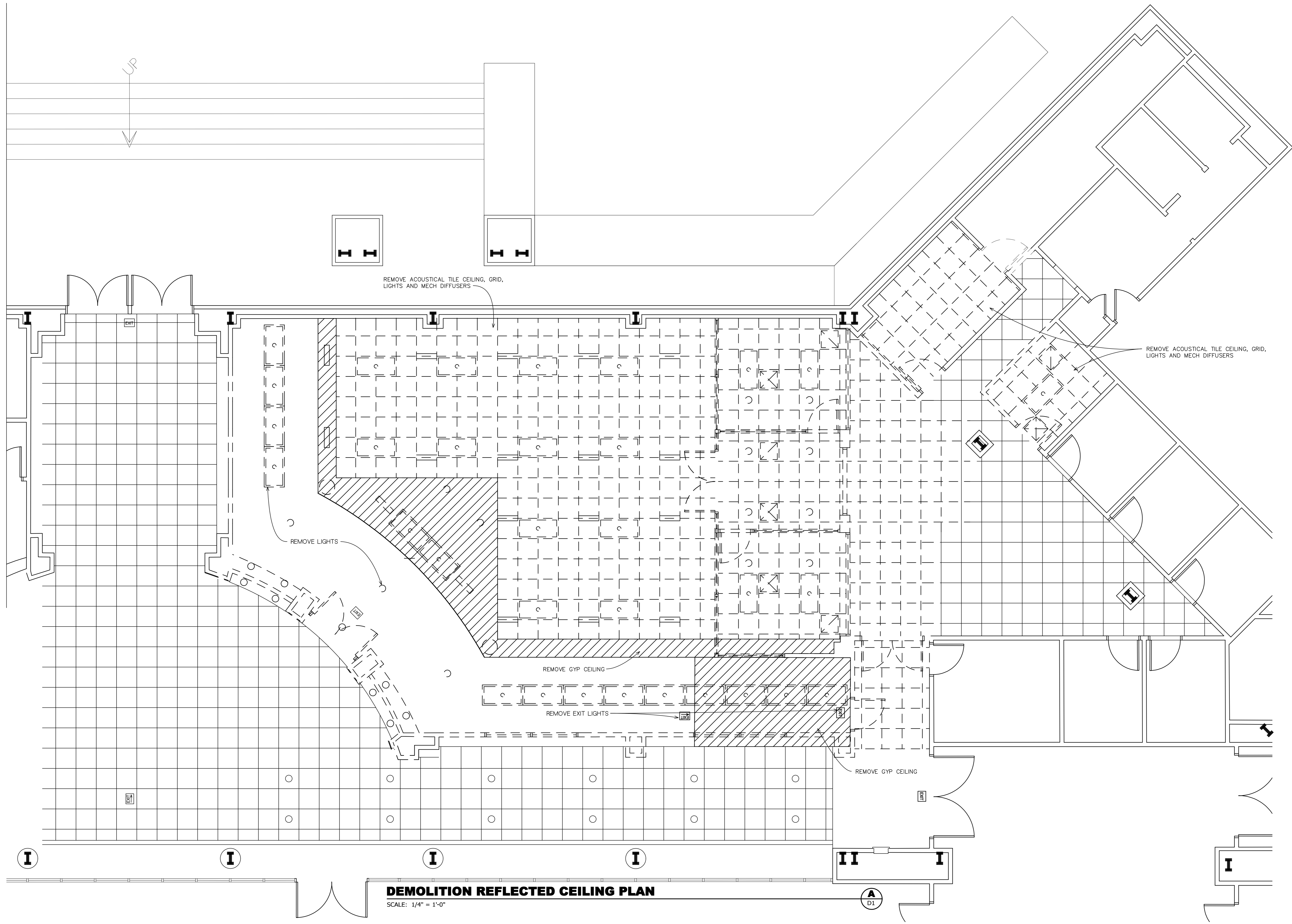
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| Sheet | A1 |
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NOTE 1 : PROVIDE EXPANSION JOINT IN WALL

EXTERIOR WALKWAY

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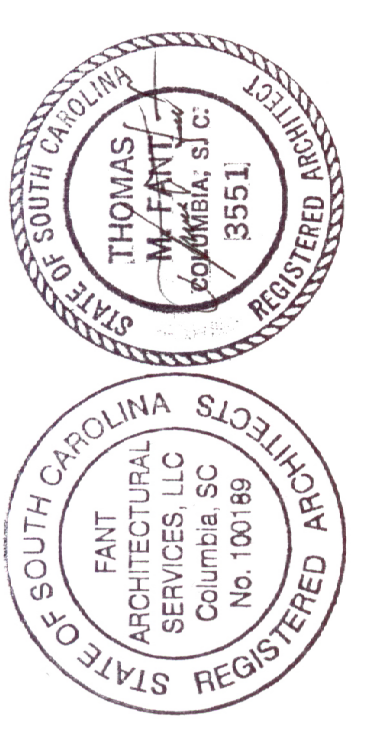
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DEMOLITION REFLECTED CEILING PLAN
 SCALE: 1/4" = 1'-0"

| | |
|-------------------|--|
| Job Number: | 1677 |
| Drawn by: | Inf |
| File name: | 1677.rvt |
| Plot date: | 2/20/2018 |
| Plot time: | 2:17:20 PM |
| Plot by: | Inf |
| Plot scale: | 1/4" = 1'-0" |
| Plot path: | C:\Users\Inf\AppData\Local\Temp\1677.rvt |
| Plot size: | 11x17 |
| Plot orientation: | Portrait |
| Plot color: | Black |
| Plot resolution: | 300 dpi |
| Plot printer: | HP DesignJet T1100 |

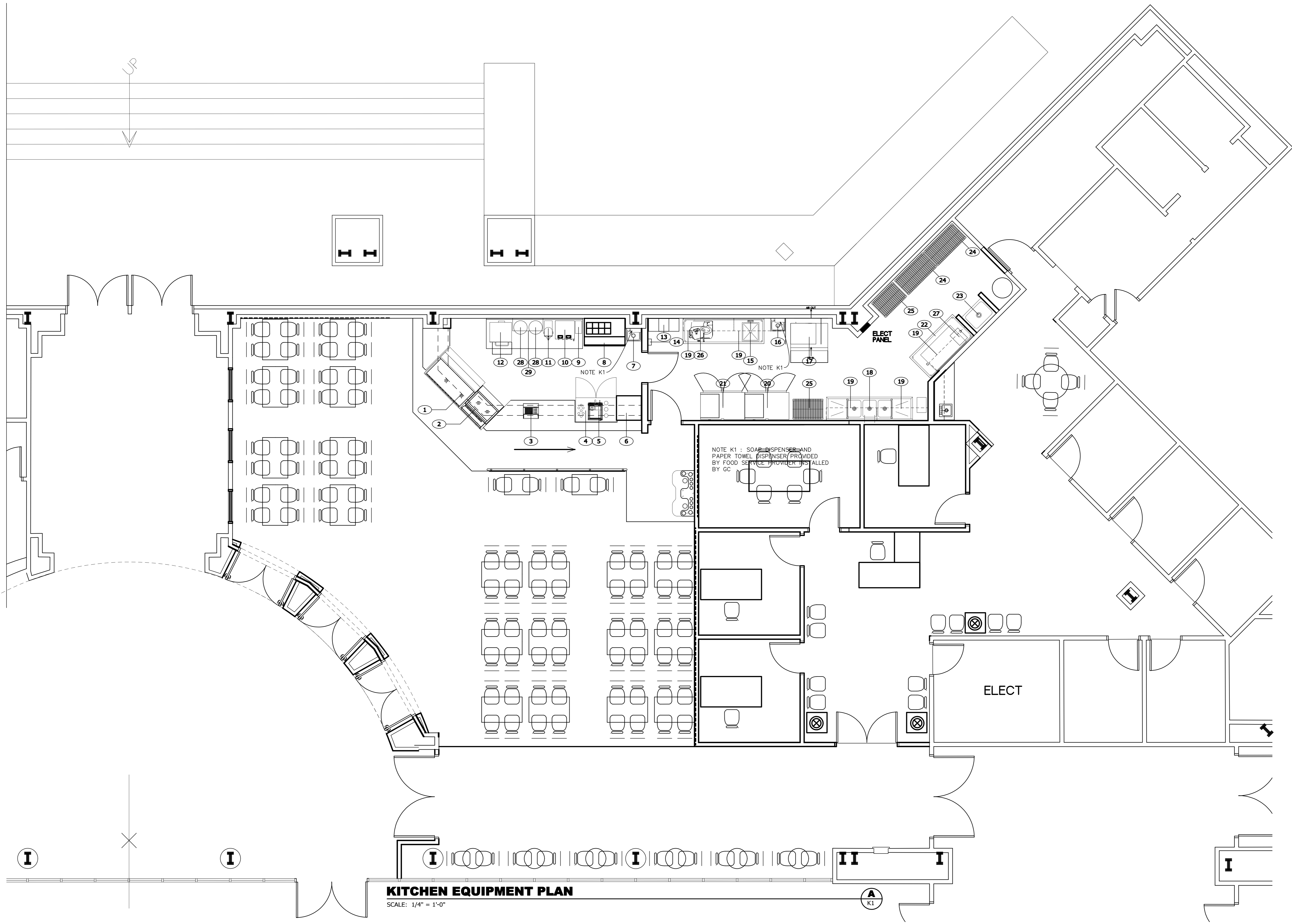
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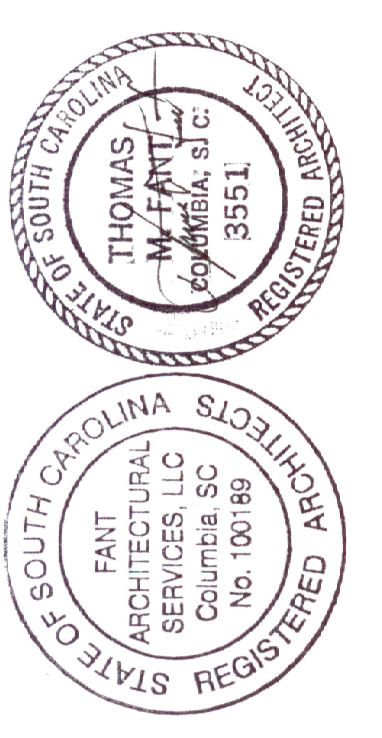
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KITCHEN EQUIPMENT PLAN
 SCALE: 1/4" = 1'-0"

| | |
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| Job Number: | K177 |
| Drawn by: | Inf |
| File name: | 16171 |
| Plot name: | 16171.dwg |
| Plotted on: | 2/20/2018 |
| Drawing date: | 2/1/2018 |
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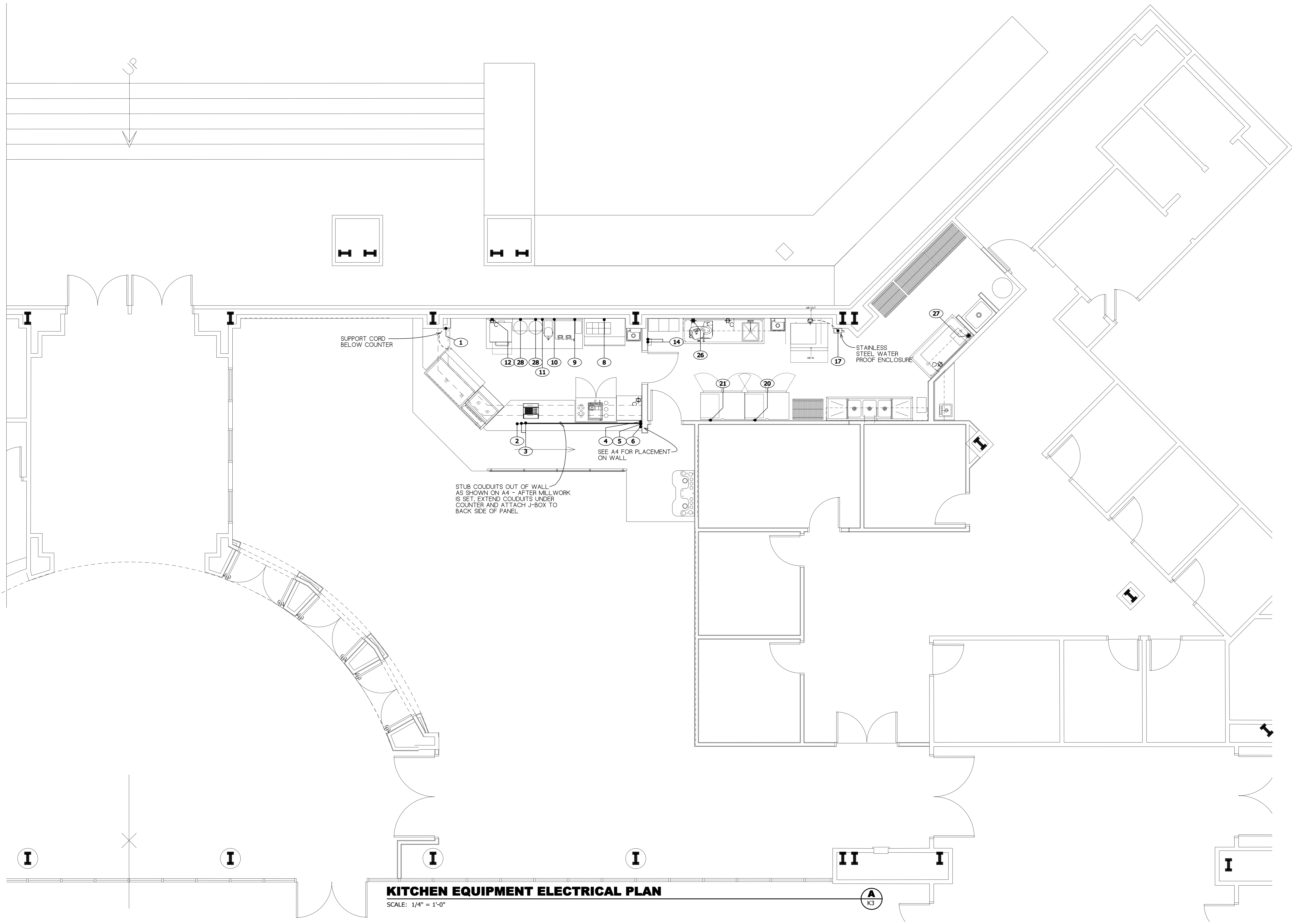


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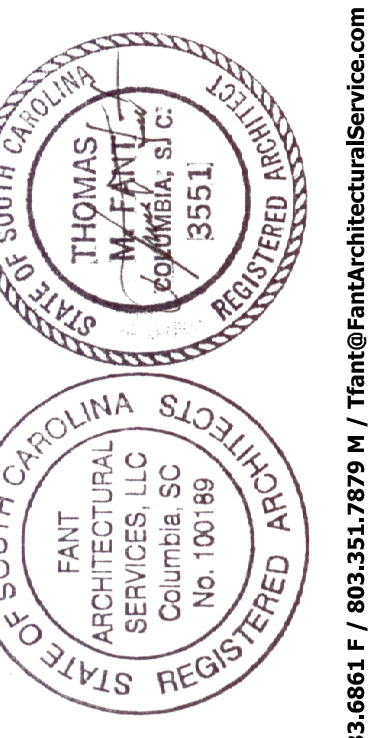
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| Drawn by: | Inf |
| File name: | K477.dwg |
| Plotted on: | 2/20/2018 |
| Drawing date: | 2/1/2018 |
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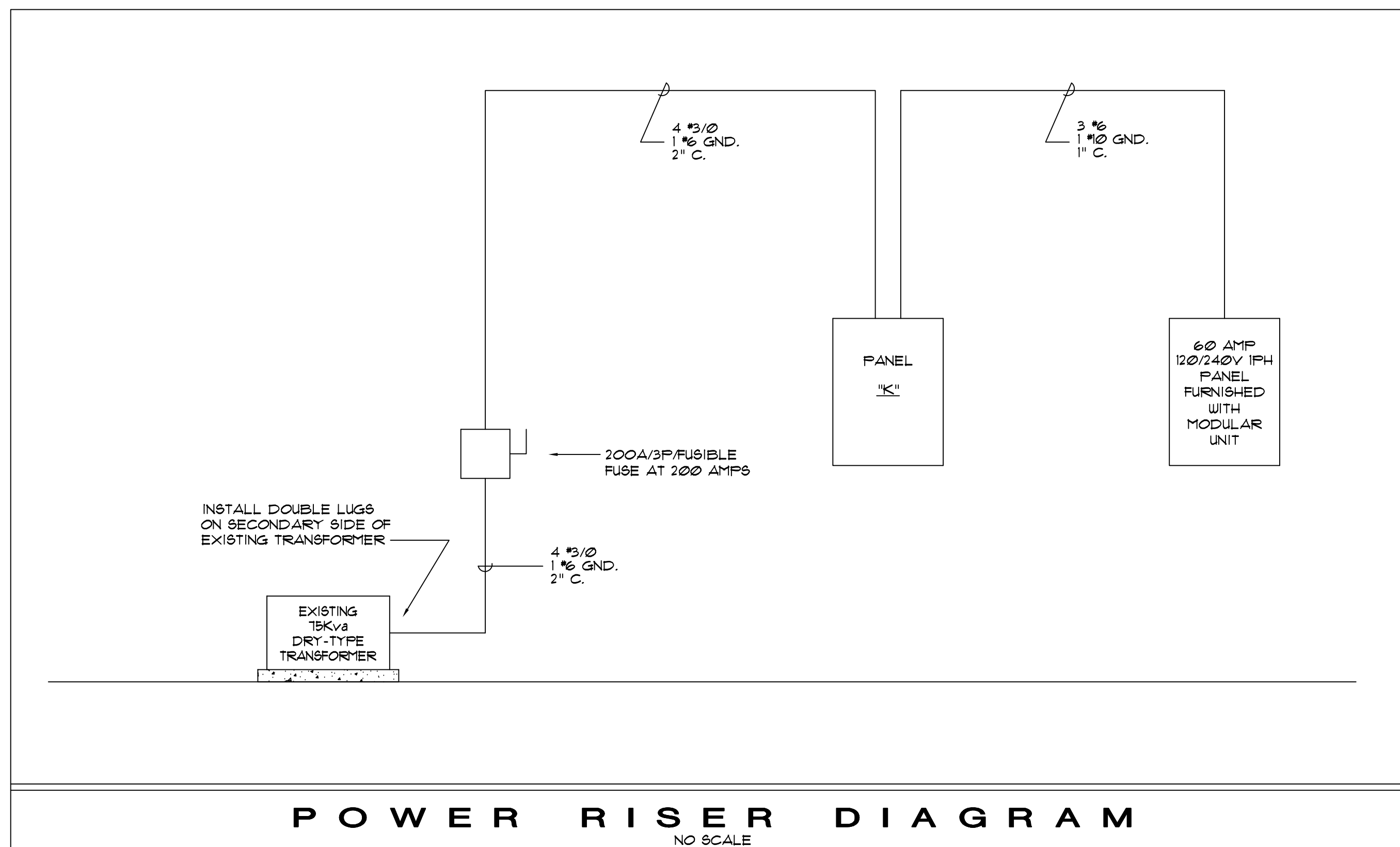
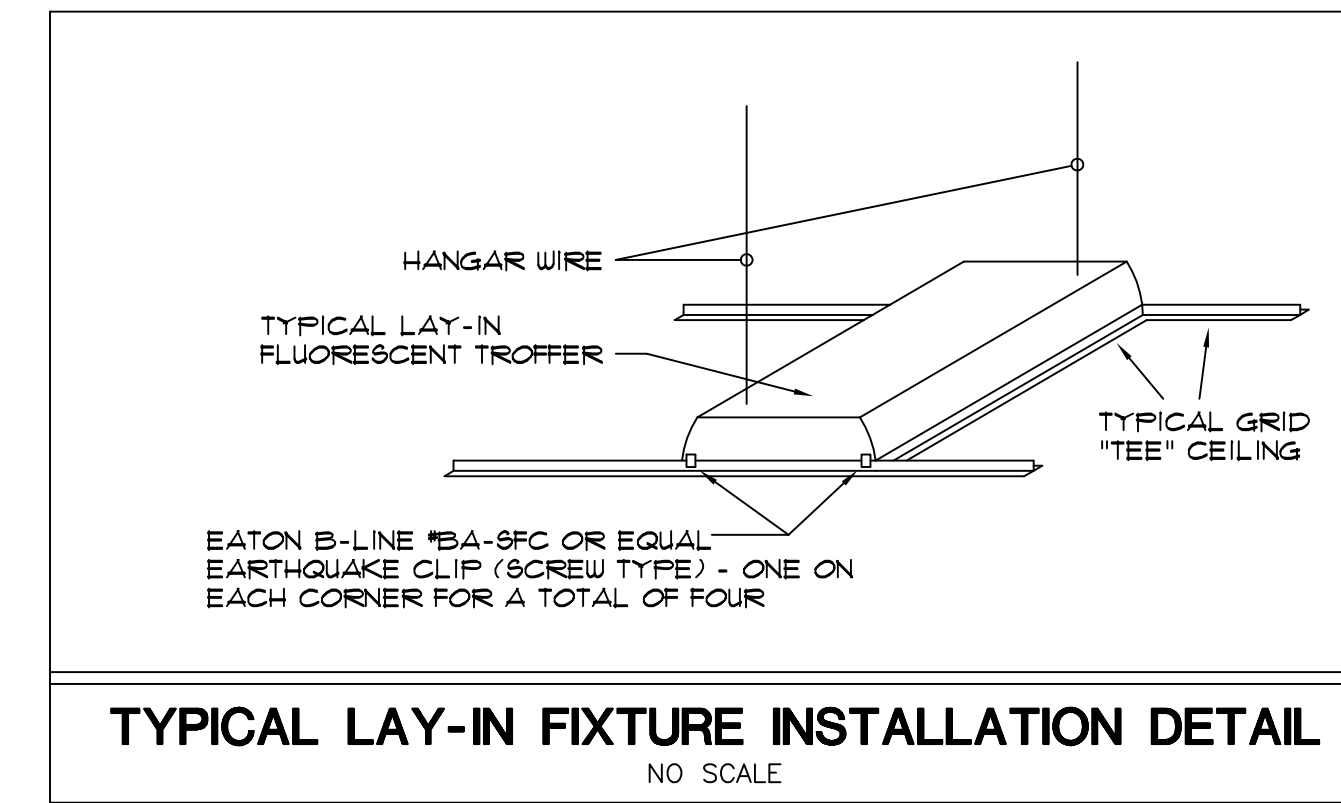
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| Sheet | K4 |
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| ELECTRICAL SYMBOLS | |
|--------------------|--|
| SYMBOL | DESCRIPTION |
| • | ROUND RECESSED LED LIGHTING FIXTURE. COOPER #LD6B-30-D010-TE-EU6B-3030-2035-6LBM01 |
| — | LINEAR RECESSED LED LIGHTING FIXTURE FOR ARMSTRONG TECHZONE CEILING CORELITE #R6-W-L-1-L35-1-C-UNV-4-TI |
| • | 2X4 RECESSED LED LIGHTING FIXTURE. COOPER #24GR-LD4-48-FI-UNV-L835-CD-1 |
| ⊗ | EXISTING EXIT LIGHT |
| ⊕ | COOPER #AH221 20-AMP SINGLE-POLE SWITCH INSTALLED 42" UP - COLOR AS SELECTED BY THE ARCHITECT |
| ⊕ | COOPER #VGF20 20-AMP 125-VOLT G.F.I. DUPLEX RECEPTACLE INSTALLED 18" UP OR HEIGHT AS NOTED - COLOR AS SELECTED BY THE ARCHITECT |
| ⊕ | COOPER #VGF20 20-AMP 125-VOLT G.F.I. DUPLEX RECEPTACLE INSTALLED ABOVE COUNTER (SEE ARCHITECTURAL DETAILS OF CASEWORK) - COLOR AS SELECTED BY THE ARCHITECT |
| ⊕ | DIRECT CONNECTION TO KITCHEN EQUIPMENT |
| □ | DISCONNECT SWITCH - SIZE AND TYPE AS SHOWN ON PLAN |
| ■ | PANELBOARD |
| ⌈⌋ | VAV BOX WITH INTERNAL DISCONNECT BY THE MECHANICAL CONTRACTOR |
| ⌈⌋ | BRANCH CIRCUIT RACEWAY RUN IN WALL OR ABOVE CEILING. ARROWHEAD DENOTES RUN TO PANELBOARD. CROSSLINES DENOTE NUMBER OF #2 PHASE OR NEUTRAL CONDUCTORS. INSTALL CODE SIZE GROUNDING CONDUCTOR IN ADDITION TO CONDUCTORS SHOWN. SUBSCRIPT DENOTES CIRCUIT NUMBER. |
| ⌈⌋ | SAME AS NEXT ABOVE - ADDITIONAL SUBSCRIPT DENOTES CONDUCTOR SIZE |
| ⌈⌋ | BRANCH CIRCUIT RACEWAY RUN UNDERFLOOR. ARROWHEAD DENOTES RUN TO PANELBOARD. CROSSLINES DENOTE NUMBER OF #2 PHASE OR NEUTRAL CONDUCTORS. INSTALL CODE SIZE GROUNDING CONDUCTOR IN ADDITION TO CONDUCTORS SHOWN. SUBSCRIPT DENOTES CIRCUIT NUMBER. |
| ⌈⌋ | SAME AS NEXT ABOVE - ADDITIONAL SUBSCRIPT DENOTES CONDUCTOR SIZE |
| ▶ | VOICE/DATA OUTLET INSTALLED 18" UP WITH 3/4" CONDUIT TO ABOVE CEILING |

| GENERAL NOTES | |
|---------------|---|
| 1. | DO NOT SCALE THESE DRAWINGS. ALL ROUGHING IN SHALL BE TAKEN FROM THE ARCHITECTURAL DRAWINGS AND DIMENSIONS. |
| 2. | CONSULT THE MECHANICAL DRAWINGS IN DETAIL FOR THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT BEFORE ROUGHING IN. ALL MECHANICAL EQUIPMENT SHALL BE ROUGHED IN AND WIRED ACCORDING TO THE SHOP DRAWINGS. IT IS THE INTENT OF THE WIRING SHOWN ON THESE PLANS TO GIVE A BASIS FOR BIDDING, AND ANY DEVIATIONS REQUIRED BY THE SHOP DRAWINGS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. |
| 3. | THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. |
| 4. | DRAWINGS INDICATE GENERALLY THE LOCATION OF EQUIPMENT AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. IF DUE TO JOB CONDITIONS IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF SAME, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ENGINEER. |
| 5. | ANY WORK ELECTRICAL OR ALLIED, INSTALLED WITHOUT REGARD TO THE WORK OF OTHER CRAFTS WHICH MUST, IN THE OPINION OF THE ENGINEER, BE MOVED IN ORDER TO PERMIT THE PROPER INSTALLATION OF OTHER WORK, SHALL BE MOVED AS A PART OF THIS SECTION WITHOUT EXTRA CHARGE. |
| 6. | REMOVE ALL EXISTING ELECTRICAL WORK MADE OBSOLETE BY NEW WORK. RACEWAY EXPOSED SHALL BE REMOVED. RACEWAY ABOVE CEILING SHALL BE REMOVED. RACEWAY UNDERFLOOR OR CONCEALED IN WALLS SHALL HAVE CONDUCTORS AND OUTLET BOXES REMOVED, AND RACEWAY ABANDONED. |
| 7. | ALL SALVAGE SHALL REMAIN PROPERTY OF THE OWNER. |

| SPECIFICATIONS | |
|----------------|--|
| 1. | INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE NFPA 70-2014 & IBC 2015. |
| 2. | APPLY AND PAY FOR ALL PERMITS. |
| 3. | ALL MATERIALS SHALL BE NEW WITH THE UL LABEL. |
| 4. | THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE SUBMITTING A BID AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. |
| 5. | ALL WIRING SHALL BE COPPER, THW, THHN OR XHHW IN RACEWAY. |
| 6. | RACEWAY FOR FEEDERS SHALL BE RIGID METAL IMC CONDUIT OVERHEAD BRANCH CIRCUIT RACEWAY SHALL BE EMT. |
| 7. | ALL BOXES SHALL BE ONE PIECE METAL. |
| 8. | WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH GRAY FINISH. |
| 9. | DEVICE PLATES SHALL BE OVERSIZED STAINLESS STEEL. |
| 10. | PANELS SHALL BE BOLT-IN BREAKER TYPE. |
| 11. | ALL EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF THE ELECTRICAL SYSTEM SHALL BE GROUNDED. |
| 12. | THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE. |



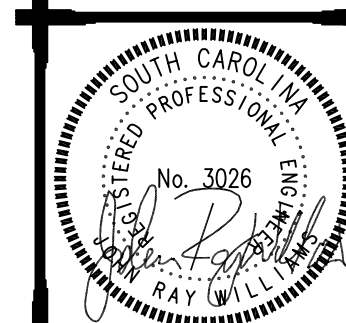
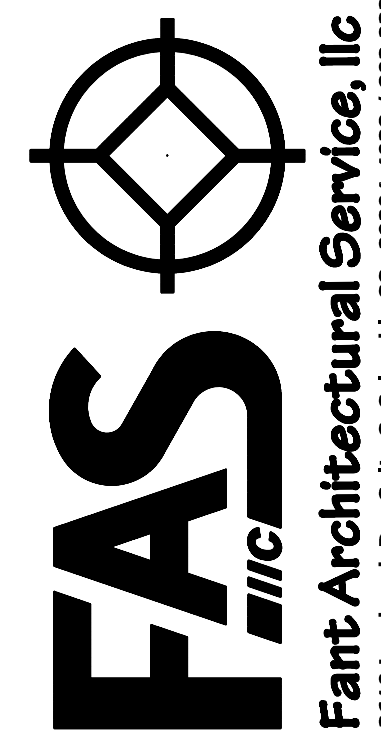
| SCHEDULE FOR PANEL "K" | | | | | | | |
|------------------------|-------------------|------|-------------------------|------|---------|--------------------------------|--------|
| MOUNTING | FLUSH MOUNTED | | 120 / 208 | | VOLTAGE | | WIRING |
| | 225 AMPS | | THREE PHASE / FOUR WIRE | | MAINS | | |
| TYPE | NQOD | | MAIN LUGS ONLY | | MAINS | | |
| CKT | DESCRIPTION | AMPS | POLE | POLE | AMPS | DESCRIPTION | CKT |
| 1 | REFRIG DELI (1) | 20 | 1 | 1 | 20 | HYBRID MERC (2) | 2 |
| 3 | POS (3) | 20 | 1 | 1 | 20 | HYBRID MERC (2) | 4 |
| 5 | REFRIG (4) | 20 | 1 | 1 | 20 | NITRO INJECT (6) | 6 |
| 7 | SAND PREP (8) | 20 | 1 | 1 | 20 | COFFEE GRIND (9) | 8 |
| 9 | TEA BREW (11) | 20 | 1 | 1 | 20 | TIMECLOCK (14) | 10 |
| 11 | FREEZER (20) | 20 | 1 | 1 | 20 | REFRIG (21) | 12 |
| 13 | RECEPTACLES | 20 | 1 | 1 | 20 | RECEPTACLES | 14 |
| 15 | RECEPTACLES | 20 | 1 | 1 | 20 | RECEPTACLES | 16 |
| 17 | RECEPTACLES | 20 | 1 | 1 | 20 | RECEPTACLES | 18 |
| 19 | RECEPTACLES | 20 | 1 | 1 | 20 | RECEPTACLES | 20 |
| 21 | RECEPTACLES | 20 | 1 | 1 | 20 | RECEPTACLES | 22 |
| 23 | RECEPTACLES | 20 | 1 | 1 | 20 | VAV2 | 24 |
| 25 | VAV1 | 20 | 1 | 1 | 20 | VAV3 | 26 |
| 27 | VAV5 | 20 | 1 | 1 | 20 | VAV6 | 28 |
| 29 | VAV4 | 20 | 1 | 1 | 20 | RANGE | 30 |
| 31 | KETTLE | 20 | 1 | 2 | 60 | WATER HEATER (TEMPORARY PANEL) | 32 |
| 33 | SPARE | 20 | 1 | | | | 34 |
| 35 | ICE MAKER (17) | 20 | 2 | 2 | 40 | SPEED OVEN (12) | 36 |
| 37 | | | | | | | 38 |
| 39 | COFFEE MAKER (10) | 40 | 2 | 2 | 30 | ESPRESSO MACHINE (5) | 40 |
| 41 | | | | | | | 42 |

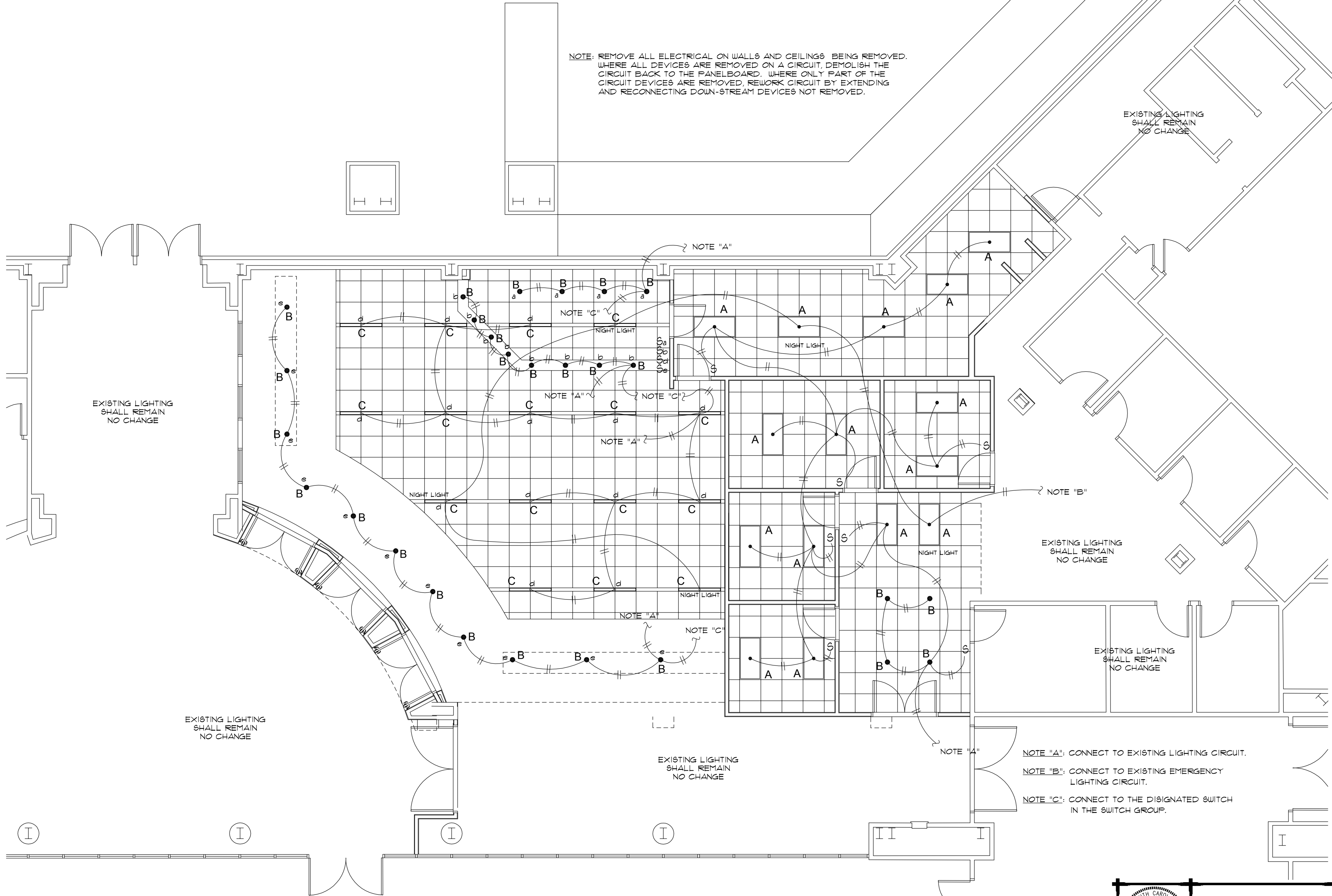
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 Drawn by: Inf
 File name: 1677 - RENOVATIONS
 Plotted on: 9/28/2016
 Drawing date: 9/28/2016

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Columbia, S. C.**

John Ray Williams PE
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 6012 INDIAN MOUND ROAD
 COLUMBIA, SOUTH CAROLINA 29209
 PHONE: (803) 315-9252 EMAIL: jwilliams@sc.rr.com

Sheet
E1
 OF Sheets





NOTE: REMOVE ALL ELECTRICAL ON WALLS AND CEILINGS BEING REMOVED. WHERE ALL DEVICES ARE REMOVED ON A CIRCUIT, DEMOLISH THE CIRCUIT BACK TO THE PANELBOARD. WHERE ONLY PART OF THE CIRCUIT DEVICES ARE REMOVED, REWORK CIRCUIT BY EXTENDING AND RECONNECTING DOWN-STREAM DEVICES NOT REMOVED.

EXISTING LIGHTING SHALL REMAIN NO CHANGE

EXISTING LIGHTING SHALL REMAIN NO CHANGE

EXISTING LIGHTING SHALL REMAIN NO CHANGE

EXISTING LIGHTING SHALL REMAIN NO CHANGE

EXISTING LIGHTING SHALL REMAIN NO CHANGE

EXISTING LIGHTING SHALL REMAIN NO CHANGE

- NOTE "A": CONNECT TO EXISTING LIGHTING CIRCUIT.
- NOTE "B": CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT.
- NOTE "C": CONNECT TO THE DESIGNATED SWITCH IN THE SWITCH GROUP.

LIGHTING PLAN

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

Job Number: 1677
 Drawn by: JH
 File name: 1677_AEVSUNSITE1
 Plotted on: 09/28/2016
 Drawing date: 09/28/2016

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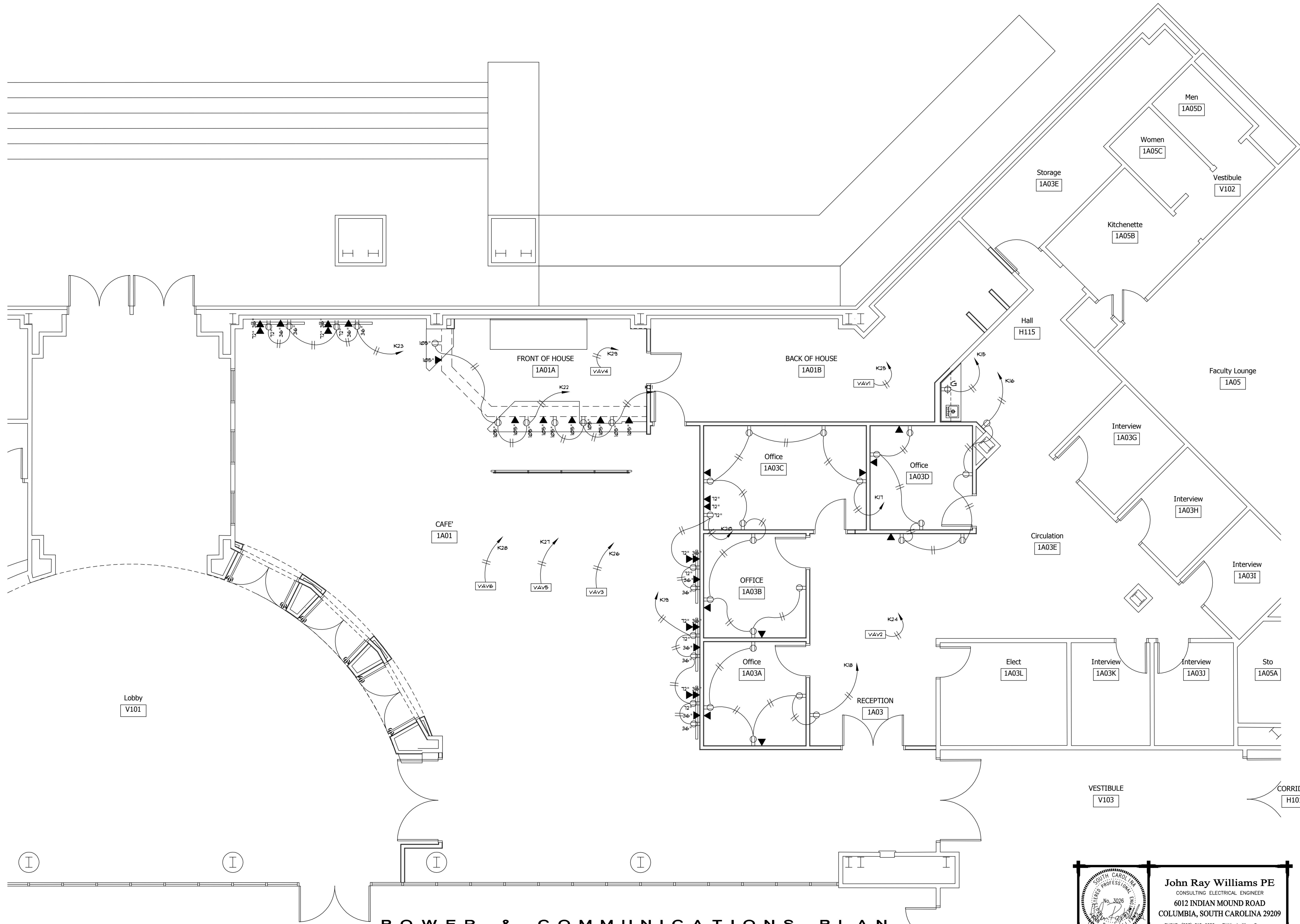
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Sheet
E2
 OF Sheets



POWER & COMMUNICATIONS PLAN

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

| | |
|--------------|------------------|
| Job Number | 1677 |
| Drawn by | Inf |
| File name | 1677_ADRSUNSITE1 |
| Plotted on | PLTDATE |
| Drawing date | 9/28/2016 |
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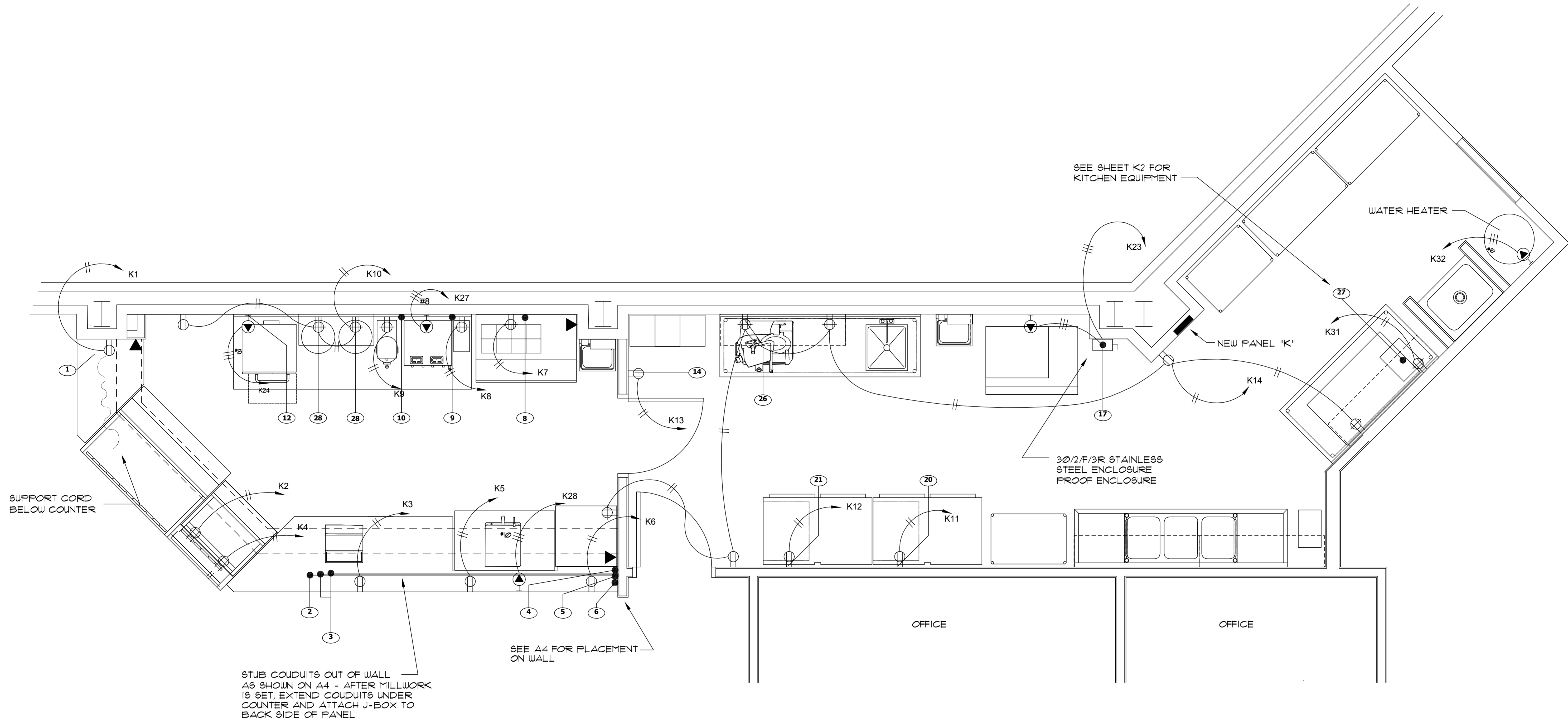
FOODSERVICE RENOVATIONS FOR
SWEARINGIN ENGINEERING CENTER
 UNIVERSITY OF SOUTH CAROLINA
 Columbia, S. C.

FAS
i/c

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|-------|--------|
| Sheet | E3 |
| OF | Sheets |



EQUIPMENT POWER PLAN

SCALE: 1/2" = 1'-0"

| | |
|--------------|---------------------|
| Job Number | 1677 |
| Drawn by | JA |
| File name | 1677A-KITCHEN/ELECT |
| Plotted on | WPLTDATC |
| Drawing date | 9/28/2016 |
| REV | |
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| OF | Sheets |

Fixture "A"

Metalux AP

DESCRIPTION

Metalux AP series GR recessed lensed LED troffers offer a high quality luminaire designed with solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GR is compatible with all of today's popular ceiling systems and is available with multiple lumen packages.

The GR series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

| | | |
|-------------|--|------|
| Catalog # | | Type |
| Project | | |
| Comments | | Date |
| Prepared by | | |

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. Endplates have integral Grid-lock feature for safety and convenience.

Controls

The GR is equipped standard with a 0-10V continuous dimming driver that works with any standard control/dimmer to 10%. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3500K and 4000K with a minimum of 80 CRI. Projected life at 70% lumen maintenance is nearly 200,000 hours with TM21 rating up to L90 >60,000 hours. Electronic drivers are cULus recognized and available for 120-277V. Standard dimming is 0-10V to 10%.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition.

Hinging/Latching

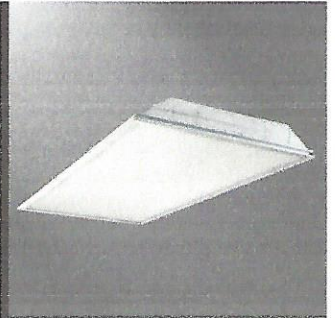
Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Optical Shielding

Die formed, flat steel door with .095 #12 pattern acrylic prismatic lens offering the balance of rigidity and light stability.

Compliance

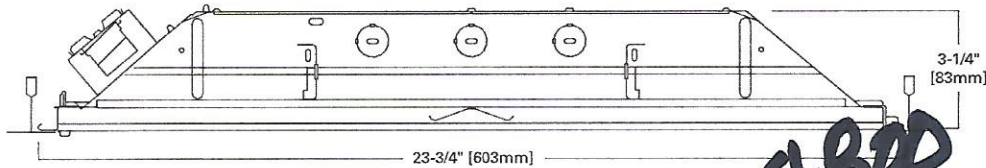
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.



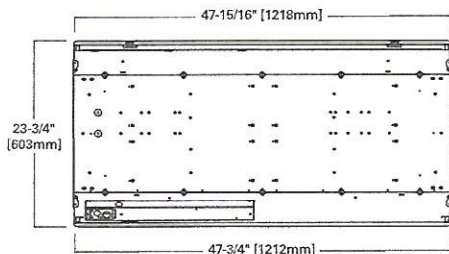
**24GR
LED**

2' X 4' LED TROFFER

General Recessed LED Troffer
For Use in Insulated Ceilings



MOUNTING DATA



LUMEN = 4800
VOLTAGE = 277V

| Catalog Number | Product Description |
|----------------|---|
| 24GR4235D | 2 x 4, Lensed LED Troffer, 4200 lumen, 3500K, 0 to 10V dimmable |
| 24GR4240D | 2 x 4, Lensed LED Troffer, 4200 lumen, 4000K, 0 to 10V dimmable |
| 24GR4835D | 2 x 4, Lensed LED Troffer, 4800 lumen, 3500K, 0 to 10V dimmable |
| 24GR4840D | 2 x 4, Lensed LED Troffer, 4800 lumen, 4000K, 0 to 10V dimmable |
| 24GR6435D | 2 x 4, Lensed LED Troffer, 6400 lumen, 3500K, 0 to 10V dimmable |
| 24GR6440D | 2 x 4, Lensed LED Troffer, 6400 lumen, 4000K, 0 to 10V dimmable |

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips⁽¹⁾
DF-24-W=2' x 4' Drywall Frame Kit

NOTES: ⁽¹⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

WATTAGE

| Lumen Package | Watts |
|---------------|-------|
| 4200 | 30W |
| 4800 | 35W |
| 6400 | 51W |

SHIPPING DATA

| Catalog No. | Wt. | Pallet |
|-------------|---------|--------|
| 2 x 4 | 20 lbs. | 28 |

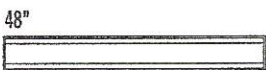
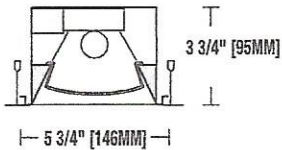
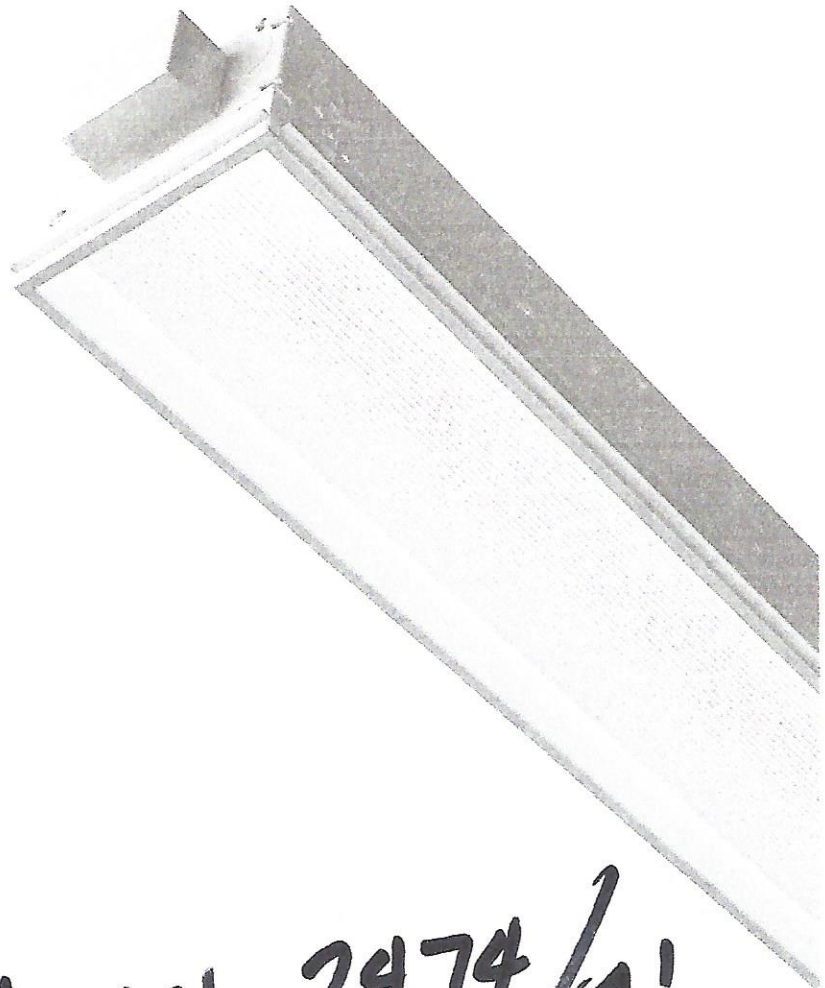
FIXTURE "C"



ORDERING INFORMATION:

SAMPLE NUMBER: R6-W-L-1-L35-1-C-120-4-T1

| | | |
|--------------------|--|---------------------------|
| SERIES | R6 = Class R6 | |
| REFLECTOR | W=White | |
| SHIELDING | L=Linear Prismatic Lens | |
| LIGHT LEVEL | LED | Linear Fluorescent |
| | 1=Light Level 1 2=Light Level 2 | 1=1 Lamp |
| LAMP TYPE | LED | Linear Fluorescent |
| | L30=LED 3000K | T5=T5 Normal Output |
| | L35=LED 3500K | T5=T5 High Output |
| | L40=LED 4000K | T8=T8 Normal Output |
| NUMBER OF CIRCUITS | LED | Linear Fluorescent |
| | 1=1 Circuit | 1=1 Circuit |
| WIRING | C=Standard Circuit | E=Emergency* |
| | B=Battery* | Y=Daylight* |
| | D=Dimming / Step Dimming* | T=Nightlight* |
| VOLTAGE | 120=120V | |
| | 277=277V | |
| | 347=347V* | |
| | UNV=Universal (120V-277V) | |
| SIZE | 2=2 foot | |
| | 4=4 foot | |
| CEILING TYPE | T1 = 1" Grid, Slot-Grid, 9/16" Tegular | |
| | T9 = 9/16" Grid | |
| OPTIONS | AR = Air Return CP = Chicago Plenum NY = New York City Construction AM = Anti-Microbial Coating W6 = 6' Whip Flex W12 = 12' Whip Flex | |



LUMEN = 2974 / 4'

VOLTAGE = 277V

PROJECT NAME: _____ TYPE: _____

CATALOG #: _____

* Not all options available. Please consult your Cooper Lighting Representative for availability and technical information. Specifications and dimensions subject to change without notice.