

I, CHARLES FRANCIS RIGGS, PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT I HAVE SURVEYED THE PROPERTY AS SHOWN HEREON IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA. THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS: 1:10,000

CHARLES FRANCIS RIGGS P.L.S.



THIS IS TO CERTIFY THAT THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "A10" (EL=8') WHICH IS A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT. COMMUNITY PANEL NUMBER 370186 0003 C FEBRUARY 15, 1985.

BLOCK 10

FORMER RIGHT-OF-WAY LINE

FORMERLY HIGH POINT AVENUE  
60' R/W (UNDEVELOPED)

CLOSING ORDER OF  
UNDEVELOPED STREET BY  
TOWN OF SURF CITY  
AUGUST 4, 1981

FORMER RIGHT-OF-WAY LINE

BLOCK 13

D.B. 1099, P. 223  
9,115 Sq.Ft.

TOTAL ACREAGE  
18,230 Sq.Ft.  
0.419 ACRES

D.B. 1189, P. 280  
9,115 Sq.Ft.

4.0'x9.8'  
WOOD PORCH  
STEPS

4.0'x9.8'  
WOOD PORCH  
& STEPS

OLD MOTEL

PUMP HOUSE

"BOSTIC MOTEL"  
SIGN

POWER POLE

POWER LINES

POWER POLE

ADJOINER'S

C/L INTERSECTION OF  
SOUTH TOPSAIL DRIVE  
& KINSTON AVENUE

EPK  
N 61°00'47" E  
17.16'  
C/L ASPHALT  
BENCHMARK  
ELEVATION = 7.39'

N.C. HIGHWAY 50 - SOUTH TOPSAIL DRIVE

75' R/W (ASPHALT-PUBLIC)

BOUNDARY & PHYSICAL SURVEY FOR

**GARRY L. MATTHEWS**

& WIFE

**BARBARA L. MATTHEWS**

PORTION OF BLOCK 13 &

THE EASTERN ONE HALF OF HIGH POINT AVENUE

SUBDIVISION NO. 1 OF SURF CITY

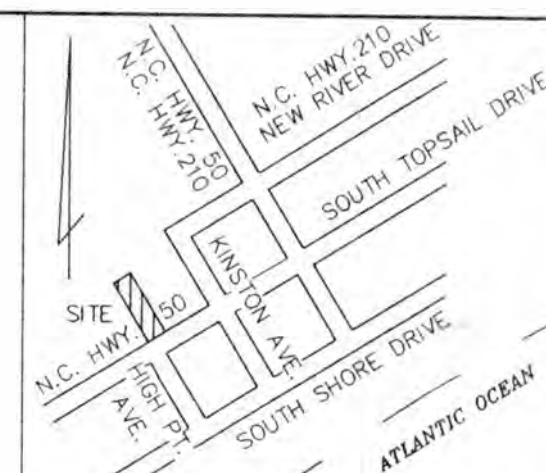
TOPSAIL TOWNSHIP, PENDER COUNTY, NORTH CAROLINA

209 SOUTH TOPSAIL DRIVE

**CHARLES F. RIGGS & ASSOCIATES, INC.**

LAND SURVEYING, LAND PLANNING & COMPUTER MAPPING

202 WARLICK STREET  
P.O. BOX 1570  
JACKSONVILLE, NC 28541-1570  
TELEPHONE: (910) 455-0877  
FACSIMILE: (910) 455-9033



VICINITY SKETCH  
NOT TO SCALE



#### NOTES

PROPERTY IS ZONED C-1  
LOT AREA : 2,500 Sq.Ft.  
LOT WIDTH : 25'  
FRONT : NONE  
SIDE : NONE  
REAR : NONE  
BUILDING HEIGHT : 48'

#### ADDITIONAL REQUIREMENTS

COMMERCIAL BUILDINGS CONSTRUCTED AFTER EFFECTIVE DATE OF THIS ORDINANCE SHALL PROVIDE OFF-STREET LOADING BERTHS AS REQUIRED IN SECTION 5.7 AND OFF-STREET PARKING AS REQUIRED IN SECTIONS 5.1 THROUGH 5.6 OF THE SURF CITY ZONING ORDINANCE.

ALL SIGNS OR BILLBOARDS MUST MEET THE REQUIREMENTS SET FORTH IN SECTION 5.8 OF THE ABOVE MENTIONED ORDINANCE.

#### REFERENCES

D.B. 1189, P. 280  
D.B. 1099, P. 223  
M.B. 3, P. 45

#### LEGEND

SIR = SET IRON ROD  
SPK = SET PARKER-KALON NAIL  
ECM = EXISTING CONCRETE MONUMENT (FOUND)  
EIR = EXISTING IRON ROD (FOUND)  
EIP = EXISTING IRON PIPE (FOUND)  
EPK = EXISTING PARKER-KALON NAIL (FOUND)  
R/W = RIGHT OF WAY  
C/L = CENTERLINE  
N/F = NOW OR FORMERLY

#### GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.

DATE: MAY 16, 2000  
DRAWN BY: EDWARD J. PIECE  
FIELD BOOK: IND., PAGE: 5  
CHECKED BY:  
COMPUTER: JAZ#3\WS-3\PROJ  
PROJECT NUMBER: 00-05-37

← 91.07' →

## Natural landscape

$$\leftarrow |h| \rightarrow$$

← 20' →

81 x y

$$\leftarrow 199.87 \rightarrow$$

$\leftarrow b8'b1 \rightarrow$

Connective  
12

← 96 →

16  
Continued

Handwritten signature: *Handwritten signature*

12 x 12  
Dumster

HC  
DARK  
6420

HC  
Park  
5x20

3/1

sign  
30.4

51 per

不  
\*  
\*

Sidewalk 5'

## Bike Path 41:

41wy 52 / South Twp Jail Dr

Landscape:

☁ = live oak, wax myrtle

(Andy Cavender)

(Andy Cavender)

Signs: lighted ( $\overline{N0} + N0n$ )



This architectural floor plan illustrates the layout of a restaurant, featuring several distinct areas and detailed dimensions. The plan includes a large **LOUNGE** area with a **BAR** and **CEILING BEAMS**. Adjacent to the lounge is a **SITTING AREA WITH TABLES** containing three round tables. The **KITCHEN** is located on the right side, with a **THICK STUD WALL** and a **H. TOILET 6' 5" HUNG**. Restrooms include a **MENS ROOM**, **LADIES ROOM**, and a **URINAL**. The **ENTRY** area features a **5' TURN CIRCLE** and a **SCREEN W. STORM SHUTTER**. The plan also shows a **SCREEN W. STORM SHUTTERS** area and a **STUD WALL**. Dimensions are provided for various sections, including a **32'-0"** section at the top, a **12'-0"** section on the right, and a **44'-0"** section at the bottom. The plan is dated **ITT 11.88**.

SECTION AA

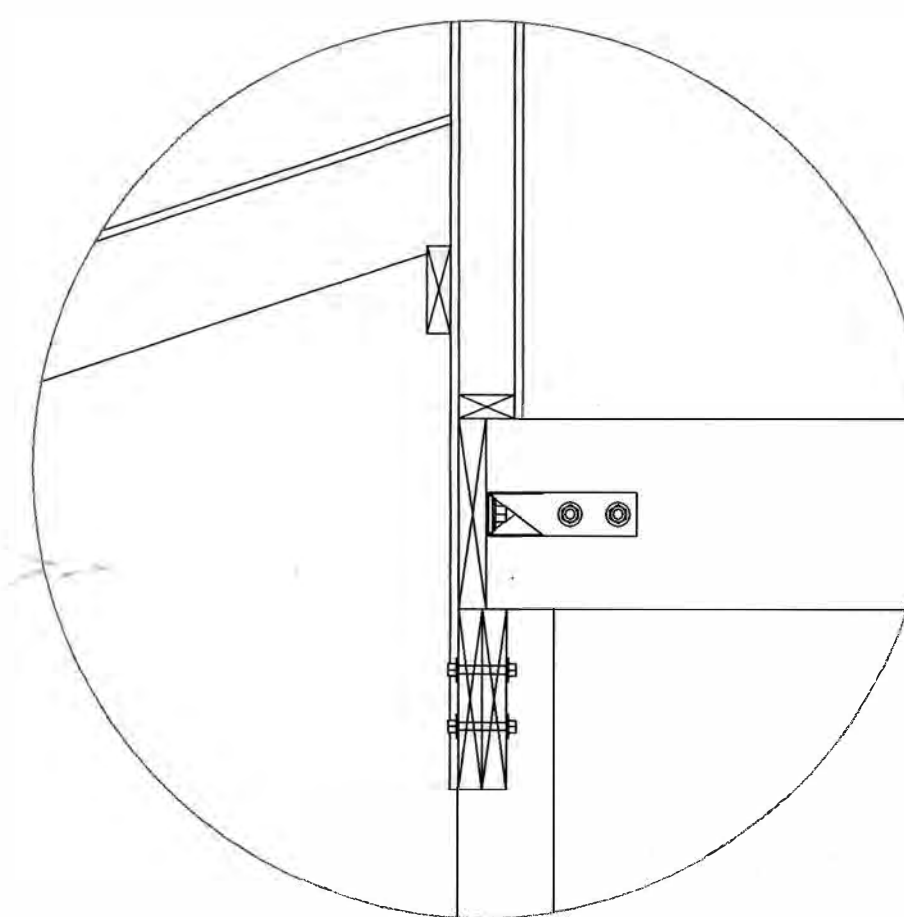
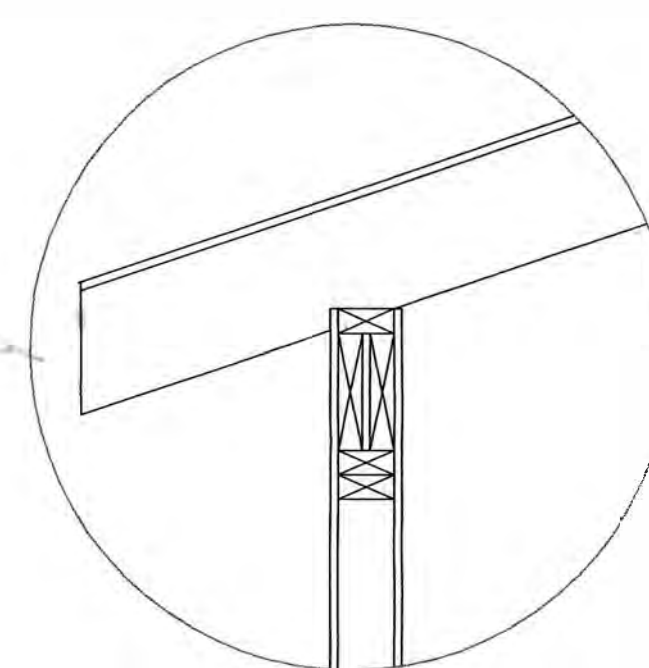
18'-9"

9'-1 1/2"

10'-1 1/2"

8'-1 1/2"

2x4 BLOCKED SHEATHING JOINT



CEILING BEAM CONNECTION

SCALE: 1" = 12"

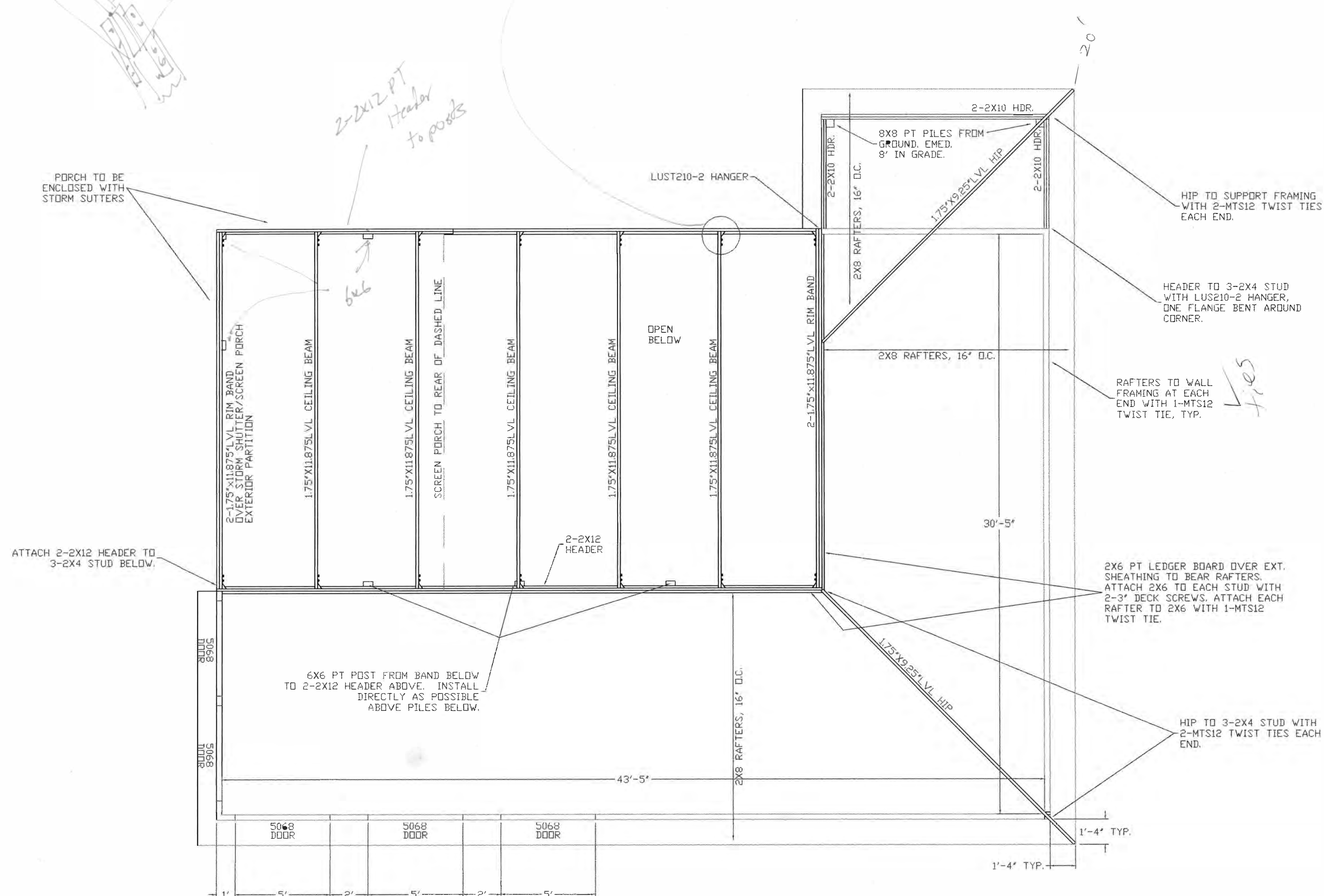
EXTERIOR SHEATHING

1.75"X11.875"LVL RIM BAND ON TOP OF WALL PLATE

TOP PLATE OF THE 2X4 STUD WALL BELOW

1.75"X11.875"LVL CEILING BEAM

HD54 HOLD DOWN BRACKET WITH 5/8" DIA. THROUGH BOLTS WITH WASHERS.



Preliminary 6/12/02  
16pH



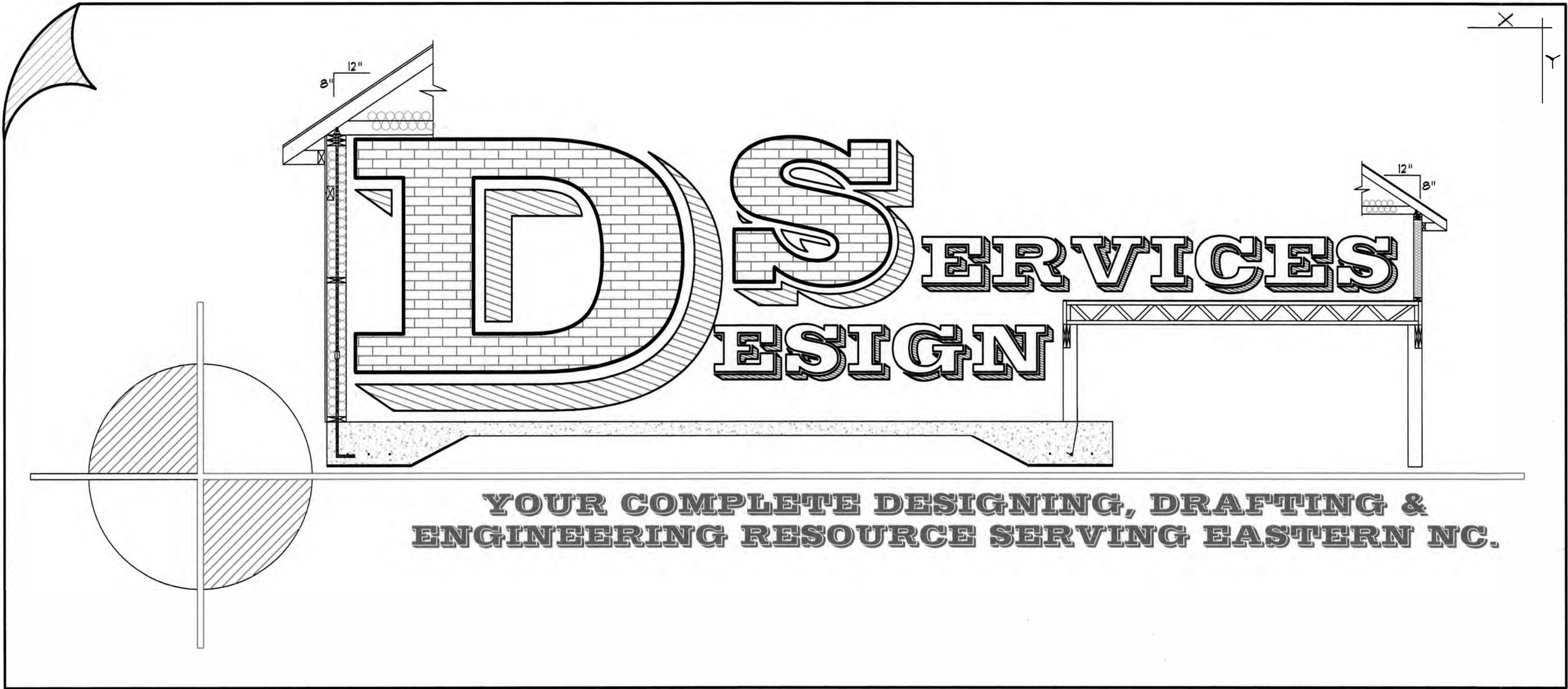
GENERAL INFORMATION

THANK YOU FOR CHOOSING **DESIGN/SERVICES** FOR YOUR DESIGN NEEDS. WE ASK THAT IF YOU HAVE NOT DONE SO ALREADY, PLEASE TAKE A MOMENT TO REVIEW THESE PLANS TO INSURE THEY INCLUDE THE CORRECT NUMBER OF SHEETS. ALSO MAKE SURE YOU HAVE RECEIVED THE CORRECT NUMBER OF SETS, IN MOST CASES (5). IF YOU ARE MISSING ANY SHEETS OR SETS PLEASE NOTIFY OUR OFFICE.

THESE PLANS WERE PREPARED BY A TEAM OF DESIGN PROFESSIONALS WITH YEARS OF DESIGN AND CONSTRUCTION EXPERIENCE. IT IS OUR SINCERE GOAL TO INSURE SATISFACTION IN OUR PLANS. WE USE THE LATEST SOFTWARE AND AGE OLD SKILLS TO DESIGN AND GENERATE HIGH QUALITY PLANS. HOWEVER, MISTAKES HAPPEN AND ERRORS OCCUR. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO REVIEW THESE PLANS FOR ANY ERRORS AND OMISSIONS. IF ANY ARE FOUND NOTIFY OUR OFFICE IMMEDIATELY BEFORE CONSTRUCTION BEGINS. DESIGN SERVICES NOR ANY OF IT'S SUBCONTRACTORS CAN BE HELD RESPONSIBLE FOR ANY PROBLEMS NOT BROUGHT TO OUR ATTENTION BEFORE CONSTRUCTION BEGINS.

CONSTRUCTION DRAWINGS CANNOT BE USED AS AN INSTRUCTIONAL OR, STEP BY STEP "HOW TO GUIDES" TO BUILD A HOME. IN THE HANDS OF A PROFESSIONAL CONTRACTOR OR SUBCONTRACTOR THEY SERVE AS TECHNICAL GUIDE THAT SHOWS THE CORRECT SIZE AND PLACEMENT OF STRUCTURAL AND/OR COSMETIC ELEMENTS, GENERALLY PREPARED BY OUR STAFF AT THE DIRECTION OF THE OWNER OR BUILDER. IF YOU HAVE MADE THE DECISION TO BUILD YOUR OWN HOME WE SUGGEST BEFORE DOING SO YOU FIRST SEEK THE ASSISTANCE OF A CONSTRUCTION CONSULTANT.

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR BUILDER TO CONFORM TO ALL STANDARDS , PROVISIONS, REQUIREMENTS, METHODS OF CONSTRUCTION AND USES OF MATERIALS PROVIDED IN BUILDINGS AND/OR STRUCTURES AS REQUIRED BY N.C. UNIFORM BUILDING CODE, LOCAL AGENCIES AND IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.



PROFESSIONAL SEALS

SOME BUILDING DEPARTMENTS MAY REQUIRE PLANS FROM A PROFESSIONAL ENGINEER OR LAND SURVEYOR.

ENGINEERING SERVICES ARE PROVIDED TO DESIGN SERVICES BY: MICHAEL C. GALLANT P.E., P.A. WHO IS LOCATED IN OUR OFFICE. ADDITIONAL ENGINEERING FEES WILL APPLY.

IN ORDER FOR AN ENGINEER TO LEGALLY AFFIX HIS SEAL TO A CONSTRUCTION DOCUMENT, IT MUST BE PREPARED UNDER HIS/HER RESPONSIBLE CHARGE: ENGINEER MUST OVERSEE THE DESIGN OF THAT DOCUMENT OR DRAWING.

PLANS WITH AN ENGINEER'S SEAL SHOULD BE FOLLOWED TO THE LETTER UNLESS THEY ARE FOUND TO BE UNSAFE BY A LICENSED CODE OFFICIAL. IF CHANGES MUST ME MADE TO COMPLY WITH STATE OR LOCAL BUILDING CODES PLEASE NOTIFY OUR OFFICE SO WE CAN REVIEW AND MAKE CHANGES ACCORDINGLY. FAILURE TO BUILD ACCORDING TO THE ENGINEERED PLANS VOIDS ALL ENGINEERING LIABILITY, SPECIFIC OR IMPLIED.

WE HAVE A PROFESSIONAL WORKING RELATIONSHIP WITH SEVERAL AREA SURVEYORS AND CAN ASSIST YOU IN FINDING ONE FOR YOUR PROJECT.

**604-A N. NEW RIVER DRIVE**

**SURF CITY, NC. 28445**

**E-mail: [design\\_serv@yahoo.com](mailto:design_serv@yahoo.com)**

**WEB SITE: [designservicesnc.biz](http://designservicesnc.biz)**

**PHONE: 910.328-4857**

**FACSIMILE: 910.328-4733**

COPYRIGHT INFORMATION

HOME PLANS LIKE ALL OTHER FORMS OF MEDIA ARE PROTECTED BY FEDERAL COPYRIGHT LAWS. THEREFOR MAKING IT ILLEGAL TO REPRODUCE OR COPY THIS PLAN WITHOUT WRITTEN CONSENT OF **DESIGN/SERVICES**.

PURCHASING AN ORIGINAL "CUSTOM" PLAN FROM **DESIGN/SERVICES** ALLOWS YOU TO BUILD A SINGLE HOME AT THE ADDRESS SPECIFIED ON THAT PLAN. IF YOU WISH TO BUILD THIS PLAN AGAIN, AN ARRANGEMENT CAN BE MADE WITH **DESIGN/SERVICES** TO MAKE SUBSEQUENT SITE SPECIFIC PLANS AVAILABLE TO THE ORIGINAL PURCHASER AT A NOMINAL FEE. PLANS AND DRAWINGS GENERATED BY **DESIGN/SERVICES** REMAIN THE PROPERTY OF **DESIGN/SERVICES**.

PLEASE UNDERSTAND THAT THESE PLANS CANNOT BE REDRAWN OR REPRODUCED IN ANY WAY WITHOUT THE EXPRESS CONSENT OF **DESIGN/SERVICES**. ANY PARTY THAT TAKES PART IN DOING SO MAY BE IN VIOLATION AND COPYRIGHT LAWS AND COULD HELD ACCOUNTABLE.

ORIGINAL PLANS PRODUCED BY **DESIGN/SERVICES** ARE AFFIXED WITH THE **DESIGN/SERVICES** "RED SEAL OF CONFIDENCE". IF THIS SEAL DOES NOT APPEAR IN RED, THAT PLAN SHOULD BE CONSIDERED STOLEN AND OR ILLEGAL. THE PLAN SHOULD BE CONFISCATED AND **DESIGN/SERVICES** SHOULD BE NOTIFIED IMMEDIATELY.

PURCHASER DOES HAVE THE RIGHT TO MAKE NON-STRUCTURAL FIELD CHANGES (MARK-UPS) AS DESIRED. HOWEVER, **DESIGN/SERVICES** SHALL IN NO WAY BE HELD RESPONSIBLE FOR ANY EFFECT THESE "MARK-UPS" MAY HAVE ON THE PROJECT. THIS WILL RELIEVE **DESIGN/SERVICES** OF ANY AND ALL DESIGN RESPONSIBILITY, SPECIFIC OR IMPLIED. IF CHANGES TO YOUR PLAN ARE DESIRED PLEASE CONTACT **DESIGN/SERVICES** AND LET US ASSIST YOU TO INSURE THE INTEGRITY OF YOUR PLAN.

CONSTRUCTION DOCUMENTS

CONSTRUCTION PLANS "BLUE PRINTS" DEPENDING UPON SIZE, COMPLEXITY, AND OR BUILDING REQUIREMENTS VARY IN SIZE AND INFORMATION. TYPICAL PLANS INCLUDE THE FOLLOWING:

- ELEVATIONS (FRONT, REAR, LEFT, RIGHT)
- FOUNDATION PLAN W/ DETAILS
- FLOOR PLANS
- ROOF PLAN
- TYPICAL CONSTRUCTION DETAILS

SOME BUILDING DEPARTMENTS MAY REQUIRE ADDITIONAL DOCUMENTATION. THESE MAY INCLUDE THE FOLLOWING:

- ELECTRICAL PLAN
- HVAC PLAN
- SITE PLAN (SOME REQUIRE SURVEYORS SEAL)
- STORM WATER PLAN (REQUIRES ENGINEERS SEAL)

IF SUCH PLANS ARE REQUIRED OUR OFFICE CAN PROVIDE THEM AT AN ADDITIONAL FEE.



CODE SUMMARY

NAME OF PROJECT: II BEAUCHAINE'S  
ADDRESS: 211 S.TOPSAIL DR.  
SURF CITY, NC. 28445  
PROPOSED USE: RESTAURANT  
OWNER INFORMATION:  
OWNER NAME: DARREL & PATRICE BEAUCHAINE  
PHONE: 910.328.1293  
CODE ENFORCEMENT JURISDICTION: SURF CITY  
LEAD DESIGN PROFESSIONAL: MICHAEL C. GALLANT, PE  
(FOUNDATION, HVAC & WIND LOADS)  
LICENSE #: 25574  
PHONE: 910.328.4857

BUILDING DATA

AREA: OCCUPANCY: ASSEMBLY A-2  
MIXED OCCUPANCY: NO  
CONSTRUCTION TYPE: V B  
MIXED CONSTRUCTION: NO  
FIRE DISTRICT: NO  
BUILDING HEIGHT: 20'-4"  
NUMBER OF STORIES: 2  
MEZZANINE: NO  
HIGH RISE: NO  
TOTAL GROSS BUILDING 3740 SQ FT

FIRE RESISTANCE RATINGS

ALL WALLS CEILING AND ROOF ASSEMBLIES REQUIRED 0 HOUR.

LIFE SAFETY SYSTEM

EMERGENCY LIGHTING AND SIGNS: YES  
SMOKE DETECTION SYSTEM: YES  
PANIC HARDWARE: YES

EXIT REQUIREMENTS

DEAD END MAXIMUM CONDITION: 30 FEET  
TRAVEL DISTANCE TO EXIT: 54FT.-MAXIMUM ALLOWED CONDITION: 200 FEET  
TOTAL SQUARE FOOTAGE: 3740 SQ FT  
NET SQ FT/OCCUPANCY: 15  
TOTAL NUMBER OF PEOPLE ON FLOOR: 150  
NUMBER OF DOORS PROVIDED: 4  
NUMBER OF DOORS REQUIRED: 2

DESIGN LOADS

ROOF LIVE LOAD: BY OTHERS  
WIND: BY OTHERS  
IMPORTANCE FACTOR: BY OTHERS  
ASCE-7/EXPOSURE: BY OTHERS  
FLOOR: BY OTHERS  
SNOW: BY OTHERS  
SEISMIC ZONE: BY OTHERS  
Av: BY OTHERS  
SEISMIC IMPORTANCE FACTOR: BY OTHERS  
LATERAL DESIGN CONTROL: BY OTHERS  
METHOD OF RESISTANCE: BY OTHERS  
SOIL BEARING CAPACITIES:  
PRESUMPTIVE- BY OTHERS

ENERGY REQUIREMENTS

THERMAL ENVELOPE  
METHOD OF COMPLIANCE: PRESCRIPTIVE  
ROOF/CEILING ASSEMBLY: R30/U.075  
EXTERIOR WALLS: R19/U.160  
DOORS AND WINDOWS: R2.70/U.81  
FLOORS SLAB ON GRADE: R20/U.112

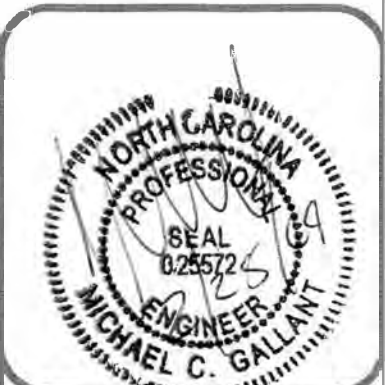
MECHANICAL REQUIREMENTS

METHOD OF COMPLIANCE;PRESCRIPTIVE  
NUMBER AND SIZE UNITS; 2 UNITS @ 5 TONS.  
MINIMUM COOLING EFFICIENCY; 10 SEER  
UNITS: HP UNITS: TRANE 2TWR1060A1001 (2)  
AH UNITS: TRANE TWE048C14FC (1)  
TWE060C15FD (1)

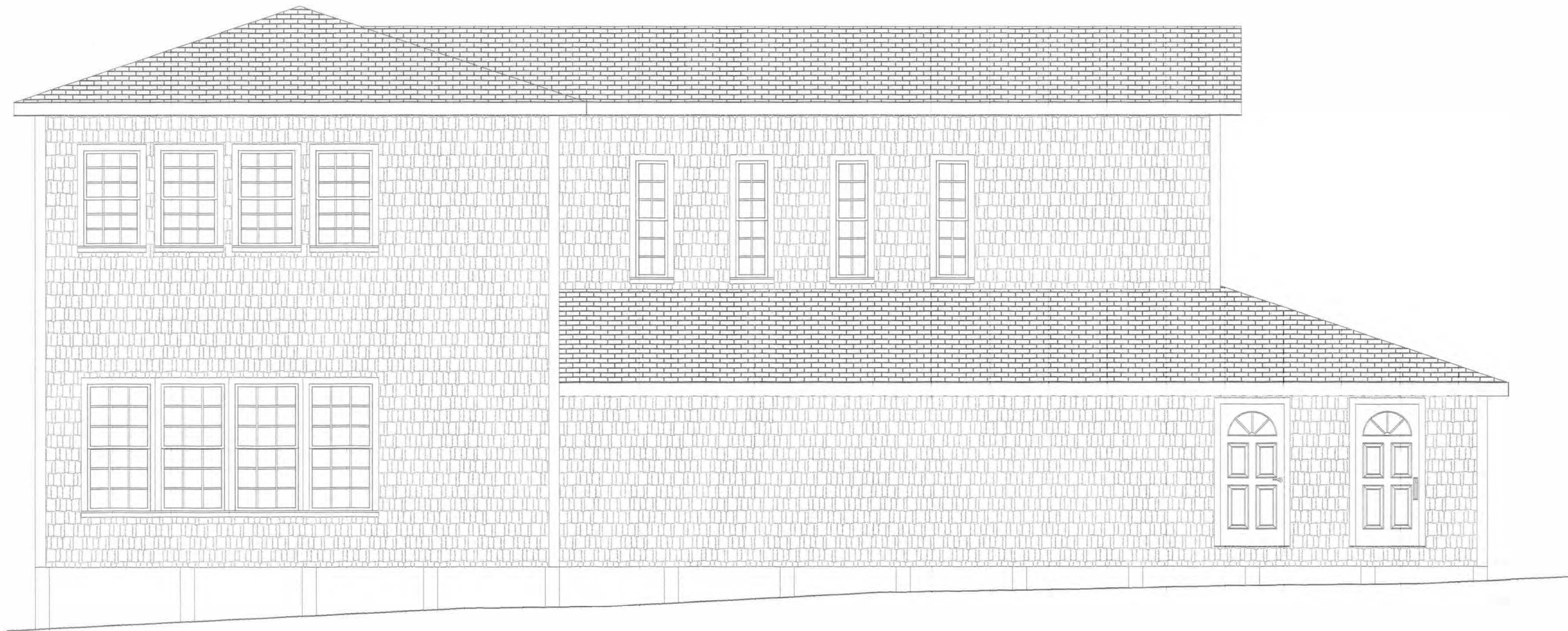
DESIGNER STATEMENT

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE THERMAL ENVELOPE AND MECHANICAL REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE VOLUME X-ENERGY.

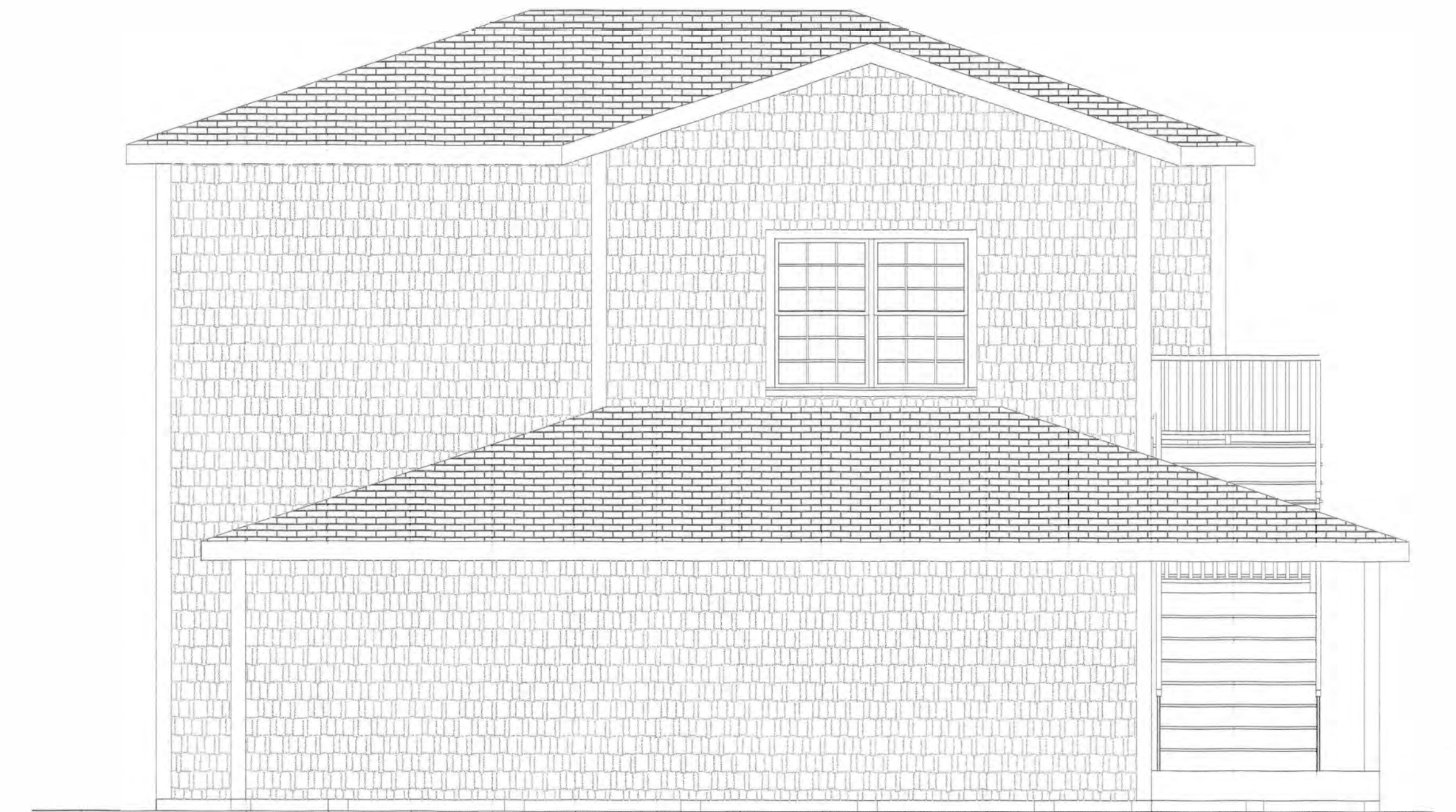
MICHAEL C. GALLANT, PE

|                                                              |                                                                                                                            |                                                                                       |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| MICHAEL C. GALLANT P.E., P.A.                                |                                                                                                                            |  |
| II BEAUCHAINE'S<br>211 S.TOPSAIL DR.<br>SURF CITY, NC. 28445 | 604-A NORTH NEW RIVER DR.<br>SURF CITY, NC. 28445<br>PHONE: 910.328-4857<br>FAX: 910.328-4733<br>E-MAIL: GALLANTMC@AOL.COM |                                                                                       |
| CODE SUMMARY                                                 | DRAFTING SERVICES BY:<br>DESIGN SERVICES<br>604-A NORTH NEW RIVER DR.<br>SURF CITY, NC. 28445<br>PHONE: 910.328-4857       | SHEET:<br>1 OF 4                                                                      |
| DATE:<br>2/25/04                                             | SCALE:<br>1/4" = 1'-0"                                                                                                     | DRAWN BY:<br>RJH<br>FILENAME:<br>Beauchaine.dwg                                       |

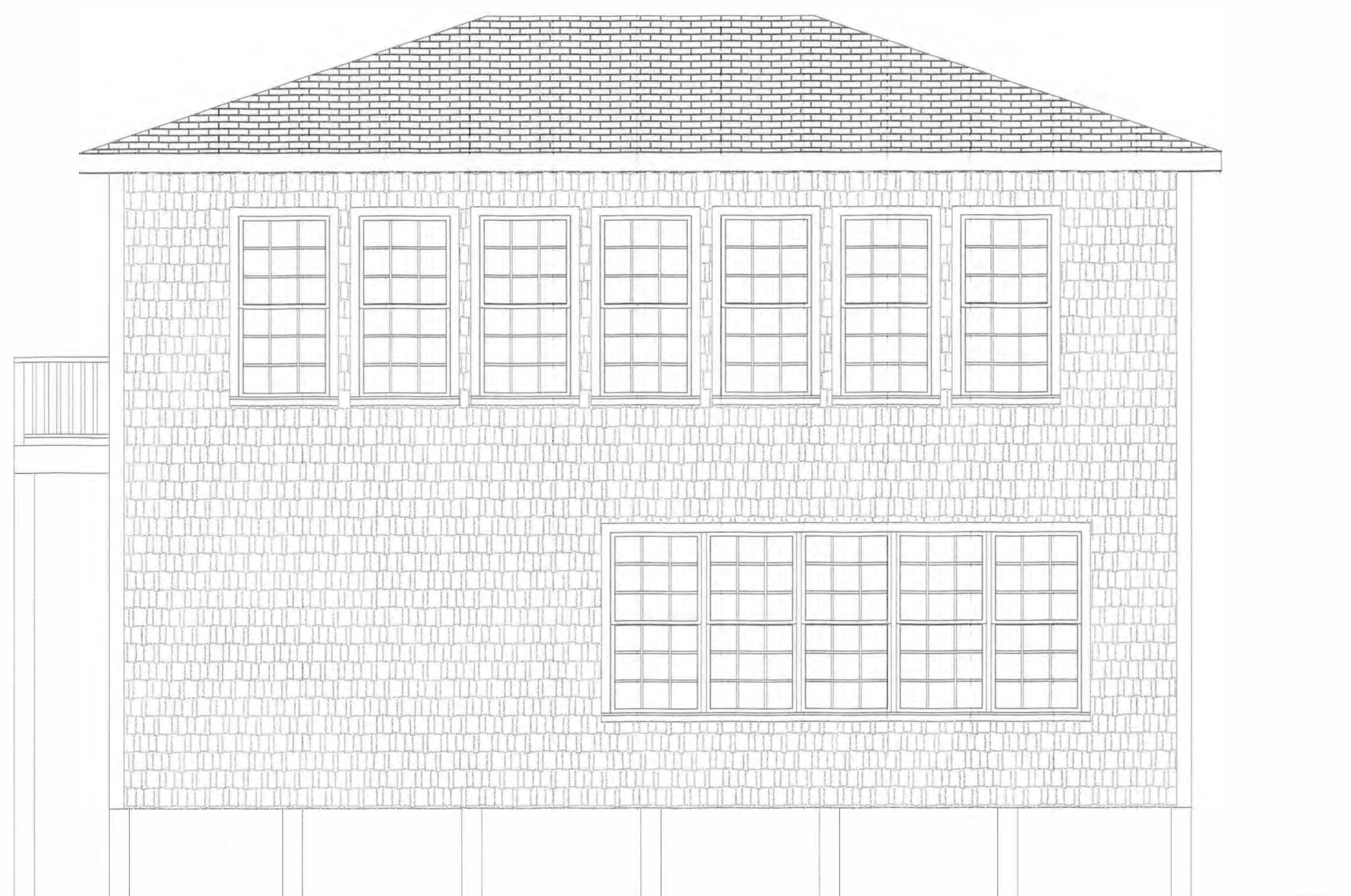




LEFT ELEVATION



LEFT ELEVATION



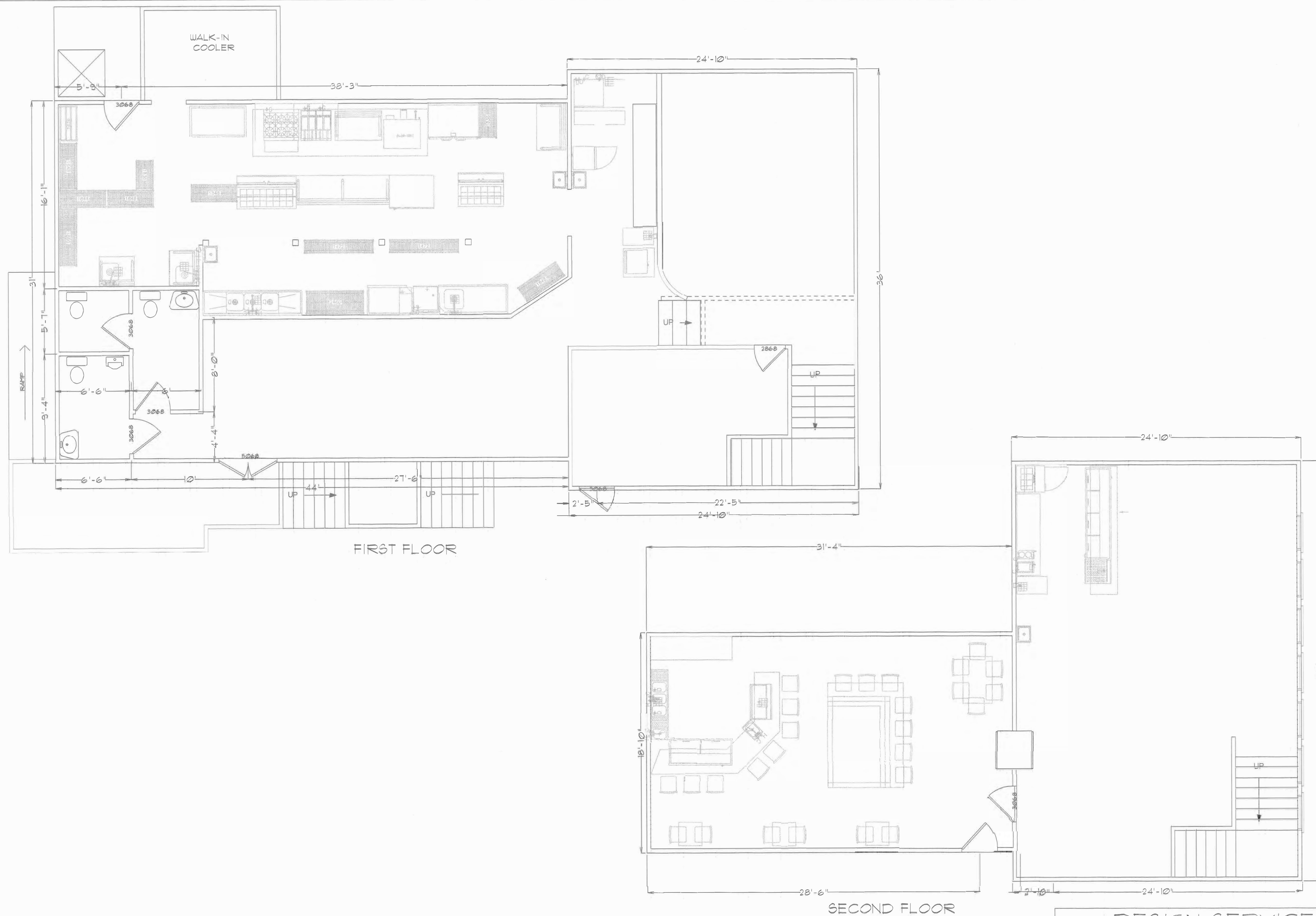
RIGHT ELEVATION

| DESIGN SERVICES                                               |                        |                                                             |                             |
|---------------------------------------------------------------|------------------------|-------------------------------------------------------------|-----------------------------|
| 11 BEAUCHAINE'S<br>211 S. TOPSAIL DR.<br>SURF CITY, NC. 28445 |                        | 604-A N. NEW RIVER<br>SURF CITY, NC 28445<br>(910) 328-4851 |                             |
| ELEVATIONS                                                    |                        |                                                             |                             |
| DATE:<br>02-25-04                                             | SCALE:<br>1/4" = 1'-0" | DRAWN BY:<br>RJH                                            | FILENAME:<br>Beauchaine.dwg |



SHEET: 2 OF 4





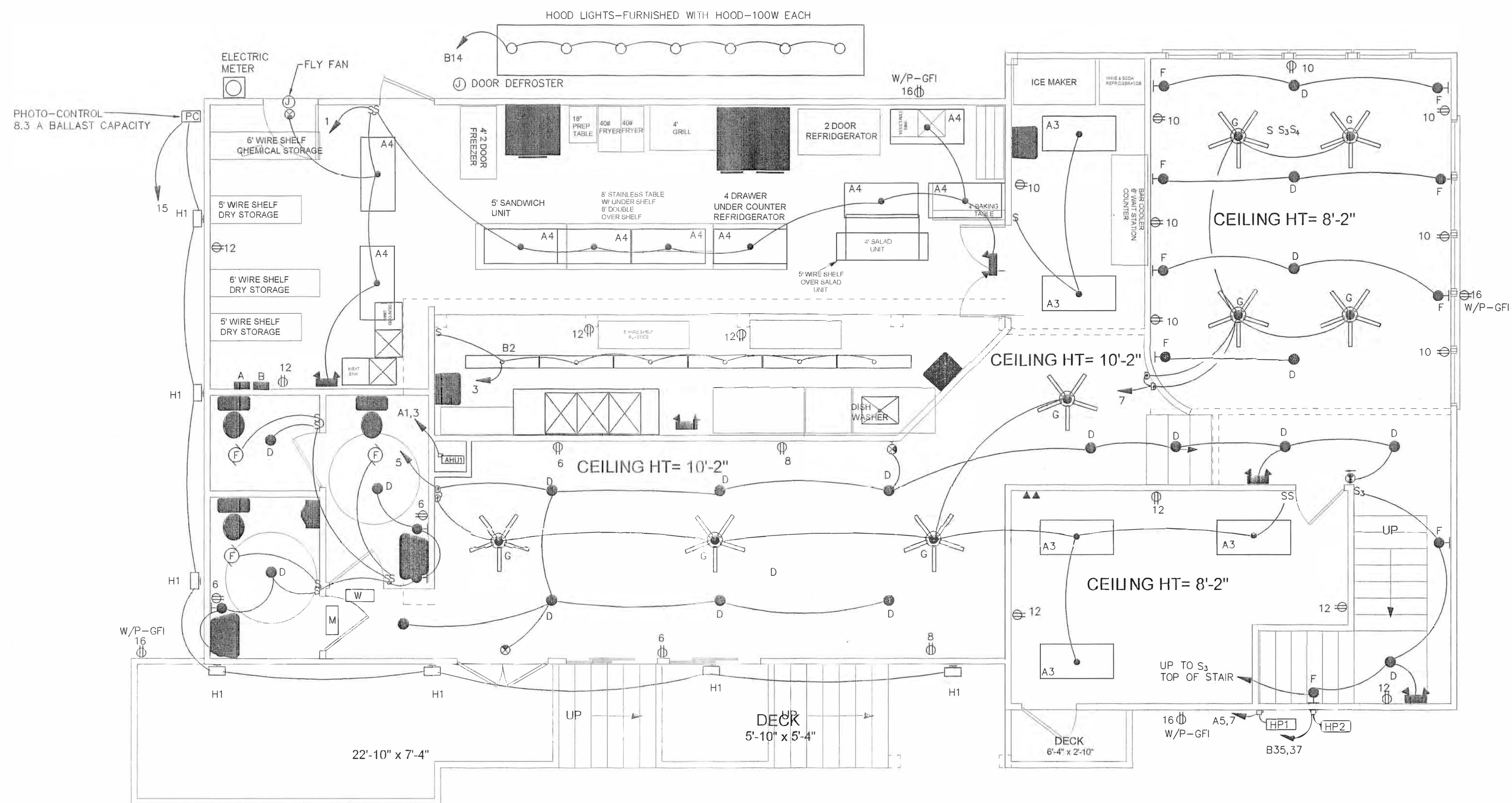
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|-----------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------|-----------------------------|
| <b>DESIGN SERVICES</b><br>11 BEAUCHAINE'S<br>211 S. TOPSAIL DR.<br>SURF CITY, NC. 28445 |                        | 604-A N. NEW RIVER<br>SURF CITY, NC 28445<br>(910) 328-4851 |                             |
| FIRST & SECOND<br>FLOOR PLANS                                                           |                        | SHEET: 3 OF 4                                               |                             |
| DATE:<br>02-25-04                                                                       | SCALE:<br>1/4" = 1'-0" | DRAWN BY:<br>RJH                                            | FILENAME:<br>Beauchaine.dwg |











FIRST FLOOR  
1/4"=1'-0"

## NOTES

1. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO SAME CIRCUIT AS GENERAL LIGHTING BUT AHEAD OF ALL SWITCHING

F. PATRICK O'CONNOR, PE  
CONSULTING ENGINEER  
8137 BLUE HERON DRIVE EAST, APT 302  
WILMINGTON, NC 28411  
TEL (910) 686-4265  
FAX (910) 686-4265

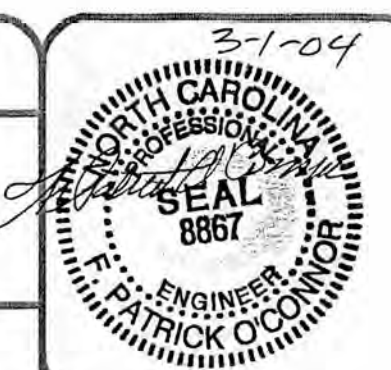
MICHAEL C. GALLANT P.E., P.A.

II BEAUCHAINE'S  
211 S. TOPSAIL DR.  
SURF CITY, NC. 28445

604-A NORTH NEW RIVER DR.  
SURF CITY, NC. 28445  
PHONE: 910.328-4857  
FAX: 910.328-4733  
E-MAIL: GALLANTMC@AOL.COM

DRAFTING SERVICES BY:  
DESIGN SERVICES  
604-A NORTH NEW RIVER DR.  
SURF CITY, NC. 28445  
PHONE: 910.328-4857

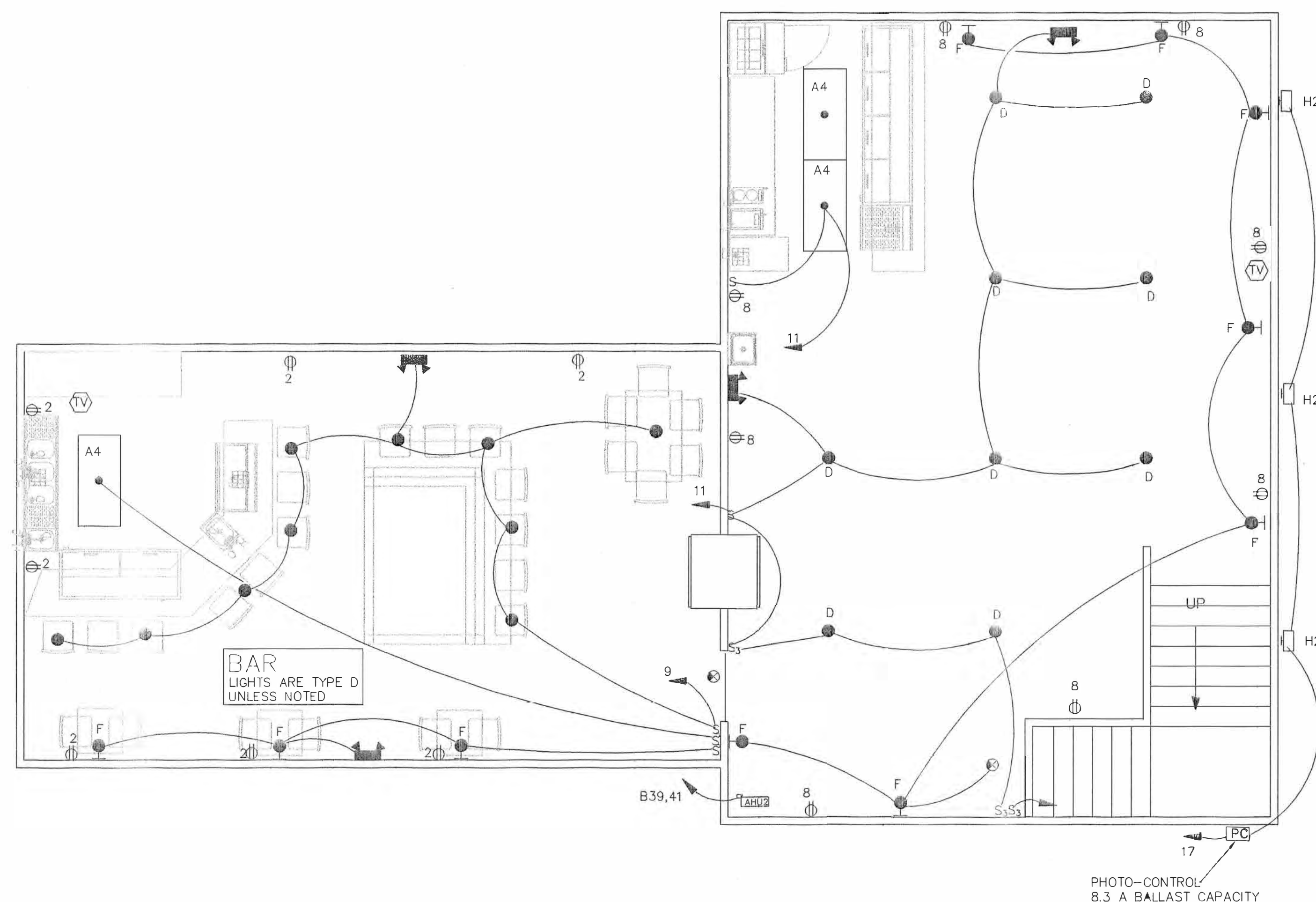
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SHEET:  
E-1 1 OF 3



| LEGEND                                                                                                                |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| SYMBOL                                                                                                                | DESCRIPTION                                                                                                        |
|                                                                                                                       | FLUORESCENT LIGHT FIXTURE, CEILING MOUNT, UPPER CASE LETTER AND NUMBER INDICATES FIXTURE TYPE AND NUMBER OF LAMPS. |
|                                                                                                                       | EMERGENCY LIGHT/BATTERY BACK UP                                                                                    |
|                                                                                                                       | INCANDESCENT LIGHT FIXTURE, CEILING MOUNT, UPPER CASE LETTER INDICATES FIXTURE TYPE.                               |
|                                                                                                                       | INCANDESCENT LIGHT FIXTURE, WALL MOUNT, UPPER CASE LETTER INDICATES FIXTURE TYPE.                                  |
|                                                                                                                       | EXIT SIGN, UNIVERSAL MOUNT W/ BATT BACK UP                                                                         |
|                                                                                                                       | DUPLEX RECEPTACLE, 120VAC MOUNT AT 18" AFF (UNO), NUMBER INDICATES CIRCUIT NO.                                     |
|                                                                                                                       | DUPLEX RECEPTACLE, 120VAC, GFI DENOTES GROUND FAULT, W/P INDICATES WEATHER PROOF.                                  |
|                                                                                                                       | PANEL, FLUSH MOUNT                                                                                                 |
|                                                                                                                       | SWITCH, SINGLE POLE, 120VAC, MOUNT AT 48" AFF (UNO) NUMBER INDICATES NUMBER OF POLES                               |
|                                                                                                                       | TELEPHONE JACK                                                                                                     |
|                                                                                                                       | HEAT PUMP W/ FUSED DISCONNECT SW CHECK WITH HVAC CONTR. FOR FUSE SIZE                                              |
|                                                                                                                       | AHU SPLIT SYS W/ UNFUSED DISCONNECT SW                                                                             |
|                                                                                                                       | ELECTRIC CIRCUIT                                                                                                   |
| ABBREVIATIONS<br>U.N.O. UNLESS NOTED OTHERWISE<br>AFF ABOVE FINISHED FLOOR<br>HVAC HTG VENTILATING & AIR CONDITIONING |                                                                                                                    |



## SPECIFICATION

CODES:  
ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC;  
THE NC BLDG CODE; AND THE LOCAL ELECTRICAL DEPT.

### WIRING

EXTERIOR EXPOSED - PVC SCHED 40 WITH THHN/THWN WIRE  
 INTERIOR EXPOSED - EMT WITH THHN/THWN WIRE  
 INTERIOR CONCEALED-EMT WITH THHN/THWN WIRE OR MC CABLE/INSULATED GR.  
 PLACES OF ASSEMBLY AND PATIENT CARE AREAS  
 INTERIOR - CONCEALED AREAS NOT REQUIRING ABOVE- NM-B/G CABLE

UNDERGROUND - PVC SCHED 40 WITH THHN/THWN WIRE

### DEVICES:

RECEPTACLES: STANDARD GRADE 15A, 120V.  
 OUTDOOR- W/P COVER GROUND FAULT 15A, 120V.  
 SINKS - GROUND FAULT 15A, 120V.  
 SPECIAL AS NOTED

SWITCHES: 15A, 120V.

### BOXES:

METAL RACEWAYS OR METAL JACKETED CABLE: METAL BOXES OR  
 NONMETALLIC BOXES WITH INTEGRAL BONDING BETWEEN ALL ENTRIES.  
 NM CABLE OR PVC CONDUIT: NONMETALLIC BOXES.

### PLATES

OUTSIDE AND UNFINISHED AREAS: STEEL, CADMIUM PLATED  
 ALL OTHER: PLASTIC.

### PANELBOARDS

COPPER OR ALUM BUS. SEPARATE NEUTRAL AND GROUND BUS.  
 MOLDED CASE CIRCUIT BREAKERS. SEE RISER DIAG AND PANEL  
 SCHEDULES. ALL HVAC C/B SHALL BE HACR RATED

### CONDUIT

IN ALL NONMETALLIC CONDUIT INSTALL A SEPARATE INSULATED  
 GREEN GROUND WIRE, SIZED IN ACCORDANCE WITH TABLE 250-95 OF  
 THE NEC

### WIRE

WIRE PULLED IN CONDUIT SHALL BE THWN/THHN COPPER, 10 AWG  
 AND SMALLER SHALL BE SOLID AND 8 AWG AND LARGER SHALL BE  
 STRANDED.

NM CABLE SHALL HAVE A BARE GROUND CONDUCTOR AS AN INTEGRAL  
 PART OF CABLE ASSEMBLY

### GROUNDING

AT SERVICE, GROUND THE SYSTEM WITH A CONTINUOUS GROUND  
 CONDUCTOR. THIS CONDUCTOR SHALL BOND THE GROUND ROD AND THE  
 BLDG STEEL AND WATER SERVICE (IF REQUIRED).  
 SEE THE RISER FOR ADDITIONAL INFORMATION.

COMBINATION TELEPHONE AND DATA OUTLET  
 INSTALL 3/4" PVC FROM OUTLET BOX TO ABOVE CEILING AND  
 TERMINATE. LEAVE PULL CORD IN CONDUIT. SEE RISER

### HVAC

ELECTRICAL CONTRACTOR SHALL VERIFY WITH HVAC CONTRACTOR THE  
 FUSE REQUIREMENTS FOR HVAC DISCONNECTS. PROVIDE DUCT SMOKE  
 DETECTORS WHERE SHOWN. MECH CONTRACTOR WILL INSTALL.

F. PATRICK O'CONNOR, PE  
 CONSULTING ENGINEER  
 8137 BLUE HERON DRIVE EAST, APT 302  
 WILMINGTON, NC 28411  
 TEL (910) 686-4265  
 FAX (910) 686-4265

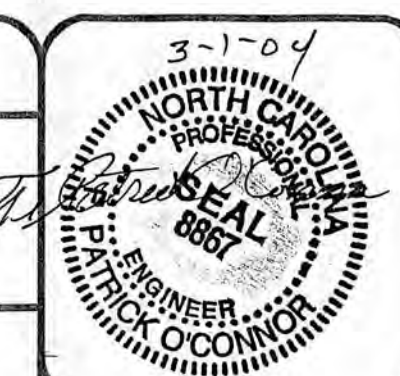
MICHAEL C. GALLANT P.E., P.A.

11 BEAUCHAINE'S  
 211 S. TOPSAIL DR.  
 SURF CITY, NC. 28445

604-A NORTH NEW RIVER DR.  
 SURF CITY, NC. 28445  
 PHONE: 910.328-4857  
 FAX: 910.328-4733  
 E-MAIL: GALLANTMC@AOL.COM

DRAFTING SERVICES BY:  
 DESIGN SERVICES  
 604-A NORTH NEW RIVER DR.  
 SURF CITY, NC. 28445  
 PHONE: 910.328-4857

DATE: 2/27/04 SCALE: 1/4" = 1'-0" DRAWN BY: FPO FILENAME: Beauchaine.dwg



SHEET:  
 E-2 2 OF 3



| LOAD                 | CB    | WIRE | A     | B     | C |       | A     | B     | C | CB    | WIRE | LOAD                                | ID#   |
|----------------------|-------|------|-------|-------|---|-------|-------|-------|---|-------|------|-------------------------------------|-------|
| AHU1                 | 50/2P | 8    | 4250  |       |   | 1 2   | 1560  |       |   | 20/1P | 12   | 2 DR FREEZER                        | 1     |
|                      |       |      |       | 4250  |   | 3 4   |       | 948   |   | 20/1P | 12   | CONV OVEN                           | 5     |
| HP 1                 | 50/2P | 8    | 3910  |       |   | 5 6   | 1236  |       |   | 20/1P | 12   | REFRIGERATOR                        | 6     |
|                      |       |      |       | 3910  |   | 7 8   |       | 816   |   | 20/1P | 12   | SAND WICH UNIT                      | 7     |
| SPACE                |       |      |       |       |   | 9 10  | 540   |       |   | 20/1P | 12   | BEVERAGE REFRIG                     | 8     |
| SPACE                |       |      |       |       |   | 11 12 |       | 1056  |   | 20/1P | 12   | SANDWICH UNIT                       | 10    |
| SPACE                |       |      |       |       |   | 13 14 | 1783  |       |   | 30/2P | 10   | ICE MACHINE                         | 18    |
| SPACE                |       |      |       |       |   | 15 16 |       | 1783  |   |       |      | DO                                  |       |
| GAS HEATER           | 20/1P | 12   |       | 1000  |   | 17 18 | 250   |       |   | 20/1P | 12   | REFRIG / BEV UNIT                   | 22/28 |
| SPACE                |       |      |       |       |   | 19 20 |       | 1500  |   | 20/1P | 12   | SODA FOUNTAIN                       | 23    |
| KIT SUPPLY FAN       | 15/2P | 12   |       | 500   |   | 21 22 | 1800  |       |   | 20/1P | 12   | ARTIC REFRIG                        | 24    |
|                      |       |      | 500   |       |   | 23 24 |       | 1800  |   | 20/1P | 12   | ICE TEA BREWER                      | 25    |
| KIT EXHAUST FAN      | 15/2P | 12   |       | 250   |   | 25 26 | 1140  |       |   | 20/1P | 12   | COFFEE BREWER                       | 26    |
|                      |       |      | 250   |       |   | 27 28 |       | 1140  |   | 20/1P | 12   | BEV COOLER                          | 27    |
| KIT EXHAUST FAN      | 15/2P | 12   |       | 250   |   | 29 30 | 756   |       |   | 20/1P | 12   | BEV COOLER                          | 32    |
|                      |       |      |       | 250   |   | 31 32 |       | 1500  |   | 20/1P | 12   | SODA FOUNTAIN                       | 23    |
| SPACE                |       |      |       |       |   | 33 34 |       |       |   |       |      | SPACE                               |       |
| SPACE                |       |      |       |       |   | 35 36 |       |       |   |       |      | SPACE                               |       |
| SPACE                |       |      |       |       |   | 37 38 |       |       |   |       |      | SPACE                               |       |
| SPACE                |       |      |       |       |   | 39 40 |       |       |   |       |      | SPACE                               |       |
| SPACE                |       |      |       |       |   | 41 42 |       |       |   |       |      | SPACE                               |       |
| TOTAL A              |       |      | 9160  | 10160 | 0 |       | 9065  | 10543 | 0 |       |      | TOTAL B                             |       |
|                      |       |      |       |       |   |       | 9160  | 10160 | 0 |       |      | TOTAL A                             |       |
| CONTINUOUS LOAD      |       |      | 18800 | VA    |   |       | 18225 | 20703 | 0 |       |      | TOTAL A&B                           |       |
| NON-CONTINUOUS LOAD  |       |      | 13676 | VA    |   |       | 152   | 173   | 0 |       |      | AMPS                                |       |
| TOTAL LOAD           |       |      | 32476 | VA    |   |       |       |       |   |       |      |                                     |       |
| 25% OF LARGEST MOTOR |       |      | 1850  | VA    |   |       | 18108 | VA    |   |       |      | TOTAL KITCHEN LOAD (NON-CONTINUOUS) |       |
| TOTAL DEMAND LOAD    |       |      | 34328 | VA    |   |       | 0.7   |       |   |       |      | DIVERSITY                           |       |
| CONNECTED AMPS       | 230   |      | 149   | A     |   |       | 12676 | VA    |   |       |      | KITCHEN DEMAND                      |       |
|                      |       |      |       |       |   |       | 1000  | VA    |   |       |      | GAS HEATER                          |       |
|                      |       |      |       |       |   |       | 13676 | VA    |   |       |      | TOTAL NON CONTINUOUS LOAD           |       |
|                      |       |      |       |       |   |       |       |       |   |       |      | CONTINUOUS LOAD                     |       |
|                      |       |      |       |       |   |       | 7800  | VA    |   |       |      | HP1                                 |       |
|                      |       |      |       |       |   |       | 8500  | VA    |   |       |      | AHU1                                |       |
|                      |       |      |       |       |   |       | 2000  | VA    |   |       |      | FANS                                |       |
|                      |       |      |       |       |   |       | 500   | VA    |   |       |      | LIGHTING                            |       |
|                      |       |      |       |       |   |       | 18800 | VA    |   |       |      | CONTINUOUS LOAD DEMAND              |       |

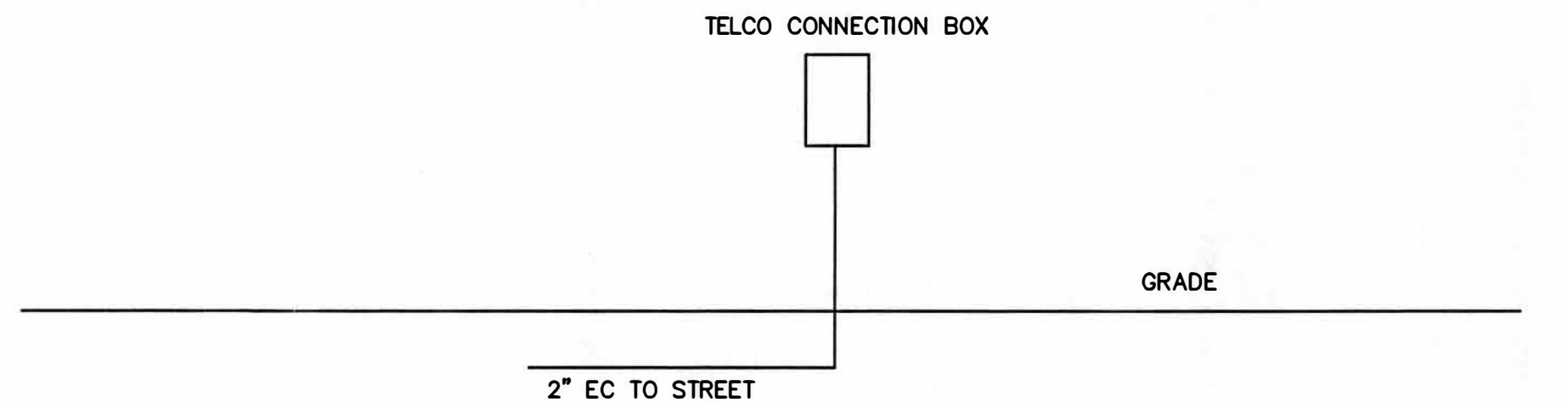
#### PANEL A

225A MCB 120/240V 1ø 3W  
GROUND BUS  
NEUTRAL BUS  
10,000 AIC

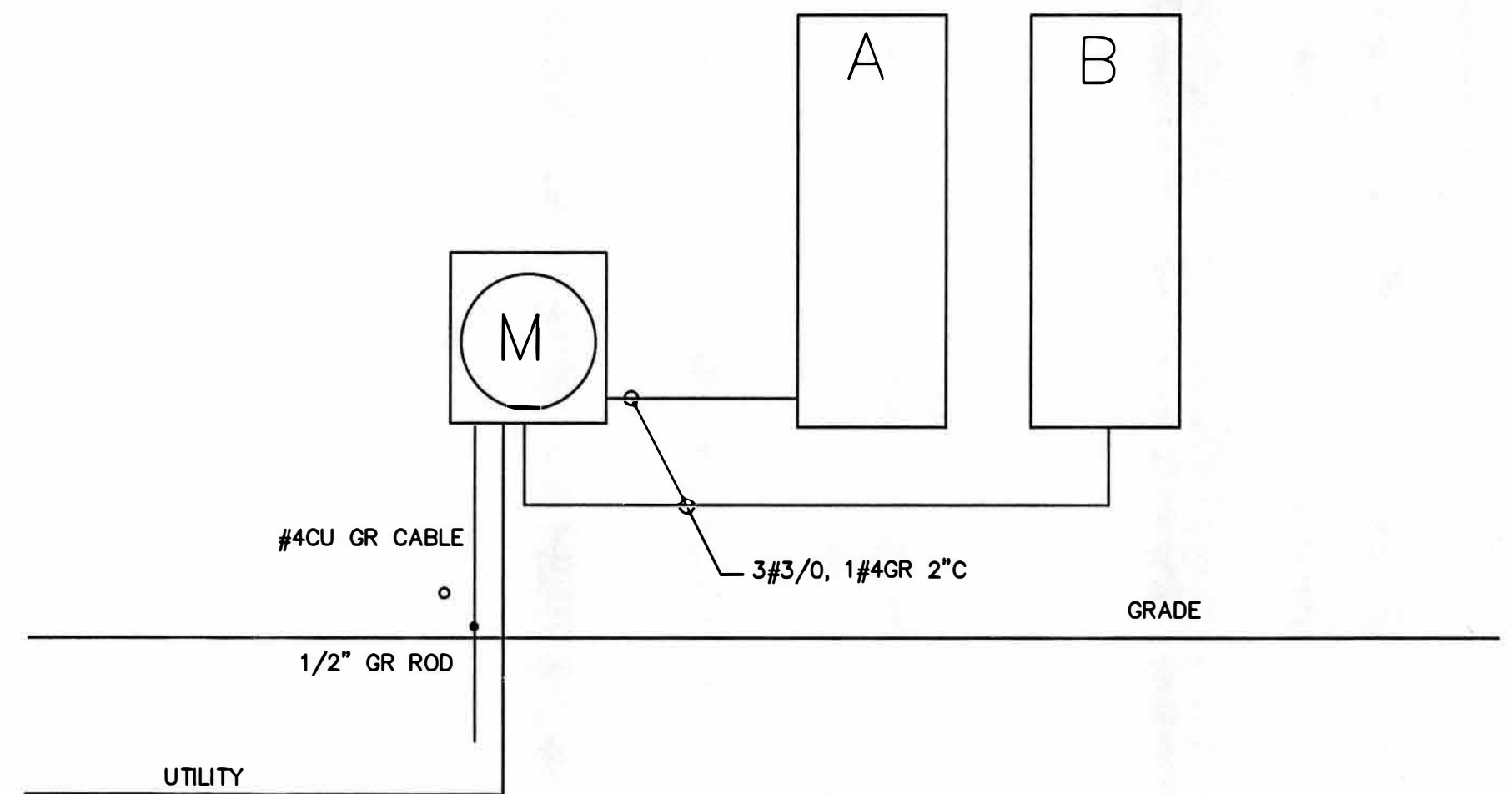
| LOAD                | CB    | WIRE | A     | B     | C    |       | A      | B      | C | CB    | WIRE | LOAD                  |  |
|---------------------|-------|------|-------|-------|------|-------|--------|--------|---|-------|------|-----------------------|--|
| KITCHEN LIGHTS      | 20/1P | 12   | 1100  |       |      | 1 2   | 1080   |        |   | 20/1P | 12   | RECEPTACLES 2nd level |  |
| KITCHEN LIGHTS      | 20/1P | 12   |       | 700   |      | 3 4   |        | 1440   |   | 20/1P | 12   | RECEPTACLES 2nd level |  |
| HALL/STAIR/TR'S LTS | 20/1P | 12   | 1300  |       |      | 5 6   | 1080   |        |   | 20/1P | 12   | RECEPTACLES           |  |
| DINING RM LIGHTS    | 20/1P | 12   |       | 1400  |      | 7 8   |        | 900    |   | 20/1P | 12   | RECEPTACLES           |  |
| BAR LIGHTS 2ND FL   | 20/1P | 12   | 800   |       |      | 9 10  | 1260   |        |   | 20/1P | 12   | RECEPTACLES           |  |
| DINING 2ND FL       | 20/1P | 12   |       | 800   |      | 11 12 |        | 1080   |   | 20/1P | 12   | RECEPTACLES           |  |
| SPACE               |       |      |       |       |      | 13 14 | 700    |        |   | 20/1P | 12   | HOOD LIGHTS           |  |
| EXTERIOR LIGHTS     | 20/1P | 12   |       | 800   |      | 15 16 |        | 720    |   | 20/1P | 12   | EXTERIOR RECEPTACLES  |  |
| EXTERIOR LIGHTS     | 20/1P | 12   | 800   |       |      | 17 18 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 19 20 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 21 22 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 23 24 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 25 26 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 27 28 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 29 30 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 31 32 |        |        |   |       |      | SPACE                 |  |
| SPACE               |       |      |       |       |      | 33 34 |        |        |   |       |      | SPACE                 |  |
| HP2                 | 50/2P | 8    |       | 3910  | 3910 | 35 36 |        |        |   |       |      | SPACE                 |  |
| AHU2                | 50/2P | 8    |       | 3910  | 4250 | 37 38 |        |        |   |       |      | SPACE                 |  |
|                     |       |      | 4250  | 4250  |      | 39 40 |        |        |   |       |      | SPACE                 |  |
| TOTAL A             |       |      | 12160 | 11860 |      | 41 42 |        |        |   |       |      | SPACE                 |  |
|                     |       |      |       |       |      |       | 4120   | 4140   |   |       |      | TOTAL B               |  |
| LIGHTING            |       |      | 7700  | VA    |      |       | 12160  | 11860  |   |       |      | TOTAL A               |  |
| LIGHTING X 1.25     | 1.25  |      | 9625  | VA    |      |       | 16280  | 16000  |   |       |      | TOTAL A&B             |  |
| RECEPTACLES         |       |      | 8080  | VA    |      |       | 135.67 | 133.33 |   |       |      | AMPS                  |  |
| HP'S                |       |      | 7820  | VA    |      |       |        |        |   |       |      |                       |  |
| AHU                 |       |      | 8500  | VA    |      |       |        |        |   |       |      |                       |  |
| DEMAND VA           |       |      | 34025 | VA    |      |       |        |        |   |       |      |                       |  |
| DEMAND AMPS         | 230   |      | 148   | A     |      |       |        |        |   |       |      |                       |  |

#### PANEL B

225A MCB 120/240V 1ø 3W  
GROUND BUS  
NEUTRAL BUS  
10,000 AIC



## TELEPHONE RISER



## ELECTRIC RISER

#### LIGHTING FIXTURE SCHEDULE 120V LAMPS

| TYPE | DESCRIPTION                       | MOUNTING  | LAMPS    | MFG       | CAT NO           |
|------|-----------------------------------|-----------|----------|-----------|------------------|
| A    | FLUORESCENT SURFACE 2X4           | CEILING   | F32      | METALUX   | WB-232A-EB       |
| B    | FLUORESCENT SURFACE 1X4           | CEILING   | 2 F32    | METALUX   | WE-232A          |
| C    |                                   |           |          |           |                  |
| D    | RECESSED INCANDESCENT CAN         | CEILING   | 40W      | METALLUX  | BE-217-120V-EB81 |
| F    | INCANDESCENT SCONCE               | WALL      | 40W      | BYOWNER   |                  |
| G    | CEILING FAN                       | CEILING   | NA       | BYOWNER   |                  |
| H1   | EXTERIOR LIGHTS-METAL HALIDE      | WALL      | 100W     | LUMARK    | WY SERIES        |
| H2   | EXTERIOR LIGHTS-METAL HALIDE      | WALL      | 250W     | LUMARK    | WL SERIES        |
|      |                                   |           |          |           |                  |
|      |                                   |           |          |           |                  |
|      |                                   |           |          |           |                  |
|      | EXIT LIGHT-FLUORESCENT            | UNIVERSAL | 2-5W     | SURE-LITE | LPX-70-RWH       |
|      | EMERGENCY LIGHT-2 HD-RECHARGEABLE | WALL      | INCAN 9W | SURE-LITE | XR-LC-2984       |

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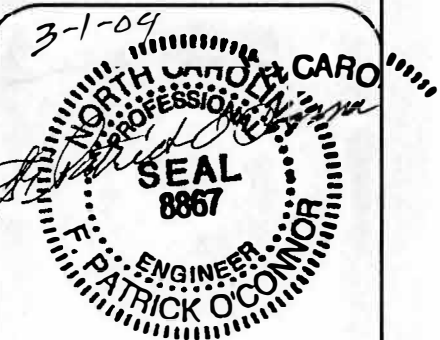
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PHONE: 910.328-4857  
FAX: 910.328-4733  
E-MAIL: GALLANTMC@AOL.COM

SCHEDULES  
RISER

DRAFTING SERVICES BY:  
DESIGN SERVICES  
604-A NORTH NEW RIVER DR.  
SURF CITY, NC. 28445  
PHONE: 910.328-4857



SHEET:

E-3

3 OF 3

DATE:

2/27/04

SCALE:

1/4" = 1'-0"

DRAWN BY:

FILENAME:

FPO

Beauchaine.dwg



| HOOD NO. | MODEL       | LENGTH                          | MAX. COOKING TEMP. | EXHAUST PLENUM |          |      |     |      |         | SUPPLY PLENUM |                 |          |     |     |      | HOOD CONSTRUCTION       | HOOD CONFIG. |            |     |  |
|----------|-------------|---------------------------------|--------------------|----------------|----------|------|-----|------|---------|---------------|-----------------|----------|-----|-----|------|-------------------------|--------------|------------|-----|--|
|          |             |                                 |                    | TOTAL EXH. CFM | RISER(S) |      |     |      |         |               | TOTAL SUPP. CFM | RISER(S) |     |     |      |                         |              | END TO END | ROW |  |
|          |             |                                 |                    |                | WIDTH    | LENG | DIA | CFM  | S.P.    | WIDTH         |                 | LENG     | DIA | CFM | S.P. |                         |              |            |     |  |
| 1        | 4812 SMD-BR | 15' 0.00' Nom.<br>15' 1.50' Ord | 400 Deg.           | 4125           | 10'      | 19'  |     | 2063 | -0.479' |               | 3506            |          |     |     |      | 430 SS<br>Where Exposed |              |            |     |  |

| HOOD NO. | FILTER(S)              |     |        |        | LIGHT(S) |                    |            |          | UTILITY CABINET(S) |                  |                    |          |          | FIRE EXTINGUISHING MEDIA | HOOD WEIGHT LBS. |
|----------|------------------------|-----|--------|--------|----------|--------------------|------------|----------|--------------------|------------------|--------------------|----------|----------|--------------------------|------------------|
|          | TYPE                   | QTY | HEIGHT | LENGTH | QTY      | TYPE               | WIRE GUARD | LOCATION | TYPE               | FIRE SYSTEM SIZE | ELECTRICAL MODEL # | QUANTITY | LOCATION |                          |                  |
| 1        | SS Baffle with Handles | 9   | 16"    | 20"    | 7        | Incandescent Light | NO         | WALL     | PYROCHEM           | 2 TANK           |                    |          |          | YES                      | 925 LBS.         |

| HOOD NO. | WIDTH | LENGTH  | CHEESE MELLER SUPPORTS | TOTAL SUPPLY CFM | BOOTS(S) |        |          |     |        |
|----------|-------|---------|------------------------|------------------|----------|--------|----------|-----|--------|
|          |       |         |                        |                  | WIDTH    | LENGTH | ANGLE    | CFM | S.P.   |
| 1        | 6.00' | 180.00' | ND                     | 3506             | 5'       | 24'    | Straight | 877 | 0.102" |
|          |       |         |                        |                  | 5'       | 24'    | Straight | 877 | 0.102" |
|          |       |         |                        |                  | 5'       | 24'    | Straight | 877 | 0.102" |
|          |       |         |                        |                  | 5'       | 24'    | Straight | 877 | 0.102" |

| HOOD NO. | OPTION                                       |
|----------|----------------------------------------------|
| 1        | FIELD WRAPPER 6.00' High Front, Left, Right, |

NFPA #96  
NSF  
B.O.C.A. #93-16  
U.L. LISTED #MH12106

| FAN UNIT NO. | FAN UNIT MODEL # | EXHAUST FAN |     |      |         |      |       |   |      |     | SUPPLY FAN |          |     |      |        |     |       |   |      |     |
|--------------|------------------|-------------|-----|------|---------|------|-------|---|------|-----|------------|----------|-----|------|--------|-----|-------|---|------|-----|
|              |                  | MODEL       | TAG | CFM  | S.P.    | RPM  | H.P.  | Ø | VOLT | FLA | BLOWER     | HOUSING  | TAG | CFM  | S.P.   | RPM | H.P.  | Ø | VOLT | FLA |
| 1            | NCA14FA          | NCA14FA     |     | 2063 | ~0.550" | 1055 | 0.500 | 1 | 208  | 4.4 |            |          |     |      |        |     |       |   |      |     |
| 2            | NCA14FA          | NCA14FA     |     | 2063 | ~0.550" | 1055 | 0.500 | 1 | 208  | 4.4 |            |          |     |      |        |     |       |   |      |     |
| 3            | NSAU.2-G15       |             |     |      |         |      |       |   |      |     | G15        | NSAU.2M1 |     | 3506 | 0.650" | 603 | 1.000 | 1 | 208  | 7.7 |

| NO. | ON FAN | ITEM | SIZE                           |                    |               |
|-----|--------|------|--------------------------------|--------------------|---------------|
| 1   | # 1    | Curb | 23.000"W x 23.000"L x 20.000"H | 4.000x12.000 Pitch | Vented Hinged |
| 2   | # 2    | Curb | 23.000"W x 23.000"L x 20.000"H | 4.000x12.000 Pitch | Vented Hinged |
| 3   | # 3    | Curb | 32.500"W x 32.500"L x 14.000"H | 4.000x12.000 Pitch |               |

| FAN NO. | OPTION (Qty. - Descr.) |
|---------|------------------------|
| 1       | 1 -Grease Box          |
| 2       | 1 -Grease Box          |

Approved as Noted ☐

Approved with NO Exception Taken ☐

Revise and Resubmit ☐

SIGNATURE \_\_\_\_\_

Your Title \_\_\_\_\_ Date \_\_\_\_\_

| NO. | TAG | PACKAGE # | LOCATION   | SWITCHES          |                  | ROOFTOP STARTERS | OPTION          | FANS CONTROLLED |   |       |       |     |
|-----|-----|-----------|------------|-------------------|------------------|------------------|-----------------|-----------------|---|-------|-------|-----|
|     |     |           |            | LOCATION          | QUANTITY         |                  |                 | TYPE            | # | HP.   | VOLTY | FLA |
| 1   |     | 22111002  | Wall Mount | SS Wall Mount Box | 1 Light<br>1 Fan | YES              | Exhaust in Fire | Exhaust         | 1 | 0.500 | 208   | 4.4 |
|     |     |           |            |                   |                  |                  |                 | Exhaust         | 1 | 0.500 | 208   | 4.4 |
|     |     |           |            |                   |                  |                  |                 | Supply          | 1 | 1.000 | 208   | 7.7 |

[illegible]

WALL MOUNT PREWIRE  
PACKAGE SHIPPED  
LOOSE FOR FIELD  
INSTALL BY JOB  
ELECTRICIAN. FIRE  
SYSTEM MICRO SWITCH  
WIRES FIELD WIRED  
TO PACKAGE BY  
ELECTRICIAN

NOTE: IF WALL MOUNT PREWIRE, OR  
FIELD INSTALLED FIRE SYSTEM  
MICROSWITCH, THE TERMINALS SHOWING  
FACTORY WIRING MUST BE FIELD WIRED

12 x 18 x 6 Box Size

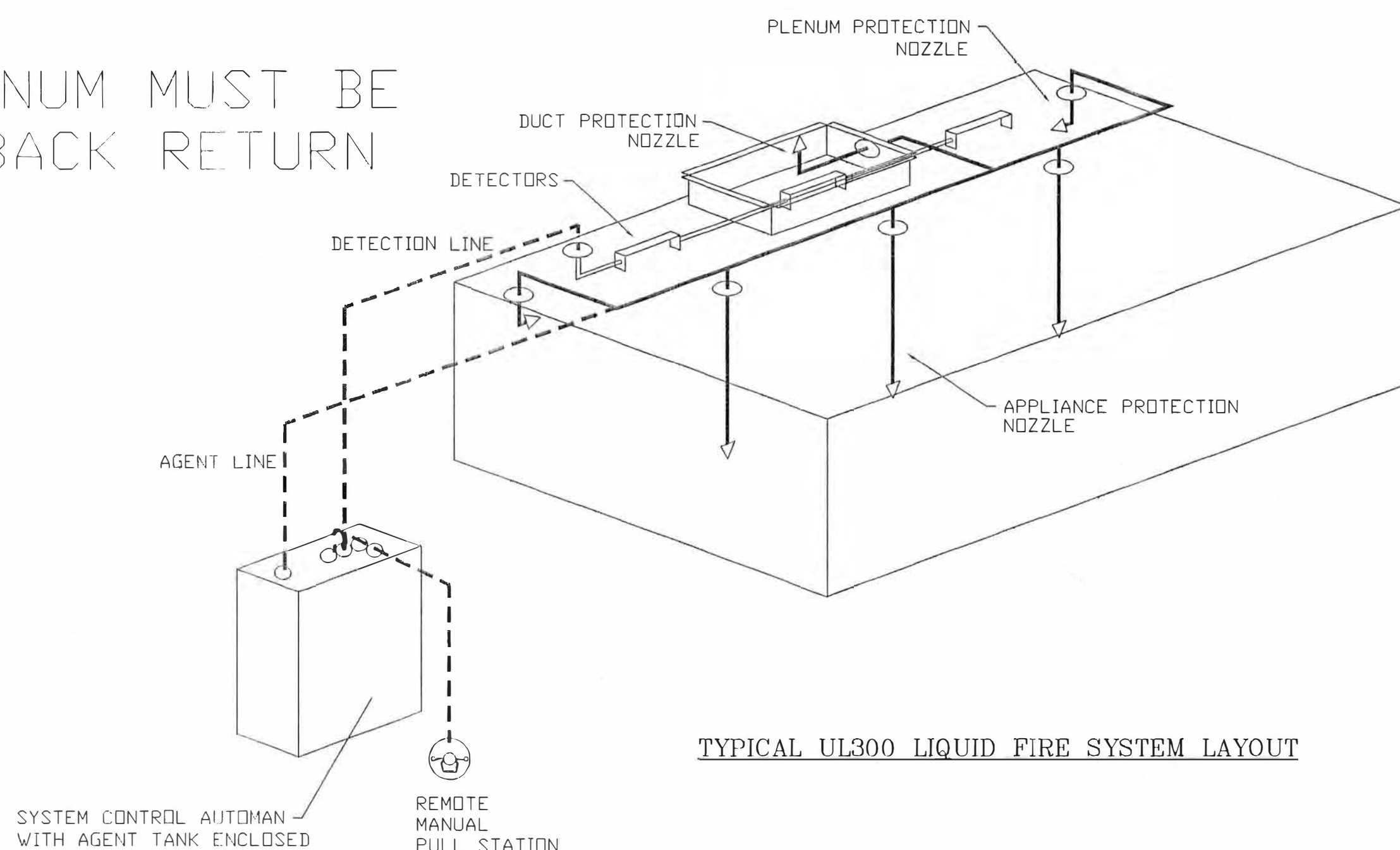
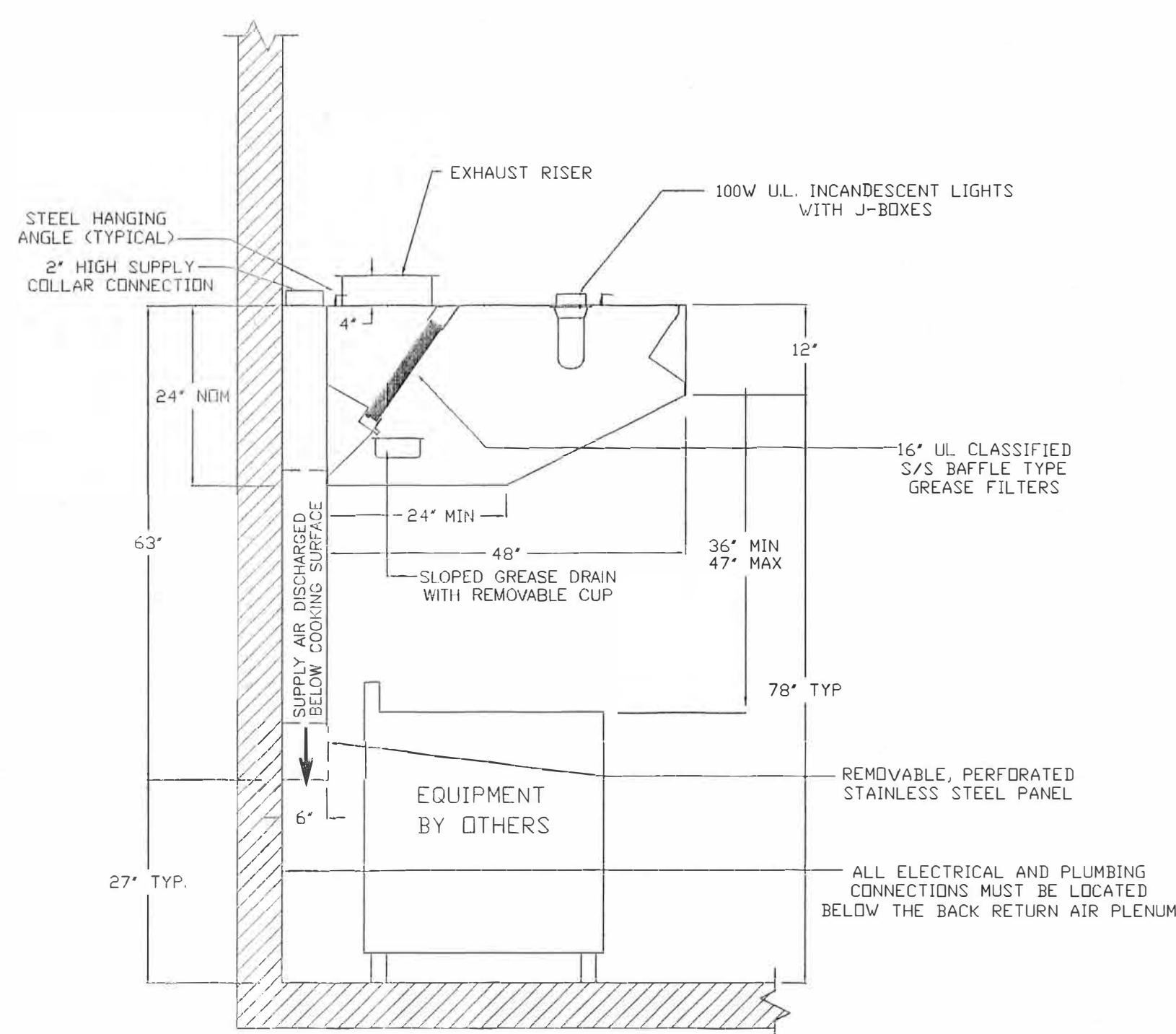
LOCATION SURF CITY, NC

|      |            |       |        |
|------|------------|-------|--------|
| DATE | 12/10/2003 | JOB # | 231255 |
|------|------------|-------|--------|

|       |      |          |     |
|-------|------|----------|-----|
| DWG # | BESC | DRAWN BY | LAG |
|-------|------|----------|-----|

|      |      |       |     |
|------|------|-------|-----|
| REV. | 1.00 | SCALE | NTS |
|------|------|-------|-----|

\*\*\*NOTE THAT THE BACK RETURN PLENUM MUST BE  
75" TALL JUST LIKE NORMAL BACK RETURN  
ON 4824NDBR



### TYPICAL UL300 LIQUID FIRE SYSTEM LAYOUT

FOR QUESTIONS, CALL THE  
WESTERN NORTH CAROLINA OFFICE  
LONNIE GRANT (REGIONAL MANAGER)  
PHONE: 336-996-8484, FAX: 336-996-0418  
EMAIL: [reg30@captiveair.com](mailto:reg30@captiveair.com)

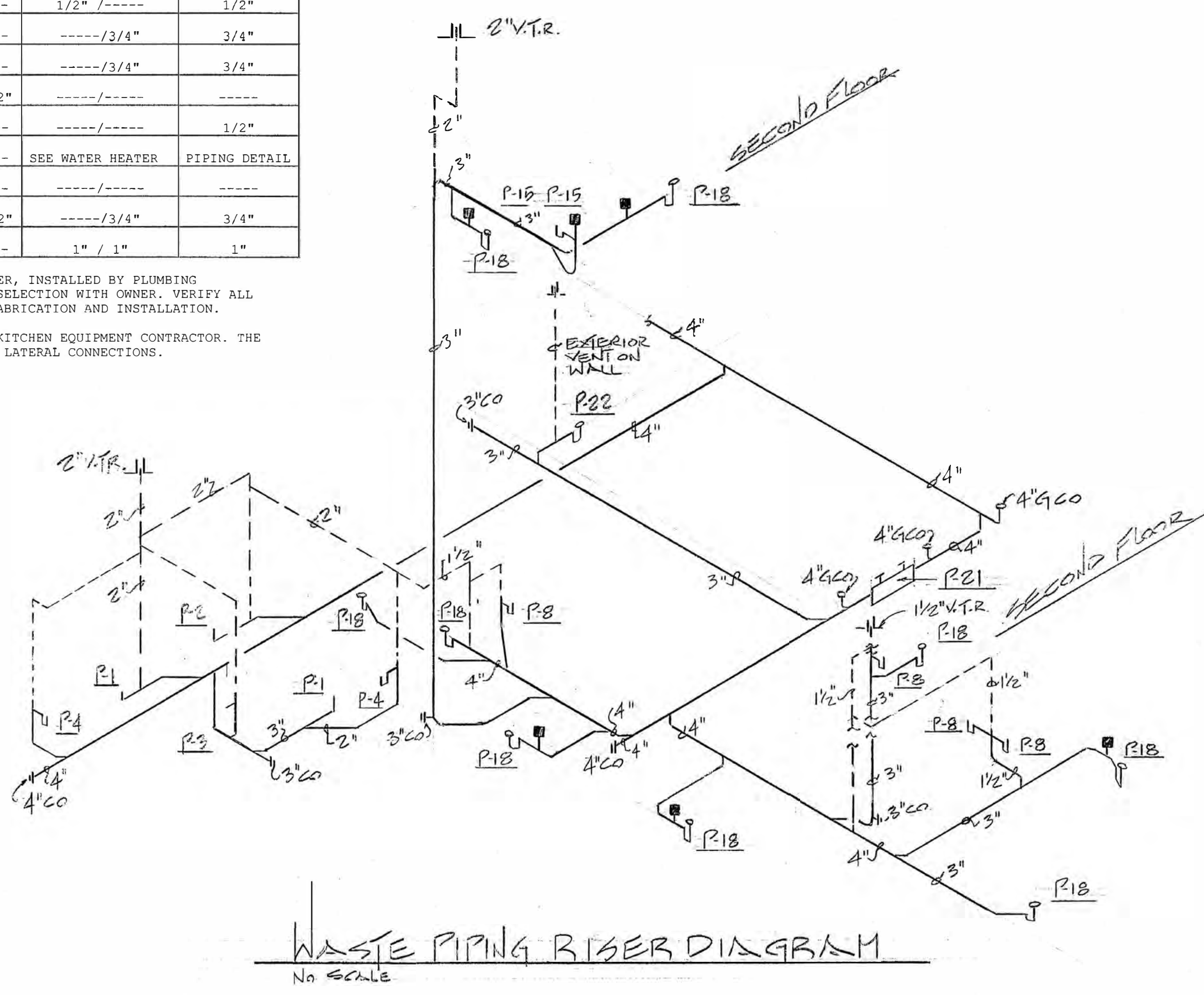
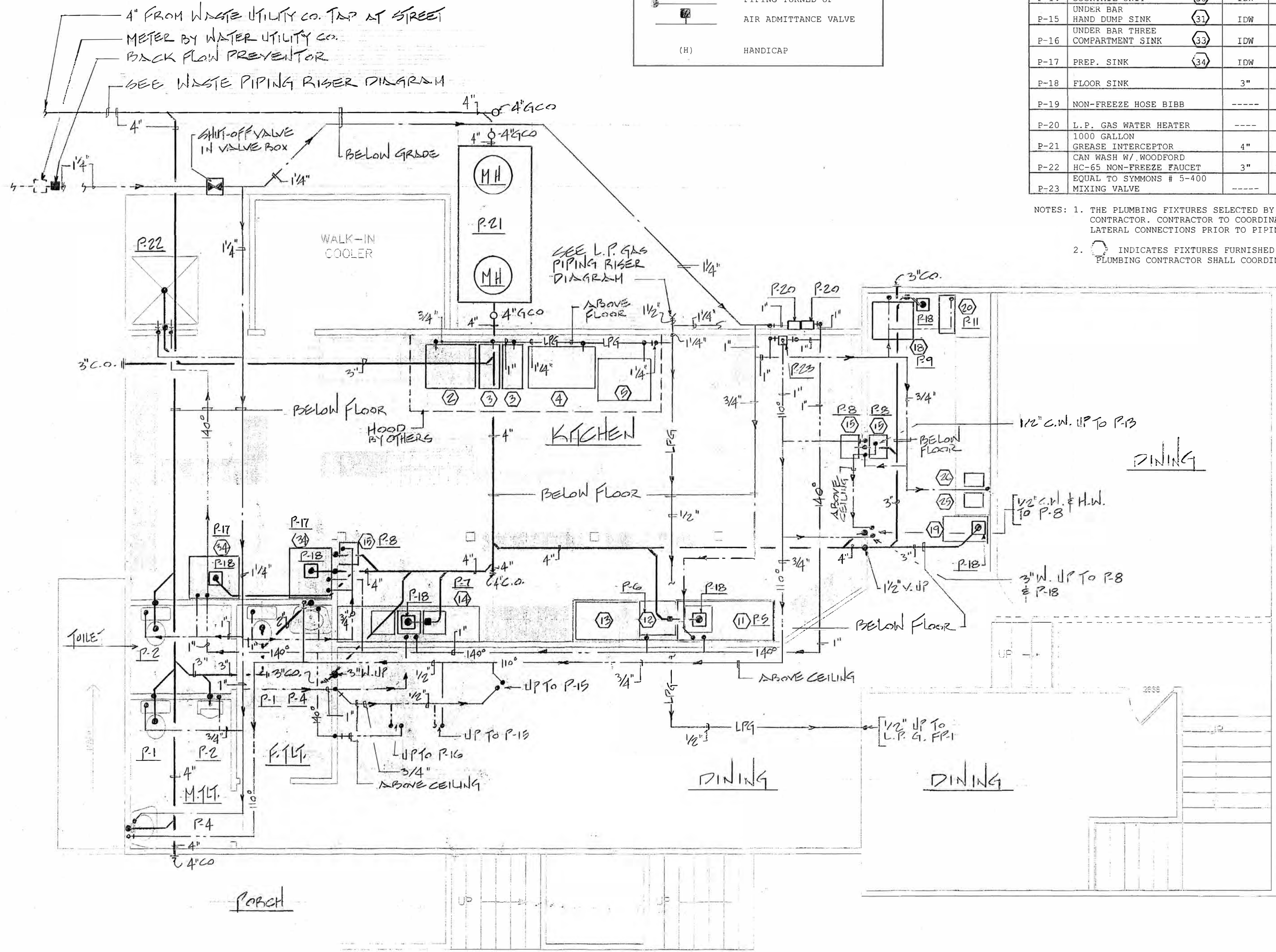
# CAPTIVE



| PLUMBING LEGEND |                          |
|-----------------|--------------------------|
|                 | WASTE PIPING (W.)        |
|                 | VENT PIPING (V.)         |
|                 | HOT WATER PIPING (H.W.)  |
|                 | COLD WATER PIPING (C.W.) |
|                 | L.P. GAS PIPING          |
|                 | WALL CLEANOUT            |
|                 | FLOOR CLEAN OUT          |
|                 | GRADE CLEANOUT           |
|                 | VENT THRU ROOF           |
|                 | FLOOR DRAIN              |
|                 | FLOOR SINK               |
|                 | INDIRECT WASTE           |
|                 | 1000 BTU/HR.             |
|                 | PIPING TURNED DOWN       |
|                 | PIPING TURNED UP         |
|                 | AIR ADMITTANCE VALVE     |
|                 | HANDICAP                 |

| PLUMBING FIXTURE LATERAL SCHEDULE |                                                                                   |        |        |                   |               |
|-----------------------------------|-----------------------------------------------------------------------------------|--------|--------|-------------------|---------------|
| SYM.                              | DESCRIPTION                                                                       | W.     | V.     | 110 H.W. / 140 HW | C.W.          |
| P-1                               | WATER CLOSET (H)                                                                  | 3"     | 2"     | -----/-----       | 1/2"          |
| P-2                               | FLOOR MOUNTED FLUSH TANK                                                          | 3"     | 2"     | -----/-----       | 1/2"          |
| P-3                               | URINAL                                                                            | 2"     | 1-1/2" | -----/-----       | 3/4"          |
| P-4                               | WALL HUNG LAVATORY (H)                                                            | 1-1/2" | 1-1/2" | 1/2" / ----       | 1/2"          |
| P-5                               | SOILED DISH TABLE                                                                 | 1"     | IDW    | 1/2" / ----       | -----         |
| P-6                               | DISH MACHINE                                                                      | 1"     | IDW    | ---- / 3/4"       | -----         |
| P-7                               | 3-COMPARTMENT SINK                                                                | 1"     | IDW    | ----/3/4"         | -----         |
| P-8                               | HAND SINK                                                                         | 1-1/2" | 1-1/2" | 1/2" / ----       | 1/2"          |
| P-9                               | ICE MACHINE                                                                       | 1"     | IDW    | -----/-----       | 1/2"          |
| P-10                              | ICE BIN                                                                           | 1"     | IDW    | -----/-----       | -----         |
| P-11                              | WATER FILTER SYSTEM                                                               | 1"     | IDW    | ----- / ----      | 1/2"          |
| P-12                              | SODA FOUNTAIN                                                                     | 1"     | IDW    | ----- / ----      | 1/2"          |
| P-13                              | ICE TEA BREWER                                                                    | 1"     | IDW    | ----- / ----      | -----         |
| P-14                              | COFFEE BREWER                                                                     | 1"     | IDW    | ----- / ----      | -----         |
| P-15                              | COCKTAIL UNIT                                                                     | 1"     | IDW    | ----- / ----      | 1/2"          |
| P-16                              | UNDER BAR HAND DUMP SINK                                                          | 1"     | IDW    | 1/2" / ----       | 1/2"          |
| P-17                              | UNDER BAR THREE COMPARTMENT SINK                                                  | 1"     | IDW    | ----/3/4"         | 3/4"          |
| P-18                              | PREP. SINK                                                                        | 1"     | IDW    | ----/3/4"         | 3/4"          |
| P-19                              | FLOOR SINK                                                                        | 3"     | 1-1/2" | -----/-----       | -----         |
| P-20                              | NON-FREEZE HOSE BIBB                                                              | -----  | -----  | -----/-----       | 1/2"          |
| P-21                              | L.P. GAS WATER HEATER                                                             | ---    | ---    | SEE WATER HEATER  | PIPING DETAIL |
| P-22                              | 1000 GALLON GREASE INTERCEPTOR                                                    | 4"     | ---    | -----/-----       | -----         |
| P-23                              | CAN WASH W/ WOODFORD HC-65 NON-FREEZE FAUCET EQUAL TO SYMONS # 5-400 MIXING VALVE | 3"     | 1-1/2" | ----/3/4"         | 3/4"          |
| P-24                              | MIXING VALVE                                                                      | ---    | ---    | 1" / 1"           | 1"            |

- NOTES: 1. THE PLUMBING FIXTURES SELECTED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. CONTRACTOR TO COORDINATE SELECTION WITH OWNER. VERIFY ALL LATERAL CONNECTIONS PRIOR TO PIPING FABRICATION AND INSTALLATION.
2. INDICATES FIXTURES FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE LATERAL CONNECTIONS.



|                                                                                                                            |  |                            |
|----------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <b>MICHAEL C. GALLANT P.E., P.A.</b><br>11 BEAUCHAINE'S<br>211 S. TOPSAIL DR.<br>SURF CITY, NC. 28445                      |  |                            |
| 604-A NORTH NEW RIVER DR.<br>SURF CITY, NC. 28445<br>PHONE: 910.328-4857<br>FAX: 910.328-4733<br>E-MAIL: GALLANTMC@AOL.COM |  |                            |
| FIRST FLOOR<br>PLUMBING PLAN                                                                                               |  | SHEET<br><b>P-1</b> 1 OF 2 |
| DATE: 2/19/04 SCALE: 1/4" = 1'-0"<br>DRAWN BY: RON WARD                                                                    |  |                            |





**P-20:** WATER HEATER (2) REQUIRED; EQUAL TO RINNAI MODEL NUMBER 2532WC  
EXTERNAL COMMERCIAL L.P. GAS INSTANTANEOUS WATER HEATER, 199,000  
BTU/HR. INPUT, 198 GPH AT 100 DEGREE RISE EACH, MCC CONTROLLER TO  
140 DEGREES WITH BC-45-4 110 DEGREE DOMESTIC HOT WATER CONTROL FOR  
110 DEGREE HOT WATER FIXTURES, WATER PIPING COVER BOX, WATER PIPING  
INSTALLATION KIT, FREEZE PROTECTION PACKAGE AND PRESSURE RELIEF  
VALVE, MANIFOLD KIT.

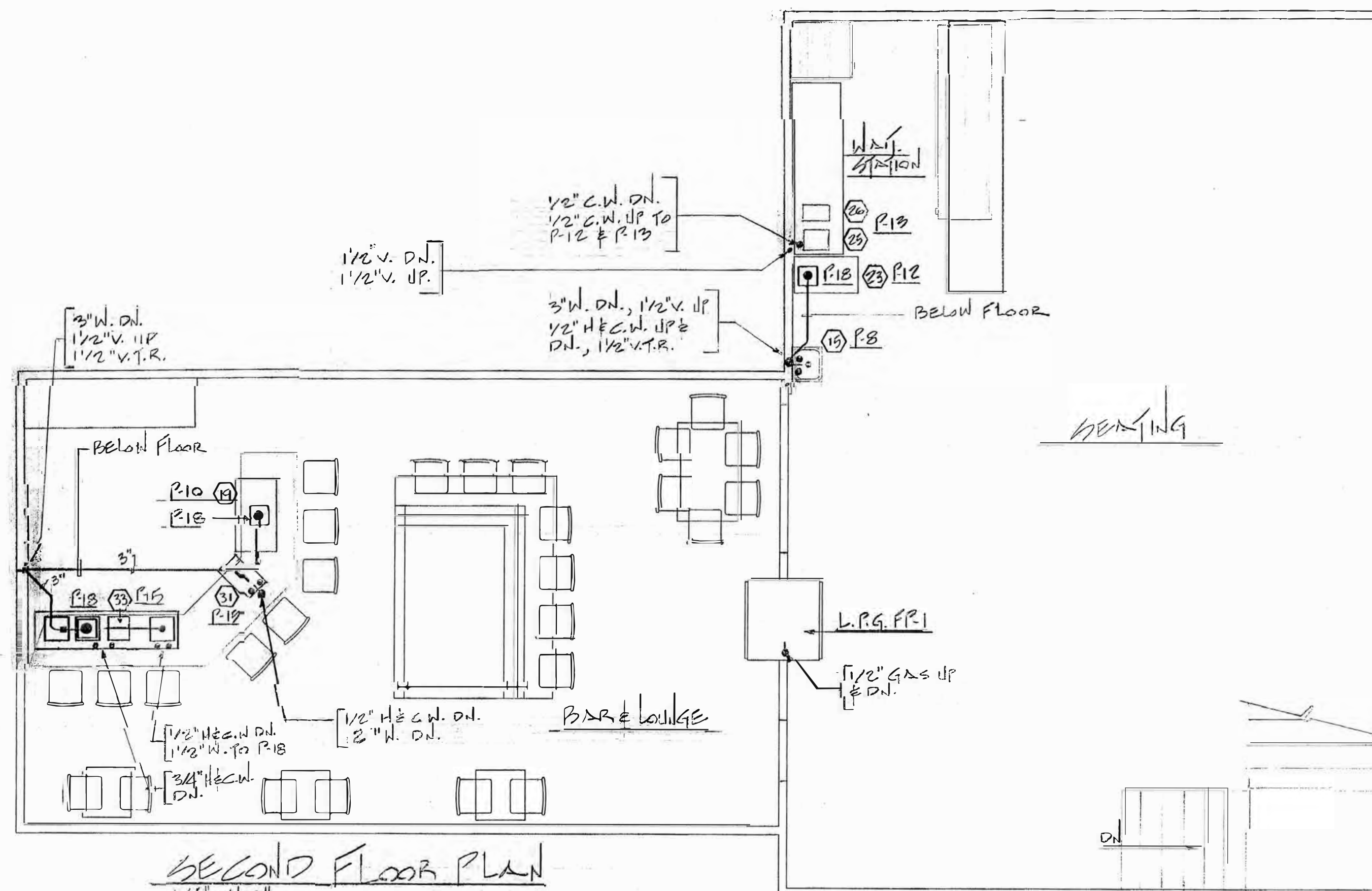
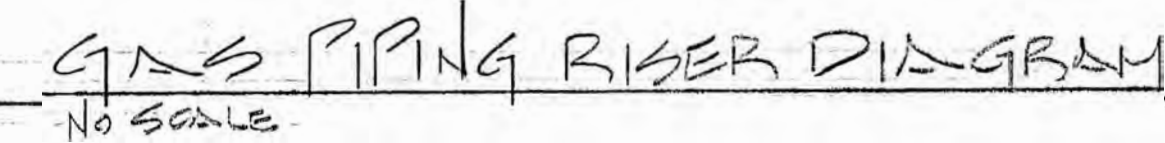
| GAS APPLIANCE LATERAL SCHEDULE |                                                                |                          |                 |
|--------------------------------|----------------------------------------------------------------|--------------------------|-----------------|
| SYM.                           | DESCRIPTION                                                    | L.P. GAS INPUT<br>BTU/HR | CONNECTION SIZE |
| ②                              | 6- BURNER RANGE                                                | 162,000                  | 3/4"            |
| ③                              | (2) 40 LB. SOUTHBEND FRYERS<br>120,000 BTU/HR. GAS INPUT EACH. | 240,000                  | 3/4"<br>EACH    |
| ④                              | APW 3' CHAR GRILL                                              | 140,000                  | 3/4"            |
| ⑤                              | SOUTHBEND CONVECTION OVEN                                      | 60,000                   | 3/4"            |
| P-20                           | (2) L.P. GAS WATER HEATER<br>199,000 BTU/HR. GAS INPUT EACH.   | 398,000                  | 3/4"<br>EACH    |
| LPGFP-1                        | L.P. GAS FIRE PLACE                                            | 38,000                   | 1/2"            |

NOTES :

1. L.P. GAS CONTRACTOR SHALL VERIFY ALL GAS CONNECTIONS SIZES AND THE APPLIANCE GAS REGULATOR WORKING PRESSURE PRIOR TO PIPING INSTALLATION.
2. APPLIANCE IN  SYMBOL INDICATES KITCHEN EQUIPMENT ITEMS.

TOTAL L.P. GAS DEMAND AT 1038.0 MBH  
PIPE SIZING BASED ON TABLE 402.3 OF THE  
2000 INTERNATIONAL FUEL CODE, 80 FEET OF  
PIPING TO LONGEST RUN, 11 INCHES WATER COLUMN,  
SETTING AT 0.5 INCHES WATER COLUMN PRESSURE  
DROP

L.P. GAS UTILITY CO. TO PROVIDE L.P. TANK,  
PRIMARY REGULATOR AND CONNECT TO BUILDING  
AT THIS POINT.



MICHAEL C. GALLANT P.E., P.A.

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DRAFTING SERVICES BY:

DESIGN SERVICES  
604-A NORTH NEW RIVER DR.  
SURF CITY, NC. 28445  
PHONE: 910.328-4857

SECOND FLOOR  
PLUMBING PLAN

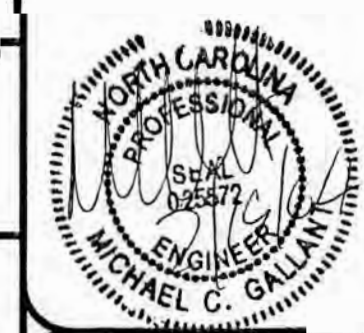
DATE: 2/19/04

SCALE:  
1/4" = 1' 0"

DRAWN BY: RON WILSON

FILENAME:

Beauchaine.dwg



SHEET: P-2 25

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