| NAME OF PROJECT:   | T & L COATS B                             | (EXCEPT 1 AND   |  |   | WNHOUSES   | )   |  |
|--|---|---|--|---|--|---|--|
| ADDRESS:   | HIGHWAY 27 CO                             | ATS   |  |   | ZIP  | CODE: 27527   | · · · · · · · · · · · · · · · · · · ·                |
| OWNER/AUTHORIZED AGEN  |   |   | PHONE #:   |   | <del></del>                                      | WRBAREFOOT@YAI                                      | HOO.COM  |
| OWNED BY:<br>CODE ENFORCEMENT JURIS  |   | Y/COUNTY<br>Y   |  | HARNETT                                       | _  | ] STATE<br>] STATE                                  |  |
| LEAD DESIGN PROF   | ESSIONAL: CR                              | USE & ASSOCIATES,   | P.A.   |   |  |   |  |
| DESIGNER ARCHITECTURAL   |   | FIRM  | NAME   |   | LICENSE #  | # TELEPHONE I                                       | NO. E-MAIL   |
| BUILDING   | CRUSE &                                   | ASSOCIATES, P.A.  | RANDY CRU  | JSE, PE                                       | 18909  | 910-892-44  | 29 RCRUSE@CRUSEASSOCIATES.COM                        |
| ELECTRICAL   | CRUSE &                                   | ASSOCIATES, P.A.  | RANDY CRU  | JSE, PE                                       | 18909  | 910-892-44  | 29 RCRUSE@CRUSEASSOCIATES.COM                        |
| FIRE ALARM PLUMBING MECHANICAL   | CRUSE &                                   | ASSOCIATES, P.A.  | RANDY CRU  | JSE, PE                                       | 18909  | 910-892-44  | 29 RCRUSE@CRUSEASSOCIATES.COM                        |
| SPRINKLER-STANDPIPE<br>STRUCTURAL (FOUNDAT<br>RETAINING WALLS >5'            | TION) CRUSE &                             | ASSOCIATES, P.A.  | RANDY CRU  | JSE, PE                                       | 18909  | 910-892-44  | 29 RCRUSE@CRUSEASSOCIATES.COM                        |
| OTHER<br>("OTHER" SHOULD INCL  | UDE FIRMS AND                             | INDIVIDUALS SUCH A  | S TRUSS, PREC  | CAST. PRF—ENG                                 | INFERED. I                                       | NTERIOR DESIGN                                      | VFRS FTC.)   |
| 2018 EDITION NC B  |   |   | COMPLETIONS TACT THE LEAD II EQUIREMENTS CTION—SHELL/COF | ADDITION  NSPECTION JURISE  RE-CONTACT THE    | DICTION FOR                                      | RENOVATION POSSIBLE ADDITION                        | ONAL_  |
| 2018 NC EXISTING  CONSTRUCTED: (DATE)  | ALTERATIO                                 | DN: LEVEL I  HISTORIC PROPER COCCUPANCY(S): (CH. 3                                | 3)   | OF USE  | CHAPT  |   |  |
| RENOVATED: (DÀTE) OCCUPANCY CATEGORY (T BASIC BUILDING DA CONSTRUCTION TYPE: | PROPOSI<br>TABLE 1604.5): CU<br>TA: PROI  | ED OCCUPANCY(S) (CH. FRENT:   | 3):  | -<br>□ V–A                                    |  |   |  |
| SPRINKLERS: S N STANDPIPES: S N PRIMARY FIRE DISTRICT SPECIAL INSPECTIONS F  | IO □ PARTIAL<br>IO □ YES<br>1: 図 NO □ YES | CLASS □I □II<br>S FLOOD HAZAR<br>□YES (CONTACT                                    | □ III □ WET  | ☐ YES PECTION JURISE                          | □ NFPA   |   |  |
| GROSS BUILDING AF  | REA:                                      | FROCEDORE   | S & REQUIREM   | EN 15)  |  |   |  |
|  | (SQ FT)                                   | NEW   | (SQ FT)  |   | SUB-TOTA   | AL.   |  |
| 3RD FLOOR<br>2ND FLOOR   |   |   |  |   |  |   | TOTAL BUILDING = 7,000 SQ.                           |
| MEZZANINE  1ST FLOOR 7,00 BASEMENT   | 00  | 3,50  | 0 (UPFIT)  |   |  |   | TENANT 1 = 3,500 SQ. FT.<br>TENANT 2 = 3,500 SQ. FT. |
| TOTAL GROSS  | AREA: 7,0                                 | 00  |  |   |  |   |  |
|  |   | ALLOWABLE   | AREA   |   |  |   |  |
| PRIMARY OCCUPANCY CLA  ASSEMBLY  BUSINESS                                    | IA-1 ⊠ A-2                                | ? □ A-3 □ A-  | -4 □A-5  |   |  |   |  |
| EDUCATIONAL □ FACTORY □ F-1 N HAZARDOUS                                      |   | F−2 LOW<br>ATE □ H−2 DEFLAGR  | ATE [] LI 7 C  | OMBUST FI                                     |  | TH □ H-5 HF   | D. J.  |
| INSTITUTIONAL    -   | -1 CONDITION<br>-2 CONDITION              | □ 1 □ 2<br>□ 1 □ 2  |  | DWBO21 EI                                     | n-4 neac   | IП С Н-5 Нг   | -M   |
| ☐ I-<br>☐ I-<br>MERCANTILE ☐   | -3 CONDITION<br>-4                        | □1 □2   | □ 3  | <b>4 -</b>                                    | 5  |   |  |
| STORAGE S-   | −1 □ R−2<br>−1 MODERATE<br>ARKING GARAGE  |   | ☐ HIGH—PILED<br>☐ENCLOSED                                | □ REPAIR G                                    | ARAGE  |   |  |
|  |   | UTILITY AND MIS   |  |   |  |   |  |
| ACCESSORY OCCUPANCY O  |   |   |  |   |  | •   |  |
| NCIDENTAL USES(TABLE 5   | 09):                                      |   |  |   |  |   |  |
| SPECIAL USES(CHAPTER 4   | -LIST CODE SECTION                        | ONS):   |  |   |  | ·   |  |
| SPECIAL PROVISIONS(CHAP  | TER 5-LIST CODE                           | SECTIONS):  |  |   |  | ••  |  |
| MIXED OCCUPANCY:   | □ NO 🖾                                    | YES SEPARATION:   | HR. E  | XCEPTION:                                     |  |   |  |
| ⊠ NON-SEPAR  | ATED USE(508.3                            | ) THE REQUIRED TYPE<br>APPLYING THE HEIG<br>OCCUPANCIES TO TO<br>CONSTRUCTION, SO | HT AND AREA<br>HE ENTIRE BUIL                            | LIMITATIONS FO<br>DING. THE MO                | R EACH O<br>ST RESTRI                            | F THE APPLICAT<br>CTIVE TYPE OF                     | RMINED BY<br>BLE                                     |
| ☐ SEPARATED  | USE (508.4)                               | SEE BELOW FOR AF<br>SHALL BE SUCH TH<br>USE DIVIDED BY TH                         | REA CALCULATION  | ONS FOR EACH                                  | STORY, TH  | HE AREA OF THE                                      | REA OF EACH  |
|  | A OF OCCUPANO<br>REA OF OCCUPAN           | NCY A T ALLOWA  | L AREA OF OC<br>BLE AREA OF C                            | CCUPANCY B                                    | ≤1   | ≤1.00   |  |
| STORY NO.  | DESCRIPTION<br>AND USE                    | (A)<br>BLDG AREA<br>PER STORY<br>(ACTUAL)   | (B)<br>TABLE 506.2 <sup>4</sup><br>AREA                  | (C) AREA FOR FRONTAGE INCREASE <sup>1,5</sup> | ALLO<br>AREA PER                                 | (D)<br>DWABLE<br>R STORY OR<br>MITED <sup>2,3</sup> |  |
| .1   | A-2                                       | 3,500   | 9,500  | INOREASE                                      | <del>                                     </del> | ,500  |  |
|  |   |   |  |   |  |   |  |
|  |   |   |  |   |  |   |  |
| TERONTACE AREA INC   |   | TOTION FOR A ARE OF   |  |   |  | ***   |  |

|   | 1   | (ACIOAL)   |  | INCREASE"        | UNLIMITED <sup>2,0</sup> |
|---|---|--|--|------------------|--------------------------|
| .1  | A-2   | 3,500  | 9,500  |                  | 9,500                    |
|   |   |  |  |                  |                          |
|   |   |  |  |                  |                          |
| FRONTAGE AREA   | INCREASES FROM  | SECTION 506.2 ARE                                      | COMPUTED THUS                                  | S:               |                          |
|   |   | PUBLIC WAY OR OPE                                      | N SPACE HAVIN                                  | G 20 FEET MINIMU | M WIDTH =(F              |
|   |   |  |  |                  |                          |
|   | LDING PERIMETER<br>P) = (F  | =(P)   |  |                  |                          |
| C. RATIO (F/D. $W = MINIM$  | P) =(F<br>IUM WIDTH OF PUBI   | T/P)<br>LIC WAY =                                      |  | /or\             |                          |
| C. RATIO (F/<br>D. W = MININ<br>E. PERCENT (  | P) =(F<br>IUM WIDTH OF PUBI<br>DF FRONTAGE INCRE                      | F/P)<br>LIC WAY =<br>EASE   <sub>F</sub> = 100[F/P-(   | 0.25) X W/30=_                                 | (%)              |                          |
| C. RATIO (F/<br>D. W = MININ<br>E. PERCENT (<br>UNLIMITED AREA  | P) =(F<br>NUM WIDTH OF PUBI<br>OF FRONTAGE INCRE<br>A APPLICABLE UNDE | F/P) LIC WAY =  EASE   = 100[F/P-( ER CONDITIONS OF SE | 0.25] X W/30=_<br>CTION 507.                   |                  |                          |
| C. RATIO (F/<br>D. W = MININ<br>E. PERCENT (<br>UNLIMITED AREA  | P) =(F<br>NUM WIDTH OF PUBI<br>OF FRONTAGE INCRE<br>A APPLICABLE UNDE | F/P)<br>LIC WAY =<br>EASE   <sub>F</sub> = 100[F/P-(   | 0.25] X W/30=_<br>CTION 507.                   |                  | 3 STORIES) (506.2).      |
| C. RATIO (F/<br>D. W = MINIM<br>E. PERCENT (<br><sup>2</sup> UNLIMITED AREA<br><sup>3</sup> MAXIMUM BUILD | P) =(F IUM WIDTH OF PUBI<br>OF FRONTAGE INCRE APPLICABLE UNDE         | F/P) LIC WAY =  EASE   = 100[F/P-( ER CONDITIONS OF SE | D.25] X W/30=_<br>CTION 507.<br>IN THE BUILDIN | NG x D (MAXIMUM  | 3 STORIES) (506.2).      |

| Al I | OWAR | Ľ | HEIGH |
|------|------|---|-------|

|  | ALLOWABLE           | SHOWN ON PLANS       | CODE 1<br>REFERENCE |
|--|---------------------|----------------------|---------------------|
| BUILDING HEIGHT IN FEET (TABLE 504.3) <sup>2</sup> | FEET <u>55</u>      | 23'-8"               |                     |
| BUILDING HEIGHT IN STORIES (TABLE 504.4)3          | STORIES <u>3</u>    | STORIES 1            | -                   |
| 1. PROVIDE CODE REFERENCE IF THE "SHOWN O          | N PLANS" QUANTITY I | S NOT BASED ON TABLE | E 504.3 OR 504.     |

2. THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412,3.1.

3. THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

### FIRE PROTECTION REQUIREMENTS

|   |  |        | N REWUIREM                              |              |                                      |                                      |                                    |
|---|--|--------|---|--------------|--------------------------------------|--------------------------------------|------------------------------------|
| BUILDING ELEMENT  | FIRE<br>SEPARATION<br>DISTANCE<br>(FEET) | REQ'D  | RATING<br>PROVIDED<br>(W*<br>REDUCTION) | AND<br>SHEET | DESIGN #<br>FOR<br>RATED<br>ASSEMBLY | DESIGN # FOR<br>RATED<br>PENETRATION | DESIGN<br># FOR<br>RATED<br>JOINTS |
| STRUCTURAL FRAME,<br>INCLUDING COLUMNS,<br>GIRDERS, TRUSSES   |  | 0      | <del>-</del>                            |              |                                      | _                                    | _                                  |
| BEARING WALLS   |  | _      | _                                       |              |                                      | -                                    |                                    |
| EXTERIOR  | _  |        |   |              |                                      |                                      |                                    |
| NORTH   |  | 0      | ••••                                    | _            | _                                    |                                      | _                                  |
| EAST  |  | 0      |   |              | -                                    |                                      | ·····                              |
| WEST  |  | 0      |   | ••••         | -                                    | -                                    | _                                  |
| SOUTH   |  | 0      | 4444                                    |              |                                      |                                      |                                    |
| INTERIOR  |  | 0      |   | _            |                                      | _                                    |                                    |
| NONBEARING WALLS & PARTITIONS                                 |  |        | **************************************  |              |                                      | ·                                    | -                                  |
| EXTERIOR  | _  | 0      |   | _            |                                      |                                      | . —                                |
| NORTH   | -  | 0      | -                                       |              |                                      | _                                    |                                    |
| EAST  |  | 0      | _                                       |              | ****                                 |                                      | _                                  |
| WEST  |  | 0      | -                                       | -            | -                                    |                                      | _                                  |
| SOUTH   |  | 0      |   | _            |                                      |                                      | <del>-</del>                       |
| INTERIOR  |  | 0      | _                                       |              |                                      | <del>-</del>                         |                                    |
| FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS      | _  | 0      | <b></b>                                 |              | 1                                    | _                                    | <del></del>                        |
| FLOOR CEILING ASSEMBLY  |  | _      |   | _            |                                      |                                      | ••••                               |
| COLUMNS SUPPORTING FLOORS                                     |  | _      |   |              |                                      | *****                                | _                                  |
| ROOF CONSTRUCTION<br>INCLUDING SUPPORTING<br>BEAMS AND JOISTS | www.                                     | 0      |   | •            |                                      | *****                                |                                    |
| ROOF CEILING ASSEMBLY   |  | _      | _                                       |              |                                      | <del>-</del>                         |                                    |
| COLUMNS SUPPORTING ROOF                                       |  |        |   |              |                                      | -                                    | *****                              |
| SHAFT ENCLOSURES-EXIT   |  |        | _                                       | _            | 2000                                 | ·                                    | <del></del>                        |
| SHAFT ENCLOSURES—OTHER  | <del>-</del>                             |        | ••••                                    |              |                                      |                                      |                                    |
| CORRIDOR SEPARATION   |  | 0      | _                                       |              |                                      |                                      | *****                              |
| OCCUPANCY SEPARATION  | _  | _      |   |              |                                      |                                      | -                                  |
| PARTY/FIRE WALL SEPARATION                                    | -  | P1.000 |   |              | ****                                 |                                      |                                    |
| SMOKE BARRIER SEPARATION                                      |  |        | ****                                    | _            | -                                    |                                      |                                    |
| TENANT/DWELLING UNIT/<br>SLEEPING UNIT SEPARATION             | _  | -      | ••••                                    |              |                                      |                                      |                                    |
| NCIDENTAL USE SEPARATION                                      | · · · · · · · · · · · · · · · · · · ·    |        |   |              |                                      |                                      |                                    |

### \*INDICATE SECTION NUMBER PERMITTING REDUCTION

### PERCENTAGE OF WALL OPENING CALCULATIONS

| FIRE SEPARATION DISTANCE<br>(FEET) FROM PROPERTY LINES | DEGREE OF OPENINGS<br>PROTECTION<br>(TABLE 705.8) | ALLOWABLE AREA<br>(%) | ACTUAL SHOWN ON PLANS (%) |
|--|---|-----------------------|---------------------------|
| 82'  | UP; NS  | NO LIMIT              | 42%                       |
|  |   |                       |                           |

## LIFE SAFETY SYSTEM REQUIREMENTS.

| TY SYSTEM REQUIREMENTS:    |      |       |          |
|----------------------------|------|-------|----------|
| EMERGENCY LIGHTING:        | □ NO | 🔀 YES |          |
| EXIT SIGNS:                | □ NO | ✓ YES |          |
| FIRE ALARM:                | ⊠ NO | ☐ YES |          |
| SMOKE DETECTION SYSTEMS:   | ⊠ NO | ☐ YES | ☐ PARTIA |
| CARBON MONOXIDE DETECTION: | ⊠ NO | ☐ YES |          |

### LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET #, IF PROVIDED \_LS-1 OF 1

### ACCESSIBLE DWELLING UNITS N/A

| (SECTION 1107) |                                 |                                 |                             |                             |                             |                             |                                       |  |  |
|----------------|---------------------------------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------------|--|--|
| TOTAL<br>UNITS | ACCESSIBLE<br>UNITS<br>REQUIRED | ACCESSIBLE<br>UNITS<br>PROVIDED | TYPE A<br>UNITS<br>REQUIRED | TYPE A<br>UNITS<br>PROVIDED | TYPE B<br>UNITS<br>REQUIRED | TYPE B<br>UNITS<br>PROVIDED | TOTAL<br>ACCESSIBLE UNITS<br>PROVIDED |  |  |
|                |                                 |                                 |                             |                             |                             |                             |                                       |  |  |

### ACCESSIBLE PARKING-SEE SITE PLAN-SEE SITE PLAN

|                        |            | (S             | ECTION 1106)                    |                                    |  |                        |
|------------------------|------------|----------------|---------------------------------|------------------------------------|--|------------------------|
| LOT OR PARKING<br>AREA | TOTAL # OF | PARKING SPACES | # OF ACCESSIBL                  | TOTAL #                            |  |                        |
| ANEA                   | REQUIRED   | PROVIDED .     | REGULAR WITH 5'<br>ACCESS AISLE | VAN SPACES<br>132" ACCESS<br>AISLE |  | ACCESSIBLE<br>PROVIDED |
|                        | 24         | 37             | 2                               |                                    |  | 2                      |
|                        |            |                |                                 |                                    |  |                        |

### PLUMBING FIXTURE REQUIREMENTS-(NO REQUIREMENT FOR SHELL BUILDING)

|       |          |                              |        |             | (       | IARLE           | 2902.    | 1)          |       |                |            |
|-------|----------|------------------------------|--------|-------------|---------|-----------------|----------|-------------|-------|----------------|------------|
| I     | USE      | WATERCLOSETS URINALS LAVATOR |        | LAVATORI    | ES      | SERVICE<br>SINK | DRINKING | FOUNTAINS   |       |                |            |
|       |          | MALE                         | FEMALE | UNISEX      | UNINALS | MALE            | FEMALE   | UNISEX      | SHALL | REGULAR        | ACCESSIBLE |
| SPACE | REQUIRED | 2                            | 2      | -           | -       | 1               | 1        | <del></del> | 1     | . <del>-</del> | -          |
|       | PROVIDED | 1                            | 2      | <del></del> | 1       | 1               | 4        |             | 1     |                | _          |

add exceptions for unisex, no mop sink, and no drinking fountain

SPECIAL APPROVALS SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW) DESIGN LOADS:

STRUCTURAL DESIGN-EXISTING

SNOW (I<sub>S</sub>) \_\_\_\_\_\_1.0\_\_\_\_ SEISMIC (I<sub>E</sub>) 1.0

\_\_\_\_\_100\_\_\_\_\_ PSF

**Reviewed for Fire Code Compliance** Harnett Leslie Jackson 09/10/2024 8:18:28 AM

GROUND SNOW LOAD: \_\_\_\_15\_\_\_\_ PSF

BASIC WIND SPEED 118 ULT MPH (ASCE-7) EXSPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY

LIVE LOADS:

WIND LOAD:

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS: OCCUPANCY CATEGORY (TABLE 1604.5) SPECTRAL RESPONSE ACCELERATION S<sub>S</sub> 0.17 %g S<sub>1</sub> 0.08 %g

DATA SOURCE: 

FIELD TEST 

PRESUMPTIVE 

HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

☐ BEARING WALL ☐ DUAL W/SPECIAL MOMENT FRAME ☑ BUILDING FRAME ☐ DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL

☐ MOMENT FRAME ☐ INVERTED PENDULUM

ANALYSIS PROCEDURE SIMPLIFIED 

EQUIVALENT LATERAL FORCE 

DYNAMIC ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO

LATERAL DESIGN CONTROL: EARTHQUAKE SOIL BEARING CAPACITIES:

> FIELD TEST (PROVIDE COPY OF TEST REPORT) \_\_\_\_\_ PRESUMPTIVE BEARING CAPACITY PILE SIZE, TYPE, AND CAPACITY \_\_\_\_

### **ENERGY REQUIREMENTS:**

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS THE ANNUAL ENERGY COST FOR THE

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE) EXEMPT BUILDING NO YES PROVIDE CODE OR STATUTORY REFERENCE:

|               | <del></del> |             |    |
|---------------|-------------|-------------|----|
| CLIMATE ZONE: |             | <b>⊠</b> 4A | 5A |

|                       | Manual Co. Co.          |       |
|-----------------------|-------------------------|-------|
| METHOD OF COMPLIANCE: | ENERGY CODE PERFORMANCE |       |
|                       | ASHRAE 90.1 PERFORMANCE | PRESC |

PRESCRIPTIVE

R-VALUE OF INSULATION: N/A

OTHER: PERFORMANCE (SPECIFY SOURCE)

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY) ROOF/CEILING ASSEMBLY (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY R-19 + R-11 LS WITH R-3 THERMAL BLOCKS

U-VALUE OF TOTAL ASSEMBLY N/A R-VALUE OF INSULATION: N/A SKYLIGHTS IN EACH ASSEMBLY N/A

U-VALUE OF SKYLIGHT: N/A TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY N/A

EXTERIOR WALLS (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY R-0.0+R-15.8 CI, WITH BRICK VENEER U-VALUE OF TOTAL ASSEMBLY \_\_\_

R-VALUE OF INSULATION: N/A OPENINGS (WINDOWS OR DOORS WITH GLAZING) DOUBLE PANE, H.M. FRAME U-VALUE OF ASSEMBLY 0.45 SOLAR HEAT GAIN COEFFICIENT: N/A
PROJECTION FACTOR N/A DOOR R-VALUES 1.3

WALLS BELOW GRADE (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY N/A U-VALUE OF TOTAL ASSEMBLY N/A

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY N/A U-VALUE OF TOTAL ASSEMBLY N/A R-VALUE OF INSULATION: N/A

FLOOR SLAB ON GRADE DESCRIPTION OF ASSEMBLY SLAB-ON-GRADE R-VALUE OF INSULATION R-15 TO BOTTOM OF FOOTING U-VALUE OF TOTAL ASSEMBLY \_\_\_\_ HORIZONTAL / VERTICAL REQUIREMENT\_\_\_\_\_

# Summary:

SLAB HEATED ? NO

ENERGY CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: BUILDING CODE

MECHANICAL CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE PLUMBING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE

ELECTRICAL CODE: 2020 NATIONAL ELECTRIC CODE ACCESSIBILITY CODE:

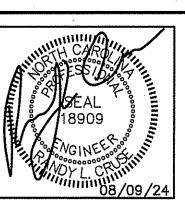
ICC/ANSI 117.1-2009 AMERICAN NATIONAL STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CONSTRUCTION:

## SHEET INDEX

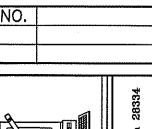
OCCUPANCY:

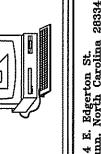
APPENDIX B LS-1 OF 1 LIFE SAFETY PLAN F-1 OF 3 FLOOR PLAN F-2 OF 3 EQUIPMENT PLAN F-3 OF 3 HVAC PLATFORM DETAILS P-1 OF 3 PLUMBING SUPPLY PLAN P-2 OF 3 WASTE & VENT PIPING PLAN P-3 OF 3 WASTE & VENT PIPING PLAN M-1 OF 3 MECHANICAL HVAC PIPING PLAN M-2 OF 3 GAS PIPING PLAN MECHANICAL DETAILS, SCHEDULES M-3 OF 3 E-1 OF 3 ELECTRICAL LIGHTING PLAN

ELECTRICAL POWER PLAN E-2 OF 3 E-3 OF 3 ELECTRICAL NOTES, RISER DIAGRAM, PANELS



REVISIONS





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DRAWN BY BAM JOB NO. 24-16

SHEET NO.

## EXIT REQUIREMENTS:

| NUMBER AND ARRANGEMENTS OF EXITS    |                |                           |   |                                       |   |   |  |  |  |  |  |
|-------------------------------------|----------------|---------------------------|---|---------------------------------------|---|---|--|--|--|--|--|
| FLOOR, ROOM OR<br>SPACE DESIGNATION | MINI<br>NO. OF | MUM <sup>2</sup><br>EXITS | TRAVEL DIS  | TANCE                                 | ARRANGEMENT MEANS OF EGRESS 1,3 (SECTION 1016-1021) |   |  |  |  |  |  |
|                                     | REQ'D.         | SHOWN<br>ON<br>PLANS      | ALLOWABLE<br>TRAVEL<br>DISTANCE<br>(TABLE 1017.2) | ACTUAL TRAVEL DISTANCE SHOWN ON PLANS | REQUIRED<br>DISTANCE<br>BETWEEN<br>EXIT DOORS       | ACTUAL<br>DISTANCE<br>SHOWN ON<br>PLANS |  |  |  |  |  |
| A-2                                 | 2              | 3                         | 200'  | 63'-11"                               | 41'-0"  | 69'-7"                                  |  |  |  |  |  |
|                                     |                |                           |   |                                       |   |   |  |  |  |  |  |

1. CORRIDOR DEAD ENDS (SECTION 1020.4)

2. BUILDINGS WITH SINGLE EXITS (TABLE 1006.3.2(2)), SPACES WITH ONE MEANS OF EGRESS (TABLE 1006.2.1) 3. COMMON PATH OF TRAVEL (SECTION 1029.8)

#### EXIT WIDTH

|                                |   |               |                                | 1110 111 |       |   |          |                                   |       |
|--------------------------------|---|---------------|--------------------------------|----------|-------|---|----------|-----------------------------------|-------|
| USE GROUP OR SPACE DESCRIPTION | (a)   | (b)           |                                | (с       | )     |   | EXIT WID | TH (in)                           |       |
| or not begoni from             | AREA <sup>1</sup> PER OCCUPANT SQ. FT. (TABLE |               | CALCULATED<br>OCCUPANT<br>LOAD | PER OC   |       | REQUIRED WIDTH<br>(SECTION 1005.1)<br>(a/b) x c |          | ACTUAL WIDTH<br>SHOWN ON<br>PLANS |       |
|                                |   | 1004.1.2)     | (a/b)                          | STAIR    | LEVEL | STAIR   | LEVEL    | STAIR                             | LEVEL |
| DINING                         | 2,635   | FIXED SEATING | 94                             | N/A      | .2    | N/A   | 18.8"    | N/A                               | 96"   |
| KITCHEN                        | 665   | 200 GROSS     | 4                              | N/A      | .2    | N/A   | .8"      | N/A                               | 36"   |
| WAITING/HOSTESS                | 200   | FIXED SEATING | 8                              | N/A      | .2    | N/A   | 1.6"     | N/A                               | 96"   |
|                                | 3,500   |               | 106                            |          |       |   |          |                                   |       |

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)

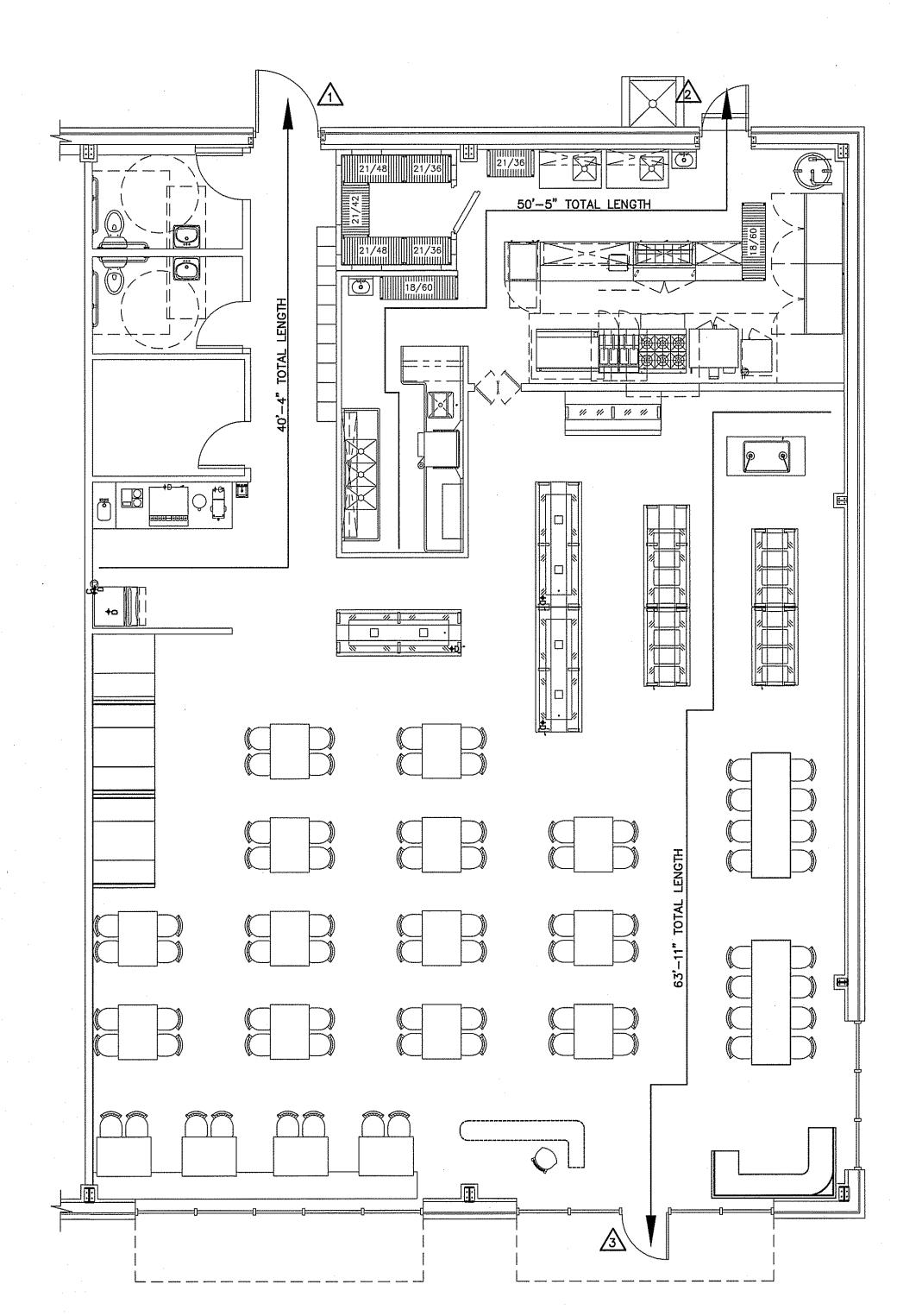
2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)

3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)

4. SEE SECTION 1005.6 FOR CONVERGING EXITS.

5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)

6. ASSEMBLY OCCUPANCIES (SECTION 1029)



LIFE SAFETY PLAN
SCALE: 3/16" = 1'-0"

LIFE SAFETY PLAN REQUIREMENTS:

☑ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) - SEE NOTE 1

☑ ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2 EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3

OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)

OCCUPANT LOADS FOR EACH AREA

 ■ EXIT ACCESS TRAVEL DISTANCES (1017) ☑ COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))

☑ DEAD END LENGTHS (1020.4) - SEE NOTE 4

☑ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)

☑ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR

MA SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 5

☑ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10) - SEE NOTE 6

☑ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1010.1.9.7) - SEE NOTE 7

☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.10) — SEE NOTE 7

☑ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7

☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) — SEE NOTE 7 ☑ THE SQUARE FOOTAGE OF EACH FIRE AREA (202) - SEE NOTE 8

▼ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) — SEE NOTE 9

□ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

### LIFE SAFETY PLAN NOTES:

1. NO RATED WALLS.

2. ALL ASSUMED AND REAL PROPERTY LINES >30'.

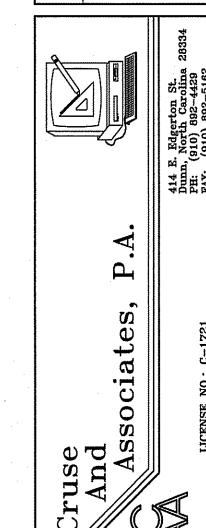
3. UNLIMITED (ALL 30' OR GREATER) 4. NO DEAD ENDS; 20' ALLOWED.

5. NO RATING REQUIRED THIS STRUCTURE.

6. PANIC HARDWARE REQUIRED ON ALL EXIT DOORS. 7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS

8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE 9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

REVISIONS



KEY PLAN

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SHEET NO. LS-1 OF

AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

> MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)

 $\sqrt{1}$  47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 51 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

2 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 4 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

 $\boxed{3}$  35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 51 PERSON CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

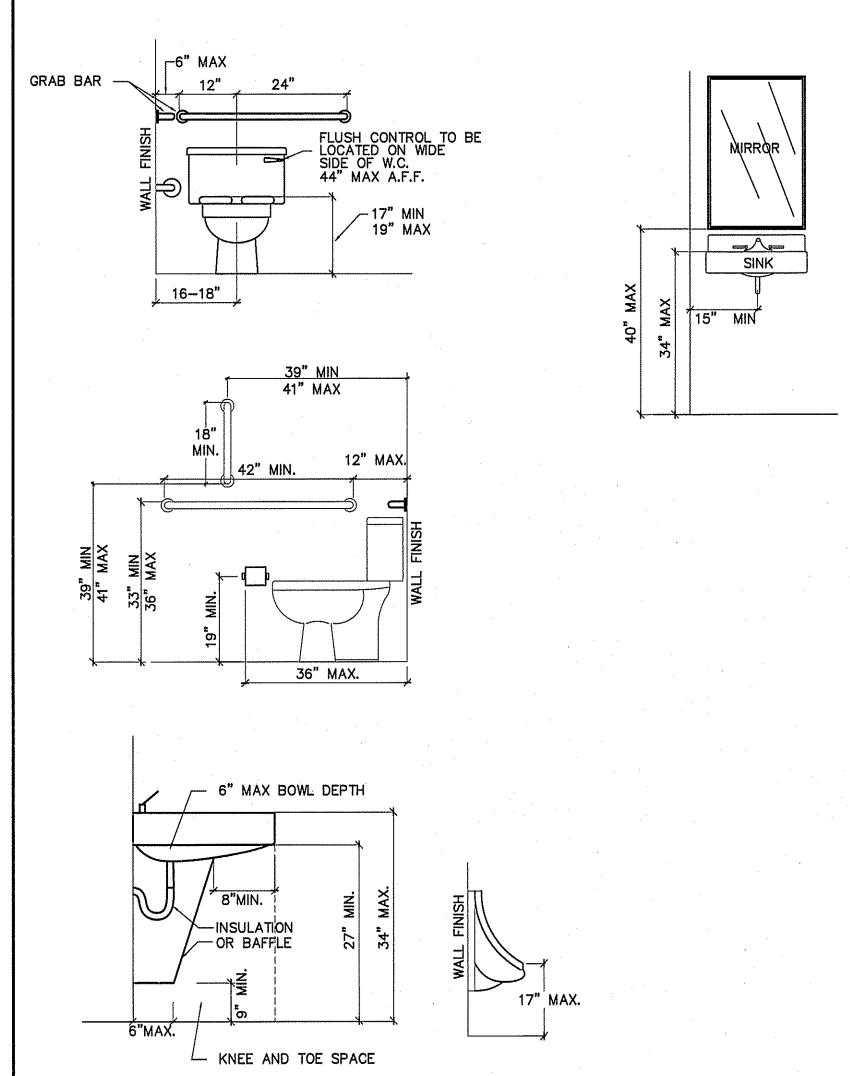
## NOTES:

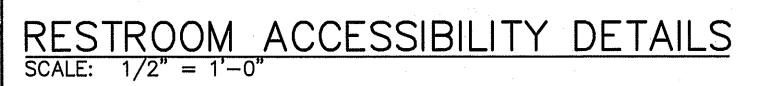
- 1. ALL COLORS, TEXTURES, FINISHES, AND STYLES TO BE SELECTED BY OWNER IN ACCORDANCE WITH CODE REQUIREMENTS AND REQUIREMENTS OF ALL APPLICABLE AUTHORITIES HAVING JURISDICTION.
- 2. PROVIDE SOUND PROOFING INSULATION IN WALLS AROUND RESTROOMS.
- 3. MILLWORK DESIGNED AND PROVIDED BY OTHERS.
- 4. RESTROOM FLOOR AND WALL FINISHES SHALL HAVE HARD, NONABSORBANT SURFACES AND
- COMPLY WITH NCSBC 1210.2.1 AND 1210.2.2 5. PROVIDE WASHABLE SURFACES IN ALL KITCHEN AREAS AS REQUIRED BY LOCAL
- 6. COORDINATE CAN WASH WALL LOCATIONS WITH FIXTURE ROUGH-IN REQUIREMENTS.

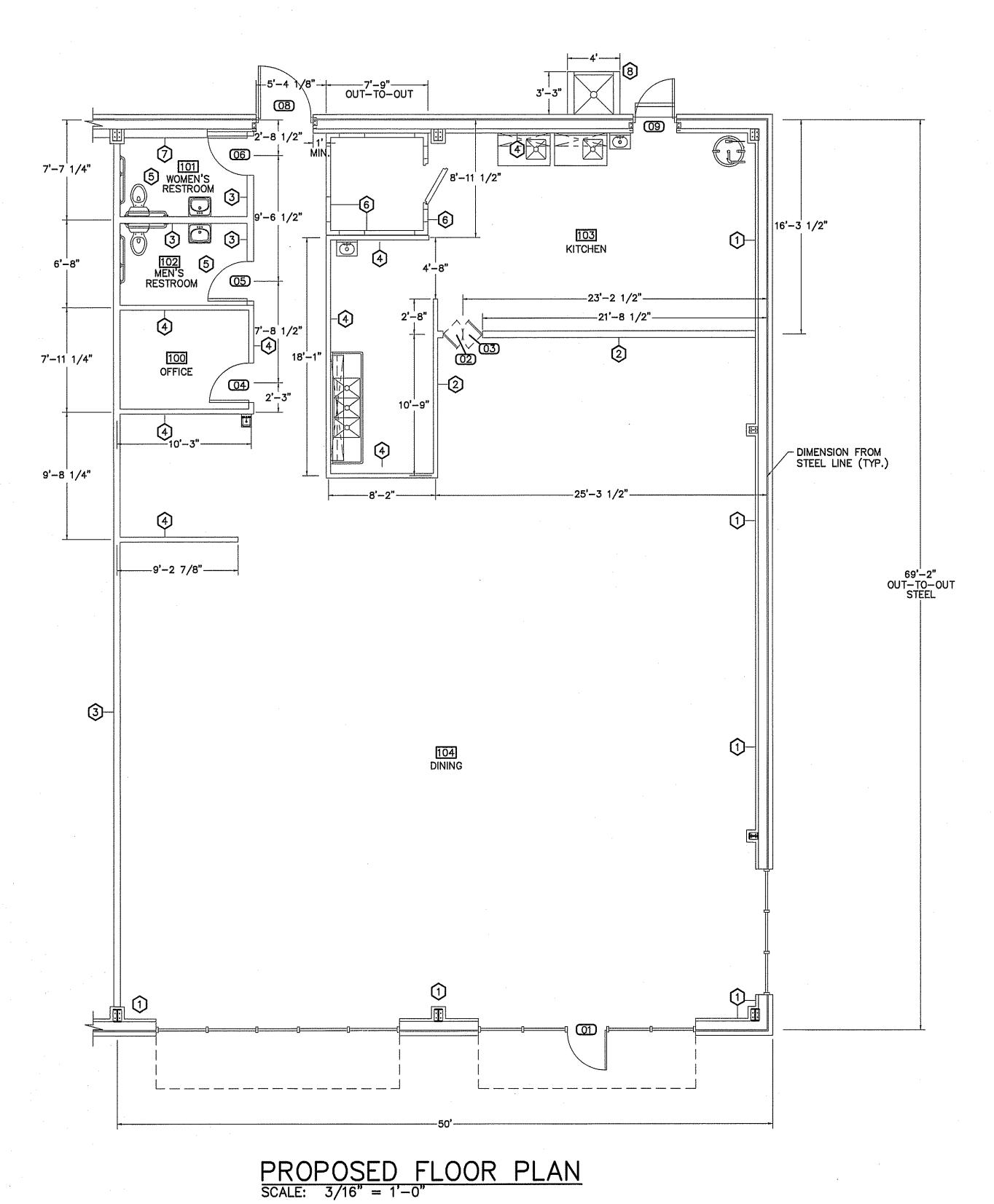
# WALL LEGEND

- 1 2-1/2" FURRING STRIP @ 16" O.C. WITH 5/8" DRYWALL.
- 2 6", 18 GA. METAL STUDS @ 16" O.C., 5/8" DRYWALL, WITH S.S. BACKSPLASH (BY OTHERS)
- 3 2 X 6 WOOD STUDS @ 16" O.C., 5/8" DRWYALL. SEE WALL DETAIL.
- 4 2 X 4 WOOD STUDS @ 16" O.C., 5/8" DRYWALL.
- (5) MAINTAIN ADA CLEARANCES. SEE SHEET LS-1 FOR ADA CLEARANCES.
- 6 2X4 WOOD STUDS @ 16" O.C., 5/8" DRYWALL. DIRECTLY ABOVE COOLER/FREEZER WALLS TO A HEIGHT 6" ABOVE THE ACOUSTICAL CEILING.
- 7 2 X 8 WOOD STUDS @ 16" O.C., 5/8" DRWYALL. SEE WALL DETAIL.
- (8) PROVIDE RAIN COVER FOR CAN WASH.

NOTE: SEE SHEET F-3 FOR HVAC PLATFORM LOCATIONS. WALLS SUPPORTING PLATFORMS TO EXTEND BEYOND CEILING, PLATFORM BEARING HEIGHT = CEILING HT. PLUS 6". INSTALL 2X2 ACOUSTICAL CEILING BELOW PLATFORM.







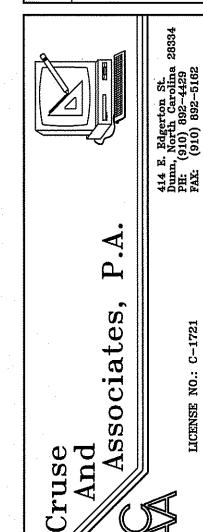
|             |                  |                  | FLOO | R | ВА     | SE          | WA         | ЦS          | CEIL. HT. |         | CLG.                           |         |
|-------------|------------------|------------------|------|---|--------|-------------|------------|-------------|-----------|---------|--------------------------------|---------|
|             | ROOM             |                  |      |   | Щ      | SE.         | Ęij        | E           |           | 크       |                                | REMARKS |
|             | 7100111          | <b>#</b>         |      |   | C TILE | S BA        |            | C TIE       |           | CEILING |                                |         |
|             |                  | 얼문               |      |   | AMIC   | BE.         | E 0        | AMIC        |           |         | STING<br>WOOD                  |         |
| ROOM<br>NO. | ROOM NAME        | CONCRETE CARPET* | AL L |   | WOOD   | RUB<br>NONE | CMU<br>5/8 | CER.<br>FRP |           | 2X2     | EXISTING<br>DRYWALL<br>PLYWOOD |         |
| 100         | OFFICE           | X                |      |   |        | X           | Х          |             | 8'-0"     | Х       |                                |         |
| 101         | WOMEN'S RESTROOM | X                |      |   |        | X           |            | X           |           | X       | ·                              |         |
| 102         | MEN'S RESTROOM   | X                |      |   |        | X           |            | X           | 8'-0"     | X       |                                |         |
| 103         | KITCHEN          | X                |      |   |        | X           |            | X           | 11'-0"    | X       |                                |         |
| 104         | DINING           | X                |      |   |        | Х           | Х          |             | 11'-0"    | X       |                                |         |

OWNER TO VERIFY ALL COLORS AND FINISHES BEFORE ORDERING MATERIALS

|             |       | )0(    | )R     | SCHEDULE   |
|-------------|-------|--------|--------|--|
| DOOR<br>NO. |       | OOR SI |        | REMARKS  |
|             | WIDE  | HIGH   | THICK. |  |
| <u> </u>    | 3'-0" | 7'-0"  | ļ      | NEW EXTERIOR STOREFRONT DOOR W/PANIC HARDWARE*     |
| <u>©2</u>   | 1'-6" | 7'-0"  | 1 3/4" | TWO-WAY DOOR W/VIEW LITE                           |
| <u> </u>    | 1'6"  | 7'-0"  | 1 3/4" | TWO-WAY DOOR W/VIEW LITE                           |
| <b>Q4</b>   | 3'-0" | 7'-0"  | 1 3/4" | NEW INTERIOR WOOD DOOR/H.M. FRAME/VIEW LITE        |
| <u>(05)</u> | 3'-0" | 7'-0"  | 1 3/4" | NEW INTERIOR WOOD DOOR/H.M. FRAME                  |
| <u>(06)</u> | 3'-0" | 7'-0"  | 1 3/4" | NEW INTERIOR WOOD DOOR/H.M. FRAME                  |
| <u>08</u>   | 4'-0" | 7'-0"  | 1 3/4" | NEW EXTERIOR METAL DOOR/H.M. FRAME/PANIC HARDWARE* |
| 09          | 3'-0" | 7'-0"  | 1 3/4" | NEW EXTERIOR METAL DOOR/H.M. FRAME/PANIC HARDWARE* |

VERIFY TYPES AND SIZES WITH OWNER BEFORE ORDERING.
PROVIDE ALL HARDWARE AS REQUIRED. ALL HARDWARE TO BE A.D.A. COMPLIANT.
VERIFY HARDWARE FINISHES & STYLES WITH OWNER BEFORE ORDERING. \*WITH CLOSER

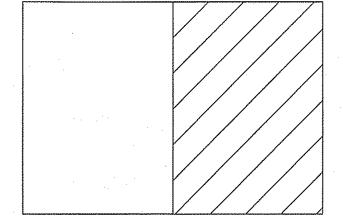
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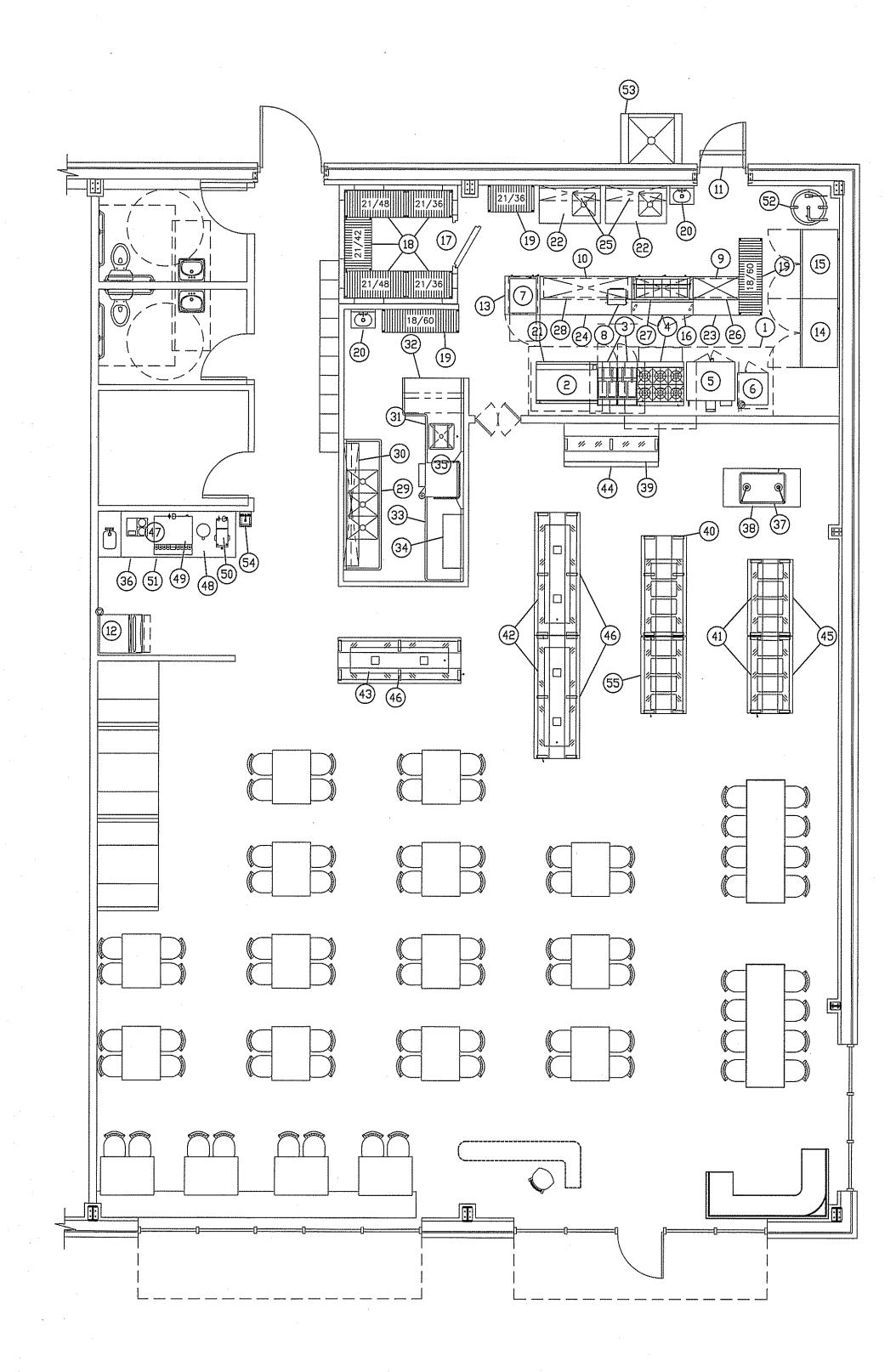
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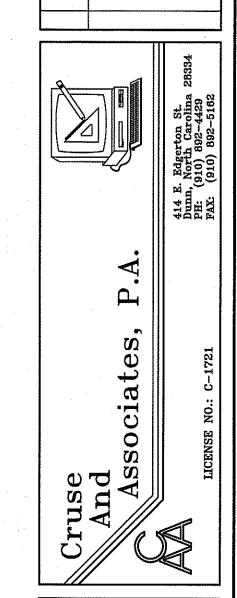
KEY PLAN



EQUIPMENT PLAN
SCALE: 3/16" = 1'-0"

|          |      | EQUIPMENT SCHEDU                      |                |
|----------|------|---------------------------------------|----------------|
| ITEM     | QUAN | DESCRIPTION                           | REMARKS        |
| 1        | 1    | 16'-0"x 54" EXHAUST HOOD SYSTEM       | Fire Suppre    |
| 2        | 1    | 48° Counter-Top GRIDDLE               |                |
| 3        | 2    | FRYER                                 |                |
| 4        | 1    | 6-Burner RANGE w/Oven                 |                |
| 5        | 1    | CONVECTION OVEN                       |                |
| 6        | 1    | UPRIGHT STEAMER                       |                |
| 7        | 1    | 2-Drawer FOOD WARMER                  |                |
| 8        | 1    | FRESH-D-MATIC                         |                |
| 9        | 1    | 30" Dual HEAT LAMP                    |                |
| 10       | 1    | 66" Dual HEAT LAMP                    |                |
| 11       | 1    | 36" FLY FAN w/Micro-Switch            |                |
| 12       | 1    | ICE MACHINE w/Storage Bin             |                |
| 13       | 1    | Under-Counter FREEZER                 |                |
| 14       | 1    | 2-Door FREEZER                        |                |
| 15       | 1    | 2-Door FREEZER                        |                |
| 16       | 1    |                                       |                |
|          |      | 48" SANDWICH UNIT (12-Pan)            |                |
| 17       | 1    | 7'-9"× 7'-9" WALK-IN COOLER           |                |
| 18       | 5    | Walk-In Cooler SHELVING UNIT          |                |
| 19       | 3    | Dry Storage SHELVING UNIT             |                |
| 20       |      | S/S HAND SINK w/Side Splashes         |                |
| 21       | 1    | 48" S/S EQUIPMENT STAND w/Casters     |                |
| 55       | 11   | 30"x 48" S/S PREP TABLE w/Sink        | 18"× 18" Bo    |
| 23       | 1    | 30"x 36" S/S WORK TABLE               |                |
| 24       | 1    | 30"x 72" S/S WORK TABLE               |                |
| 25       | 11   | 12"x 48" S/S WALL SHELF               |                |
| 26       | 1    | 18"x 36" S/S Double DVERSHELF         |                |
| 27       | 1    | 18"x 48" S/S Double OVERSHELF         |                |
| 28       | 1    | 18"x 72" S/S Double OVERSHELF         |                |
| 29       | 1    | 3-Compartment SINK w/2-24" DB's       | 18"x 24" Bo    |
| 30       |      | 12"x 96" S/S WALL SHELF w/Pot Rack    |                |
| 31       | 1    | 66"x 48" S/S Solled DISH TABLE w/Pre- | Rinse          |
| 32       | 1    | 48" Double-Sided RACK SHELF           |                |
| 33       | 1    | 66" S/S Clean DISH TABLE              |                |
| 34       | 1    | 42" S/S Slanted RACK SHELF            |                |
| 35       | 1    | Ventless DOOR-TYPE DISH MACHINE       | BY₁□thers      |
| 36       | 1    | 36"x 9'-0" S/S BEVERAGE STATION W/Ha  | nd Sink        |
| 37       | 1    | Portable CARVING STATION              |                |
| 38       | 1    | 60" Solld-Top UNIT                    |                |
| 39       | 1    | 74" Solld-Top UNIT                    |                |
| 40       | 1    | HOT FOOD BUFFET w/6-Hot Wells         |                |
| 41       | 2    | 4-Well HOT FOOD UNIT                  |                |
| 42       | 2    | 96' COLD FOOD UNIT                    |                |
| 43       | 1    | 96' COLD FOOD UNIT                    | SALAD BAR      |
| 44       | 1    | 74" Half BUFFET SHIELD                |                |
| 45       | 2    | 60" BUFFET SHEILD                     |                |
| 46       | 3    | 96' BUFFET SHEID                      |                |
| 47       | 1    | BEVERAGE/ICE DISPENSER                | BYı□thers      |
| 48       | 1    | TEA BREWER                            | BYı□thers      |
| 49       | 1    | TEA DISPENSER                         | BYı□thers      |
| 50       |      | COFFEE BREWER                         | BY:□thers      |
| 51       |      | BAG-N-BOX (Under Item #36)            | BYı□thers      |
| 52       | 1    | WATER HEATER                          | BY₁□thers      |
| 53       |      | CAN WASH                              | BY:0thers      |
| 54       |      | S.S. HANDSINK                         | BYiOthers      |
| <u> </u> |      | 139" BUFFET SHIELD                    | Taring Aires a |

PLANS FOR:
MAMA B'S
SOUTHERN KITCHEN



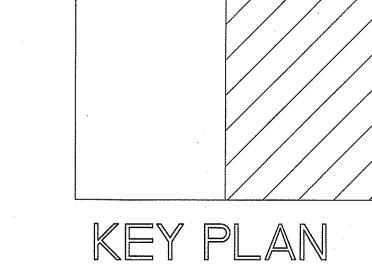
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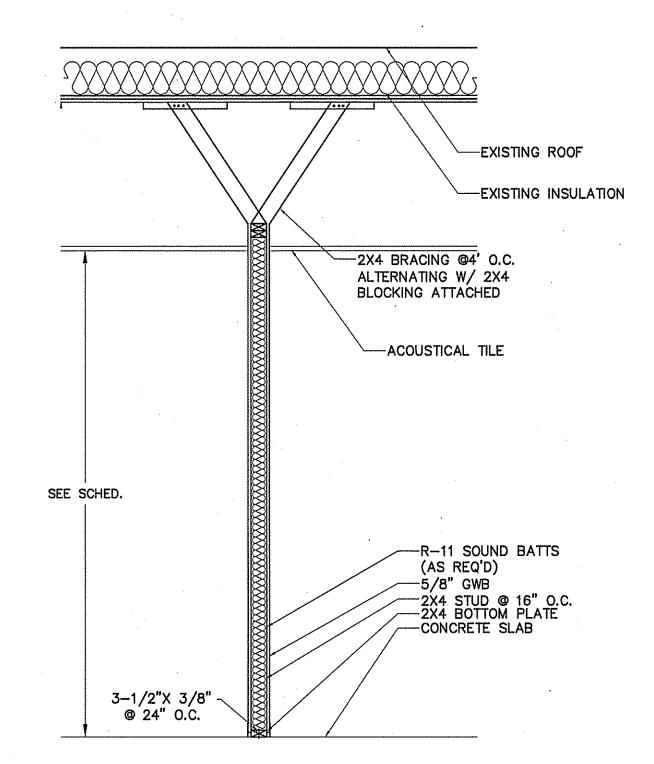
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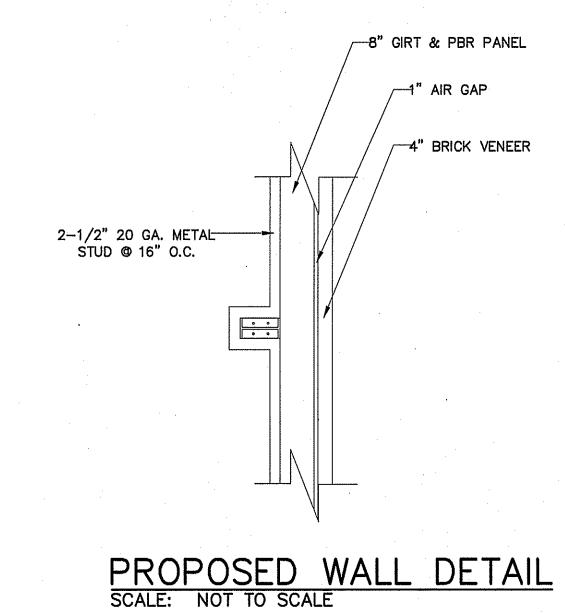
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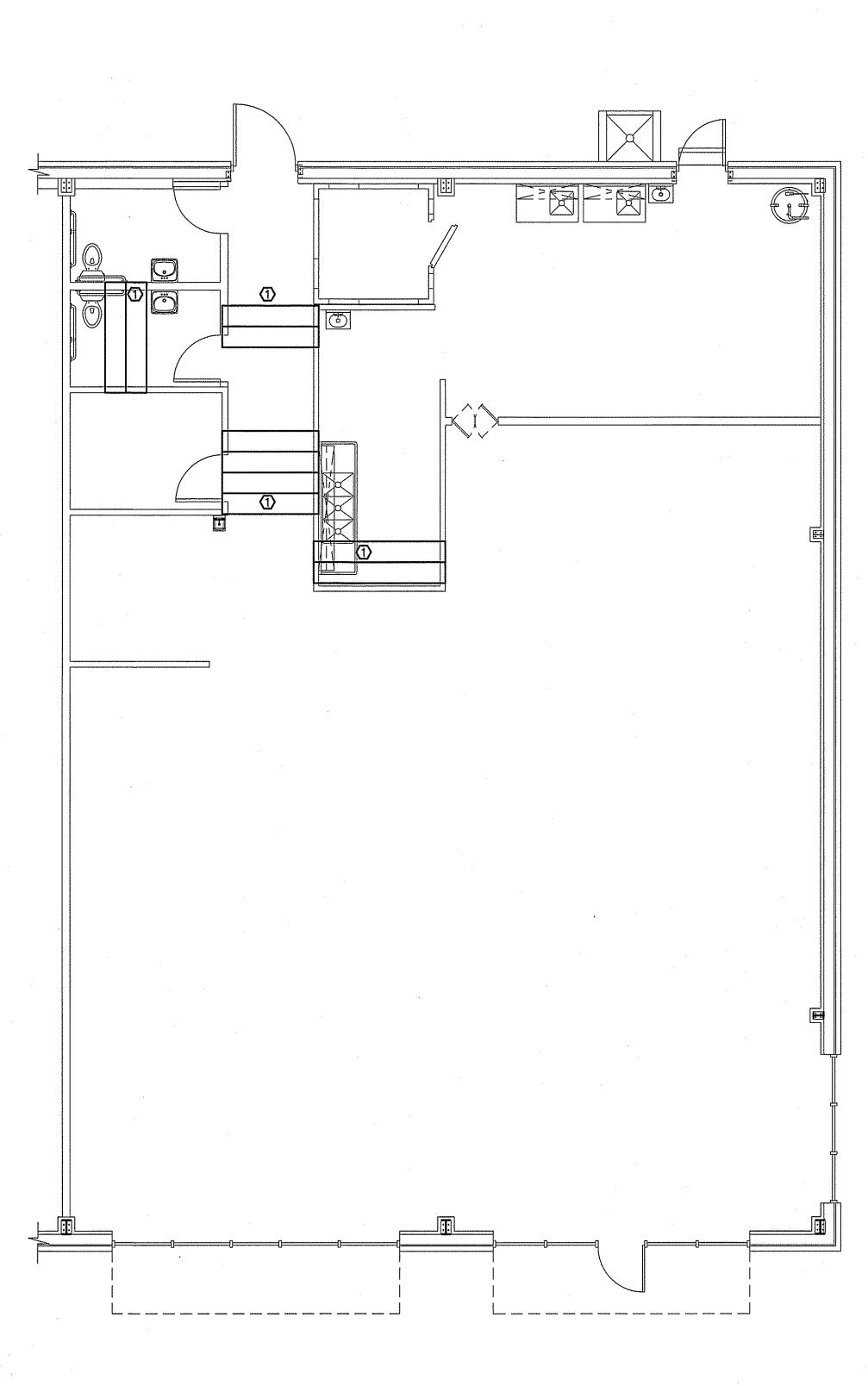
WOOD INTERIOR WALL SECTION
SCALE: NONE



# KEY NOTES:

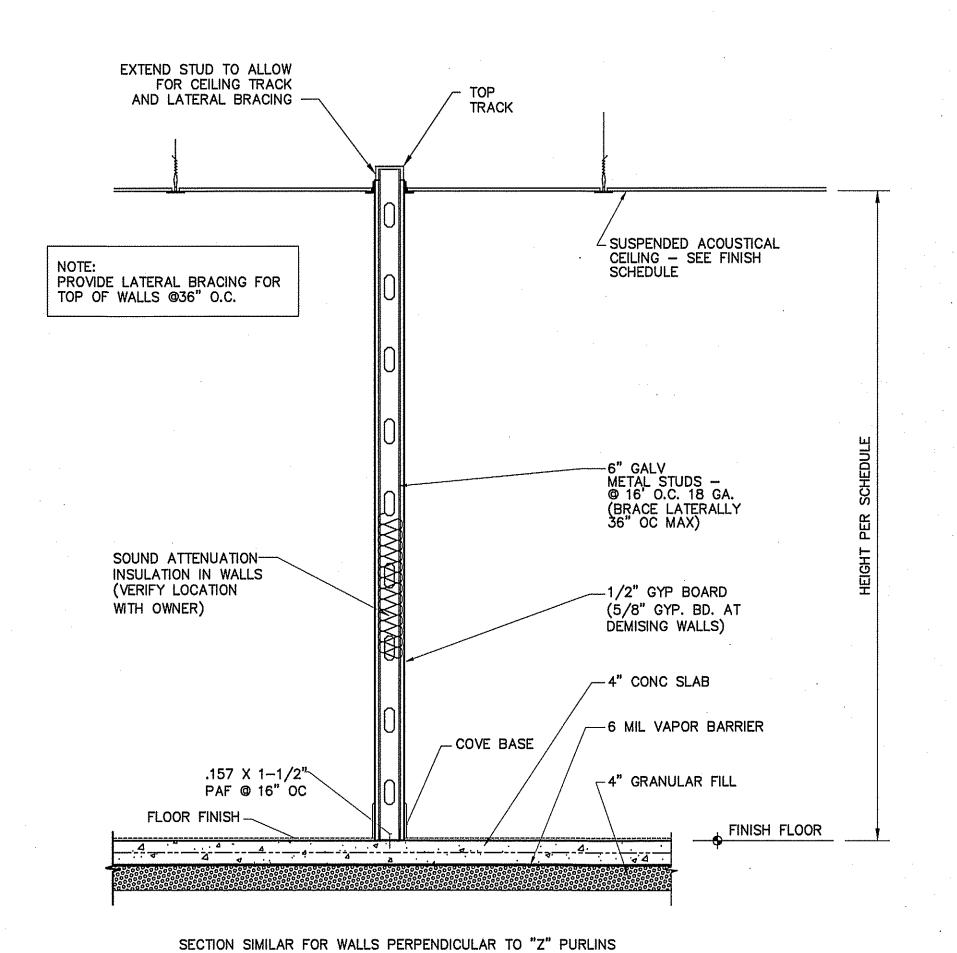
B-1 (2) 2X8

2X8 CEILING JOISTS @ 16' O.C. PROVIDE 3/4" PLYWOOD DECK FOR MECHANICAL EQUIPMENT. SEE SHEET F-1 FOR WALL HEIGHTS. INSTALL 2X2 ACOUSTICAL CEILING BELOW PLATFORM.

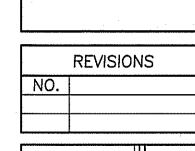


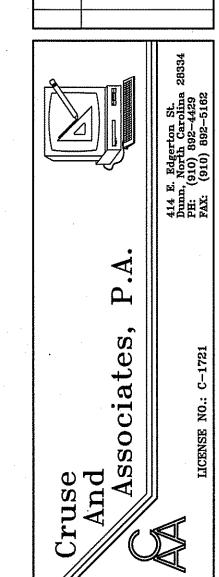
HVAC PLATFORM DETAILS

SCALE: 3/16" = 1'-0"



TYPICAL METAL STUD INTERIOR WALL SECTION SCALE: NONE



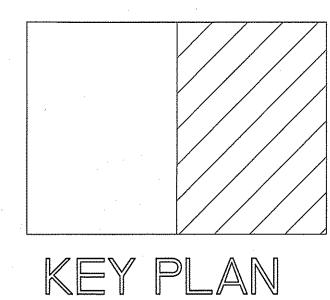


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SHEET NO. F-3 OF 3



| PLUM                                      | BING   | LEGE                 | END                     |   |
|---|--|----------------------|-------------------------|---|
| DESCRIPTION                               | S'   | YMBOL                |                         |   |
| COLD WATER -                              |  |                      |                         | - CW                                    |
| HOT WATER                                 | 2 4 4mmmiggs                                       |                      | .,_                     | — нw                                    |
| COLD WATER (FILTERED)                     |  |                      | — <u>L</u>              |   |
| RECIRCULATED WATER -                      |  | •                    |                         | HW                                      |
| VENT PIPING                               |  |                      |                         | V                                       |
| WASTE PIPING                              | NEW  |                      | EXISTING                | w                                       |
| CLEAN OUT IN GRADE                        | 0  | C.O.I.G.             |                         |   |
| FLOOR CLEAN OUT                           | 0  | F.C.O.               |                         | • •                                     |
| NON FREEZE HOSE BIBB                      | <del>'                                      </del> | - NFHB               |                         |   |
| FLOOR DRAIN                               | 0  | F.D.                 |                         |   |
| CHECK VALVE                               | <b>→</b> ↑   | ·                    |                         |   |
| BALL VALVE                                | \ <u>₩</u>   |                      |                         |   |
| GATE VALVE                                | M  |                      |                         |   |
| SHUT-OFF VALVE                            | ×  |                      | the block of the second |   |
| DOUBLE CHECK VALVE                        | - N  | W##                  |                         |   |
| FIXTURE DESIGNATION                       | P  |                      |                         |   |
| MOUNTING HEIGHT                           | МН   |                      |                         |   |
| POINT OF CONNECTION NEW TO EXISTING       | 0  |                      |                         |   |
| FLOOR SINK                                | 4  |                      |                         |   |
| SHOCK ABSORBER<br>V/BALL VALVE SHUT—OFF S | — ф- <i>∞</i>                                      | SIZE PER<br>RECOMMEN |                         |   |
| CHANGE IN PIPE SIZE                       | —— <b>&gt;</b>                                     |                      |                         | *************************************** |

| PLU                             | PLUMBING CALCULATIONS |         |       |        |         |         |                  |         |  |  |  |  |  |  |
|---------------------------------|-----------------------|---------|-------|--------|---------|---------|------------------|---------|--|--|--|--|--|--|
| ITEM                            | # OF                  | FIXTURE | UNITS | (EACH) | FIXTURE | (TOTAL) | FIXTURE<br>UNITS |         |  |  |  |  |  |  |
|                                 | η, O.                 | COLD    | HOT   | TOTAL  | COLD    | HOT     | TOTAL            | (WASTE) |  |  |  |  |  |  |
| FLUSH TANK-H.C.<br>WATER CLOSET | 2                     | 5.0     |       | 5.0    | 10      | _       | 10               | 4/8     |  |  |  |  |  |  |
| LAVATORY                        | 6                     | 1.5     | 1.5   | 2      | 9.0     | 9.0     | 12.0             | 1/6     |  |  |  |  |  |  |
| JANITOR'S SINK                  | 1                     | 2.25    | 2.25  | 3      | 2.25    | 2.25    | 3.0              | 1/1     |  |  |  |  |  |  |
| PREP SINK                       | 2                     | 3       | 3     | 4.0    | 6       | 6       | 8.0              | 3/6     |  |  |  |  |  |  |
| 3 COMPARTMENT SINK              | 1                     | 3       | 3     | 4.0    | 3       | 3       | 4.0              | 3/9     |  |  |  |  |  |  |
| ICE MACHINE                     | 1                     | .25     |       | .25    | .25     |         | .25              | .5/1    |  |  |  |  |  |  |
| N.F.H.B.                        | 2                     | 3.0     |       | 3.0    | 6       | _       | 6.0              | .5/1.0  |  |  |  |  |  |  |
| DISHWASHER                      | 1                     |         | 1.4   | 1.4    |         | 1.4     | 1.4              | 2/2     |  |  |  |  |  |  |
| Т                               | OTAL                  | 18.0    | 11.15 | 22.65  | 39.5    | 24.65   | 44.65            | 31.0    |  |  |  |  |  |  |

WATER SUPPLY PIPE SIZE: 1-1/4" MINIMUM

| PLUMBING CONNECTION SCHEDULE |      |         |       |        |  |  |  |  |  |  |
|------------------------------|------|---------|-------|--------|--|--|--|--|--|--|
| FIXTURE                      | C.W. | H.W.    | WASTE | VENT   |  |  |  |  |  |  |
| FLUSH TANK<br>WATER CLOSET   | 1/2" | <b></b> | 3"    | . 2"   |  |  |  |  |  |  |
| LAVATORY                     | 1/2" | 1/2"    | 2"    | 1 1/2" |  |  |  |  |  |  |
| ELEC. WATER<br>COOLER        | 1/2" | <u></u> | 2"    | 1 1/2" |  |  |  |  |  |  |
| SERVICE SINK                 | 1/2" | 1/2"    | 2"    | 1 1/2" |  |  |  |  |  |  |
| HOSE BIBBS                   | 1/2" | 1/2"    | _     |        |  |  |  |  |  |  |
| FLOOR DRAIN                  | ·    |         | 3"    | 2"     |  |  |  |  |  |  |

1/2"

1/2"

# NOTES:

KITCHEN SINKS

DISHWASHER

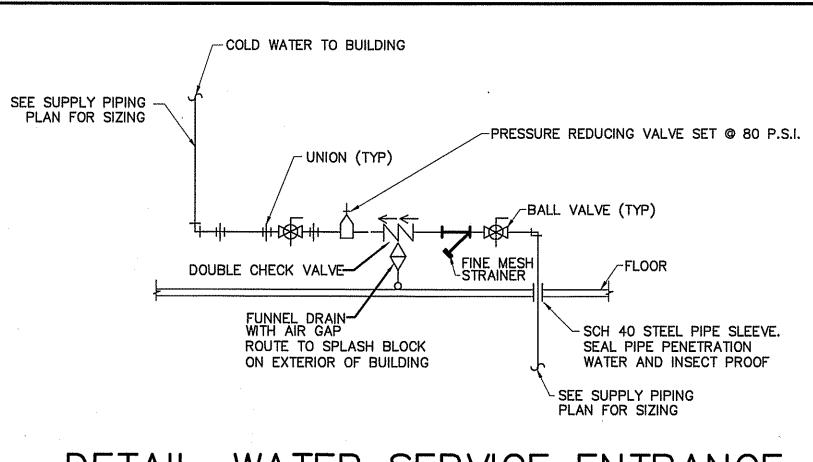
1/2"

GPM = 27.5

INSTALL THERMOSTATICALLY CONTROLLED MIXING VALVES AS NEEDED TO ENSURE HOT WATER TEMPERATURE TO ALL HAND WASHING LOCATIONS DOES NOT EXCEED 110°F.

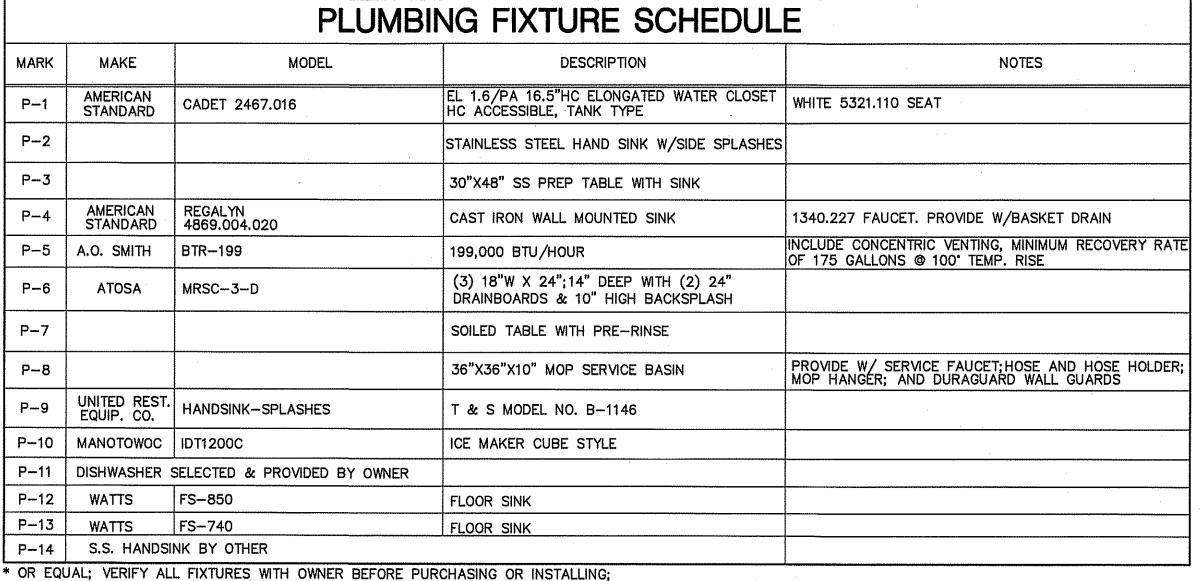
2"

1 1/2"



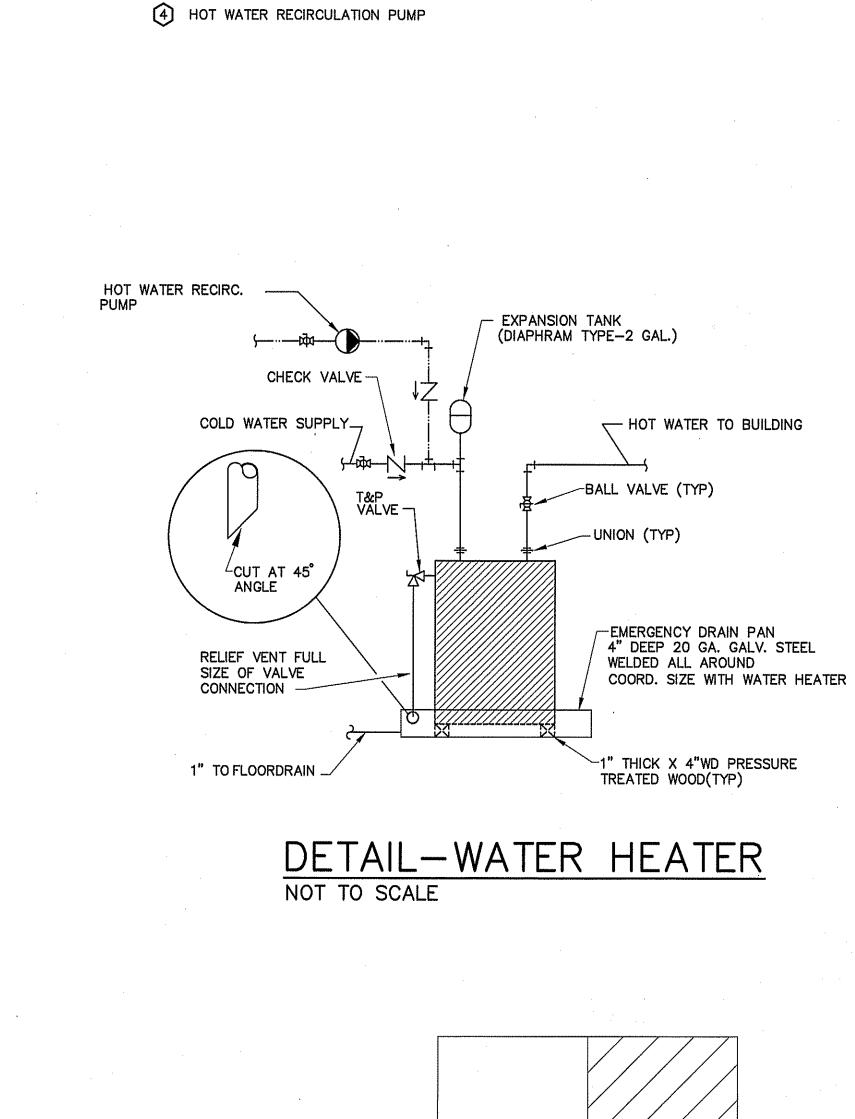
DETAIL-WATER SERVICE ENTRANCE AS REQUIRED

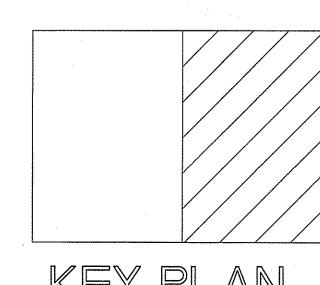
NOT TO SCALE



**KEY NOTES:** 

- 1 WATER FILTER
- 2 ELECTRICAL PANEL CLEARANCE AREA. NO PLUMBING SUPPLY PIPING IN THIS AREA.
- 3 DESIGNATED HVAC SERVICE ACCESS SPACE. COORDINATE PIPE LOCATIONS WITH HVAC PLAN.





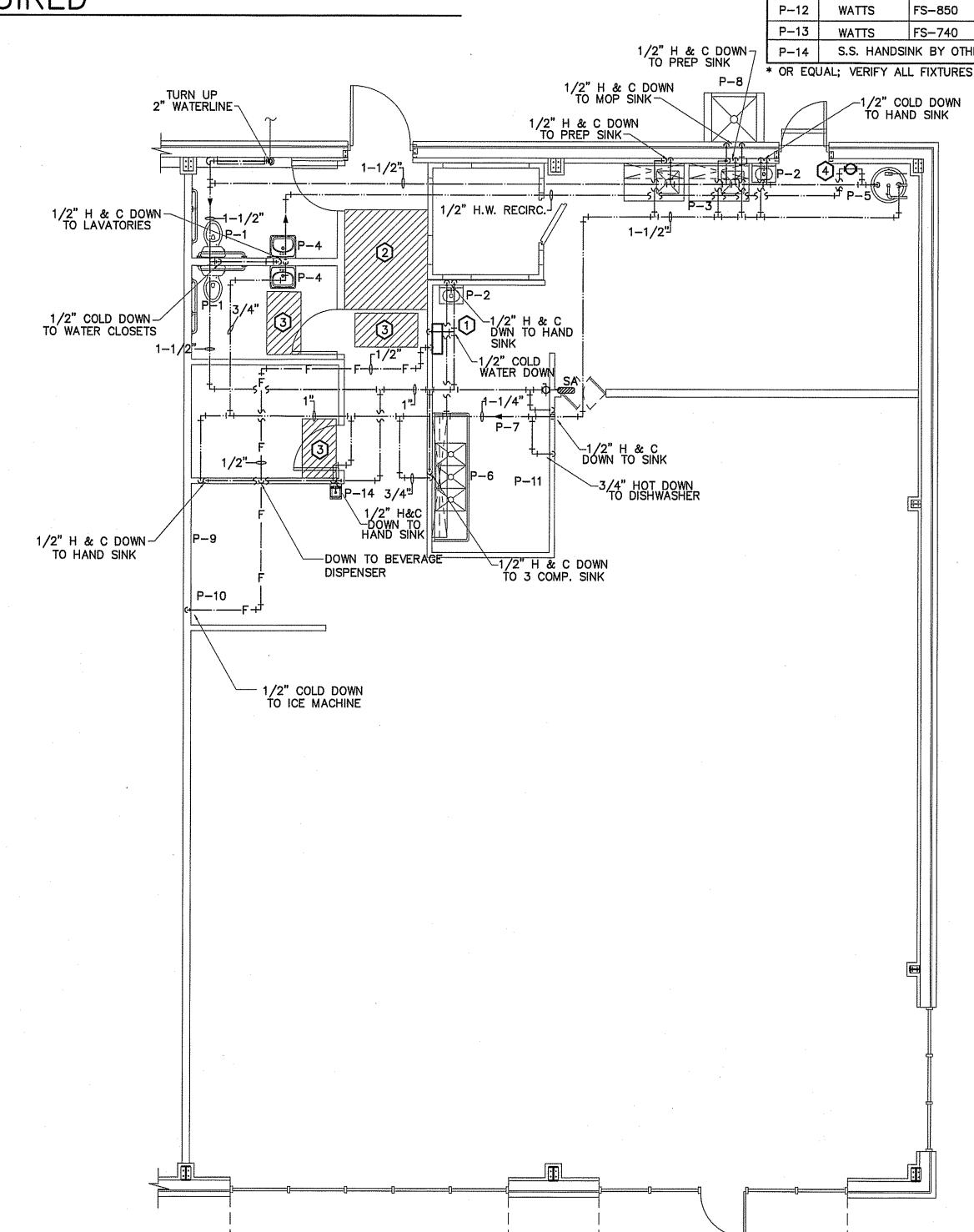
KEY PLAN

REVISIONS

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DATE 08-09-24 DRAWN BY BAM JOB NO. 24-16

SHEET NO. P-1 OF 3



PLUMBING SUPPLY PIPING PLAN SCALE: 3/16" = 1'-0"

| PLUME                                     | BING                                    | LEGEND                                  |      |
|---|---|---|------|
| DESCRIPTION                               | S'                                      | YMBOL                                   |      |
| COLD WATER -                              |   | , | CW   |
| HOT WATER -                               |   | .,                                      | НМ   |
| COLD WATER (FILTERED)                     | *************************************** |   |      |
| RECIRCULATED WATER -                      |   |   | Н۷   |
| VENT PIPING                               |   |   | v    |
| WASTE PIPING                              | NEW                                     |   | —— w |
| CLEAN OUT IN GRADE                        | 0                                       | C.O.I.G.                                |      |
| FLOOR CLEAN OUT                           | 0                                       | F.C.O.                                  |      |
| NON FREEZE HOSE BIBB                      | — <del> </del>                          | - NFHB                                  |      |
| FLOOR DRAIN                               | 0                                       | F.D.                                    | •    |
| CHECK VALVE                               | <b>→</b>   ¬                            |   |      |
| BALL VALVE                                | <b>₩</b>                                | ·                                       |      |
| GATE VALVE                                | $\bowtie$                               |   |      |
| SHUT-OFF VALVE                            | .                                       |   |      |
| DOUBLE CHECK VALVE                        | -N                                      | <u> </u>                                |      |
| FIXTURE DESIGNATION                       | P                                       |   |      |
| MOUNTING HEIGHT                           | МН                                      |   |      |
| POINT OF CONNECTION NEW TO EXISTING       | 0                                       |   |      |
| FLOOR SINK                                |   |   |      |
| SHOCK ABSORBER<br>N/BALL VALVE SHUT-OFF S | ŞΑ<br>                                  | SIZE PER MANUF.<br>RECOMMENDATIONS      |      |
| CHANGE IN PIPE SIZE                       | — Þ                                     |   |      |

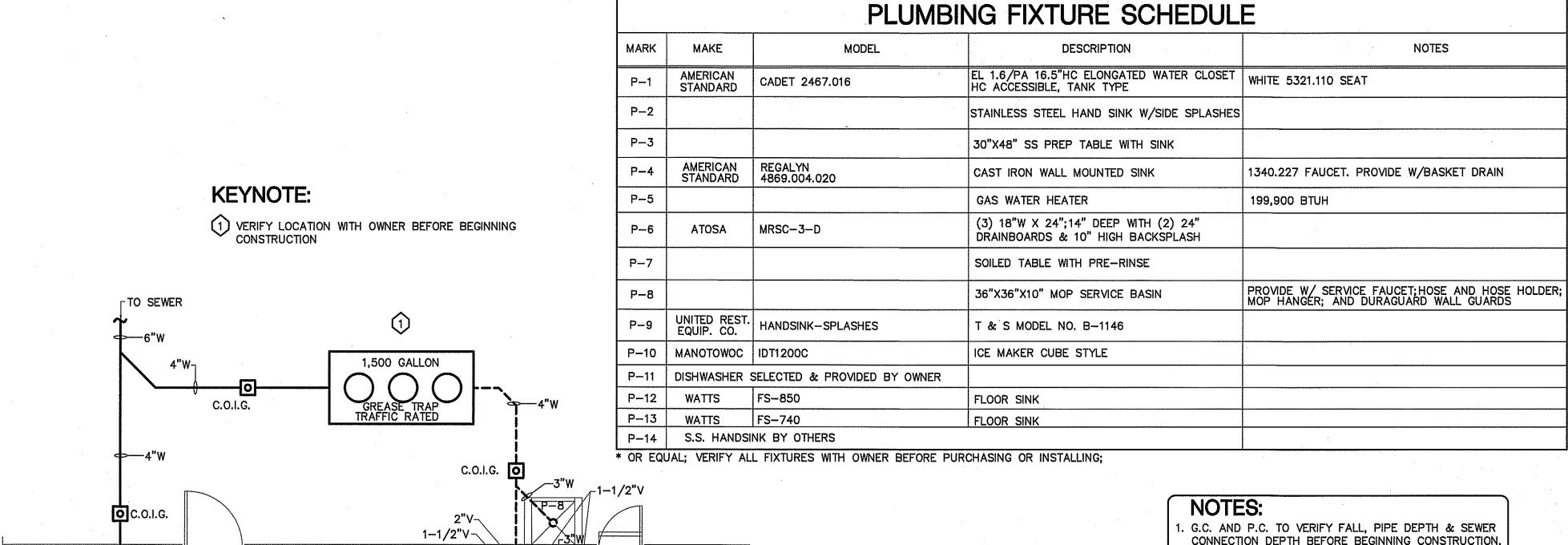
| PLUMBING CONNECTION SCHEDULE |      |      |       |        |  |  |  |  |  |  |
|------------------------------|------|------|-------|--------|--|--|--|--|--|--|
| FIXTURE                      | C.W. | H.W. | WASTE | VENT   |  |  |  |  |  |  |
| FLUSH TANK<br>WATER CLOSET   | 1/2" |      | 3"    | 2"     |  |  |  |  |  |  |
| LAVATORY                     | 1/2" | 1/2" | 2"    | 1 1/2" |  |  |  |  |  |  |
| ELEC. WATER<br>COOLER        | 1/2" | . —  | 2"    | 1 1/2" |  |  |  |  |  |  |
| SERVICE SINK                 | 1/2" | 1/2" | 2"    | 1 1/2" |  |  |  |  |  |  |
| HOSE BIBBS                   | 1/2" | 1/2" | uws.  |        |  |  |  |  |  |  |
| FLOOR DRAIN                  |      |      | 3"    | 2"     |  |  |  |  |  |  |
| KITCHEN SINKS                | 1/2" | 1/2" | 3"    | 2"     |  |  |  |  |  |  |
| DISHWASHER                   |      | 1/2" | 2"    | 1 1/2" |  |  |  |  |  |  |

1-1/2"V~

4"W W.C.O

P-12

PLUMBING WASTE & VENT PIPING PLAN
SCALE: 3/16" = 1'-0"

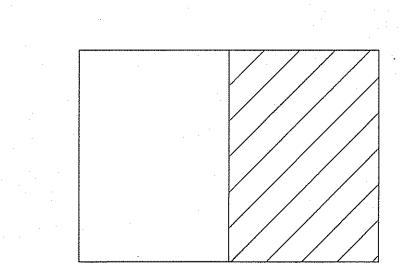


. G.C. AND P.C. TO VERIFY FALL, PIPE DEPTH & SEWER

2. COORDINATE WASTE PIPING ROUTE TO AVOID LARGE FOOTING LOCATIONS WHERE POSSIBLE.

FLOOR SINK OR FLOOR DRAIN

INDIRECT/FLOOR SINK DETAIL NOT TO SCALE



KEY PLAN

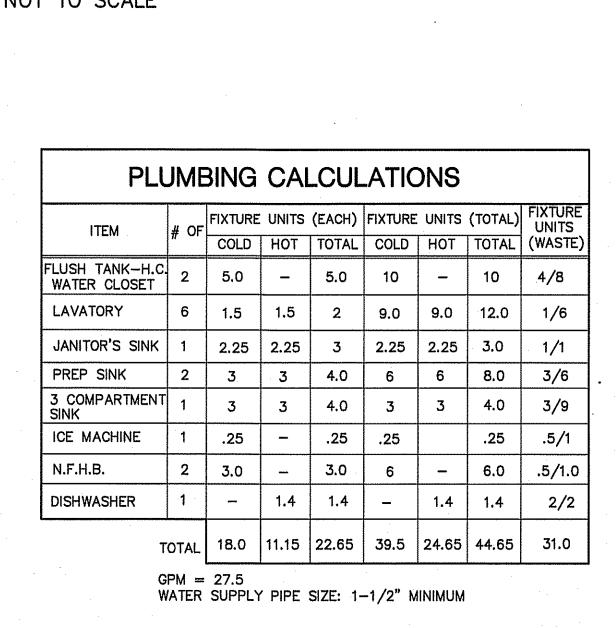
**REVISIONS** 

1. 06/27/2024

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DATE 08-09-24 DRAWN BY BAM JOB NO. 24-16

SHEET NO.



| I L   |                          |                                   | ING FIXTURE SCHEDUL  |   |
|---|--------------------------|-----------------------------------|--|---|
| ON SYMBOL   | MARK MAKE                | MODEL                             | DESCRIPTION  | NOTES   |
| cw  | P-1 AMERICAN STANDARD    | CADET 2467.016                    | EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET HC ACCESSIBLE, TANK TYPE      | WHITE 5321.110 SEAT   |
| HW  | P-2                      |                                   | STAINLESS STEEL HAND SINK W/SIDE SPLASHES                              |   |
|   | P-3                      |                                   | 30"X48" SS PREP TABLE WITH SINK  |   |
| · • • • • • • • • • • • • • • • • • • •   | P-4 AMERICAN<br>STANDARD | REGALYN<br>4869.004.020           | CAST IRON WALL MOUNTED SINK  | 1340.227 FAUCET. PROVIDE W/BASKET DRAIN   |
| · · · · · · · · · · · · · · · · · · ·   | P-5                      |                                   | GAS WATER HEATER   | 199,900 BTUH  |
|   | P-6 ATOSA                | MRSC-3-D                          | (3) 18"W X 24";14" DEEP WITH (2) 24" DRAINBOARDS & 10" HIGH BACKSPLASH |   |
| ·   | P-7                      |                                   | SOILED TABLE WITH PRE-RINSE  |   |
| O C.O.I.G.  | P-8 MUSTEE               | 65M                               | 36"X24"X10" MOP SERVICE BASIN  | PROVIDE W/ SERVICE FAUCET; HOSE AND HOSE HOLDER MOP HANGER; AND DURAGUARD WALL GUARDS |
| O F.C.O.  | P-9 UNITED RES           | T. HANDSINK-SPLASHES              | T & S MODEL NO. B-1146   |   |
| — I )II NFHB  | P-10 MANOTOWOO           |                                   | ICE MAKER CUBE STYLE   |   |
|   |                          | SELECTED & PROVIDED BY OWNER      |  |   |
| _ <del>_</del> >  | P-12 WATTS P-13 WATTS    | FS-850<br>FS-740                  | FLOOR SINK FLOOR SINK  |   |
| N&1   | P-14 S.S. HAND           | SINK SELECTED BY OWNER            |  |   |
| T 1   |                          | ALL FIXTURES WITH OWNER BEFORE PL | JRCHASING OR INSTALLING;   |   |
|   |                          |                                   |  |   |
| <b>→</b>  |                          |                                   |  |   |
|   |                          |                                   |  |   |
| P   |                          |                                   | _3"VTR 1,500 G   | GALLON 2"V  |
| мн  |                          |                                   | GREASE<br>TRAFFIC  | TRAP  |
| 8   |                          |                                   |  |   |
|   |                          |                                   |  | 4"W   |
| SA SIZE PER MANUF. RECOMMENDATIONS  |                          |                                   |  | $\langle \rangle$   |
|   |                          |                                   | 600  | C.O.I.G. P-8  |
| 6"W   |                          |                                   | 4"W  | 3"W<br>P-13<br>4"W  |
|   |                          | 4"W<br>C.O.I.G.                   | 3"V————————————————————————————————————                                | 2"V<br>P-2 2"V-   |
|   |                          |                                   | 3"W-<br>P-1<br>O. 3"W  | 1-1/2"V-  |
|   |                          | W.C.(                             |  | 2 V   |
| UMBING NOTES  |                          |                                   | P-1  | 1-1/2"V————2"V  |
| E IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND N<br>LL COORDINATE PIPING WITH ALL OTHER TRADES.<br>. REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS FOR I<br>. FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNI  | DIMENSIONS.              |                                   |  | 4"W-  |
| TALS.  SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES  SS AND FLOOR OPENINGS.  BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE  ALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THI  RESOLDERED OR REPLACED AND RETESTED.  HALL BE OF THE LEAD FREE TYPE. | . (REFER TO SPECIF       | ICATIONS.)                        |  | P-9 P-13  |
| HALL BE OF THE LEAD FREE TYPE.<br>R SHALL BE SUPPLIED WITH FACTORY INSTALLED T&P VALVES A<br>SOLATION VALVES.   | AND SHALL HAVE           |                                   |  |   |

10. DOMESTIC WATER SUPPLY PIPING SHALL BE COPPER OR CPVC.

TOILETS WHERE HOSE BIBS ARE PROVIDED.

VAPOR BARRIER SHALL BE APPLIED TO EACH.

11. WASTE AND VENT PIPING SHALL BE SCH. 40 PVC OR HEAVY DUTY CAST IRON UNDER TRAFFIC AREAS.

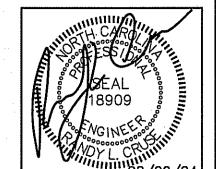
13. ALL FLOOR DRAINS & HUB DRAINS SHALL BE PROVIDED WITH TRAP PRIMER EXCEPT FLOOR DRAINS IN

12. INSTALL THERMOSTATICALLY CONTROLLED MIXING VALVES AS NEEDED TO ENSURE HOT WATER

TEMPERATURE TO ALL HAND WASHING LOCATIONS DOES NOT EXCEED 110F.

14. HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBROUS GLASS INSULATION.

COLD WATER PIPING SHALL BE INSULATED WITH 1/2" FIBROUS GLASS INSULATION.



SOUTHERN KITCHEN COATS, NORTH CAROLINA

REVISIONS NO.

.A.

use And Associates, P.A

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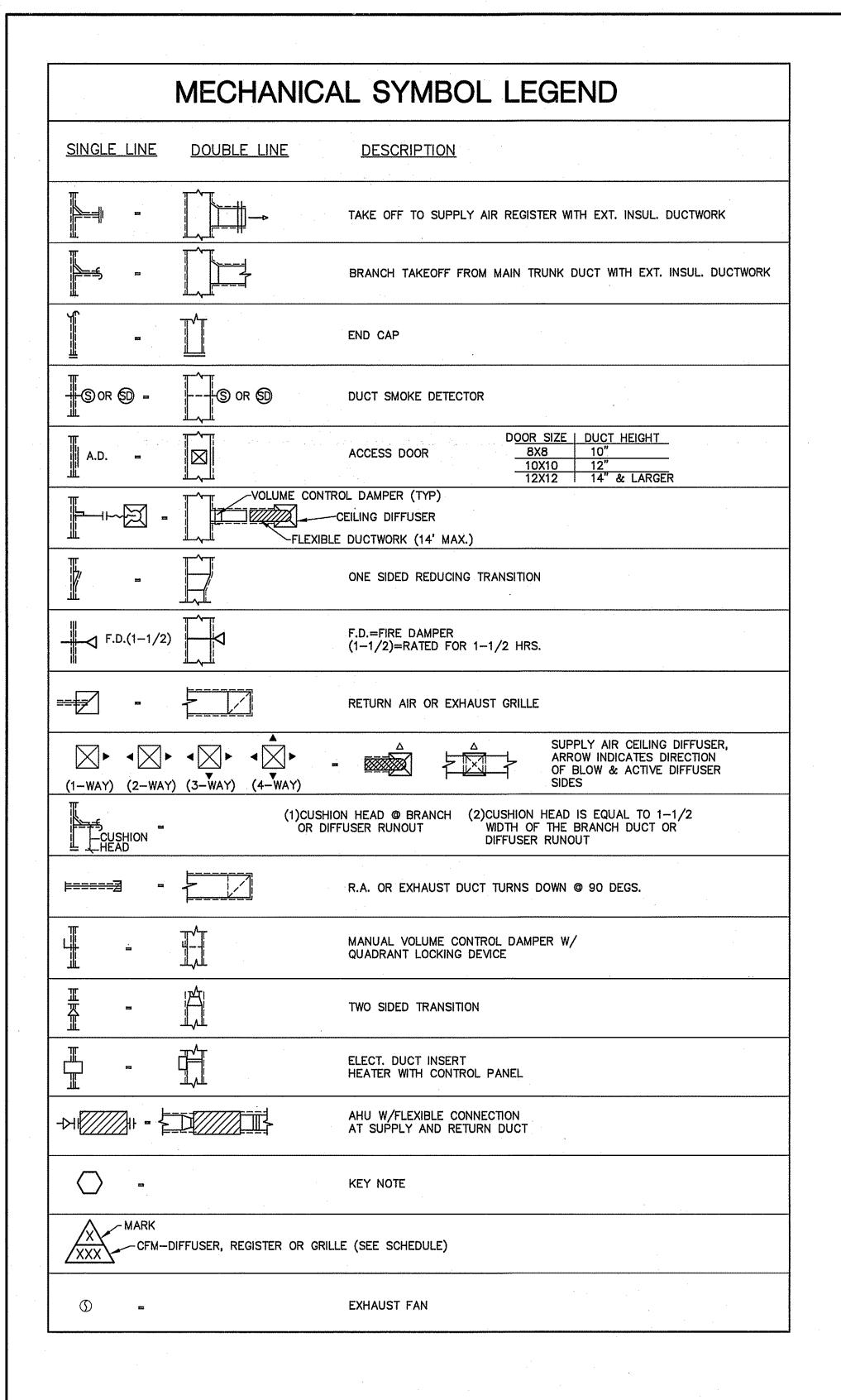
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DATE 08-09-24 DRAWN BY BAM JOB NO. 24-16

SHEET NO.
P-3 OF 3

PLUMBING WASTE & VENT RISER DIAGRAM SCALE: NOT TO SCALE

**≫** w.c.o.

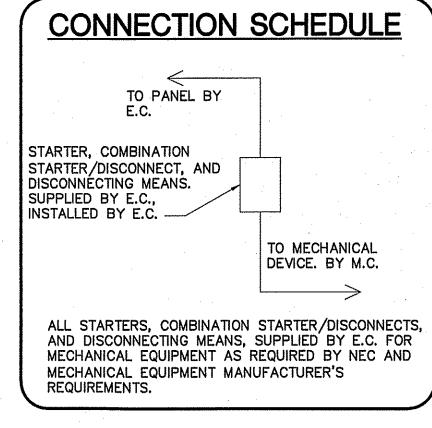


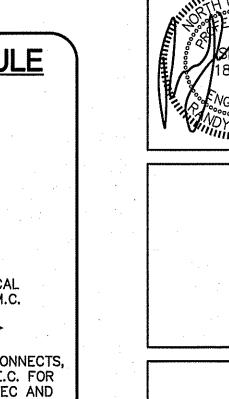
## **KEY NOTES:**

SEE SHEET P-1 TO MAINTAIN CLEARANCE FOR ABOVE CEILING AHU ACCESS

# NOTE:

VERIFY LOCATION OF THERMOSTATS WITH OWNER BEFORE BEGINNING CONSTRUCTION. USE RETURN DUCT SENSOR IF OWNER DESIRES REMOTE THERMOSTAT LOCATIONS.





SOUTHERN KITCHEN
COATS, NORTH CAROLINA

REVISIONS NO.

P.A. 414 E. Edgerton St. Dunn, North Carolina 28334 PH: (910) 892-4429

Cruse And Associates, P

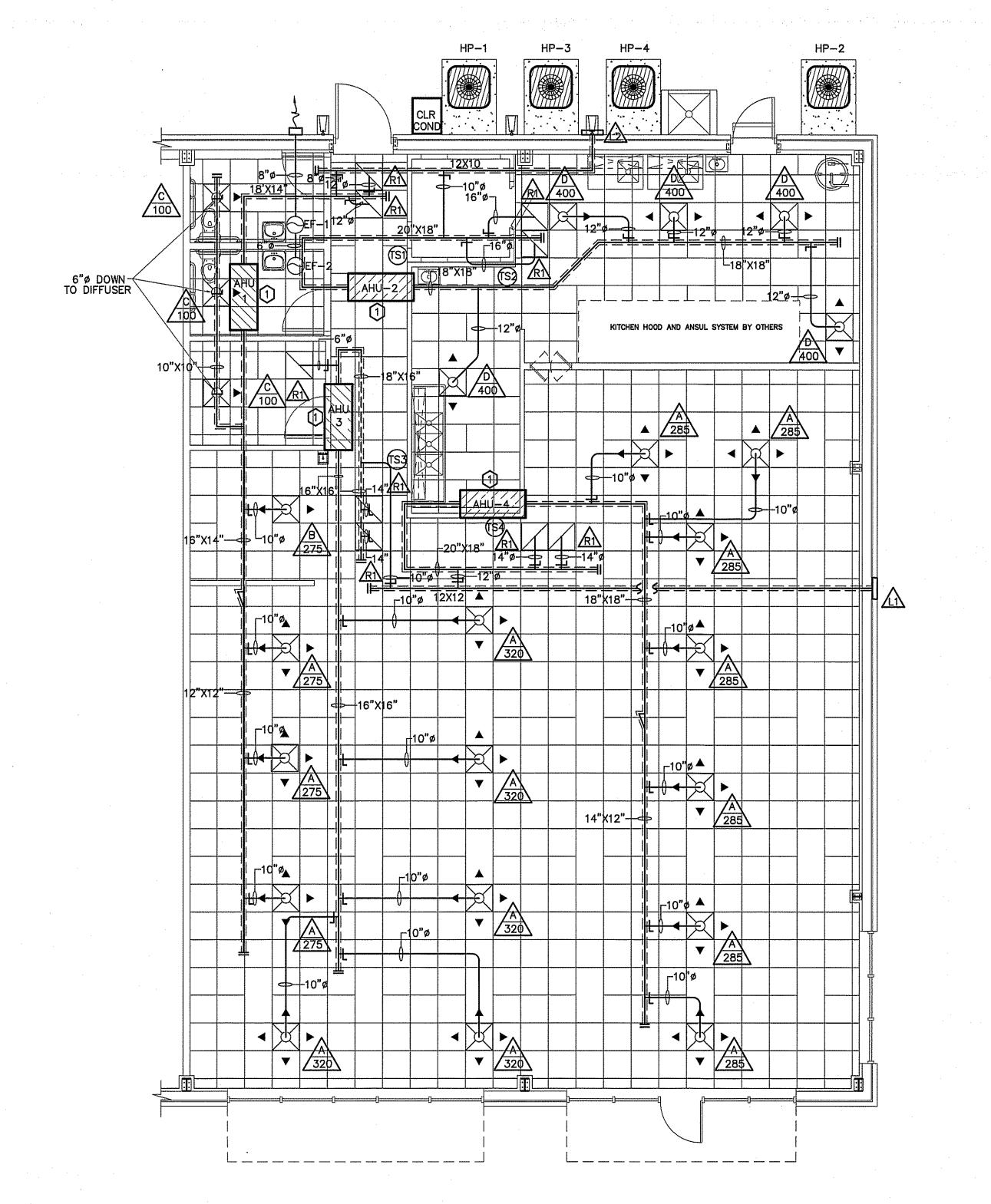
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DATE 08-09-24
DRAWN BY BAM
JOB NO. 24-16

SHEET NO.
M-1 OF 3

KEY PLAN



MECHNICAL HVAC PLAN
SCALE: 3/16" = 1'-0"

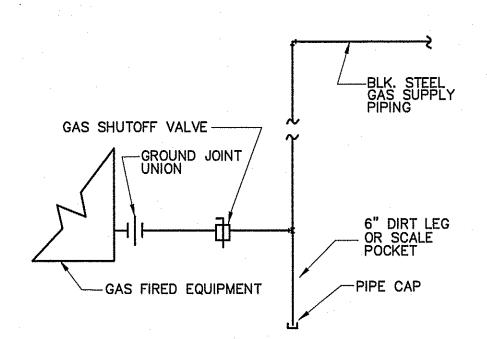
### GAS PIPING NOTES

- 1. METALLIC GAS PIPING SHALL BE STEEL PIPE COMPLYING WITH ANSI B36.10, ASTM A 53 OR ASTM A 106. COPPER OR BRASS PIPE IN STEEL PIPE SIZES ASSEMBLED WITH THREADED FITTINGS OF THE SAME MATERIALS MAY BE USED WHEN THE GAS DOES NOT CONTAIN MORE THAN AN AVERAGE OF 0.3 GRAINS OF HYDROGEN SULFIDE PER 100 STANDARD CUBIC FEET OF GAS ( A TRACE AS DETERMINED UNDER ASTM D 2385 OR ASTM D 2420). COPPER TUBING OR CSST WILL ALSO BE ALLOWED.
- 2. PIPE JOINTS MAY BE THREADED, FLANGED OR WELDED AND NONFERROUS PIPE MAY ALSO BE BRAZED WITH MATERIALS HAVING A MELTING POINT IN EXCESS OF 1,000 DEGREES F (538 DEGREES C). BRAZING ALLOYS SHALL NOT CONTAIN PHOSPHOROUS.
- 3. TUBING JOINTS SHALL EITHER BE MADE WITH FLARED GAS TUBING FITTINGS, OR BRAZED WITH A MATERIAL HAVING A MELTING POINT IN EXCESS OF 1,000 DEGREES F (538 DEGREES C). BRAZING ALLOYS SHALL NOT CONTAIN PHOSPHOROUS. METALLIC BALL SLEEVE COMPRESSION TYPE TUBING FITTINGS SHALL NOT BE USED FOR THIS PURPOSE INSIDE OR UNDER BUILDINGS BUT MAY BE USED
- 4. FITTINGS (EXCEPT STOPCOCKS OR VALVES) SHALL BE MALLEABLE IRON OR STEEL WHEN USED WITH STEEL OR WROUGHT IRON PIPE AND SHALL BE COPPER OR BRASS WHEN USED WITH COPPER OR BRASS PIPE OR TUBING.
- 5. GAS PIPING AND FITTINGS SHALL BE CLEAR AND FREE FROM CUTTING BURRS AND DEFECTS IN STRUCTURE OR THREADING AND SHALL BE THOROUGHLY BRUSHED AND SCALE BLOWN.
- 6. ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NCSBC FUEL GAS CODE & NFPA 54.
- 7. JOINT COMPOUNDS (PIPE DOPE) SHALL BE APPLIED SPARINGLY AND ONLY TO THE MALE THREADS OF METALLIC JOINTS. SUCH COMPOUNDS SHALL BE RESISTANT TO THE ACTION OF LIQUEFIED PETROLEUM GASES.
- 8. ALL EXPOSED STEEL PIPE/FITTINGS SHALL BE PRIMED AND PAINTED FOR PROTECTION. GRADE ALL GAS PIPING AT 1/4" PER 10' TOWARD LOW POINT.
- 9. SHUTOFF VALVES (STOP COCKS) SHALL COMPLY WITH ANSI Z21.15, ANSI Z21.21, OR ANSI B16.33 OR ANSI/UL 842. ALL VALVES SHALL BE MANUAL. HOUSE VALVE SHALL BE EQUIPPED WITH LOCKING LUGS FOR SECURITY.

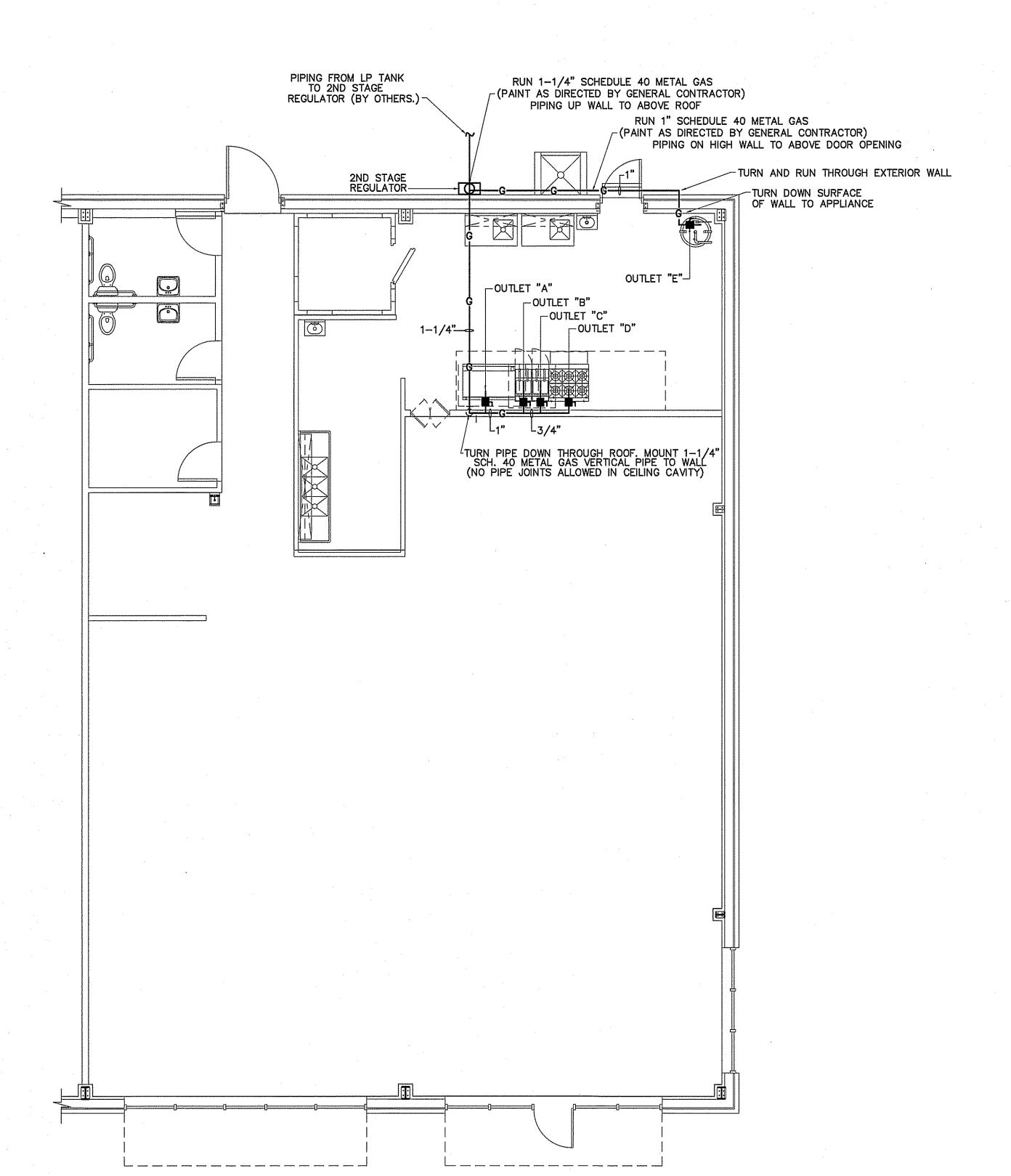
### GAS PIPING SIZING

OUTLET "A" 120 MBH 90 MBH OUTLET "B" OUTLET "C" 90 MBH OUTLET "D" 219 MBH 199 MBH OUTLET "E" TOTAL 718 MBH

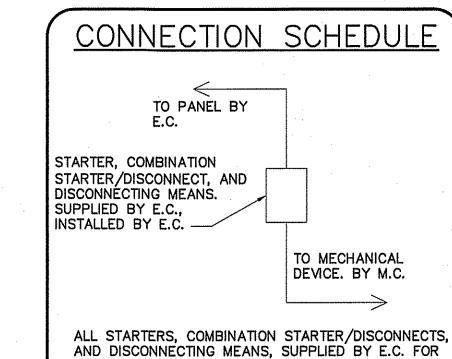
LENGTH OF PIPE FROM THE POINT OF DELIVERY TO MOST REMOTE OUTLET (OUTLET "G") IS 64 FT. PIPE SIZED USING 0.5" W.C. PRESSURE DROP AT 11" W.C. INLET SETTING - UNDILUTED PROPOANE CAPACITIES IN 1,000 BTU/HR. PIPE SIZED USING TABLE 402.4(28). SCHEDULE 40 METALLIC PIPE, PROPANE GAS.



DETAIL-TYPICAL GAS PIPING CONNECTION TO EQUIPMENT NOT TO SCALE



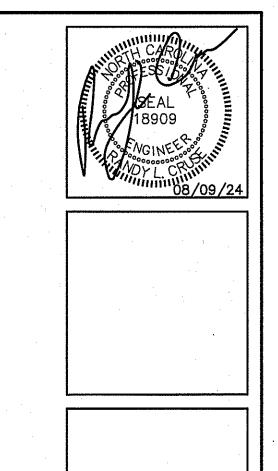
GAS PIPING PLAN
SCALE: 3/16" = 1'-0"



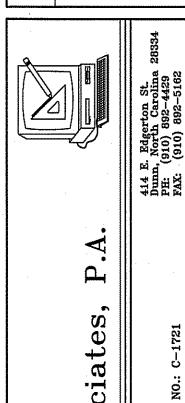
MECHANICAL EQUIPMENT AS REQUIRED BY NEC AND

MECHANICAL EQUIPMENT MANUFACTURER'S

REQUIREMENTS.



**REVISIONS** 



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DATE 08-09-24 DRAWN BY BAM JOB NO. 24-16

sheet no. M-2 OF

KEY PLAN

|         |              |              |          |        |                    |      | ·        | AIR I | -IAN[ | DLER | UNIT      |
|---------|--------------|--------------|----------|--------|--------------------|------|----------|-------|-------|------|-----------|
| AHU NO. | MANUFACTURER | MODEL        | VOLTAGE  | E.S.P. | OUTSIDE AIR<br>CFM | CFM  | UNIT FLA | REF L | INES  | SEER | HTR<br>KW |
|         |              |              |          |        |                    |      |          |       |       |      | (208)     |
| AHU-1   | TRANE        | TEM6A0C48H41 | 208/1/60 | .46    | 200                | 1400 | 34.6     | 3/4   | 3/8   | 17.0 | 7.2       |

.46

.46

300

400

COOLING HTR CAPACITY (MBH) CAPACITY (MBH) M.O.C.P. **AMPACITY** TOTAL HIGH LOW 7.2 42.0 39.0 9.6 52 60 30.3 7.2 42.5 9.0 46.5 31.8 52 7.2 55.0 42.9 56.9 37.0 9.0 52 60

SPLIT SYSTEM HEAT PUMP UNITS MIN. CIRC. UNIT **ACCESSORIES** # COMP./ M.O.C.P. MODEL VOLTAGE AMPACITY NO. STAGES EXCLUDE 8,18 208/1/60 24 19.5 TRANE 4TWR6042N1000A 1-2S 40 HP-3 TRANE 4TWR6048N1000A 208/1/60 22.2 EXCLUDE 8,18 28 1-2S 45 HP-2,4 TRANE 4TWR6060N1000A 208/1/60 1-2S 35 28.2 EXCLUDE 8,18 60

10 OUTDOOR T'STAT TO LOCK OUT AUX. HT. (SET @ 40° F ADJ)

7 LIQUID SOLENOID VALVE

8 LOW-AMBIENT CONTROLLER

9 FILTER DRIER (LIQUID LINE)

11 LOW PRESSURE CONTROL

18 HUMIDISTAT
COOLING CAPACITY ® 80 DEG. F DB/67 DEG WB AIR ENTERING INDOOR UNIT & 95 DEG. F DB AIR ENTERING OUTDOOR UNIT

HEATING CAPACITY: HIGH TEMP = 70 DEG F DB INDOOR EAT & 47 DEG F DB/43 DEG F WB AIR ENTERING OUTDOOR UNIT

OR THE NUMBER OF STAGES OF COOLING AVAILABLE IN THE HPOU. PROVIDE WITH T-STAT; 7 DAY PROGRAMMABLE, DIGITAL.

T-STAT: THE NUMBER OF STAGES OF HEATING/COOLING SHALL MATCH THE NUMBER OF STAGES OF HEAT AVAILABLE IN THE HPIU

12 CRANKCASE HEATER

LOW TEMP = 70 DEG F DB INDOOR EAT & 17 DEG F DB/15 DEG F WB ENTERING OUTDOOR UNIT

13 DISCHARGE LINE MUFFLER

14 SUCTION AND LIQUID LINE

SHUT OFF VALVES

16 SUPPORT FEET

17 COIL GUARDS

15 THERMOSTAT (SEE NOTE)

\*\* PROVIDE OUTDOOR THERMOSTAT TO LOCK OUT SUPPLEMENTAL ELECTRIC HEAT AT OUTDOOR TEMPERATURES ABOVE 40'F.

TEM6A0C48H41

TEM6A0D60H51

TRANE

TRANE

|      | REGISTER, GRILLE, & DIFFUSER SCHEDULE* |            |         |             |          |        |        |                        |                   |
|------|--|------------|---------|-------------|----------|--------|--------|------------------------|-------------------|
| MARK | DESCRIPTION                            | MAX.<br>NC | NECK    | BORDER TYPE | MATERIAL | FINISH | MANUF. | MODEL NUMBER           | ACCESSORIES/NOTES |
| Α    | DIFFUSER-4-WAY                         | 30         | 9"X9"   | LAY-IN      | STEEL    | WHITE  | TITUS  | TDC 9X9 3 26 4         | SQ-TO-RND         |
| В    | DIFFUSER-2-WAY                         | 30         | 9"X9"   | LAY-IN      | STEEL    | WHITE  | TITUS  | TDC 9X9 3 26 2         | SQ-TO-RND         |
| Ç    | DIFFUSER-1-WAY                         | 30         | 6"X6"   | LAY-IN      | STEEL    | WHITE  | TITUS  | TDC 6X6 3 26 1         | SQ-TO-RND         |
| D    | DIFFUSER-2-WAY                         | 30         | 12"X12" | LAY-IN      | STEEL    | WHITE  | TITUS  | TDC 12X12 3 26 2       | SQ-TO-RND         |
| R1   | RETURN GRILLE                          | 30         | 20"X20" | LAY-IN      | STEEL    | WHITE  | TITUS  | 23RFL 20X20 24X24 3 26 | SQ-TO-RND         |

208/1/60

208/1/60

\* VERIFY CEILING TYPE BEFORE ORDERING, NARROW TEE REQUIREMENTS, PLASTER FRAMES ETC. TO BE INCLUDED WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER

|        |           |        | EXHAU       | ST F | AN SC             | HEDL | ILE    |      |    |               |
|--------|-----------|--------|-------------|------|-------------------|------|--------|------|----|---------------|
| NA DIA |           | MODEL  | TVDE        | 0514 | EXTERNAL          | AMDO | ELECTR | ICAL |    | NOTE          |
| MARK   | MAKE      | MODEL  | TYPE        | CFM  | S.P.<br>IN (W.G.) | AMPS | VOLT   | РН   | HZ | NOTES         |
| EF-1,2 | GREENHECK | SP-A90 | CEILING FAN | 70   | .125              | .34  | 115    | 1ø   | 60 | WC-8 WALL CAP |

# NOTE: COLORS & STYLES OF DEVICES TO BE SELECTED BY OWNER. MODEL

APPROXIMATE OUTSIDE SERVES | CFM | DIMENSIONS ( W X H) HART & COOLEY 1530ZF 24X24 W/ INSECT SCREEN HART & COOLEY

OUTSIDE AIF 1530ZF 18X18 W/ LOUVER INSECT SCREEN \*COLOR SELECTED BY OWNER OR PAINTED TO MATCH AS DIRECTED BY OWNER.

LOUVER SCHEDULE

AHU-3

AHU-2,4

MARK DESCRIPTION

B-LINE NO. "BVT" VIBRO-

CLAMPS WITH ZINC FINISH.-

HEAT PUMP OUTDOOR UNIT-\

FIN. GRADE-

NOT TO SCALE

OUTSIDE AIF

LOUVER

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT THERMAL ZONE 4A - HARNETT COUNTY, NC

WINTER DRY BULB 16 DEG. F.

SUMMER DRY BULB 93 DEG. F.

### INTERIOR DESIGN CONDITIONS

WINTER DRY BULB 59 DEG. F.

SUMMER DRY BULB 78 DEG. F.

RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD

BUILDING COOLING LOAD 17.5 TONS

### MECHANICAL SPACE CONDITIONING SYSTEM

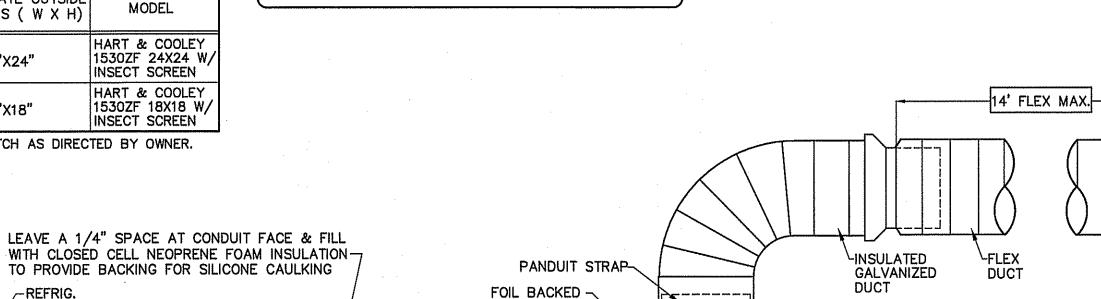
DESCRIPTION OF UNIT - HEAT PUMP HEATING EFFICIENCY - 9.0 HSPF COOLING EFFICIENCY - 15.0 SEER

SIZE CATEGORY OF UNIT  $- \le 65,000$  BTUH **BOILER** 

CHILLER SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

SIZE CATEGORY. IF OVERSIZED, STATE REASON:

SEE SCHEDULE LIST EQUIPMENT EFFICIENCIES



INSULATION

∠SURFACE

MOUNTED

7/8

7/8

1600

2000

34.6

34.6

16.0

15.0

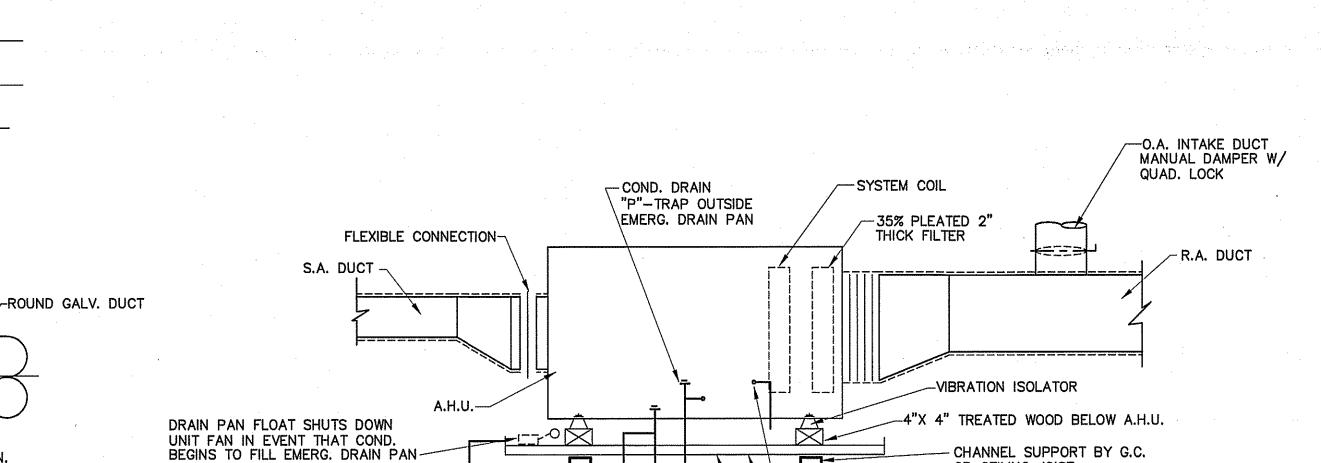
3/8

3/8



EXPOSED "T" BAR

MOUNTED



TYPICAL DETAIL AT AIR HANDLING UNITS NOT TO SCALE

-UNIT EMERG. SPILL

INTO EMERG. DRAIN PAN

-BLDG. CEILING

EMERG. DRAIN PAN

└-20 GA. GALV. DRAIN PAN W/

1-1/2" HEMMED EDGES

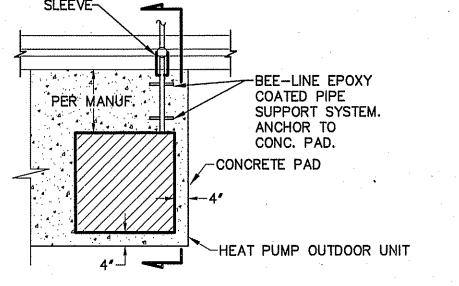
-3/4" THICK PLYWOOD BELOW

OR CEILING JOIST

### -EXPANSION JOINT **MATERIAL** <sup>L</sup>2X4 TREATED WOOD 6X6X #10 REINF. WIRE-ANCHORED TO CONC. SECTION NOT TO SCALE FILL AROUND REFRIG. PIPING WITH SILICONE CAULK

-B-LINE "B-22" CHANNEL WITH PIPE. GALVANIZED ZINC FINISH

- CEILING



PLAN VIEW NOT TO SCALE DETAIL-TYPICAL HEAT PUMP

OUTDOOR UNIT

**RECTANGULAR** 

<u>DIFFUSER</u>

CONICAL SPIN-IN

-ROUND DUCT

-MANUAL BALANCING DAMPER

W/ LOCKING QUADRANT DEVICE

TYPICAL LATERAL TO REGISTER OR BRANCH DUCT NOT TO SCALE

**MECHANICAL NOTES (GENERAL)** 

ACCESSORIES

5 TXV

TIME-DELAY RELAY

CYCLE PROTECTOR

6 HIGH PRESSURE SWITCH

4 ISOLATION RELAY

S EVAPORATOR FREEZE PROTECTOR

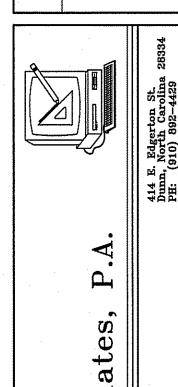
- 1. DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 2. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
- 3. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.

~3/4" EMERG. DRAIN

-CONDENSATE DRAIN AT CEILING

- 4. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. DUCT SIZES SHOWN ARE NET INTERIOR DIMENSIONS.
- 5. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING. DUCTWORK
- 6. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- 7. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS.
- 8. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- 9. PROVIDE FACTORY OR FIELD INSTALLED DRAIN PANS UNDER ALL COOLING COIL UNITS. INSTALL DRAIN PAN FLOAT TO SHUT DOWN UNIT FAN IN EVENT THAT CONDENSATE BEGINS TO FILL EMERGENCY DRAIN PAN. RUN ALL CONDENSATE DRAIN LINES TO APPROPRIATE DRAIN.

REVISIONS



MENTS OF SERVICE AND AS SUCH THESE DRAWINGS, DESIGNS, AND DESIGN CONCEPTS PRESENTED REMAIN THE PROPERTY OF THE ENGINEER. PUBLISH OR DUPLICATE THE DRAWINGS OR DESIGNS ONLY WITH THE WRITTEN PERMISSION OF THE ENGINEER. C COPY RIGHT

DATE 08-09-24 DRAWN BY BAM JOB NO. 24-16

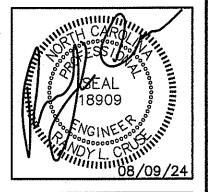
SHEET NO. M-3 OF :

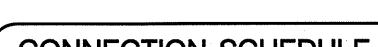
| ELEC             | TRICAL LEGEND  |  |
|------------------|--|--|
| MARK             | DESCRIPTION  |  |
| фw₽              | 'GFI' DUPLEX WITH WEATHERPROOF<br>COVER              |  |
| ∯ GFI            | GROUND FAULT INTERUPTING RECEPTACLE                  |  |
| <b>∰</b> IG      | 208V OR 240 V RECEPTACLE                             |  |
| 4                | TELEPHONE/DATA OUTLET                                |  |
| J                | JUNCTION BOX   |  |
| <u>D</u>         | FUSED DISCONNECT SWITCH                              |  |
| FB               | "STEEL CITY" FLOOR BOX<br>WITH CAT 5E CABLE FOR DATA |  |
| ~~~              | SWITCHED BRANCH CIRCUIT                              |  |
| ~~               | UNSWITCHED BRANCH CIRCUIT                            |  |
| Y                | 120/208 VOLT CIRCUIT                                 |  |
| ф                | CEILING OR ATTIC MOUNTED DUPLEX RECEPTACLE           |  |
| <del>1</del> 0/0 | LIGHT FIXTURE (WALL/CEIL.)                           |  |
|                  | FLUORESCENT FIXTURE                                  |  |
| □ N/L            | UNSWITCHED FIXTURE                                   |  |
| ⊗                | 'EXIT' LIGHT FIXTURE, TYPE 'EX'                      |  |
| Ľ                | BATTERY OPERATED EMERG. LT.<br>(2-HEAD, WALL MTD.)   |  |
| \$               | SINGLE-POLE SWITCH                                   |  |
| \$3(4)           | 3-WAY SWITCH (4-WAY SWITCH)                          |  |
| ф                | DUPLEX RECEPTACLE                                    |  |
| ф                | CEILING MOUNTED RECEPTACLE                           |  |
| <b>_</b>         | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)             |  |
| \$0              | WALL MOUNTED OCCUPANCY SENSOR<br>WITH SWITCH         |  |
|                  |  |  |

| LIGHT FIXTURE SCHEDULE |  |              |                                    |       |          |         |                             |  |
|------------------------|--|--------------|------------------------------------|-------|----------|---------|-----------------------------|--|
| MARK                   | DESCRIPTION                                | MANUFACTURER | CATALOG NUMBER                     | LAMPS | BALLASTS | WATTAGE | REMARKS                     |  |
| A                      | 2X4 LED FLAT PANEL LAY-IN                  | _            | SELECTED BY OWNER                  | LED   |          | 32.0    | 4000/5000/6000 LUMEN OPTION |  |
| В                      | 2X4 LED FLAT PANEL LAY-IN                  | _            | SELECTED BY OWNER                  | LED   |          | 42.0    | 4000/5000/6000 LUMEN OPTION |  |
| ЕМ                     | EMERGENCY LIGHT<br>WITH BATTERY BACKUP     | SURE-LITES   | CC8MRT2142SM                       |       |          |         |                             |  |
| EX                     | LED TYPE EXIT LIGHT<br>WITH BATTERY BACKUP | SURE-LITES   | LPX 70 RWH 120/277                 |       |          |         |                             |  |
| EM2                    | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)   | SURE-LITES   | 12T-12-WWH OR 12T-12-DWWH OR EQUAL |       |          |         |                             |  |

|          | MINI DATILITE DAOROI                       |                |                                    |  |  |
|----------|--|----------------|------------------------------------|--|--|
| EX       | LED TYPE EXIT LIGHT<br>WITH BATTERY BACKUP | SURE-LITES     | LPX 70 RWH 120/277                 |  |  |
| EM2      | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)   | SURE-LITES     | 12T-12-WWH OR 12T-12-DWWH OR EQUAL |  |  |
| FIXTURES | BY SCHEDULE OR EQUAL. FIXTURES SI          | ELECTED BY OWN | ER AND PURCHASED BY CONTRACTOR     |  |  |

| ·          | LIG                  | HTING DATA                           | FOR ENEF    | RGY CODE            | · ·  |  |  |  |
|------------|----------------------|--------------------------------------|-------------|---------------------|------|--|--|--|
| AREA USE   | AREA FT <sup>2</sup> | WATTS PER<br>FT <sup>2</sup> ALLOWED | TOTAL WATTS | TOTAL WATTS<br>USED |      |  |  |  |
| RESTAURANT | 3500                 | 1.5                                  | 5250        | 1314                | 3936 |  |  |  |
| TOTAL      | 3500                 |                                      | 5250        | 1314                | 3936 |  |  |  |

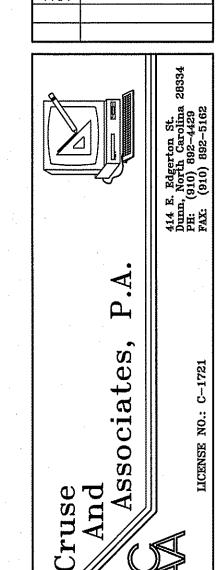




ALL STARTERS, COMBINATION STARTER/DISCONNECTS, AND DISCONNECTING MEANS, SUPPLIED BY E.C. FOR MECHANICAL EQUIPMENT AS REQUIRED BY NEC AND MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS.

CONNECTION SCHEDULE TO PANEL BY STARTER, COMBINATION STARTER/DISCONNECT, AND DISCONNECTING MEANS.
SUPPLIED BY E.C.,
INSTALLED BY E.C. TO MECHANICAL DEVICE. BY M.C.

REVISIONS



KEY PLAN

MENTS OF SERVICE AND AS SUCH THESE DRAWINGS, DESIGNS, AND DESIGN CONCEPTS PRESENTED REMAIN THE PROPERTY OF THE ENGINEER. PUBLISH OR DUPLICATE
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PERMISSION OF THE ENGINEER.

DATE 08-09-24 DRAWN BY BAM JOB NO. 24-16

SHEET NO. E-1 OF 3

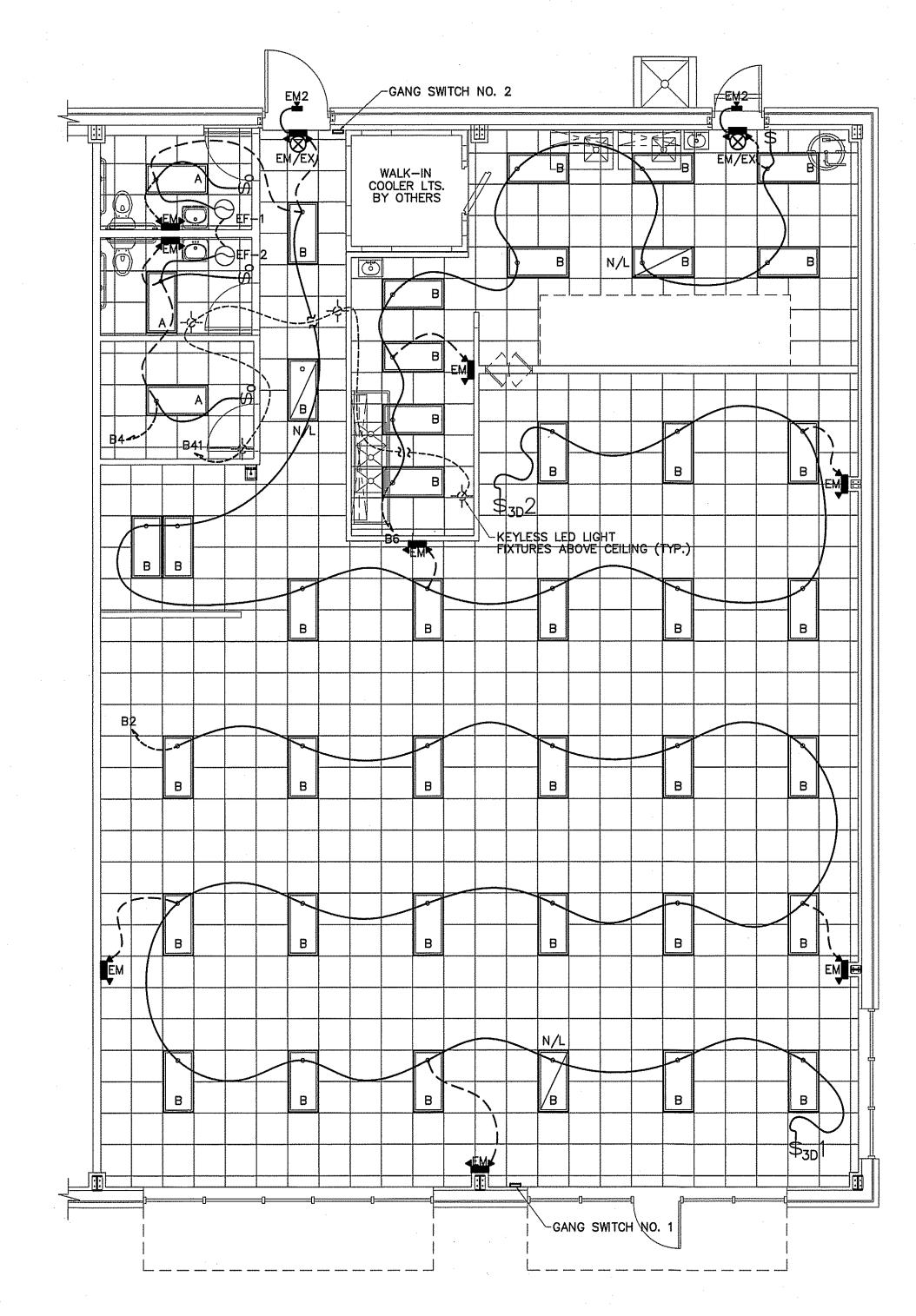
## NOTES:

1. ALL FIXTURES ARE TO BE APPROVED BY OWNER BEFORE PURCHASE.

\* BEFORE PURCHASING, VERIFY EXTERIOR FIXTURES MEET ZONING ORDINANCE

\*\* INCLUDE HANGERS FOR FIXTURES IN FITNESS AREA TO BE HUNG APRROXIMATELY 12' & BELOW THE DUCT WORK.

- 2. SHOULD FIXTURE WATTAGE VARY FROM SCHEDULE, E.C. SHALL VERIFY
- CIRCUIT LOADING BEFORE BEGINNING CONSTRUCTION.
- ALL STYLES, COLORS, FINISHES AND LOCATIONS OF FIXTURES/EQUIPMENT, AND DEVICES SHALL BE SELECTED BY OWNER. 4. VERIFY ALL SWITCH LOCATIONS WITH OWNER BEFORE BEGINNING CONSTRUCTION.
- 5. SEE SHELL BUILDING PLANS FOR EXTERIOR LIGHTING LAYOUT.



DETAIL-GANG SWITCH NO. 2

 $\$_{3D}1 \$_{3D}2$ 

SWITCH SWITCH NO. 1 NO. 2

BUFFET/CORRIDOR LIGHTS-

DINING AREA LIGHTS

SWITCH SWITCH NO. 1 NO. 2 DETAIL-GANG SWITCH NO. 1

 $\$_{3D}1 \$_{3D}2$ 

BUFFET/CORRIDOR LIGHTS-

DINING AREA LIGHTS

CEILING MOUNTED OCCUPANCY SENSOR

NOTE:

E.C., OWNER, AND G.C. TO VERIFY ALL EQUIPMENT LOCATIONS, SPECIFICATIONS, & REQUIRMENTS BEFORE BEGINNING CONSTRUCTION. ELECTRICAL LIGHTING PLAN
SCALE: 3/16" = 1'-0"

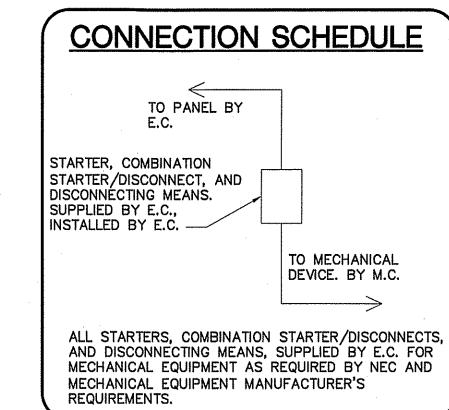
| ELEC             | CTRICAL LEGEND                                     |
|------------------|--|
| MARK             | DESCRIPTION  |
| ф wp             | 'GFI' DUPLEX WITH WEATHERPROOF<br>COVER .          |
| ∯ GFI            | GROUND FAULT INTERUPTING RECEPTACLE                |
| ∰ IG             | 208V OR 240 V RECEPTACLE                           |
| ◀                | TELEPHONE/DATA OUTLET                              |
| Ū                | JUNCTION BOX                                       |
|                  | FUSED DISCONNECT SWITCH                            |
| FB               | "STEEL CITY" FLOOR BOX WITH CAT 5E CABLE FOR DATA  |
| ~~               | SWITCHED BRANCH CIRCUIT                            |
| ٧-٦              | UNSWITCHED BRANCH CIRCUIT                          |
| Y                | 120/208 VOLT CIRCUIT                               |
| ф                | CEILING OR ATTIC MOUNTED DUPLEX RECEPTACLE         |
| <del>1</del> 0/0 | LIGHT FIXTURE (WALL/CEIL.)                         |
|                  | FLUORESCENT FIXTURE                                |
| □ N/L            | UNSWITCHED FIXTURE                                 |
| 8                | 'EXIT' LIGHT FIXTURE, TYPE 'EX'                    |
| ¢                | BATTERY OPERATED EMERG. LT.<br>(2-HEAD, WALL MTD.) |
| \$               | SINGLE-POLE SWITCH                                 |
| \$3(4)           | 3-WAY SWITCH (4-WAY SWITCH)                        |
| ф                | DUPLEX RECEPTACLE                                  |
| ф                | CEILING MOUNTED RECEPTACLE                         |
| · <b>L</b>       | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)           |
| \$ <sub>o</sub>  | WALL MOUNTED OCCUPANCY SENSOR<br>WITH SWITCH       |
| <b>⊚</b> 0       | CEILING MOUNTED OCCUPANCY SENSOR                   |

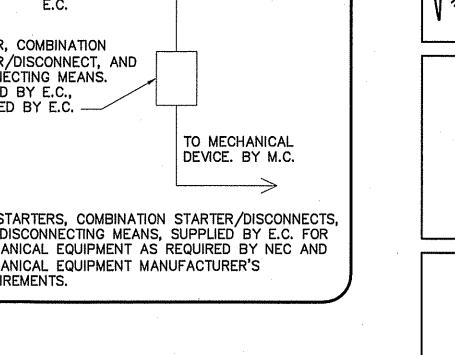
## NOTE:

E.C., OWNER, AND G.C. TO VERIFY ALL EQUIPMENT LOCATIONS, SPECIFICATIONS, & REQUIRMENTS BEFORE BEGINNING CONSTRUCTION.

## NOTE:

ALL WET AREA RECEPTACLES TO BE GFCI IN ACCORDANCE WITH CURRENT VERSION OF NEC.

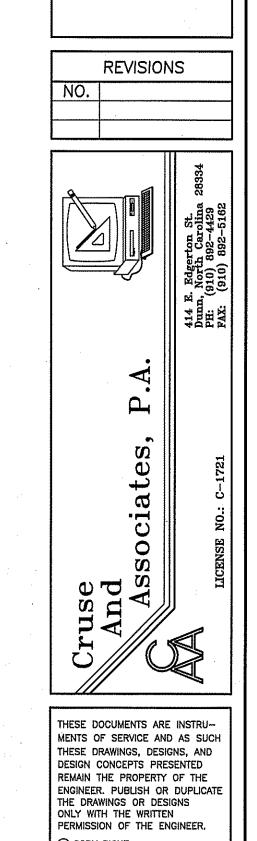




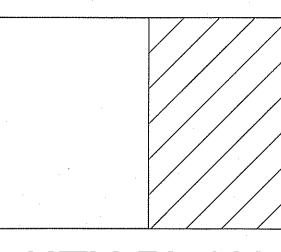
# KEY NOTE:

-FOR BUILDING SIGN. VERIFY LOCATION BEFORE INSTALLATION

VERIFY LOCATION OF KITCHEN HOOD ELECTRICAL CIRCUITS BEFORE BEGINNING CONSTRUCTION.



ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-0"

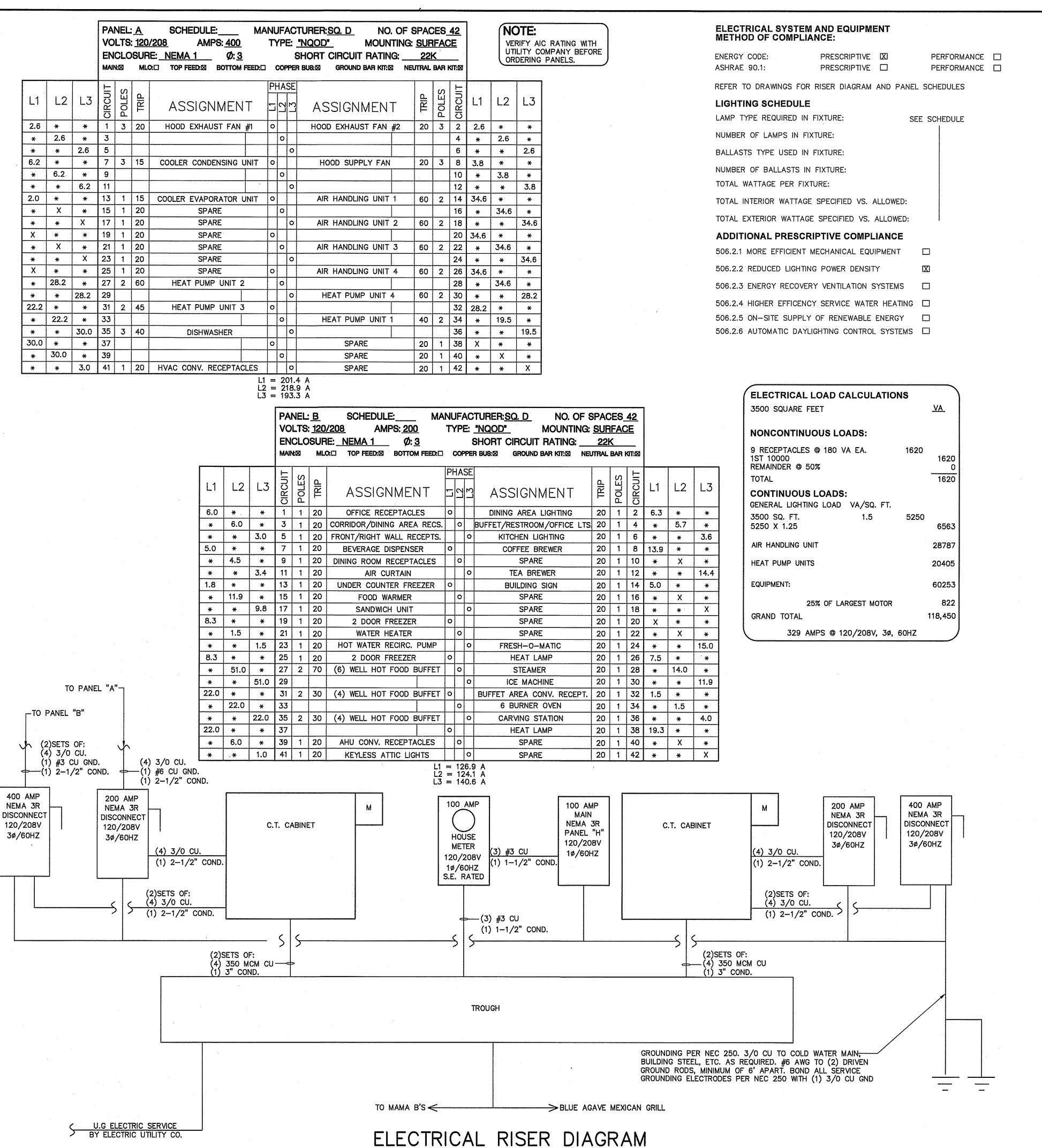


KEY PLAN

JOB NO. 24-16 SHEET NO. E-2 OF

DRAWN BY BAM

DATE 08-09-24



NOT TO SCALE

### **ELECTRICAL NOTES (GENERAL)**

- 1. THE ELECTRICAL INSTALLATION, EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL, AS A MINIMUM, BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), ALL APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES, LAWS, AND ORDINANCES, AND RULINGS OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. ALL FEES, PERMITS, ETC., ASSOCIATED WITH THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 2. THE DRAWINGS GENERALLY INDICATE THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, BOXES, FITTINGS, AND SPECIALTIES WHICH MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SUCH ITEMS REQUIRED TO COMPLETE THE INSTALLATION ACCORDING TO INDUSTRY ACCEPTED PRACTICES SHALL BE INCLUDED IN THE BID.
- 3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED AND LABELED BY UNDERWRITERS LABORATORIES. INC.
- 4. ALL PENETRATIONS OF FIRE WALLS SHALL BE SEALED WITH APPROVED SEALING MATERIALS TO MAINTAIN THE FIRE RATING OF THE WALLS.
- 5. THE CONTRACTOR SHALL VERIFY WIRE AND FUSE/CIRCUIT BREAKER SIZING FOR ALL MECHANICAL EQUIPMENT PRIOR TO PURCHASING MATERIALS AND INSTALLING BRANCH CIRCUITS.
- 6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. APPARENT INTERFERENCES OR CONFLICTS SHALL BE REPORTED TO THE PRIME CONTRACTOR AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- 7. THE ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUITS TO THE MAIN LINE TERMINALS OF EQUIPMENT FURNISHED BY OTHER CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY NECESSARY SWITCHES, DISCONNECTS, OR OVERCURRENT PROTECTION AHEAD OF SUCH EQUIPMENT.
- 8. RACEWAYS ARE SHOWN SCHEMATICALLY AND MAY BE REROUTED IN THE FIELD. THEY SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES. THEY SHALL BE RUN CONCEALED WITHIN WALLS OR BUILDING STRUCTURES WHEREVER POSSIBLE.
- 9. ALL RACEWAYS, EQUIPMENT, ETC., ABOVE A SUSPENDED CEILING SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE CEILING SO AS NOT TO BLOCK ANY TILE OR FIXTURE ACCESS.
- 10. THE MINIMUM ALLOWABLE SIZE FOR ANY CONDUIT, IMC, OR EMT SHALL BE 1/2" AND MAY BE USED FOR 2#12 WIRE SWITCHLEGS ONLY. A SWITCHLEG SHALL BE DEFINED AS THE RUN OF CONDUIT FROM THE SWITCH OUTLET BOX TO THE FIRST OUTLET BEING SWITCHED.
- 11. FULL WEIGHT GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN THE FOLLOWING AREAS:
- A. ON THE EXTERIOR OF THE BUILDING OR ROOF,
- B. VERTICAL DROPS WHERE THE CONDUIT CANNOT BE ANCHORED TO WALLS OR OTHER SUPPORT STRUCTURES,
- C. WHERE SUBJECT TO MECHANICAL DAMAGE.
- 12. ALL WIRE AND CABLE SHALL BE COPPER AND HAVE 600 VOLT THHN-THWN INSULATION. ALUMINUM WIRING SHALL NOT BE PERMITTED.
- 13. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR CONTROL WIRING, WHICH MAY BE #14 AWG. CONTROL WIRING SHALL USE STRANDED CONDUCTORS UNLESS OTHERWISE NOTED.
- 14. ALL METAL RACEWAY SYSTEMS SHALL BE MADE ELECTRICALLY CONTINUOUS. THE RACEWAY SYSTEM SHALL NOT BE THE SOLE GROUNDING METHOD. AN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED FOR ALL FEEDERS AND BRANCH CIRCUITS. AT RECEPTACLES, A GREEN GROUND CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL OF THE RECEPTACLE.
- 15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE FUSE AND DISCONNECT SWITCH SIZES WITH THE MECHANICAL EQUIPMENT SUPPLIER PRIOR TO PURCHASE AND INSTALLATION OF BRANCH CIRCUIT EQUIPMENT. IF EQUIPMENT SIZING CHANGES FROM DESIGN SIZES, CIRCUITS SHALL BE RESIZED ACCORDINGLY.
- 16. LIGHT FIXTURES FOR INSTALLATION IN A SUSPENDED CEILING SHALL BE SECURELY FASTENED TO THE CEILING SUSPENSION SYSTEM IN A MANNER TO PREVENT FIXTURES FROM FALLING. IN ADDITION, 16 GAGE WIRE HANGERS SHALL BE FASTENED TO THE FOUR CORNERS OF THE FIXTURES.
- 17. CONNECTIONS TO FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT TO ALLOW THE FIXTURE TO
- 18. BREAKERS SUPPLYING HVAC OR REFRIGERATION EQUIPMENT SHALL BE HACR TYPE.

BE LIFTED OUT OF THE GRID AND MOVED TO AN ADJACENT GRID LOCATION.

- 19. 3/4" CONDUIT IS MINIMUM ALLOWABLE SIZE EXCEPT AS INDICATED IN #10. CONDUIT FILL NOT TO EXCEED 40% AS PERMITTED BY THE NATIONAL ELECTRIC CODE.
- 20. ALL CONDUCTORS TO BE INSTALLED IN CONDUIT (EXCEPT WHERE ROMEX IS INSTALLED). EMT FITTINGS TO BE COMPRESSION TYPE, INSULATED THROAT.
- 21. NOT USED
- 22. DATA, SECURITY, THEATRICAL, AND VIDEO SYSTEMS TO BE PROVIDED BY OWNER. ROUGH-IN OF OUTLETS AND CONDUIT WILL BE BY CONTRACTOR AS SHOWN ON DRAWINGS.
- 23. NOT USED

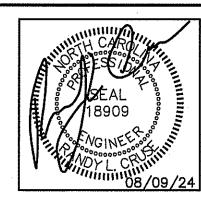
  24. NO. 10 AWG CONDUCTORS SHALL BE USED FOR 20 AMP BRANCH CIRCUIT HOME RUNS EXCEEDING 50 FT. TO THE JUNCTION POINT.
- 24. NO. TO AWG CONDUCTORS SHALL BE USED FOR 20 AMP BRANCH CIRCUIT HOME RUNS EXCEEDING 50 FT. TO THE JUNCTION POINT.

  20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 10 AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 100 FEET TOTAL LENGTH.
- 25. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. SPLICES WILL NOT BE MADE EXCEPT WITHIN ACCESSIBLE OUTLET OR JUNCTION BOXES, TROUGHS, OR GUTTERS.
- 26. MAKE CONDUCTOR LENGTHS FOR PARALLEL CIRCUITS EQUAL.
- 27. INSTALL TELEPHONE OUTLETS WITH 3/4" EMPTY CONDUIT AND PULL CORD. STUB OUT ABOVE CEILING. PHONE SYSTEM INSTALLED BY OWNER.
- 28. ALL CONDUIT WITHOUT CONDUCTORS SHALL HAVE NYLON PULLCORDS INSTALLED.
- 29. THE CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION, AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- 30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ELECTRIC UTILITY CONNECTION FEES AND LINE EXTENSION FEES.
- 31. ELECTRICAL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION WHICH DEVELOPS OBJECTIONABLE NOISES SHALL BE MADE FROM THE CONDUIT SYSTEM WITH SHORT LENGTHS OF FLEXIBLE "LIQUID-TITE" CONDUIT.
- 32. ALL WIRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75° C MINIMUM.
- 33. ELECTRICAL CONTRACTOR TO MAINTAIN 2' OF SEPARATION ON RECEPTACLES ON OPPOSITE SIDES OF ANY FIRE RATED WALL PER 2017 N.E.C. 300.21.
- 34. WIRING TO DISCONNECT SWITCH AND DISCONNECT SWITCH SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. WIRING FROM THE DISCONNECT TO THE EQUIPMENT SHALL BE BY THE MECHANICAL CONTRACTOR.

| FEEDER SCHEDULE |                       |                  |         |  |  |  |  |  |
|-----------------|-----------------------|------------------|---------|--|--|--|--|--|
| UNIT            | FEEDERS               | FUSED DISCONNECT | CONDUIT |  |  |  |  |  |
| AHU-1,2,3,4     | (2)#6CU,(1)#8CU GND   | 60               | 3/4"    |  |  |  |  |  |
| HP-1,3          | (2)#10CU,(1)#12CU GND | 60               | 3/4"    |  |  |  |  |  |
| HP-2,4          | (2)#8CU,1#10CU GND    | 60               | 3/4"    |  |  |  |  |  |

NOTE:

E.C., OWNER, AND G.C. TO VERIFY ALL EQUIPMENT LOCATIONS, SPECIFICATIONS, & REQUIRMENTS BEFORE BEGINNING CONSTRUCTION



SOUTHERN KITCHER COATS, NORTH CAROL

ANS

REVISIONS

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