

REVISIONS	
ADDED EGRESS LIGHTING & REQUIREMENT NOTE	2/26/08



FIREBLOCKING REQUIREMENTS

(PER FBC04 SEC. 717.2)

- FIREBLOCKING:
- IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE.
  - BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE ALLOWED AS FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.
  - FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
    - A. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
    - B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
  - FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES, AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS AND SIMILAR LOCATIONS.
  - FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH FBC04 SECTION 1019.1.5.
  - CEILING AND FLOOR OPENINGS: WHERE ANNUAL SPACE PROTECTION IS PROVIDED IN ACCORDANCE WITH FBC04 EXCEPTION 6, SEC. 707.2, EXCEPTION 1, SEC. 712.4.2, OR SEC. 712.4.3, FIREBLOCKING SHALL BE INSTALLED AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION. FACTORY-BUILT CHIMNEYS AND FIREPLACES SHALL BE FIREBLOCKED IN ACCORDANCE WITH UL 103 AND UL 127.
  - ARCHITECTURAL TRIM: FIREBLOCKING SHALL BE INSTALLED WITHIN CONCEALED SPACES OF EXTERIOR WALL FINISH AND OTHER EXTERIOR ARCHITECTURAL ELEMENTS WHERE PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN FBC04, SEC. 1406 OR WHERE ERRECTED WITH COMBUSTIBLE FRAMES, AT MAXIMUM INTERVALS OF 20'. IF NONCONTINUOUS, SUCH ELEMENTS SHALL HAVE CLOSED ENDS, WITH AT LEAST 4" OF SEPARATION BETWEEN SECTIONS. FIREBLOCKING SHALL NOT BE REQUIRED WHERE INSTALLED ON NONCOMBUSTIBLE FRAMING AND THE FACE OF THE EXTERIOR WALL FINISH EXPOSED TO THE CONCEALED SPACE IS COVERED BY ONE OF THE FOLLOWING MATERIALS:
    - A. ALUMINUM HAVING A MINIMUM THICKNESS OF 0.019".
    - B. CORROSION-RESISTANT STEEL HAVING A BASE METAL THICKNESS NOT LESS THAN 0.016" AT ANY POINT.
  - OTHER APPROVED NONCOMBUSTIBLE MATERIALS.
  - WHERE WOOD SLEEPERS ARE USED FOR LAYING WOOD FLOORING ON MASONRY OR CONCRETE FIRE-RESISTANCE-RATED FLOORS, THE SPACE BETWEEN THE FLOOR SLAB AND THE UNDERSIDE OF THE WOOD FLOORING SHALL BE FILLED WITH A NONCOMBUSTIBLE MATERIAL, SUCH AS A MANNER THAT THERE WILL BE NO OPEN SPACES UNDER THE FLOORING THAT WILL EXCEED 100 SF IN AREA AND SUCH SPACE SHALL BE FILLED SOLIDLY UNDER PERMANENT PARTITIONS SO THAT THERE IS NO COMMUNICATION UNDER THE FLOORING BETWEEN ADJOINING ROOMS.

- FIREBLOCKING MATERIALS:
- 2" NOMINAL LUMBER OR TWO THICKNESSES OF 1" NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 0.719" WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 0.719" WOOD STRUCTURAL PANEL OR ONE THICKNESS OF 0.75" PARTICLEBOARD WITH JOINTS BACKED BY 0.75" PARTICLEBOARD.
  - GYPSON BOARD, CEMENT FIBER BOARD, BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIREBLOCK.
  - BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10' HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.
  - LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. THE INTEGRITY OF FIREBLOCKS SHALL BE MAINTAINED.

DRAFTSTOP REQUIREMENTS

(PER FBC04 SEC. 717.3-717.4)

- DRAFTSTOPPING IN FLOORS:
- DRAFTSTOPPING SHALL BE INSTALLED SO THAT HORIZONTAL FLOOR AREAS DO NOT EXCEED 1,000 SF. (DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.)
- DRAFTSTOPPING IN ATTICS:
- IN COMBUSTIBLE CONSTRUCTION DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SF (DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM).
  - OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.
- DRAFTSTOPPING MATERIALS:
- DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 0.5" GYPSUM BOARD, 0.375" WOOD STRUCTURAL PANEL, 0.375" PARTICLEBOARD OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED.
  - THE INTEGRITY OF DRAFTSTOPS SHALL BE MAINTAINED.

ACCESSIBLE RAMP REQUIREMENTS

(SLOPES GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP)

- MAX. SLOPE = 1:12
- MAX RISE FOR ANY RAMP = 30"
- MIN. CLEAR WIDTH = 44"
- MIN. CLEAR WIDTH = 44"
- MAX. CROSS SLOPE = 1:50
- LANDINGS: RAMPS MUST HAVE LEVEL LANDINGS AT TOP AND BOTTOM OF EACH RUN. ALL LANDINGS MUST BE AT LEAST AS WIDE AS THE RAMP, AND NOT LESS THAN 60" AT TOP & 72" AT BOTTOM OF STRAIGHT LEVEL CLEARANCE.
- IF RAMP CHANGES DIRECTION A MIN. LANDING OF 60" x 60" IS REQUIRED.
- HANDRAILS: IF RAMP RISE IS GREATER THAN 6" OR HORIZONTAL PROJECTION GREATER THAN 72" IT MUST HAVE CONTINUOUS HANDRAILS ON BOTH SIDES MOUNTED BETWEEN 34" - 38" ABOVE RAMP SURFACES.
- EDGE PROTECTION: RAMPS & LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROJECTED SURFACES.
- CURBS MUST BE A MIN. OF 2" HIGH.
- APPROACHES TO OUTDOOR RAMPS MUST NOT ACCUMULATE WATER

MEANS OF EGRESS ILLUMINATION REQUIREMENTS

(PER FBC04 SEC. 1006.1 - 1006.3.9)

ILLUMINATION OF MEANS OF EGRESS SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION FOR EVERY BUILDING AND STRUCTURE. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT ACCESS SHALL INCLUDE ONLY DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS AND PASSAGEWAYS LEADING TO AN EXIT. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT DISCHARGE SHALL INCLUDE ONLY DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS, WALKWAYS AND EXIT PASSAGEWAYS LEADING TO A PUBLIC WAY.

EXCEPTIONS:

1. WHEN APPROVED BY THE BUILDING OFFICIAL, ILLUMINATION OF MEANS OF EGRESS SHALL NOT BE REQUIRED IN INDUSTRIAL AND STORAGE OCCUPANCIES THAT ARE OCCUPIED ONLY DURING DAYLIGHT HOURS, WITH SKYLIGHTS OR WINDOWS ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION ON ALL PORTIONS OF THE MEANS OF EGRESS DURING THESE HOURS.
2. ASSEMBLY OCCUPANCY PRIVATE PARTY TENTS OF 1,000 SQUARE FEET (111 M2) OR LESS SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS.
3. OPEN STRUCTURES SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS.
4. TOWERS OCCUPIED BY NOT MORE THAN THREE PERSONS SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS.

ILLUMINATION OF MEANS OF EGRESS SHALL BE CONTINUOUS DURING THE TIME THAT THE CONDITIONS OF OCCUPANCY REQUIRE THAT THE MEANS OF EGRESS BE AVAILABLE FOR USE. ARTIFICIAL LIGHTING SHALL BE EMPLOYED AT SUCH PLACES AND FOR SUCH PERIODS OF TIME AS REQUIRED TO MAINTAIN THE ILLUMINATION TO THE MINIMUM CRITERIA VALUES HEREIN SPECIFIED.

EXCEPTIONS:

- AUTOMATIC MOTION SENSOR-TYPE LIGHTING SWITCHES SHALL BE PERMITTED WITHIN THE MEANS OF EGRESS, PROVIDED THAT SWITCH CONTROLLERS ARE EQUIPPED FOR FAIL-SAFE OPERATION. ILLUMINATION TIMERS ARE SET FOR A MINIMUM 15-MINUTE DURATION AND THE MOTION SENSOR IS ACTIVATED BY ANY OCCUPANT MOVEMENT IN THE AREA SERVED BY THE LIGHTING SYSTEM.

THE FLOORS AND OTHER WALKING SURFACES WITHIN AN EXIT AND WITHIN THE PORTIONS OF THE EXIT ACCESS AND EXIT DISCHARGE DESIGNATED IN SECTION 1006.1.1 SHALL BE ILLUMINATED TO VALUES OF AT LEAST 1 FOOTCANDLE (10 LUX) MEASURED AT THE FLOOR, DURING CONDITIONS OF STAIR USE. THE MINIMUM ILLUMINATION FOR NEW STAIRS SHALL BE AT LEAST 108 LUX (10 FOOT-CANDLE), MEASURED AT THE WALKING SURFACE.

EXCEPTION: IN ASSEMBLY OCCUPANCIES, THE ILLUMINATION OF THE FLOORS OF EXIT ACCESS SHALL BE AT LEAST 0.2 FOOTCANDLE (2 LUX) DURING PERIODS OF PERFORMANCES OR PROJECTIONS INVOLVING DIRECTED LIGHT.

REQUIRED ILLUMINATION SHALL BE ARRANGED SO THAT THE FAILURE OF ANY SINGLE LIGHTING UNIT WILL NOT RESULT IN AN ILLUMINATION LEVEL IN ANY DESIGNATED AREA OF LESS THAN 0.2 FOOTCANDLE (2 LUX).

THE EQUIPMENT OR UNITS INSTALLED TO MEET THE REQUIREMENTS OF SECTION 1006.3 SHALL BE PERMITTED ALSO TO SERVE THE FUNCTION OF ILLUMINATION OF MEANS OF EGRESS, PROVIDED THAT ALL REQUIREMENTS OF SECTION 1006.1 FOR SUCH ILLUMINATION ARE MET.

- SOURCES OF ILLUMINATION
- ILLUMINATION OF MEANS OF EGRESS SHALL BE FROM A SOURCE OF REASONABLY ENSURED RELIABILITY.
  - BATTERY-OPERATED ELECTRIC LIGHTS, SUCH AS PORTABLE LAMPS OR LANTERNS SHALL NOT BE USED FOR PRIMARY ILLUMINATION OF MEANS OF EGRESS. BATTERY-OPERATED ELECTRIC LIGHTS SHALL BE PERMITTED TO BE USED AS AN EMERGENCY SOURCE TO THE EXTENT PERMITTED UNDER SECTION 1006.2.3.4.
- EMERGENCY LIGHTING AND STANDBY POWER
- EMERGENCY LIGHTING FACILITIES FOR MEANS OF EGRESS SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION FOR THE FOLLOWING:
    1. EVERY BUILDING OR STRUCTURE WHERE REQUIRED IN THIS CODE SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 111.
    2. WINDOWLESS AND UNDERGROUND STRUCTURES.
    3. HIGH-RISE STRUCTURES.
    4. AT DOORS EQUIPPED WITH DELAYED EGRESS LOCKS.
  - THE STAIR SHAFT AND VESTIBULE OF SMOKEPROOF ENCLOSURES.
  - A STANDBY GENERATOR THAT IS INSTALLED FOR THE SMOKEPROOF ENCLOSURE MECHANICAL VENTILATION EQUIPMENT SHALL BE PERMITTED TO BE USED FOR SUCH STAIR SHAFT AND VESTIBULE POWER SUPPLY.
  - FOR THE PURPOSES OF THIS REQUIREMENT, EXIT ACCESS SHALL INCLUDE ONLY DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS AND PASSAGEWAYS LEADING TO AN EXIT. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT DISCHARGE SHALL INCLUDE ONLY DESIGNATED STAIRS, RAMPS, AISLES, WALKWAYS AND ESCALATORS LEADING TO A PUBLIC WAY.
- EXCEPTIONS:
1. TOWERS OCCUPIED BY THREE OR FEWER PERSONS SHALL BE EXEMPT FROM EMERGENCY LIGHTING REQUIREMENTS.
  2. LOCATIONS IN TOWERS NOT ROUTINELY INHABITED BY HUMANS SHALL BE EXEMPT FROM EMERGENCY LIGHTING REQUIREMENTS.
  3. WHEN APPROVED BY THE BUILDING OFFICIAL, ILLUMINATION OF MEANS OF EGRESS SHALL NOT BE REQUIRED IN TOWERS THAT ARE OCCUPIED ONLY DURING DAYLIGHT HOURS, WITH WINDOWS ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION ON ALL PORTIONS OF THE MEANS OF EGRESS DURING THESE HOURS.
  4. ASSEMBLY OCCUPANCY PRIVATE PARTY TENTS OF 1,000 SQUARE FEET (111 M2) OR LESS SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS DURING THESE HOURS.
  5. WHEN APPROVED BY THE BUILDING OFFICIAL, ILLUMINATION OF MEANS OF EGRESS SHALL NOT BE REQUIRED IN WATER-SURROUNDED STRUCTURES THAT ARE OCCUPIED ONLY DURING DAYLIGHT HOURS, WITH WINDOWS ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION ON ALL PORTIONS OF THE MEANS OF EGRESS DURING THESE HOURS.

WHERE MAINTENANCE OF ILLUMINATION DEPENDS UPON CHANGING FROM ONE ENERGY SOURCE TO ANOTHER, A DELAY OF NOT MORE THAN 10 SECONDS SHALL BE PERMITTED.

PERFORMANCE OF SYSTEM

- EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF HOURS 1 1/4 IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION AT ALL PORTIONS OF THE MEANS OF EGRESS AT A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.05 FOOTCANDLE (0.5 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM TO MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.
- THE EMERGENCY LIGHTING SYSTEM SHALL BE ARRANGED TO PROVIDE THE REQUIRED ILLUMINATION AUTOMATICALLY IN THE EVENT OF AN INTERRUPTION OF NORMAL LIGHTING, SUCH AS ANY FAILURE OF PUBLIC UTILITY OR OTHER OUTSIDE ELECTRICAL POWER SUPPLY; OPENING OF A CIRCUIT BREAKER OR FUSE OR ANY MANUAL ACTION(S), INCLUDING ACCIDENTAL OPENING OF A SWITCH CONTROLLING NORMAL LIGHTING FACILITIES.
- EMERGENCY GENERATORS PROVIDING POWER TO EMERGENCY LIGHTING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 110.
- STORED ELECTRICAL ENERGY SYSTEMS WHERE REQUIRED IN THIS CODE SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 111.
- BATTERY-OPERATED EMERGENCY LIGHTS SHALL USE ONLY RELIABLE TYPES OF RECHARGEABLE BATTERIES PROVIDED WITH SUITABLE FACILITIES FOR MAINTAINING THEM IN A PROPERLY CHARGED CONDITION. BATTERIES USED IN SUCH LIGHTS OR UNITS SHALL BE APPROVED FOR THEIR INTENDED USE AND SHALL COMPLY WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE, BUILDING.
- THE EMERGENCY LIGHTING SYSTEM SHALL BE EITHER CONTINUOUSLY IN OPERATION OR SHALL BE CAPABLE OF REPEATED AUTOMATIC OPERATION WITHOUT MANUAL INTERVENTION.

STANDBY POWER

HIGH-RISE BUILDINGS SHALL BE PROVIDED WITH CLASS 1, TYPE 60 STANDBY POWER IN ACCORDANCE WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE, BUILDING AND NFPA 110. THE STANDBY POWER SYSTEM SHALL HAVE A CAPACITY AND RATING SUFFICIENT TO SUPPLY ALL REQUIRED EQUIPMENT. SELECTED EQUIPMENT SHALL BE PERMITTED IN ACCORDANCE WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE, BUILDING. THE STANDBY POWER SYSTEM SHALL BE CONNECTED TO THE FOLLOWING:

1. EMERGENCY LIGHTING SYSTEM
2. AT LEAST ONE ELEVATOR SERVING ALL FLOORS AND TRANSFERABLE TO ANY ELEVATOR.
3. MECHANICAL EQUIPMENT FOR SMOKEPROOF ENCLOSURES.

(SEE SECTION 405 FOR ADDITIONAL REQUIREMENTS FOR STANDBY POWER IN HIGH-RISE STRUCTURES.)

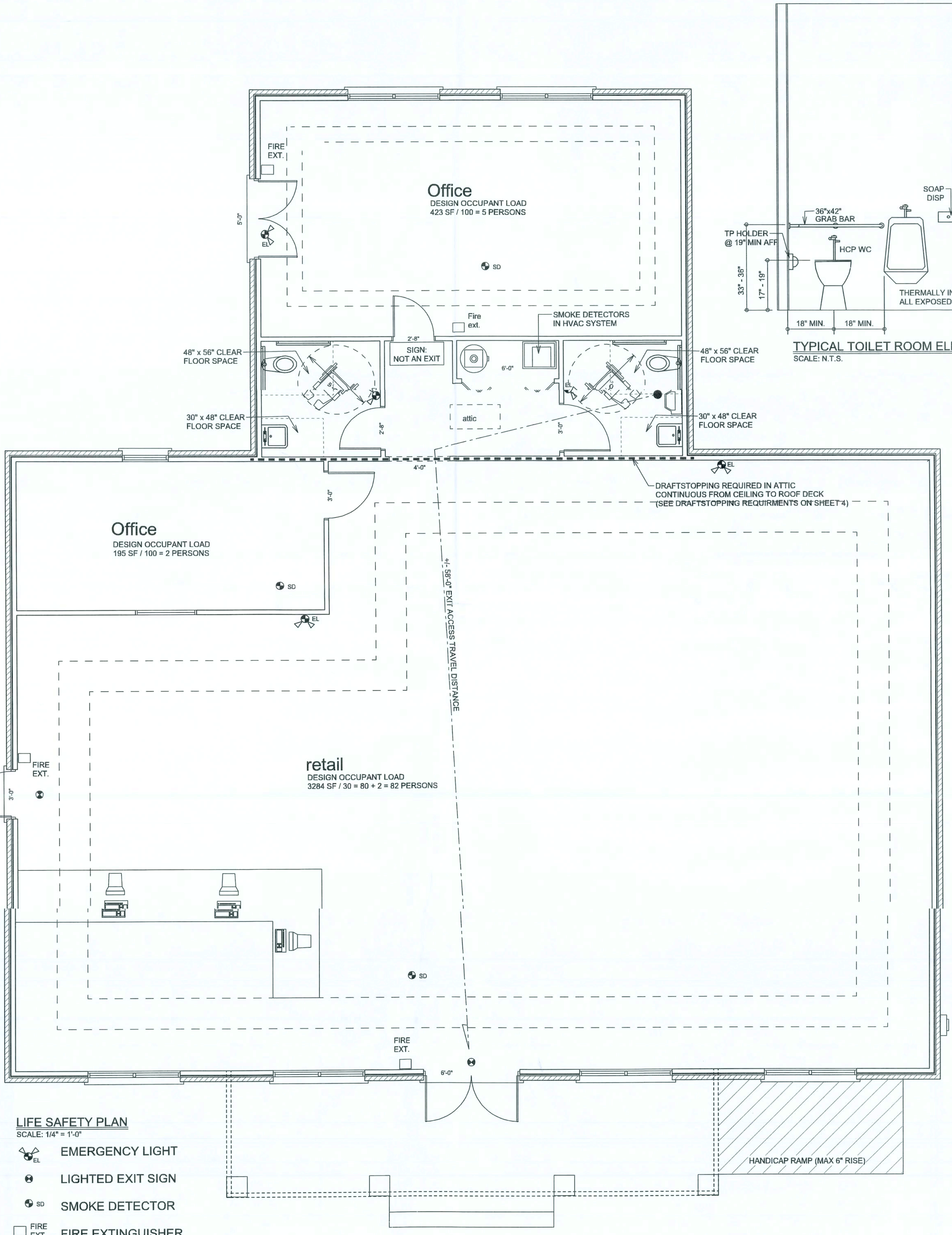
EXIT SIGNS

- EXITS SHALL BE MARKED BY AN APPROVED SIGN READILY VISIBLE FROM ANY DIRECTION OF EXIT ACCESS. EVERY EXIT SIGN SHALL BE SUITABLY ILLUMINATED BY A RELIABLE LIGHT SOURCE. EXTERNALLY AND INTERNALLY ILLUMINATED SIGNS SHALL BE VISIBLE IN BOTH NORMAL AND EMERGENCY LIGHTING CONDITIONS.
- EXCEPTION: MAIN EXTERIOR EXIT DOORS THAT OBVIOUSLY AND CLEARLY ARE IDENTIFIABLE AS EXITS.
- NEW SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS IN EXCESS OF THE RATED VIEWING DISTANCE OR 100 FEET (30 M) WHICHEVER IS LESS, FROM THE NEAREST SIGN.
- EVERY REQUIRED SIGN SHALL BE LOCATED AND OF SUCH SIZE, DISTINCTIVE COLOR AND DESIGN AS TO BE READILY VISIBLE AND SHALL PROVIDE CONTRAST WITH INTERIOR FINISH OR OTHER SIGNS. NO EQUIPMENT THAT IMPAIRS VISIBILITY OF AN EXIT SIGN SHALL BE PERMITTED, NOR SHALL THERE BE ANY BRIGHTLY ILLUMINATED SIGN OR OBJECT IN OR NEAR THE LINE OF VISION OF THE REQUIRED EXIT SIGN OF SUCH A CHARACTER AS TO DETRACT ATTENTION FROM THE EXIT SIGN. FLOOR PROXIMITY SIGNS, WHERE REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 1006.3.8.2 OR 1006.3.8.3.
- EXIT STAIR DOOR OR TACTILE SIGNAGE.
- TACTILE SIGNAGE STATING "EXIT" AND COMPLYING WITH ICCANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SHALL BE INSTALLED ADJACENT TO THE LATCH SIDE OF THE DOOR 80 INCHES (1524 MM) ABOVE THE FINISHED FLOOR TO THE CENTER LINE OF THE SIGN.
- EXTERNALLY ILLUMINATED SIGNS SHALL HAVE THE WORD "EXIT" OR OTHER APPROPRIATE WORDING IN PLAINLY LEGIBLE LETTERS NOT LESS THAN 6 INCHES (152 MM) HIGH WITH THE PRINCIPAL STROKES OF LETTERS NOT LESS THAN 1/4 INCHES (1.9 MM) WIDE. THE WORD "EXIT" SHALL HAVE LETTERS OF A WIDTH NOT LESS THAN 2 INCHES (51 MM), EXCEPT THE LETTER "I" AND THE MINIMUM SPACING BETWEEN LETTERS SHALL BE NOT LESS THAN 3/8 INCHES (10 MM). SIGNS LARGER THAN THE MINIMUM ESTABLISHED IN THIS PARAGRAPH SHALL HAVE LETTER WIDTHS, STROKES AND SPACING IN PROPORTION TO THEIR HEIGHT. EXTERNALLY ILLUMINATED SIGNS SHALL BE ILLUMINATED BY NOT LESS THAN 5 FOOTCANDLES (50 LUX) AT THE ILLUMINATED SURFACE AND SHALL HAVE A CONTRAST RATIO OF NOT LESS THAN 0.5.

- EXCEPTIONS:
1. MARKING REQUIRED BY SECTION 1006.5.3.
  2. GROUP R3 AND GROUP R4 (SMALL FACILITY) OCCUPANCIES.
- INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED IN ACCORDANCE WITH UL 924, STANDARD FOR SAFETY EMERGENCY LIGHTING POWER EQUIPMENT. THE VISIBILITY OF AN INTERNALLY ILLUMINATED SIGN SHALL BE THE EQUIVALENT OF AN EXTERNALLY ILLUMINATED SIGN THAT COMPLEYS WITH SECTION 1006.3.5.
- EXCEPTIONS:
1. MARKING REQUIRED BY SECTION 1006.5.3.
  2. SIGNS IN COMPLIANCE WITH SECTIONS 1006.3.4 AND 1006.3.8.2.
- WHERE EMERGENCY LIGHTING FACILITIES ARE REQUIRED BY SECTION 1006.2, THE EXIT SIGNS SHALL BE ILLUMINATED BY THE EMERGENCY LIGHTING FACILITIES. THE LEVEL OF ILLUMINATION OF THE EXIT SIGN SHALL BE AT THE LEVELS PROVIDED IN ACCORDANCE WITH SECTION 1006.3.5 FOR THE REQUIRED EMERGENCY LIGHTING TIME DURATION AS SPECIFIED IN SECTION 1006.2.3.1, BUT SHALL BE PERMITTED TO DECLINE TO 60 PERCENT OF THE ILLUMINATION LEVEL AT THE END OF THE EMERGENCY LIGHTING TIME DURATION.
  - WHERE THE DIRECTION OF TRAVEL TO REACH THE NEAREST EXIT IS NOT APPARENT, A DIRECTIONAL SIGN COMPLYING WITH SECTIONS 1006.3.5 OR 1006.3.8, READING "EXIT" OR A SIMILAR DESIGNATION WITH A DIRECTIONAL INDICATOR SHOWING THE DIRECTION OF TRAVEL SHALL BE PLACED IN EVERY LOCATION. DIRECTIONAL SIGNS SHALL BE LISTED.
  - THE DIRECTIONAL INDICATOR SHALL BE LOCATED OUTSIDE OF THE "EXIT" LEGEND, NOT LESS THAN 3/8 INCHES (10 MM) FROM ANY LETTER.
  - THE DIRECTIONAL INDICATOR SHALL BE LOCATED OUTSIDE OF THE "EXIT" LEGEND, NOT LESS THAN 3/8 INCHES (10 MM) FROM ANY LETTER.
  - THE DIRECTIONAL INDICATOR SHALL BE OF A CHEVRON TYPE AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM DISTANCE OF 40 FEET (12.2 M). A DIRECTIONAL INDICATOR LARGER THAN THE MINIMUM ESTABLISHED IN THIS SECTION SHALL BE PROPORTIONATELY INCREASED IN HEIGHT, WIDTH AND STROKE. THE DIRECTIONAL INDICATORS SHALL BE LOCATED AT THE END OF THE SIGN FOR THE DIRECTION INDICATED.
  - WHERE FLOOR PROXIMITY EXIT SIGNS ARE REQUIRED, EXIT SIGNS SHALL BE PLACED NEAR THE FLOOR LEVEL. IN ADDITION TO THOSE SIGNS REQUIRED FOR DOORS OR CORRIDORS, THESE SIGNS SHALL BE ILLUMINATED IN ACCORDANCE WITH SECTION 1006.3.5. EXTERNALLY ILLUMINATED SIGNS SHALL BE SIZED IN ACCORDANCE WITH SECTION 1006.3.5. THE BOTTOM OF THE SIGN SHALL BE AT LEAST 6 INCHES (152 MM) AND NO MORE THAN 8 INCHES (203 MM) ABOVE THE FLOOR. FOR EXIT DOORS, THE SIGN SHALL BE MOUNTED ON THE DOOR OR ADJACENT TO THE DOOR WITH THE NEAREST EDGE OF THE SIGN WITHIN 4 INCHES (102 MM) OF THE DOOR FRAME.
  - WHERE FLOOR PROXIMITY EGRESS PATH MARKINGS IS REQUIRED, A LISTED AND APPROVED FLOOR PROXIMITY EGRESS PATH MARKING SYSTEM THAT IS INTERNALLY ILLUMINATED SHALL BE INSTALLED WITHIN 18 INCHES (457 MM) OF THE FLOOR. THE SYSTEM SHALL PROVIDE A VISIBLE DELINEATION OF THE PATH OF TRAVEL ALONG THE DESIGNATED EXIT ACCESS AND SHALL BE ESSENTIALLY CONTINUOUS, EXCEPT AS INTERRUPTED BY DOORWAYS, HALLWAYS, CORRIDORS OR OTHER SUCH ARCHITECTURAL FEATURES. THE SYSTEM SHALL OPERATE CONTINUOUSLY OR AT THE FIRST ALARM SYSTEM IS ACTIVATED. THE ACTIVATION, DURATION AND CONTINUITY OF OPERATION OF THE SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 1006.2.
  - SIGNS INSTALLED AS PROJECTIONS FROM A WALL OR CEILING WITHIN THE MEANS OF EGRESS SHALL PROVIDE VERTICAL CLEARANCE NO LESS THAN 80 INCHES (2134 MM) FROM THE WALKING SURFACE.

LIFE SAFETY NOTE:

It is contractor / owner's responsibility to request life safety review by the fire marshal. All life safety requirements are to be as specified by the fire marshal. Emergency lighting and exit signs shall be provided as directed by the fire marshal and shall be wired per nec 700-12f. Emergency lighting and exit sign locations shown on the plans are suggestions only.



- LIFE SAFETY PLAN**  
SCALE: 1/4" = 1'-0"
- EMERGENCY LIGHT
  - LIGHTED EXIT SIGN
  - SMOKE DETECTOR
  - FIRE EXTINGUISHER

ENGINEER OF RECORD: Mark Disoway,  
P.E. No. 53915, PCB 868, Lake City, FL  
32025, 386-754-5419

DIMENSIONS:  
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.

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LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities control.

MARK DISOWAY  
P.E. 53915

*Mark Disoway*  
26 FEB 08

SEAL

**WIND TECH CONTRACTING CORP.**

**CHUCK & JODI WOOD PROPERTY**

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PRINTED DATE:  
February 26, 2008

DRAWN BY:  
Evan Beamley

CHECKED BY:

FINALES DATE:  
Jan. 28, 2008

**JOB NUMBER:**  
710186

DRAWING NUMBER

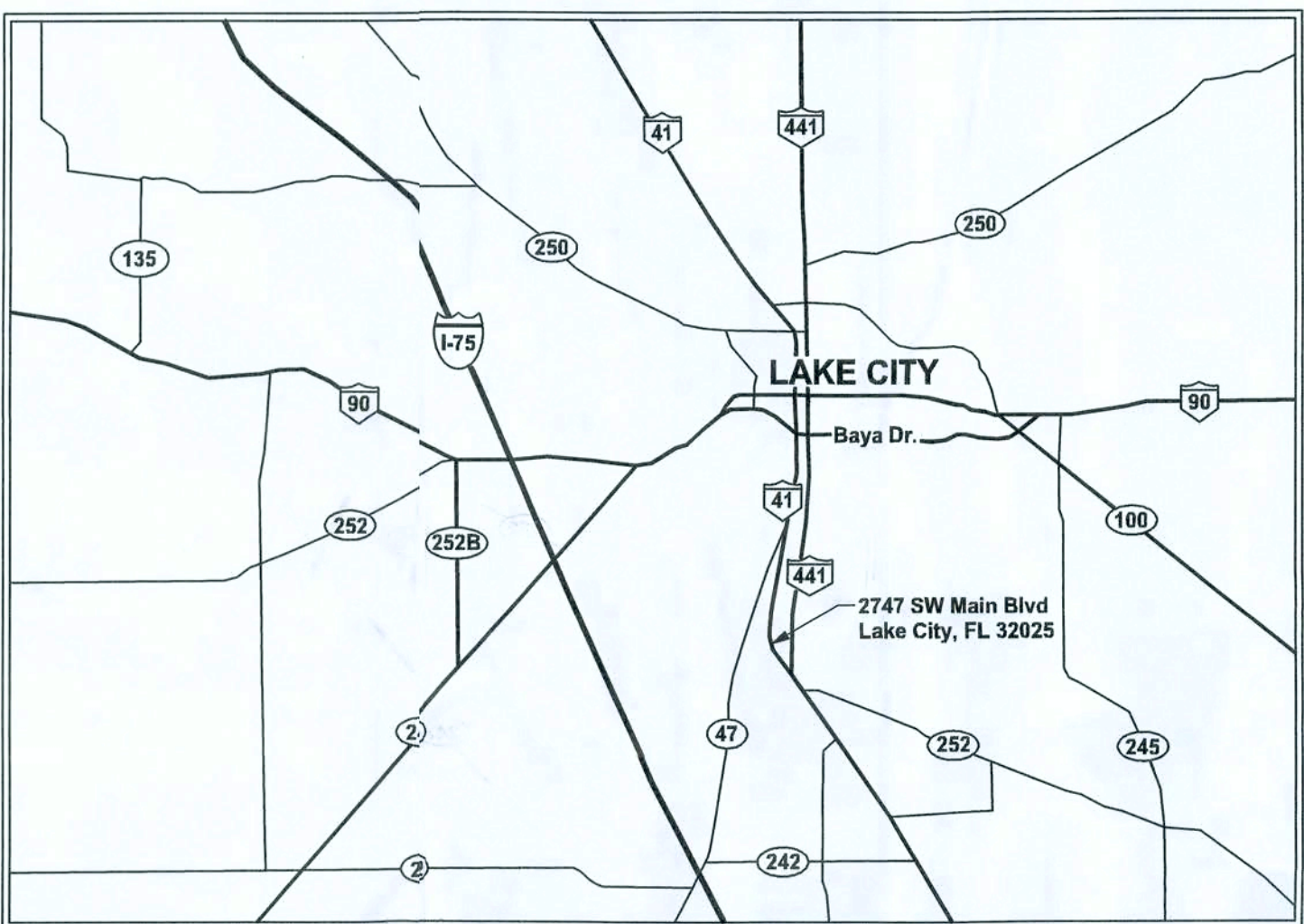
**4**  
OF 11 SHEETS



# CHUCK & JODI WOOD PROPERTY

## WIND TECH CONTRACTING CORP.

2747 SW Main Blvd, Lake City, FL 32025



PROJECT LOCATION MAP  
SCALE: N.T.S.

### INDEX TO SHEETS

SHEET 0	COVERSHEET, LOCATION MAP LIST OF DELEGATIONS, SHEET INDEX BUILDING DESIGN DATA & SPECIFICATIONS
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SHEET 2	EXTERIOR ELEVATIONS
SHEET 3	FLOOR PLAN
SHEET 4	LIFE SAFETY / ACCESSIBILITY PLAN
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SHEET 6	PLUMBING PLAN
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SHEET S-1	WIND LOAD ENGINEERING
SHEET S-2	FOUNDATION PLAN
SHEET S-3	STRUCTURAL PLAN

### REQUIREMENTS FOR INTERIOR WALL & CEILING FINISHES

INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEX.

CLASS A:  
FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.

CLASS B:  
FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.

CLASS C:  
FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

#### REQUIREMENTS BY OCCUPANCY (UNSPRINKLERED) PER FBC 2004, TABLE 803.5

GROUP	VERTICAL EXITS AND EXIT PASSAGEWAYS (SEE NOTES 1 & 2)	EXIT ACCESS CORRIDORS AND OTHER EXITWAYS	ROOMS AND ENCLOSED SPACES (SEE NOTE 3)
M	CLASS A	CLASS B	CLASS C

#### TABLE NOTES:

1. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED FOR WAINSCOTTING OR PANELING OF NOT MORE THAN 1,000 SQUARE FEET OF APPLIED SURFACE AREA IN THE GRADE LOBBY WHERE APPLIED DIRECTLY TO A NONCOMBUSTIBLE BASE OR OVER FURRING STRIPS APPLIED TO A NONCOMBUSTIBLE BASE AND FIREBLOCKED AS REQUIRED BY FBC04, SECTION 803.3.1.

2. IN VERTICAL EXITS OF BUILDINGS LESS THAN THREE STORIES IN HEIGHT OF OTHER THAN GROUP I-3, CLASS B INTERIOR FINISH FOR UNSPRINKLERED BUILDINGS AND CLASS C INTERIOR FINISH FOR SPRINKLERED BUILDINGS SHALL BE PERMITTED.

3. REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES SHALL BE BASED UPON SPACES ENCLOSED BY PARTITIONS, WHERE A FIRE-RESISTANCE RATING IS REQUIRED FOR STRUCTURAL ELEMENTS, THE ENCLOSING PARTITIONS SHALL EXTEND FROM THE FLOOR TO THE CEILING. PARTITIONS THAT DO NOT COMPLY WITH THIS SHALL BE CONSIDERED ENCLOSING SPACES AND THE ROOMS OR SPACES ON BOTH SIDES SHALL BE CONSIDERED ONE. IN DETERMINING THE APPLICABLE REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES, THE SPECIFIC OCCUPANCY THEREOF SHALL BE THE GOVERNING FACTOR REGARDLESS OF THE GROUP CLASSIFICATION OF THE BUILDING OR STRUCTURE.

4. CLASS B MATERIAL REQUIRED WHERE BUILDING EXCEEDS TWO STORIES.

5. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED IN ROOMS WITH A CAPACITY OF FOUR PERSONS OR LESS.

6. CLASS B MATERIALS SHALL BE PERMITTED AS WAINSCOTTING EXTENDING NOT MORE THAN 48 INCHES ABOVE THE FINISHED FLOOR IN EXIT ACCESS CORRIDORS.

### REQUIREMENTS FOR INTERIOR FLOOR FINISHES

INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH THE FOLLOWING EXCEPT FOR FLOORS AND FLOOR COVERINGS OF A TRADITIONAL TYPE, SUCH AS WOOD, VINYL, LINOLEUM OR TERRAZO, AND RESILIENT FLOOR COVERING MATERIALS WHICH ARE NOT COMPRISED OF FIBERS.

INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS REQUIRED BY FBC04, SECTION 804.5.1 TO BE (CLASS I) OR II MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH NFPA 253. THE CLASSIFICATION REFERRED TO HEREIN CORRESPONDS TO THE CLASSIFICATIONS DETERMINED BY NFPA 253 AS FOLLOWS: CLASS I, 0.45 WATTS/CM<sup>2</sup> OR GREATER; CLASS II, 0.22 WATTS/CM<sup>2</sup> OR GREATER.

IN ALL OCCUPANCIES, INTERIOR FLOOR FINISH IN VERTICAL EXITS, EXIT PASSAGEWAYS, EXIT ACCESS CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM EXIT ACCESS CORRIDORS BY FULL-HEIGHT PARTITIONS EXTENDING FROM THE FLOOR TO THE UNDERSIDE OF THE CEILING SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX AS FOLLOWS:

INTERIOR FLOOR FINISH IN VERTICAL EXITS, EXIT PASSAGEWAYS AND EXIT ACCESS CORRIDORS SHALL NOT BE LESS THAN CLASS I IN GROUPS I-2 AND I-3 AND NOT LESS THAN CLASS II IN GROUPS A, B, E, H, I-4, M, R-1, R-2 AND S. IN ALL OTHER AREAS, THE INTERIOR FLOOR FINISH SHALL COMPLY WITH THE DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630).

### LIST OF APPLICABLE CODES

2004 FLORIDA BUILDING CODE, BUILDING (INCLUDING 2006 REVISIONS)

NFPA 70, NATIONAL ELECTRICAL CODE, EXCEPT ARTICLE 80

2004 FLORIDA BUILDING CODE, FUEL GAS

2004 FLORIDA BUILDING CODE, MECHANICAL

2004 FLORIDA BUILDING CODE, PLUMBING

2004 FLORIDA FIRE PREVENTION CODE

2004 FLORIDA ENERGY EFFICIENCY CODE

2004 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION

### LIST OF DELEGATIONS

ELECTRICAL SYSTEM DESIGN:  
TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR

PLUMBING SYSTEM DESIGN:  
TO BE FURNISHED BY THE PLUMBING CONTRACTOR

FIRE SPRINKLER SYSTEM DESIGN:  
NOT APPLICABLE

HVAC SYSTEM DESIGN:  
TO BE FURNISHED BY THE HVAC CONTRACTOR

SPECIALIZED SYSTEMS:  
NOT APPLICABLE

LIFE SAFETY REVIEW:  
IT IS THE CONTRACTOR / OWNER'S RESPONSIBILITY TO REQUEST A LIFE SAFETY REVIEW BY THE FIRE MARSHAL. LIFE SAFETY PLAN IS SUGGESTION ONLY. ACTUAL REQUIREMENTS TO BE DETERMINED BY FIRE MARSHAL BEFORE ORDERING ANY MATERIALS OR STARTING CONSTRUCTION.

ENERGY EFFICIENCY CALCULATION:  
TO BE FURNISHED BY THE HVAC CONTRACTOR, SIGNED AND SEALED BY: ARCHITECT, ENGINEER, AIR CONDITIONING OR MECHANICAL CONTRACTOR, OR CERTIFIED COMMERCIAL ENERGY RATER.

TRUSS ROOF SYSTEM:  
TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBC 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY TO VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO THE ENGINEER OF RECORD FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE.

NOTE: IT IS THE RESPONSIBILITY OF THE BUILDING DEPARTMENT AND BUILDER TO MAKE SURE DELEGATED PLANS ARE COMPLETED AND APPROVED BY THE ENGINEER OF RECORD, THE OWNER, AND THE BUILDING OFFICIAL. PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.  
ENGINEER OF RECORD DOES NOT HAVE CONSTRUCTION MANAGEMENT AUTHORITY.

### BUILDING DESIGN DATA

#### 1. SITE REQUIREMENTS:

- THIS BUILDING PLAN DOES NOT INCLUDE SITE PLAN.  
CIVIL ENGINEERING PROVIDED BY:  
GTC DESIGN GROUP, BRETT CREWS - PE 65592  
PO BOX 187, LIVE OAK, FL 32064, JOB # PF06-198

#### 2. OCCUPANCY GROUP REQUIREMENTS:

- BUILDING GROUP: M, MERCANTILE OCCUPANCY

#### 3. MINIMUM TYPE OF CONSTRUCTION:

- TYPE OF CONSTRUCTION:  
TYPE V-B UNPROTECTED UNSPRINKLERED  
(TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY MATERIALS PERMITTED BY FBC 2004)  
- MAXIMUM HEIGHT & AREA PER TABLE 503: 1 STORY / 9000 FT<sup>2</sup>  
- PROPOSED HEIGHT: 1 STORY  
- PROPOSED BUILDING AREA:  
OCCUPIED AREA, TYPE M: 3072 SF  
COVERED ENTRY AREA: 256 SF  
TOTAL AREA UNDER ROOF: 3328 SF

#### 4. FIRE RESISTANT CONSTRUCTION REQUIREMENTS:

- RATING REQUIREMENTS FOR BUILDING ELEMENTS (PER TABLE 601)

TYPE V-B CONSTRUCTION:	
STRUCTURAL FRAME (INCLUDING: COLUMNS, GIRDERS, TRUSSES)	0 HR.
BEARING WALLS - EXTERIOR	0 HR.
BEARING WALLS - INTERIOR	0 HR.
NON-BEARING WALLS - EXTERIOR	0 HR.
NON-BEARING WALLS - INTERIOR	0 HR.
FLOOR CONSTRUCTION (INCLUDING: SUPPORTING BEAM & JOISTS)	0 HR.
ROOF CONSTRUCTION (INCLUDING: SUPPORTING BEAM & JOISTS)	0 HR.

- OPENING PROTECTION = 0 HR (> 30' SEPARATION DISTANCE)

#### 5. FIRE SUPPRESSION SYSTEM:

- NONE

#### 6. LIFE SAFETY SYSTEMS:

- SHEET 4

#### 7. OCCUPANCY LOAD / EGRESS REQUIREMENTS:

- OCCUPANCY LOAD PER TABLE 1004.1.2 = 87 PERSONS  
(SEE LIFE SAFETY PLAN FOR CALCULATIONS)  
- EXIT CAPACITY (BASED ON TABLE 1005.1)  
TOTAL EXIT WIDTH 84" / 2" = 420 PERSONS > 87 PERSONS  
- MINIMUM NUMBER OF EXITS (PER TABLE 1018.1)  
REQUIRED = 2 PROVIDED = 3  
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE (PER TABLE 1015.1)  
ALLOWABLE = 150' ACTUAL = 58'

#### 8. STRUCTURAL REQUIREMENTS:

- ASSUMED SOIL BEARING CAPACITY = 1000PSF  
IT IS THE BUILDERS RESPONSIBILITY TO PROVIDE SOIL BEARING TESTS FOR REVIEW BY THE ENGINEER OF RECORD, AND BUILDING OFFICIAL PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.

#### - DESIGN LOADS:

FLOOR: 100 PSF UNIFORM LOAD, & 1000 LB CONCENTRATED LOAD  
ROOF: 20 PSF UNIFORM LOAD

- WIND LOADS PER FLORIDA BUILDING CODE 2004, SECTION 1609:

[ENCLOSED SAMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS. MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT. NOT ON UPPER HALF OF HILL OR ESCARPMENT 60 FT IN EXP. B, 30 FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50+ FEET OR 1 MILE WHICHEVER IS LESS.]	
BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE	
BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION	
1.) BASIC WIND SPEED = 110 MPH	
2.) WIND EXPOSURE = B	
3.) WIND IMPORTANCE FACTOR = 1.0	
4.) BUILDING CATEGORY = II	
5.) ROOF ANGLE = 10-45 DEGREES	
6.) MEAN ROOF HEIGHT = <30 FT	
7.) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)	
8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE 1609.6B)	

Zone	Effective Wind Area (ft <sup>2</sup> )	
	10	100
1	19.9	-21.8
2	19.9	-25.5
2 Other		-40.6
3	19.9	-25.5
3 Other		-42.4
4	21.8	-23.6
5	21.8	-29.1
Doors & Windows (Zone 5, 10 ft <sup>2</sup> )	21.8	-29.1

#### 9. MATERIALS AND FINISHES

- THIS PLAN DOES NOT INCLUDE DETAILED FINISH SPECS. IT IS THE BUILDERS RESPONSIBILITY TO VERIFY THAT ALL MATERIALS AND FINISHES USED COMPLY WITH THE FBC 2004  
- THE BUILDERS IS TO PROVIDE A LIST OF FLORIDA PRODUCT APPROVALS FOR ALL EXTERIOR FINISHES, FOR REVIEW BY THE ENGINEER OF RECORD, AND BUILDING OFFICIAL PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.

#### - TYPICAL ROOM FINISHES:

	CEILING	FLOOR	WALLS
OFFICE #1	1/2" DRYWALL	COMMERCIAL CARPET	1/2" DRYWALL WOOD WAINSCOTING
OFFICE #2	SUSPENDED CLG.	FINISHED CONCRETE	1/2" DRYWALL WOOD WAINSCOTING
RETAIL	SUSPENDED CLG.	FINISHED CONCRETE	1/2" DRYWALL WOOD WAINSCOTING
RESTROOMS	1/2" DRYWALL	FINISHED CONCRETE	1/2" DRYWALL WOOD WAINSCOTING

#### 10. ACCESSIBILITY REQUIREMENTS:

- SHEET 4

#### 11. INTERIOR FINISH REQUIREMENTS:

- SHEET 0

#### 12. SPECIAL SYSTEMS:

- NONE

#### 13. SWIMMING POOLS:

- NONE

### REVISIONS


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ENGINEER OF RECORD: Mark Dismway,  
PE No. 53915, POB 88, Lake City, FL  
32086, 386-754-5419

DIMENSIONS:  
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Dismway, P.E. or resolution. Do not proceed without clarification.

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LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities control.

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P.E. 53915

*Mark Dismway*  
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#### PRINTED DATE:

January 28, 2008

DRAWN BY: Evan Beamsley

CHECKED BY:

#### FINALES DATE:

Jan. 28, 2008

#### JOB NUMBER:

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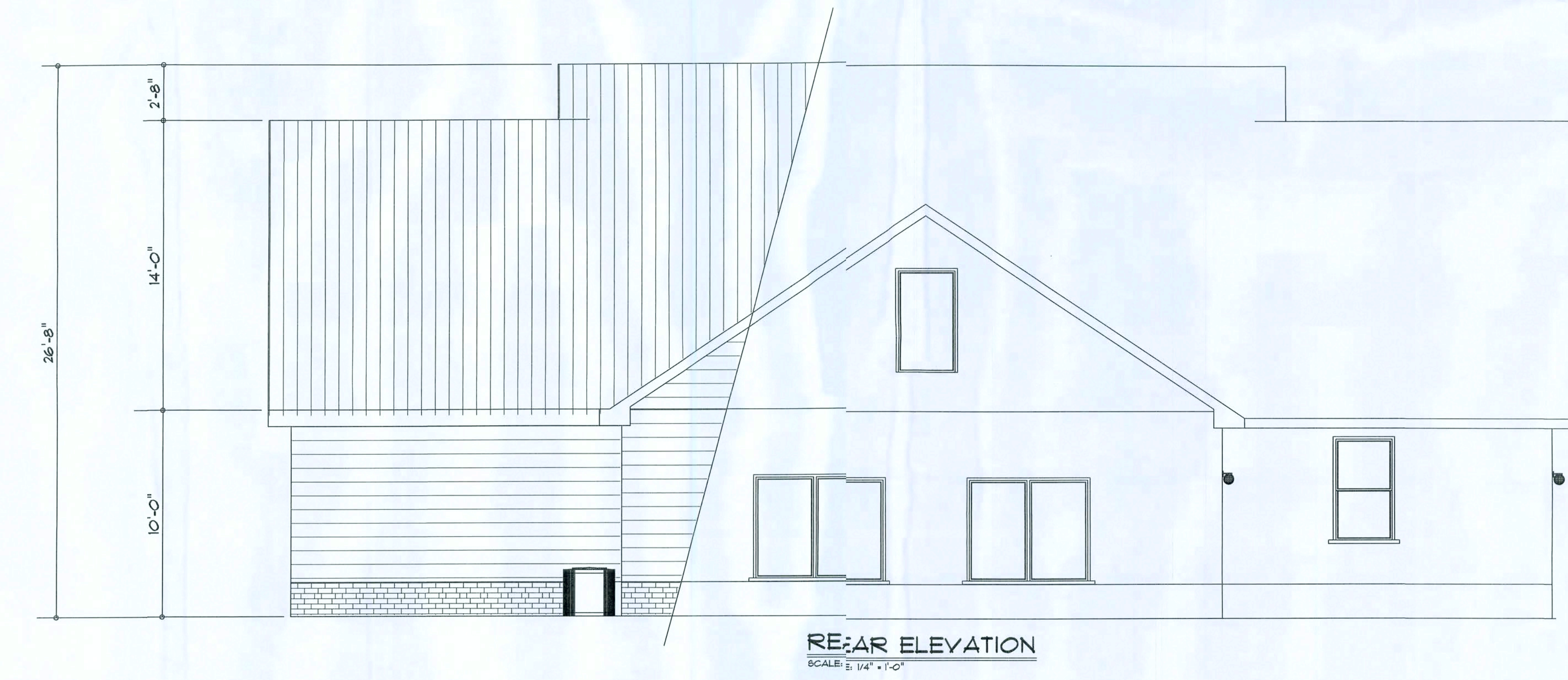
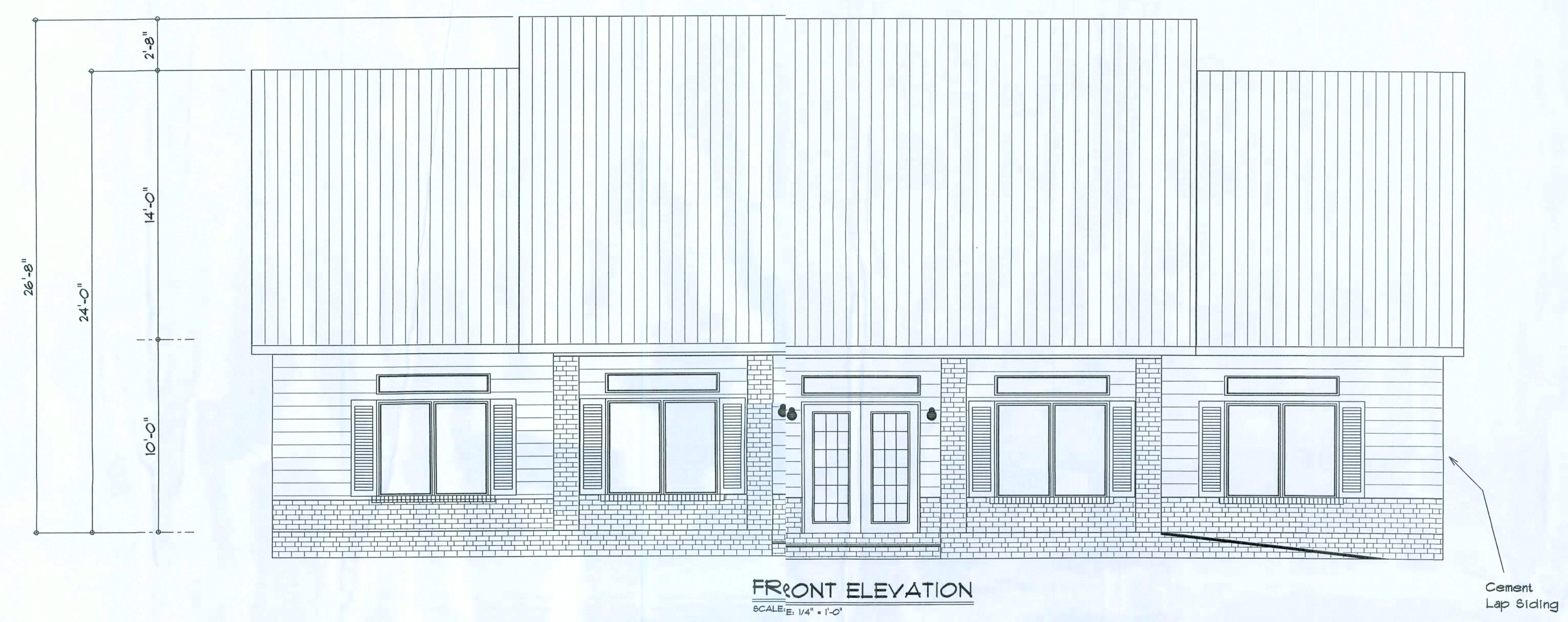
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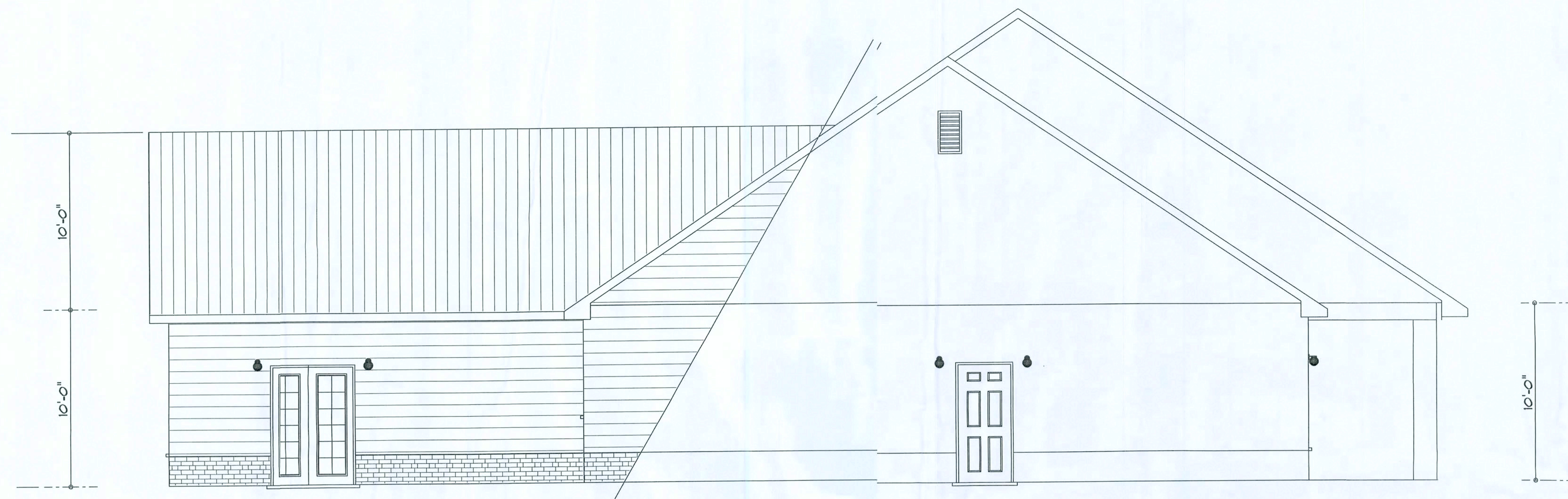
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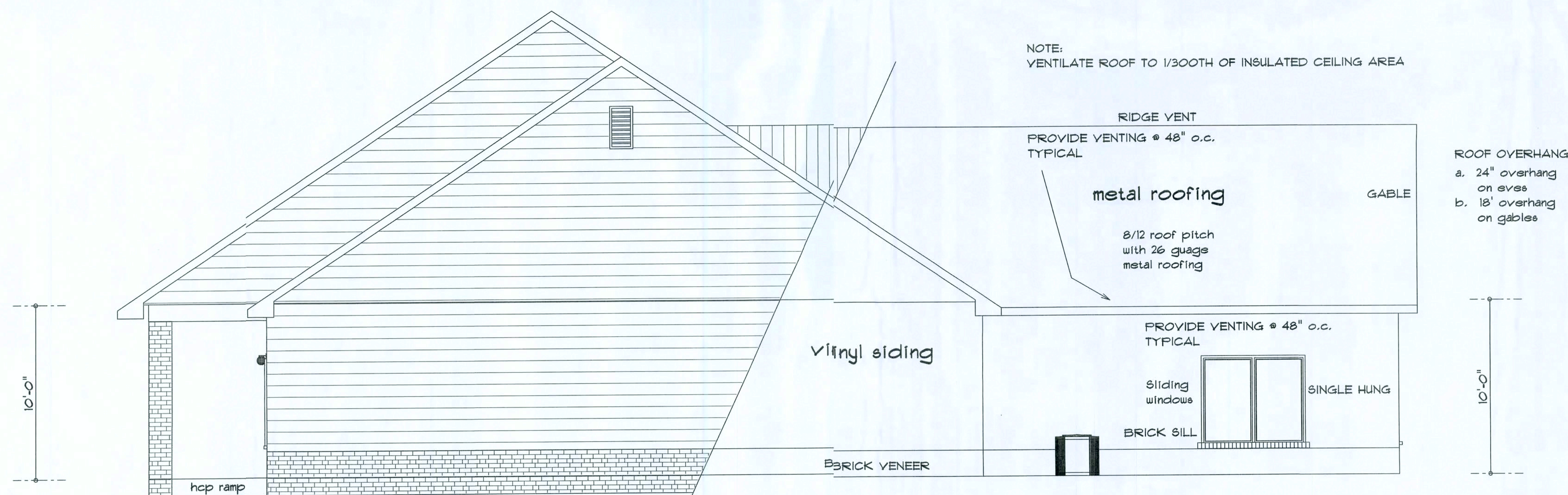
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LEFT ELEVATION

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



RIGHT ELEVATION

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

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structural requirements, scope of work, and  
builder responsibility control.

MARK DISCOSWAY  
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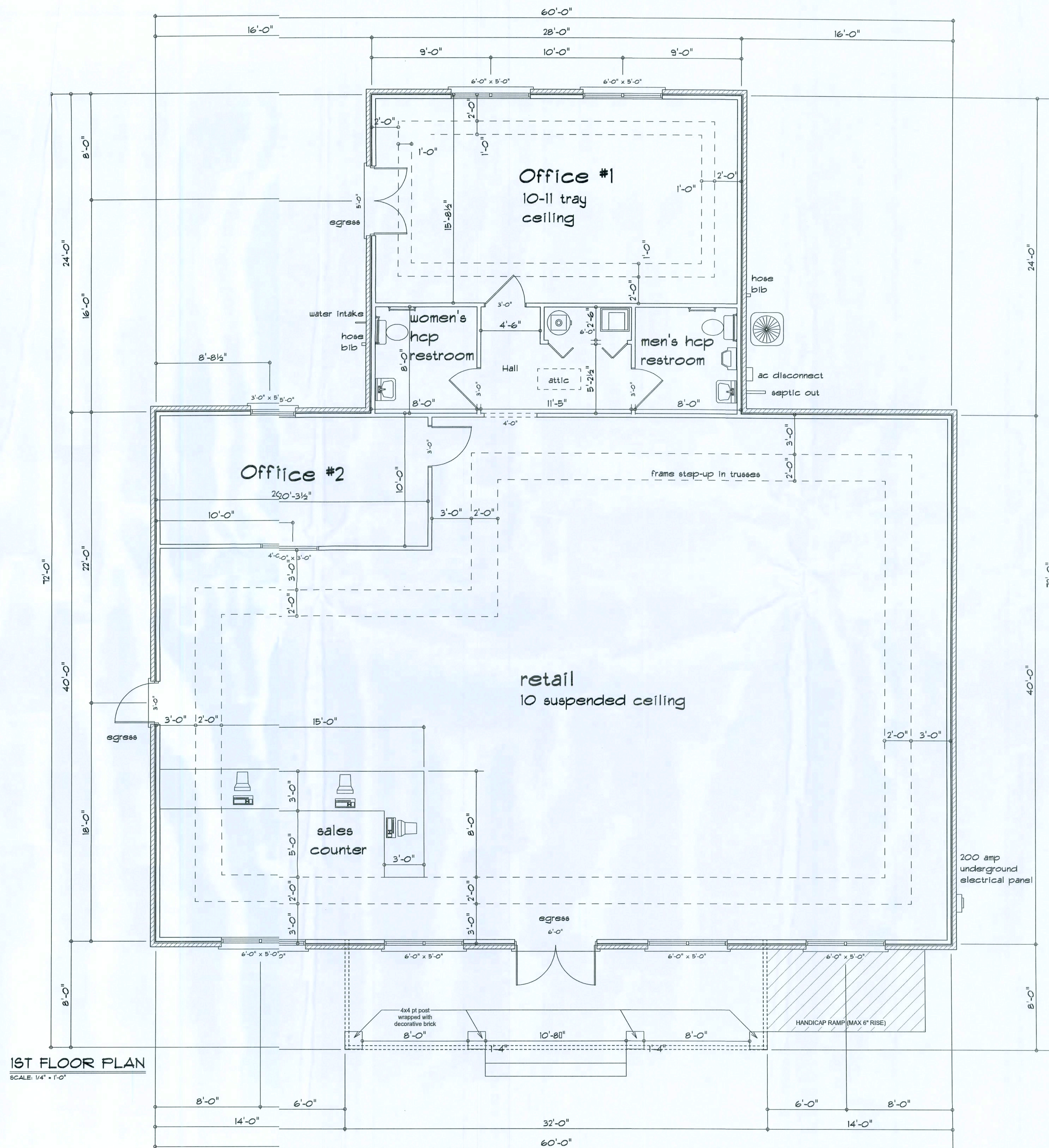
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1ST FLOOR PLAN  
SCALE: 1/4" = 1'-0"

## AREA SUMMAR'

MERCANTILE AREA	3072	S. F.
COVERED ENTRY AREA	256	S. F.
TOTAL AREA	3328	S. F.

ENGINEER OF RECORD: Mark Dsoosway  
PE No. 53915, POB968, Lake City, FL  
32055, 386-754-549

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builder responsibilities control.

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## DRAFTSTOP REQUIREMENTS

(PER FBC04 SEC. 717.3-717.4)

DRAFTSTOPPING IN FLOORS:  
DRAFTSTOPPING SHALL BE INSTALLED SO THAT HORIZONTAL FLOOR AREAS DO NOT EXCEED 1,000 SF. (DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.)

DRAFTSTOPPING IN ATTICS:  
- IN COMBUSTIBLE CONSTRUCTION DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SF. (DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.)  
- OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.

DRAFTSTOPPING MATERIALS:  
DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 0.5" GYPSUM BOARD, 0.375" WOOD STRUCTURAL PANEL, 0.375" PARTICLEBOARD OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. THE INTEGRITY OF DRAFTSTOPS SHALL BE MAINTAINED.

## ACCESSIBLE RAMP REQUIREMENTS

(SLOPES GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP)

MAX. SLOPE = 1:12  
MAX RISE FOR ANY RUN = 30"  
MIN. CLEAR WIDTH = 44"  
MAX. CROSS SLOPE = 1:50  
- LANDINGS: RAMP MUST HAVE LEVEL LANDINGS AT TOP AND BOTTOM OF EACH RUN. ALL LANDINGS MUST BE AT LEAST AS WIDE AS THE RAMP, AND NOT LESS THAN 60" AT TOP & 72" AT BOTTOM OF STRAIGHT LEVEL CLEARANCE IF RAMP CHANGES DIRECTION A MIN. LANDING OF 60" x 60" IS REQUIRED.  
- HANDRAILS: IF RAMP RISE IS GREATER THAN 6" OR HORIZONTAL PROJECTION GREATER THAN 72" IT MUST HAVE CONTINUOUS HANDRAILS ON BOTH SIDES MOUNTED BETWEEN 34" - 38" ABOVE RAMP SURFACES.  
- EDGE PROTECTION: RAMP & LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROJECTED SURFACES.  
- APPROACHES TO OUTDOOR RAMPS MUST NOT ACCUMULATE WATER

## FIREBLOCKING REQUIREMENTS

(PER FBC04 SEC. 717.2)

FIREBLOCKING:  
- IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE.

- BATTIS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE ALLOWED AS FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.  
- FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:  
A. VERTICALLY AT THE CEILING AND FLOOR LEVELS.  
B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

- FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES, AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS AND SIMILAR LOCATIONS.

- FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES BETWEEN STAR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH FBC04 SECTION 1018.1.5.  
- CEILING AND FLOOR OPENINGS: WHERE ANNULAR SPACE PROTECTION IS PROVIDED IN ACCORDANCE WITH FBC04 EXCEPTION 6, SEC. 707.2, EXCEPTION 1, SEC. 712.4.2, OR SEC. 712.4.3, FIREBLOCKING SHALL BE INSTALLED AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION. FACTORY-BUILT CHIMNEYS AND FIREPLACES SHALL BE FIREBLOCKED IN ACCORDANCE WITH UL 103 AND UL 127.

- ARCHITECTURAL TRIM: FIREBLOCKING SHALL BE INSTALLED WITHIN CONCEALED SPACES OF EXTERIOR WALL FINISH AND OTHER EXTERIOR ARCHITECTURAL ELEMENTS WHERE PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN FBC04, SEC. 1406 OR WHERE ERRECTED WITH COMBUSTIBLE FRAMES, AT MAXIMUM INTERVALS OF 20'. IF NONCONTINUOUS, SUCH ELEMENTS SHALL HAVE CLOSED ENDS, WITH AT LEAST 4" OF SEPARATION BETWEEN SECTIONS. FIREBLOCKING SHALL NOT BE REQUIRED WHERE INSTALLED ON NONCOMBUSTIBLE FRAMING AND THE FACE OF THE EXTERIOR WALL FINISH EXPOSED TO THE CONCEALED SPACE IS COVERED BY ONE OF THE FOLLOWING MATERIALS:  
A. ALUMINUM HAVING A MINIMUM THICKNESS OF 0.019".  
B. CORROSION-RESISTANT STEEL HAVING A BASE METAL THICKNESS NOT LESS THAN 0.016" AT ANY POINT.  
C. OTHER APPROVED NONCOMBUSTIBLE MATERIALS.

- WHERE WOOD SLEEPERS ARE USED FOR LAYING WOOD FLOORING ON MASONRY OR CONCRETE FIRE-RESISTANCE-RATED FLOORS, THE SPACE BETWEEN THE FLOOR SLAB AND THE UNDERSIDE OF THE WOOD FLOORING SHALL BE FILLED WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION OR FIREBLOCKED IN SUCH A MANNER THAT THERE WILL BE NO OPEN SPACES UNDER THE FLOORING THAT WILL EXCEED 100 SF IN AREA AND SUCH SPACE SHALL BE FILLED SOLIDLY UNDER PERMANENT PARTITIONS SO THAT THERE IS NO COMMUNICATION UNDER THE FLOORING BETWEEN ADJOINING ROOMS.

FIREBLOCKING MATERIALS:  
2" NOMINAL LUMBER OR TWO THICKNESSES OF 1" NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 0.719" WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 0.719" WOOD STRUCTURAL PANEL OR ONE THICKNESS OF 0.75" PARTICLEBOARD WITH JOINTS BACKED BY 0.75" PARTICLEBOARD.  
GYPSUM BOARD, CEMENT FIBER BOARD, BATTIS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIREBLOCK. BATTIS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10' HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. THE INTEGRITY OF FIREBLOCKS SHALL BE MAINTAINED.

ENGINEER OF RECORD: Mark Discosway,  
PE No. 53915, POB868, Lake City, FL  
32816, 386-754-5449

DIMENSIONS:  
Shaded dimensions supersede scaled dimensions. Refer all questions to Mark Discosway, P.E. for resolution. Do not proceed without clarification.

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Mark Discosway, P.E. hereby expressly reserves its common law copyrights and property right in these instruments & service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Discosway.

CERTIFICATION: These plans and Cover Sheet, Sheet(s), attached, comply with applicable portions of the Florida Building Code 2004, to the best of my knowledge.

LIMITATION: This design is valid for one building at specification. In case of conflict, structural requirements, scope of work, and builder responsibilities control.

MARK DISCOSWAY  
PE 53915

28/1/2008

SEAL

WIND TECH  
CONTRACTING  
CORP.

CHUCK & JODI  
WOODPROPERTY

ADDRESS:

2747 SW Main Blvd

Lake City, FL 32025

Mark Discosway P.E.  
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windtechdesigner@bellsouth.net

PRINTED DATE:

January 28, 2008

DRAWN BY: Evan Beamsley

CHECKED BY:

FINALES DATE

Jan. 28, 2008

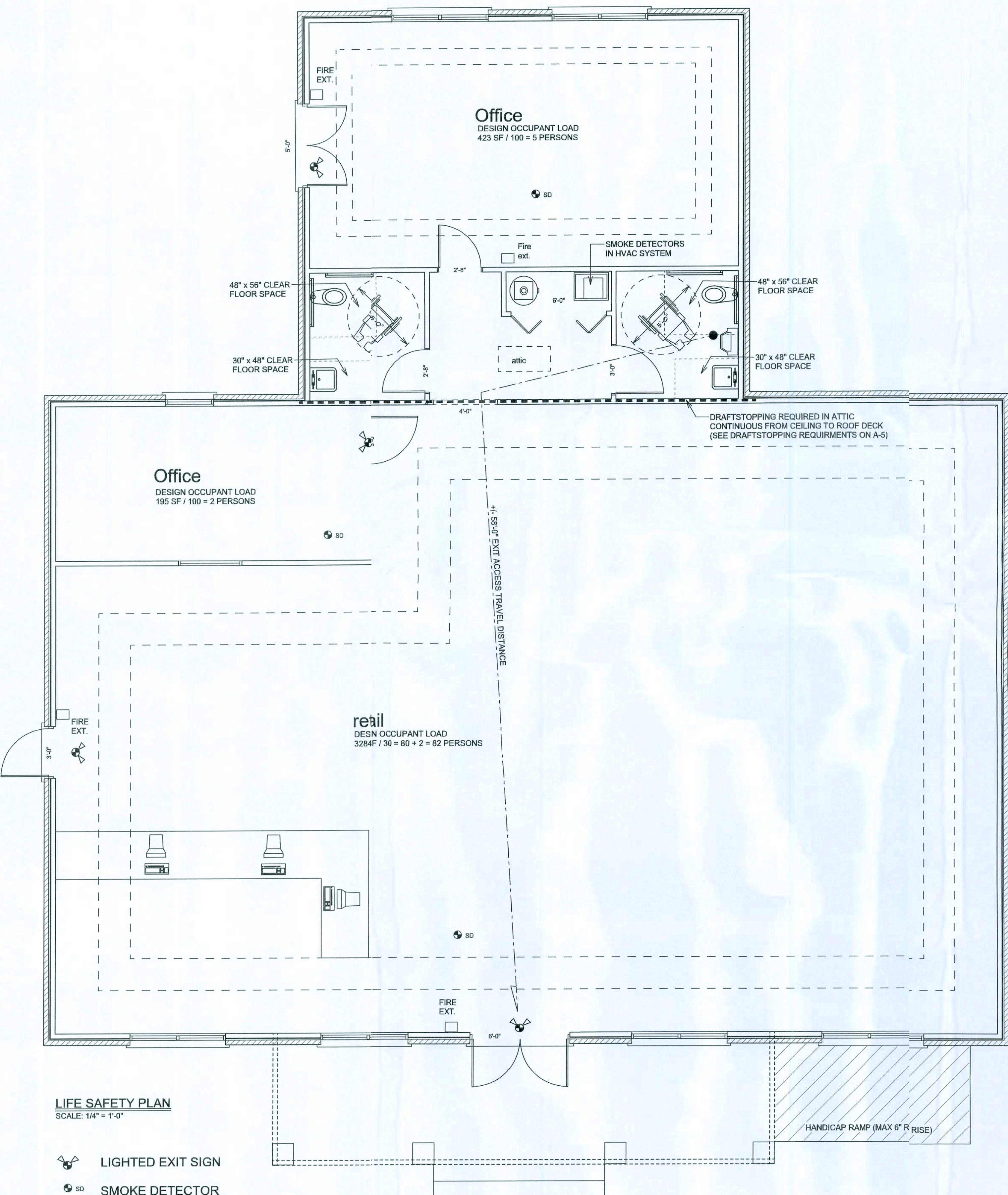
JOB NUMBER:

710186

DRAWING NUMBER

4

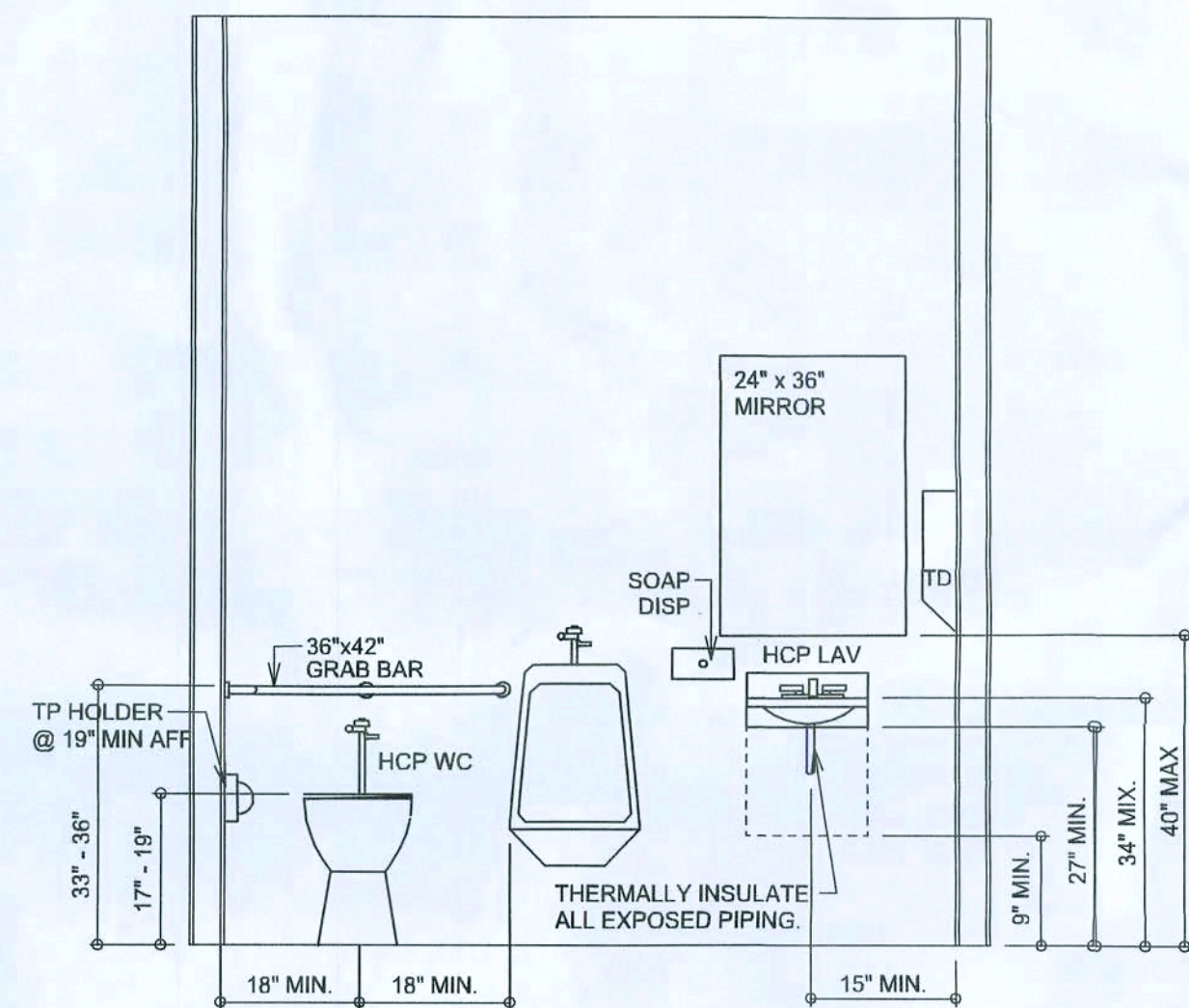
OF 1 SHEETS



## LIFE SAFETY PLAN

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

- LIGHTED EXIT SIGN
- SMOKE DETECTOR
- FIRE EXTINGUISHER



TYPICAL TOILET ROOM ELEVATION  
SCALE: N.T.S.

## LIFE SAFETY NOTE:

It is contractor / owner's responsibility to request life safety review by the fire marshal. All life safety requirements are to be as specified by the fire marshal. Emergency lighting and exit signs shall be provided as directed by the fire marshal and shall be wired per nec 700-12f. Emergency lighting and exit sign locations shown on the plans are suggestions only.



ELECTRICAL DESIGN NOTE:

The Florida Building Code 2004 and NFPA 70 shall govern the electrical systems in this building project. Where provisions conflict, FBC2004 shall govern.

Plans and design for electrical system in this building are to be furnished by the electrical contractor to the engineer of record, the owner, and the building official for approval prior to construction or ordering any materials.

FBC 2004, 105.3.1.2 Does not require sealed engineering documents to be prepared by or under the direction of an engineer registered under chapter 47 Florida Statutes for electrical systems for any new building or addition which requires an aggregate service capacity of not more than 600 amperes (240 volts) on a residential electrical system or 800 amperes (240 volts) on a commercial or industrial electrical system and which costs not more than \$50,000.

The electrical plans should meet the following requirements:

1. Electrical:
  - (a) Wiring
  - (b) Services
  - (c) Feeders and branch circuits
  - (d) Overcurrent protection
  - (e) Grounding
  - (f) Wiring methods and materials
  - (g) GFCIs
2. Equipment
3. Special occupancies
4. Emergency systems
5. Communication systems
6. Low voltage
7. Load calculations

Design of Power Systems:

- (1) Power systems convey or distribute electrical energy. Items to be included in the design and analysis of these systems are: steady state and transient loads, short circuit protection (design and analysis), load flow, voltage drop, harmonics, and protective device coordination.
- (2) "Design" documents applicable to power systems shall, at a minimum, indicate the following:
  - (a) System Riser Diagram
  - (b) Conductor Ampacities (sizes) and insulation type
  - (c) Protection devices and interrupting capability
  - (d) Main and distribution panelboard locations and sizes
  - (e) Circuitry of all outlets and devices
  - (f) Short circuit analysis
  - (g) Load computations
  - (h) Electrical legend
  - (i) Grounding and bonding
  - (j) Instrumentation control

Design of Lighting Systems:

- (1) Lighting systems convert electrical energy into light. Items to be included in the lighting design and analysis are: Average illuminance, Equivalent spherical illuminance, Uniformity ratios, Visual comfort probability, special purpose lighting, and the requirements of the Florida Energy Efficiency Code, part IX, Chapter 553, Florida Statutes.
- (2) "Design" documents for lighting systems shall, at a minimum, indicate the following:
  - (a) Lighting fixture performance specifications and arrangements
  - (b) Emergency Lighting
  - (c) Exit Lighting
  - (d) Lighting Control and circuiting

Design of Communications Systems:

- (1) Communications systems are utilized to convey messages or data. Items to be included in the design or analysis of these systems are: Human factors engineering, cabling requirements, installation requirements, performance requirements, backup power requirements, the interrelationship of the various systems, and applicable regulatory requirements.
- (2) "Design" documents for communications systems shall, at a minimum, indicate the following:
  - (a) System riser diagram
  - (b) Equipment legend
  - (c) Conductor type and installation requirements
  - (d) Device type and locations
  - (e) Backup power sources where applicable

Design of Alarm Systems:

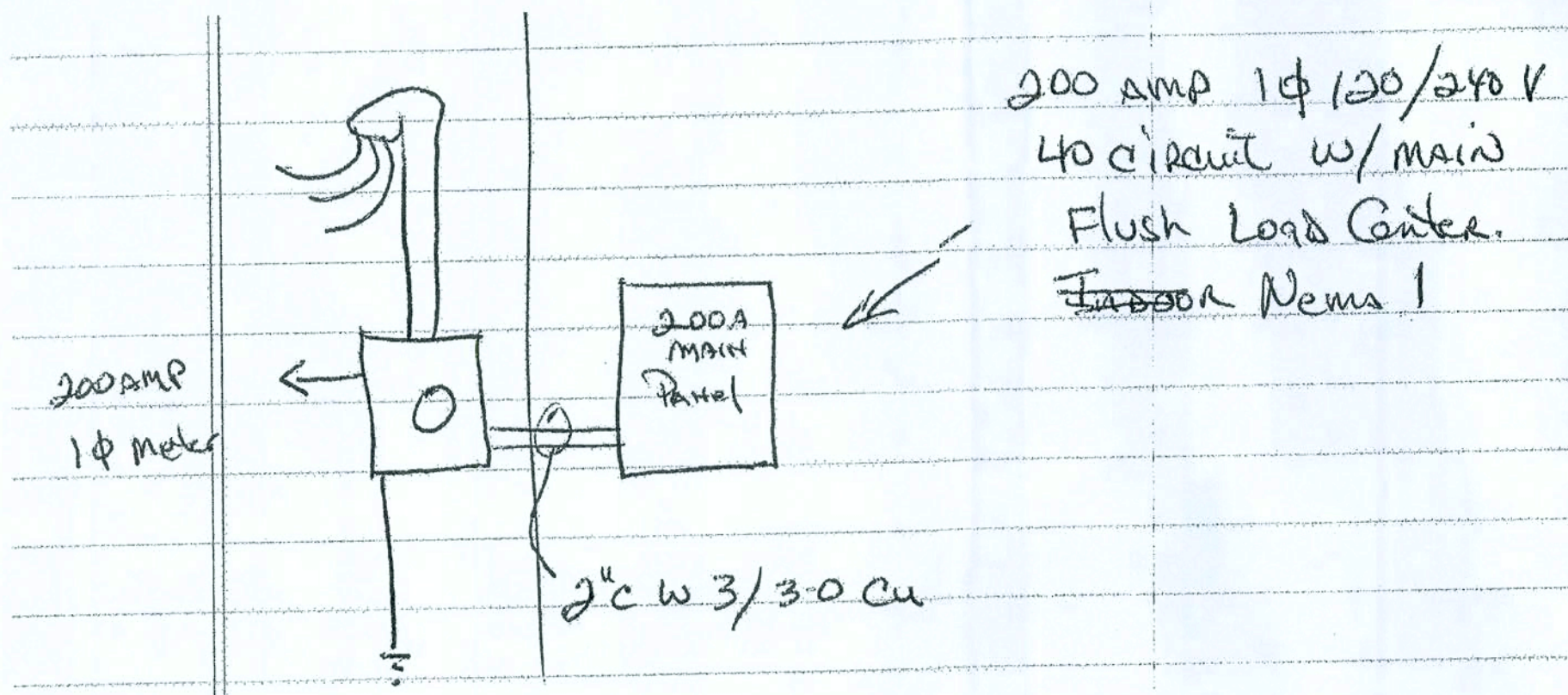
- (1) Alarm systems are used to monitor and alarm a fire or other emergency condition. Items to be included in the design or analysis of these systems are: structure alarm requirements, location and audibility, types of alarms and initiation devices, notification requirements, installation requirements, backup power requirements, applicable regulatory requirements, and the provisions of rule 61G15-32.007, F.A.C.
- (2) Design documents for alarm systems shall, at a minimum, indicate the following:
  - (a) System riser diagram
  - (b) Device types and locations
  - (c) Type of conductors and installation requirements including rating identification and listing requirements
  - (d) Notification requirements
  - (e) Backup power requirements
  - (f) Where applicable, backup power sources and inter-ties to other systems/components

Design of Lightning Protection Systems:

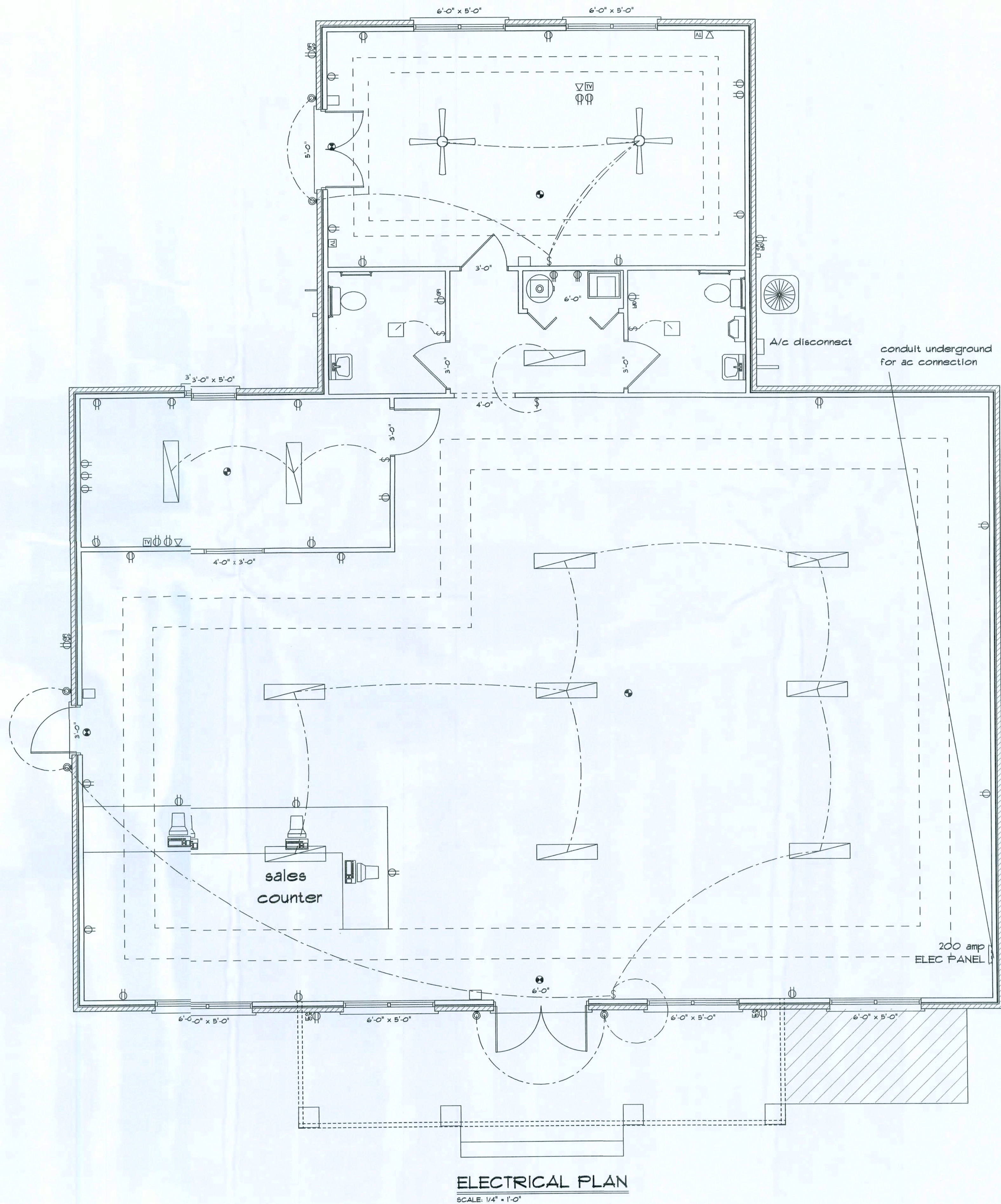
- (1) Lightning Protection Systems are passive systems used to protect building and structures from damage caused by lightning and static discharges. Items to be considered in the design or analysis of this system include the requirements of NFPA-78.
- (2) "Design" documents for lightning protection systems shall indicate:
  - (a) Air terminals height and spacing
  - (b) Arrangement of Main and Down conductors
  - (c) Grounding points and spacing
  - (d) Legend
  - (e) Testing requirements of grounds

Design of Grounding Systems:

- (1) Grounding Systems are passive systems used to establish an electrical potential reference point in an electrical system for the proper dissipation of energy in case of abnormal or transient conditions.
- (2) Design documents for grounding systems shall indicate at a minimum the following:
  - (a) type and location of grounding electrodes
  - (b) bonding requirements
  - (c) testing requirements
  - (d) conductor material type, size and protection requirements
  - (e) separate grounding systems, properly bonded, per code and use requirements



ELEC. RISER  
SCALE: N.T.S.



ELECTRICAL PLAN  
SCALE: 1/4\"/>

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KT)
	DOUBLE SECURITY LIGHT
	2X4 FLUORESCENT LIGHT FIXTURE
	RECESSED CAN LIGHT
	BATH EXHAUST FAN WITH LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220v OUTLET
	GFI DUPLEX OUTLET
	SMOKE DETECTOR
	WALL SWITCH
	3 WAY WALL SWITCH
	4 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	PHONE JACK
	TELEVISION JACK
	GARAGE DOOR OPENER
	WALL HEATER

WIND TECH  
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ADDRESS:  
2747 SW Main Blvd  
Lake City, FL 32025

A-1 Electric of  
Lake City, Inc.  
188NE Osburn Way  
Lake City, FL 32055  
FL LIC # EC0002840  
GA LIC# EN211858

PRINTED DATE:  
January 28, 2008  
DRAWN BY:  
Evan Beamle  
CHECKED BY:

FINALES DATE:  
Jan. 29, 2008

JOBNUMBER:  
10186  
DRAWING NUMBER

5

OF 1 SHEETS

REVIEWED  
A. J. Beamle  
28 JAN 08



PLUMBING NOTE:

The Florida Building Code 2004, Chapter 29, and Florida Building Code, Plumbing shall govern plumbing fixtures and plumbing installations in this building project.

Plans and design for plumbing system in this building are to be furnished by the plumbing contractor to the engineer of record, the owner, and the building official for approval prior to construction or ordering any materials.

FBC 2004, 105.3.1.2 Does not require sealed engineering documents to be prepared by or under the direction of an engineer registered under chapter 471 Florida Statutes for plumbing systems for any new building or addition which requires a plumbing system with not more than 250 fixture units or which costs not more than \$50,000.

The plumbing plans should meet the following requirements:

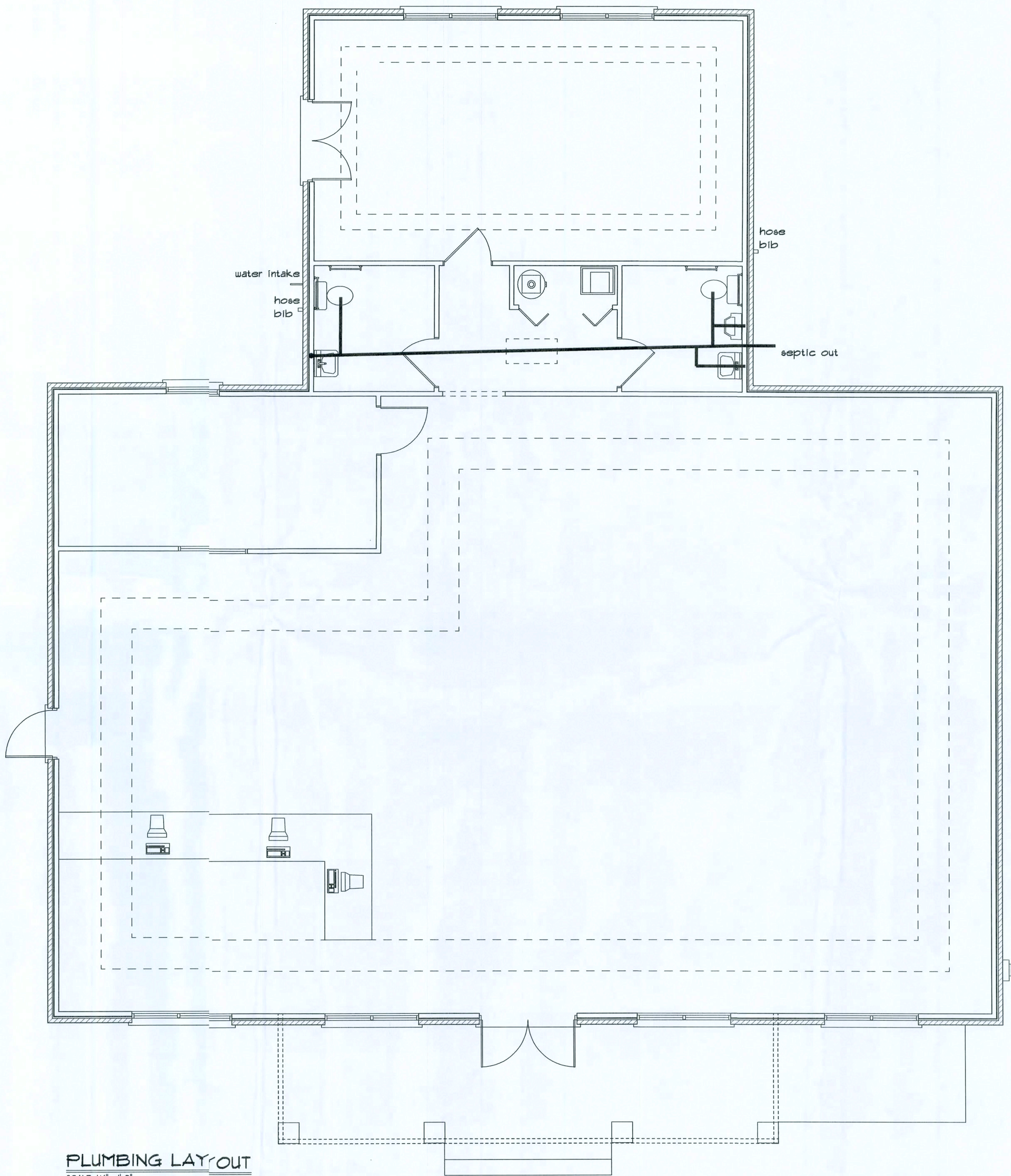
1. Minimum plumbing facilities
2. Fixture requirements
3. Water supply piping
4. Sanitary drainage
5. Water heaters
6. Vents
7. Roof drainage
8. Back flow prevention
9. Irrigation
10. Location of water supply line
11. Grease traps
12. Environmental requirements
13. Plumbing riser

Design of Plumbing Systems:

- (1) Plumbing systems are those systems within a building that convey fluids, and gases generally as required by building codes.
- (2) "Design" documents applicable to Plumbing Systems shall when applicable, include but are not limited to the following:
  - (a) Equipment schedules for all plumbing fixtures, water heaters, boilers, pumps, grease traps, septic tanks, storage tanks, expansion tanks, compression tanks and roof and floor drains.
  - (b) Floor plans, site plans, and building and plumbing system elevations are appropriate.
  - (c) Isometric diagrams with pipe sizes and total water fixture units.
  - (d) Sanitary riser diagrams with pipe sizes and total sanitary waste fixture units.
  - (e) Storm riser diagrams with pipe sizes and cumulative drain area square footages.
  - (f) Cold water, hot water, sanitary, and storm drainage piping layouts.
  - (g) System isometrics and flow diagrams of other fluids and gases.
  - (h) Design data for septic tank, grease trap(s), drain field sizing, when applicable.
  - (i) List of ASHRAE, ASME, ASPE, ANSI and other applicable codes, design standards, and requirements.
  - (j) Design shall be in accordance with handicap requirements adopted by the authority having jurisdiction.
  - (k) Instrumentation and Control Diagrams and sequence of operation.
  - (l) All plumbing fixtures, valves, pumps, tanks, accessories, specialties, enclosures, and such equipment shall be described and located on the drawings.
  - (m) Materials for all plumbing systems shall be specified.

REVISIONS

SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE



PLUMBING LAYOUT

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

REVIEWED  
W.D. Jones  
28 Jan 08

WND TECH  
CONTRACTING  
CORP.

CHUCK & JODI  
WOOD PROPERTY

ADDRESS:  
277 SW Main Blvd  
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Dependable Plumbing  
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Lake City, FL 32056  
Lic # CF C057747

PRINTED DATE:  
January 28, 2008

DRAWN BY: CHECKED BY:  
Evan Beardsley

FINALES DATE:  
Jan. 29, 2008

JOB NUMBER:  
710186

DRAWING NUMBER

6

OF 11 SHEETS



## REVISIONS

**SOFTPLAN**  
ARCHITECTURAL DESIGN SOFTWARE

### HVAC DESIGN NOTE:

The Florida Building Code 2004, Chapter 28 and Florida Building Code, Mechanical and Fuel Gas shall govern the heating, air conditioning, refrigeration, mechanical ventilation and plenums and the design and construction of factory-built chimneys, fireplaces and barbecues in this building.

Plans and design for HVAC system in this building are to be furnished by the HVAC contractor to the engineer of record, the owner, and the building official for approval prior to construction or ordering any materials.

FBC 2004, 105.3.1.2 Does not require sealed engineering documents to be prepared by or under the direction of an engineer registered under chapter 471 Florida Statutes for heating, ventilation, and air-conditioning systems for any new building or addition which requires not more than a 15-ton-per-system capacity which is designed to accommodate less than 100 persons and for which the system costs not more than \$50,000. An air-conditioning system may be designed by an installing air-conditioning contractor certified under Chapter 489, Florida Statutes to serve any building or addition which is designed to accommodate fewer than 100 persons and requires an air-conditioning system with value of \$50,000 or less; and when a 15-ton-per system or less is designed for a singular space of a building and each 15-ton system or less has an independent duct system. Systems not complying with the above require design documents that are to be sealed by a professional engineer.

The mechanical plans should meet the following requirements:

1. Energy calculations
2. Exhaust systems:
  - Clothes dryer exhaust
  - Kitchen equipment exhaust
  - Specialty exhaust systems
3. Equipment
4. Equipment location
5. Make-up air
6. Roof-mounted equipment
7. Duct systems
8. Ventilation
9. Combustion air
10. Chimneys, fireplaces and vents
11. Appliances
12. Boilers
13. Refrigeration
14. Bathroom ventilation
15. Laboratory

Gas plans should meet the following requirements:

1. Gas piping
2. Venting
3. Combustion air
4. Chimneys and vents
5. Appliances
6. Type of gas
7. Fireplaces
8. LP tank location
9. Riser diagram/shutoffs

Design of Heating, Ventilation and Air Conditioning Systems.

(1) Heating, Ventilating, and Air Conditioning (HVAC) Systems are those systems that control the temperature and/or humidity of a particular space or building. Items to be considered in the design and analysis of these systems are ambient dry and wet bulb temperatures, inside dry and wet bulb temperatures, inside design humidity, fresh air makeup, internal heat gains from any sources. Ventilation systems shall be designed to remove foul odors from a space or building, or to remove space heat from equipment rooms. All HVAC systems shall be designed in accordance with the ASHRAE Standards and Building Code as adopted by the authority having jurisdiction. The HVAC systems shall be designed and operated such that the entire building is under positive or neutral pressure when all primary HVAC systems are operating.

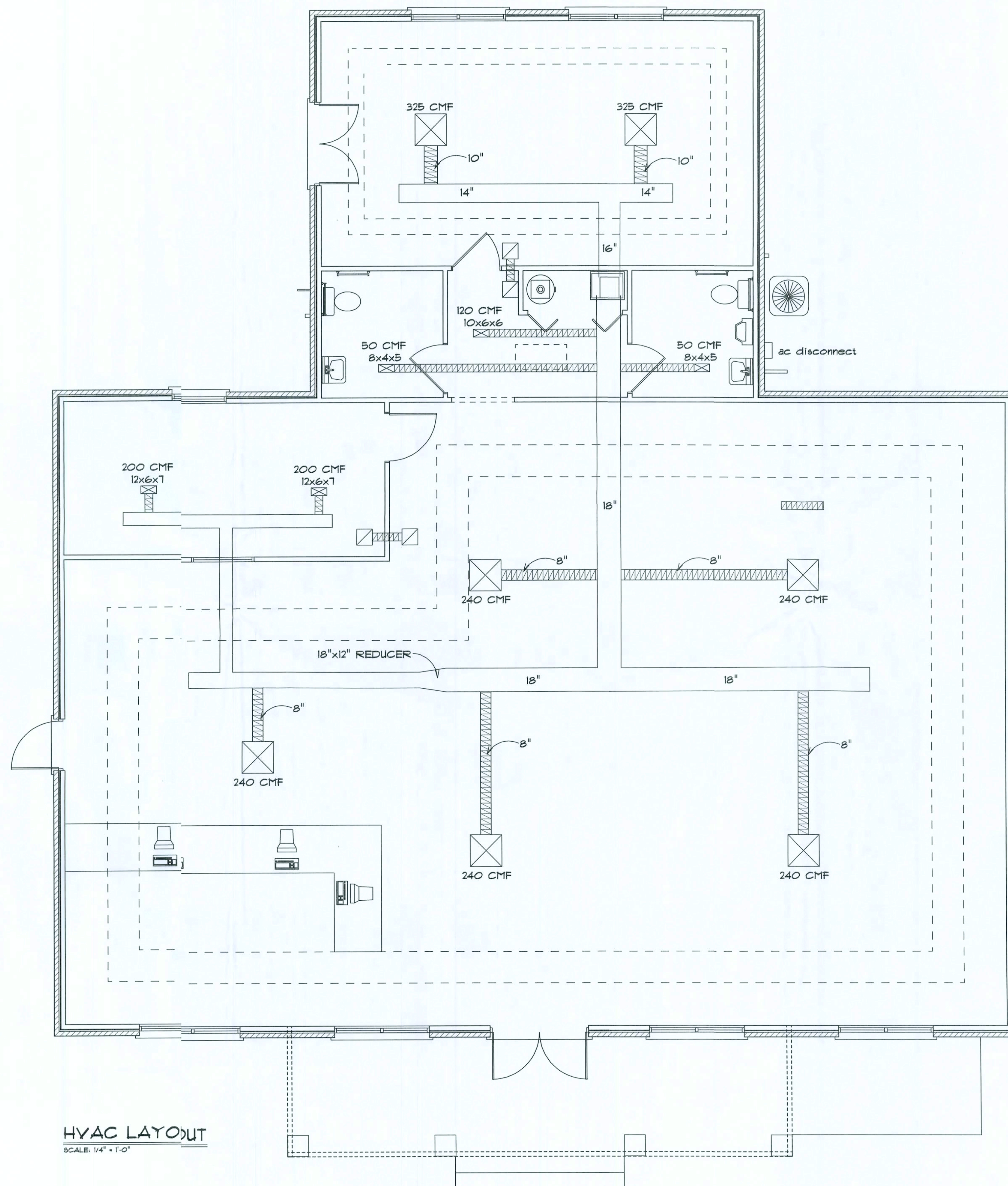
(2) "Design" documents applicable to HVAC systems shall, where applicable, include but are not limited to the following:

- (a) Equipment selection schedule for each piece of mechanical equipment. All equipment shall have capacities listed including efficiencies, electrical or fuel requirements, static pressure and fan air quantities as applicable to the system, fluid flow and pressure head quantities as applicable to the system, and heat transfer capacities.
- (b) Floor plans; site plans; and building and mechanical system elevations as appropriate.
- (c) Outside (fresh) air make-up conditions.
- (d) Cooling coil requirements based on sensible heat, latent heat and total heat gains.
- (e) Heating equipment requirements.
- (f) Outside and inside design dry and wet bulb conditions.
- (g) Exhaust riser diagrams.
- (h) Outside air riser diagrams.
- (i) Process flow diagrams with pipe sizes and fluid flow quantities.
- (j) Condensate discharge piping with pipe sizes.
- (k) Instrumentation and Control System diagrams and sequence of operation.
- (l) Ductwork layout and sizing; insulation, supply, return, and exhaust inlet and outlet sizes; and outside air intake sizes. Air quantities shall be specified for inlets and outlets.
- (m) Florida Energy Code calculations as applicable.
- (n) NFPA Standards and all required fire protection devices and systems.

### ENERGY EFFICIENCY NOTE:

The Florida Building Code 2004, Chapter 13, "Florida Energy Efficiency Code For Building Construction", shall govern design of building envelopes for adequate thermal resistance and low air leakage and design and selection of mechanical, electrical, and illumination systems and equipment which will enable the effective use of energy in this building project.

Important Note: A sealed copy of Form 400 for this project is incorporated in these plans by reference. There are equipment and material requirements and specifications in Form 400 which do not appear anywhere else in the plans. Construction must comply with the sealed Form 400. Conflicts between Form 400 and any other construction or contract documents are to be resolved by the builder prior to construction or ordering of materials.



**HVAC LAYOUT**  
SCALE: 1/4" = 1'-0"

*Reviewed  
My Design  
2/2/2008*

**WND TECH  
CONTRACTING  
CORP.**

**CHUCK & JODI  
WOOD PROPERTY**

ADDRESS:  
274 SW Main Blvd  
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**Country Comfort  
Heating &  
Air Conditioning  
Lic #CAC057795**

PRINTED DATE:  
January 29, 2008

DRAWN BY:  
Evan Beamley

CHECKED BY:

FINALES DATE:  
Jan. 29, 2008

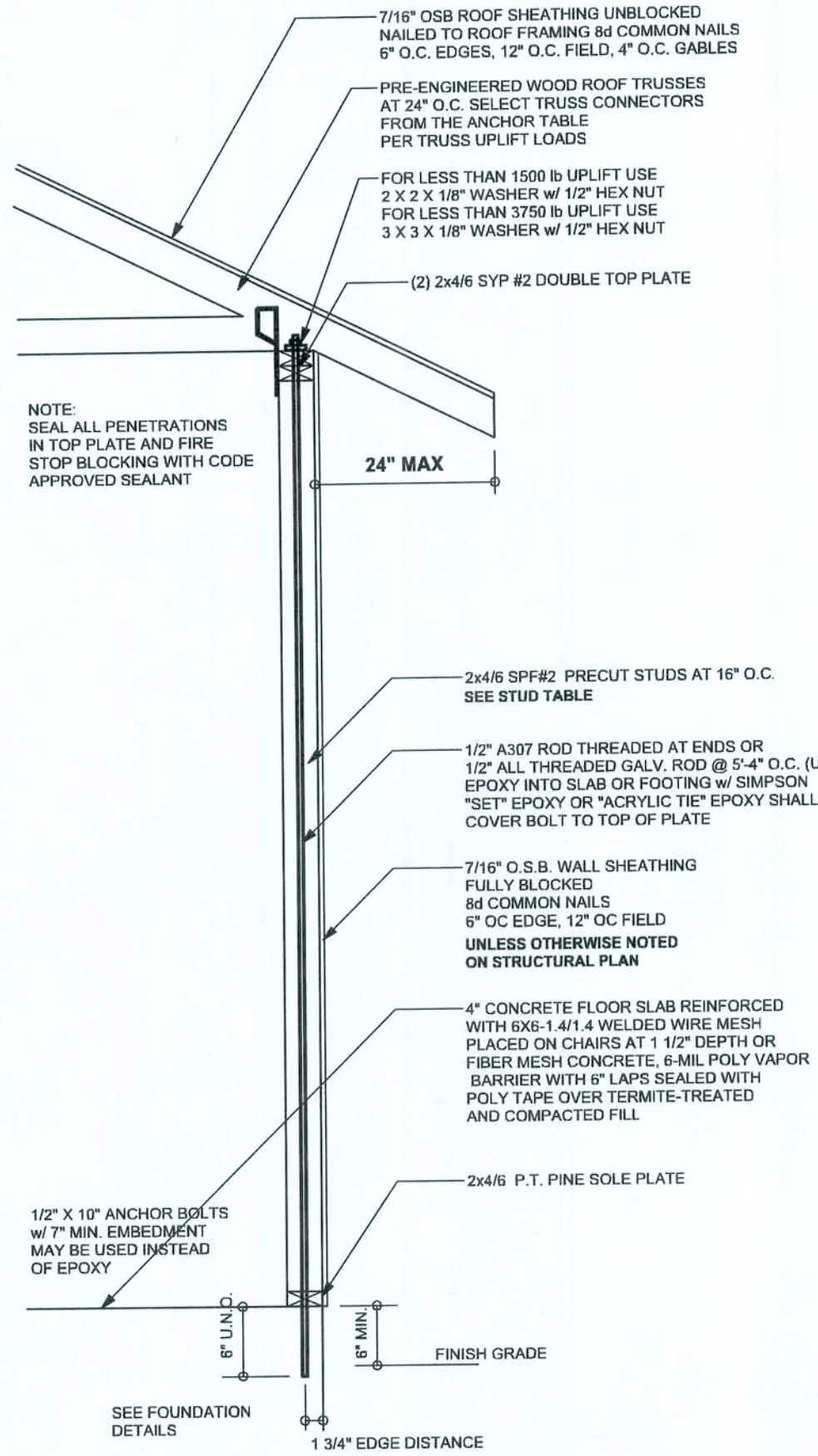
**JOB NUMBER:  
710186**

DRAWING NUMBER

**7**

OF 11 SHEETS



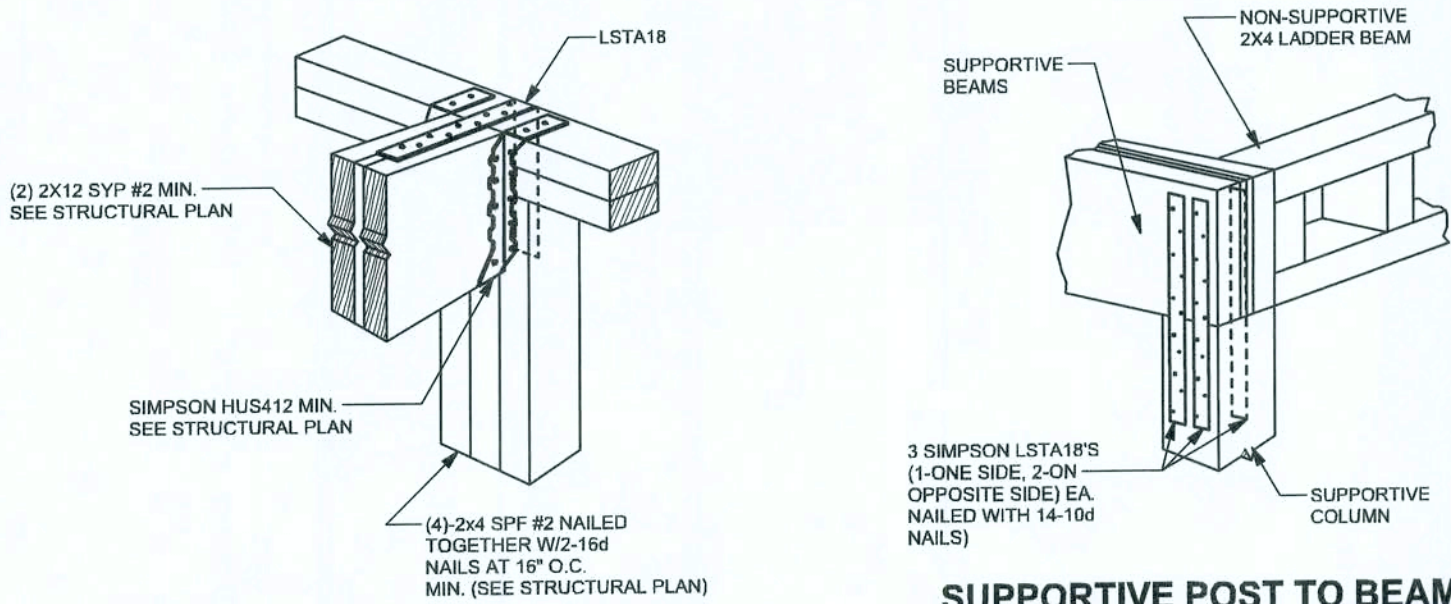


**ONE STORY WALL SECTION**  
SCALE: 3/4\" = 1'-0"

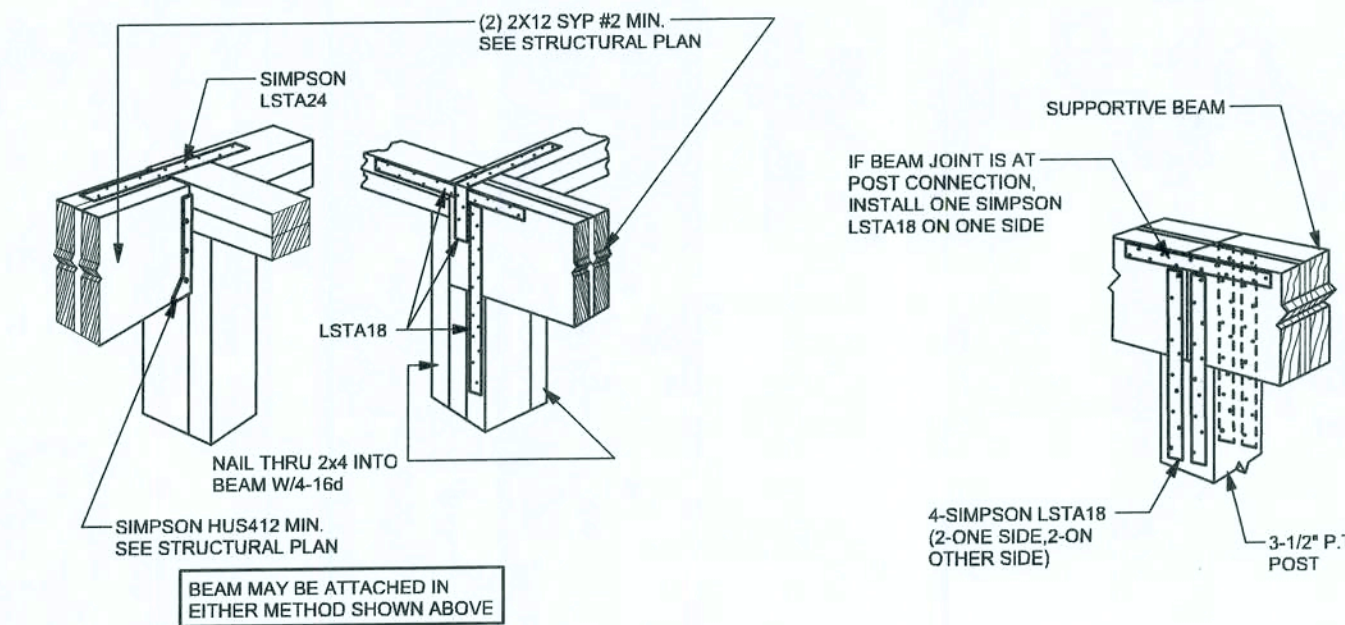
#### EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS

(1) 2x4 @ 16\" OC	TO 11'-8\" STUD HEIGHT
(1) 2x4 @ 12\" OC	TO 13'-0\" STUD HEIGHT
(1) 2x6 @ 16\" OC	TO 18'-10\" STUD HEIGHT
(1) 2x6 @ 12\" OC	TO 20'-0\" STUD HEIGHT

THIS STUD HEIGHT TABLE IS PER WFCM 2001, TABLE 3.20B, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS RESISTING INTERIOR ZONE WINDLOADS 110 MPH EXPOSURE B. STUD SPACINGS SHALL BE MULTIPLIED BY 0.85 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING. EXAMPLE: 16\" OC x 0.85 = 13\" O.C.

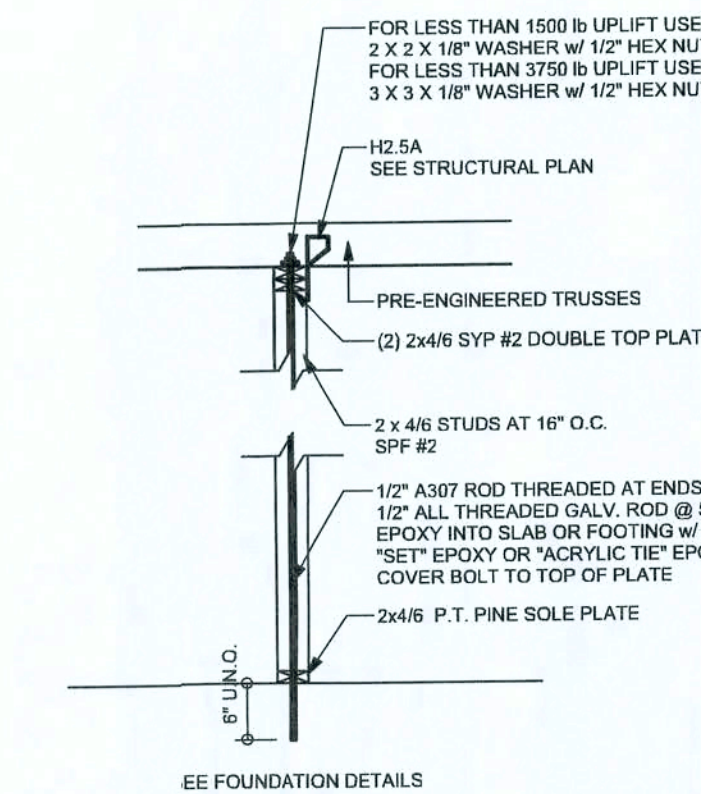


**BEAM MID-WALL CONNECTION DETAIL**  
SCALE: N.T.S.

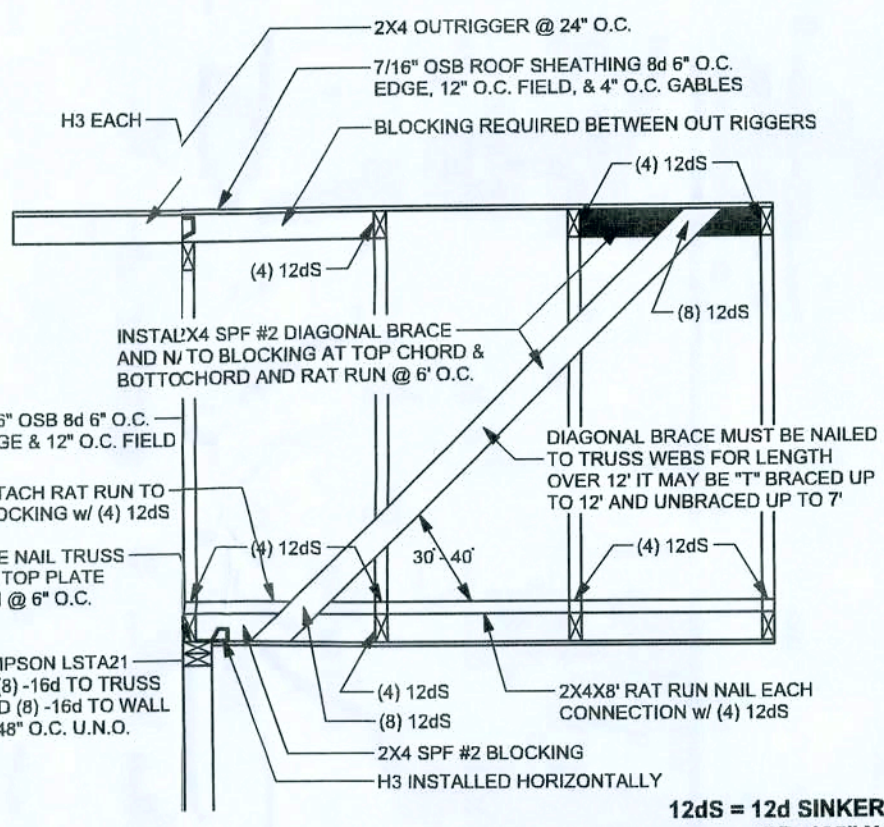


**BEAM CORNER CONNECTION DETAIL**  
SCALE: N.T.S.

**SUPPORTIVE CENTER POST TO BEAM DETAIL**  
SCALE: N.T.S.



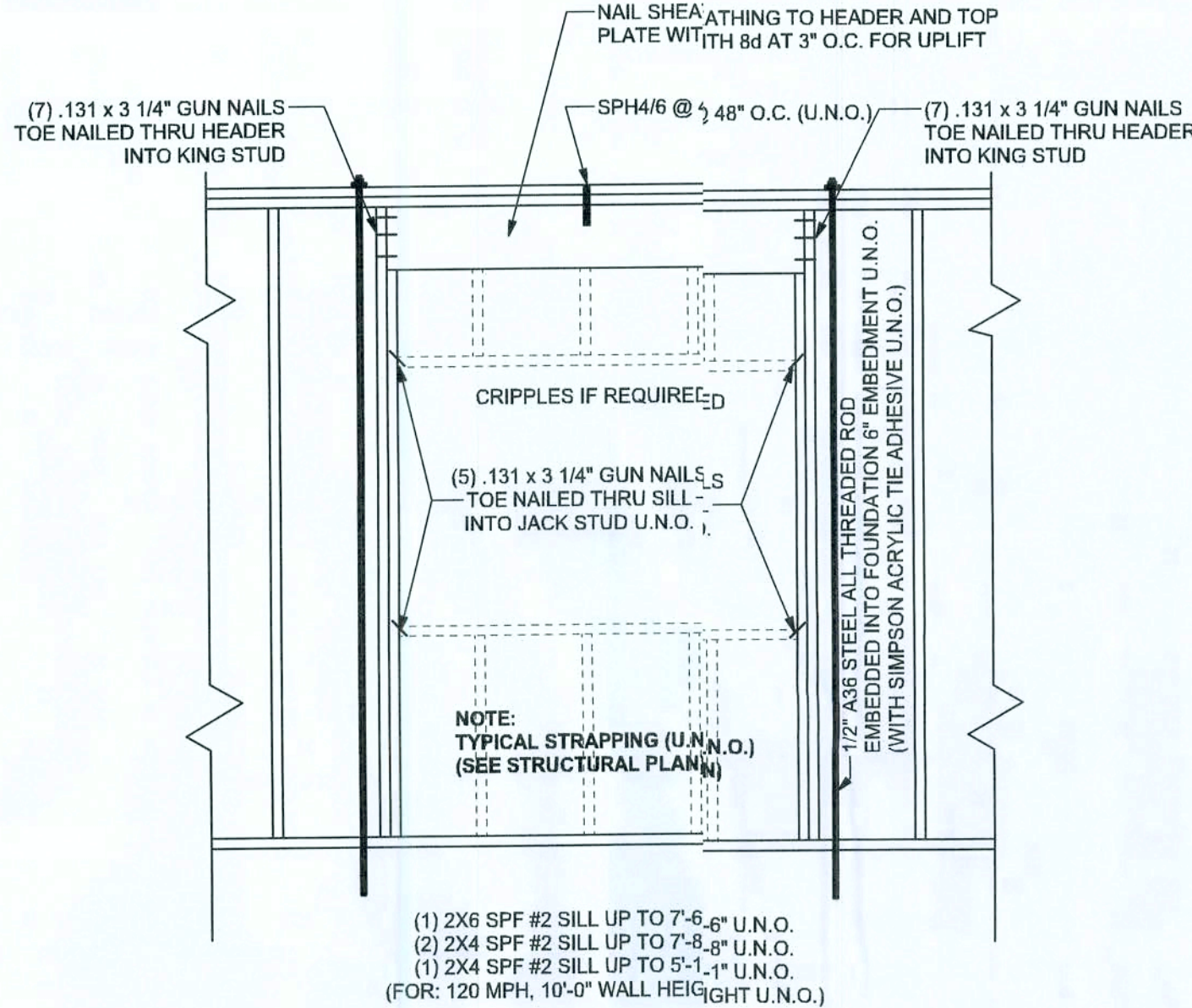
**INTERIOR BEARING WALL**  
SCALE: 1/2\" = 1'-0"



**TABLE BRACING DETAIL**  
SCALE: 1/2\" = 1'-0"

**NOTE:**  
IF TRUSS TO WALL STRAPS ARE NAILED TO THE HEADER THE SPH4/6 @ 48\" O.C. ARE NOT REQUIRED

FOR LESS THAN 1500 LB UPLIFT USE  
2 X 2 X 1/8\" WASHER  
FOR LESS THAN 3750 LB UPLIFT USE  
3 X 3 X 1/8\" WASHER

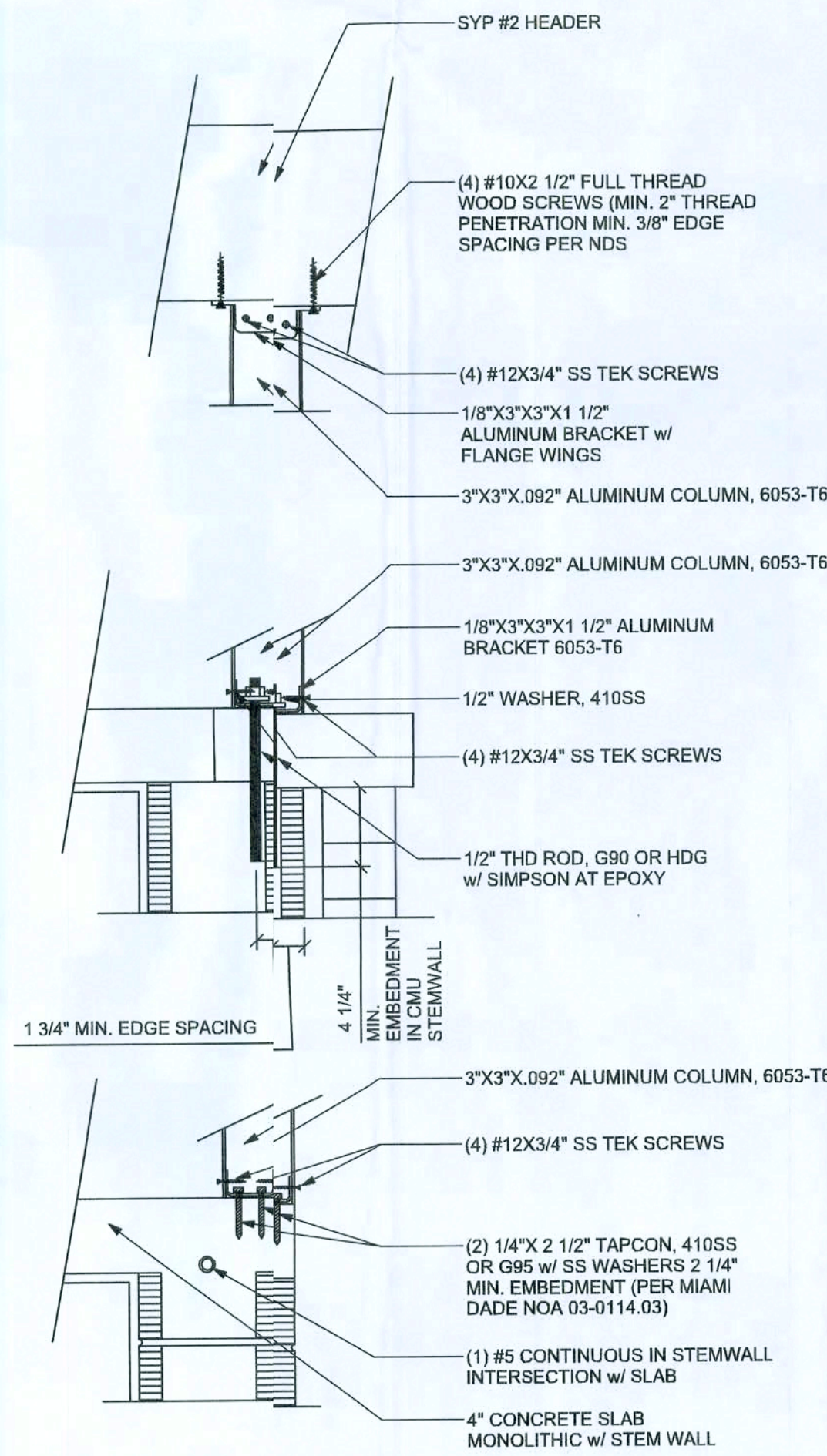


**TYPICAL 1 STORY HEADER STRAPPING DETAIL**  
SCALE: 1/2\" = 1'-0"

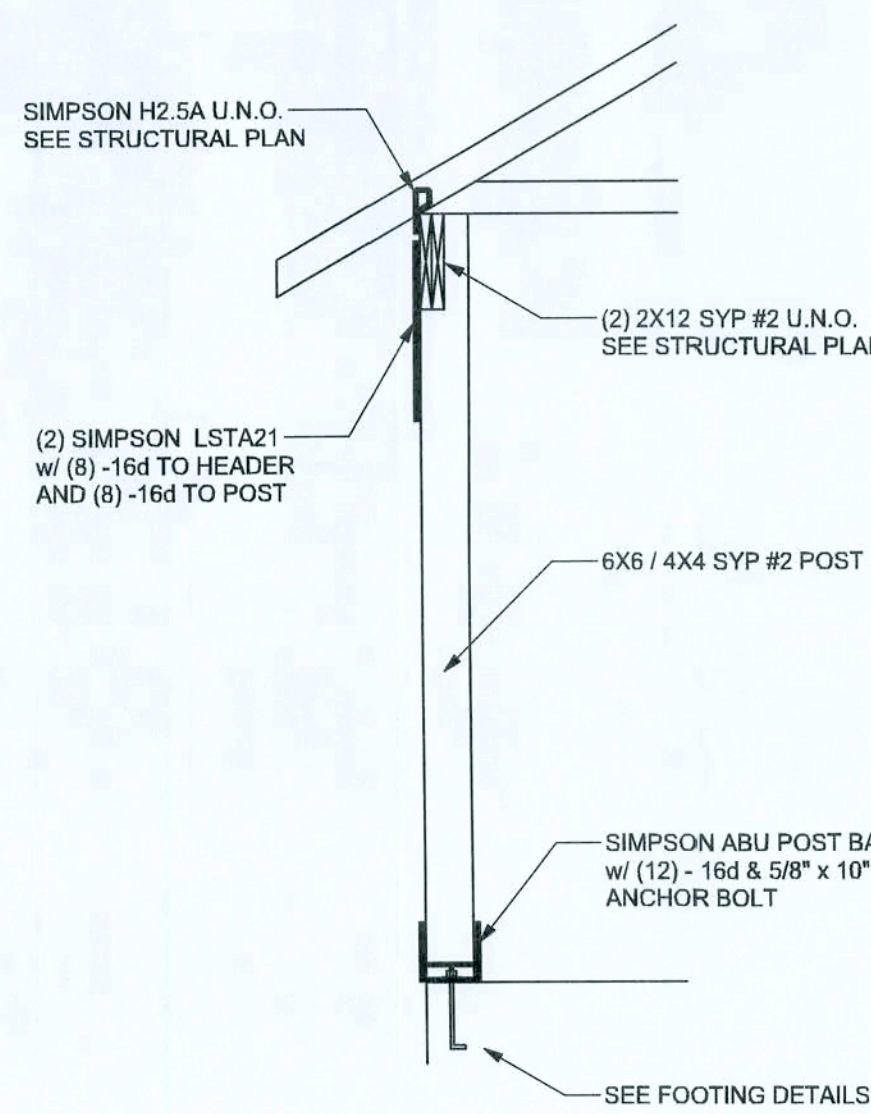
#### ANCHOR TABLE

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

UPLIFT LBS. SYP	UPLIFT LBS. SPF	TRUSS CONNECTOR*	TO PLATES	TO RAFTER/TRUSS	TO STUDS
< 420	< 245	H5A	3-8d	3-8d	
< 455	< 265	H5	4-8d	4-8d	
< 300	< 235	H4	4-8d	4-8d	
< 455	< 320	H3	4-8d	4-8d	
< 415	< 365	H2.5	5-8d	5-8d	
< 800	< 535	H2.5A	5-8d	5-8d	
< 950	< 820	H8	8-8d	8-8d	
< 745	< 565	H8	5-10d, 1 1/2"	5-10d, 1 1/2"	
< 1465	< 1050	H14-1	13-8d	12-8d, 1 1/2"	
< 1465	< 1050	H14-2	15-8d	12-8d, 1 1/2"	
< 990	< 850	H10-1	8-8d, 1 1/2"	8-8d, 1 1/2"	
< 760	< 655	H10-2	6-10d	6-10d	
< 1470	< 1265	H16-1	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1470	< 1265	H16-2	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1000	< 860	MTS24C	7-10d 1 1/2"	7-10d 1 1/2"	
< 1450	< 1245	HTS24	12-10d 1 1/2"	12-10d 1 1/2"	
< 2900	< 2490	2 - HTS24			
< 2050	< 1785	LGT4	14 - 16d	14 - 16d	
<b>HEAVY GIRDER TIEDOWNS*</b>					
< 3965	< 3330	MG7		22 - 10d	1-5/8\" THREADED ROD 12\" EMBEDMENT
< 10890	< 8495	HGT-2		16 - 10d	2-5/8\" THREADED ROD 12\" EMBEDMENT
< 10530	< 9035	HGT-3		16 - 10d	2-5/8\" THREADED ROD 12\" EMBEDMENT
< 9250	< 9250	HGT-4		16 - 10d	2-5/8\" THREADED ROD 12\" EMBEDMENT
<b>STUD STRAP CONNECTOR*</b>					
< 435	< 435	SSP DOUBLE TOP PLATE	3 - 10d		4 - 10d
< 455	< 420	DSP SINGLE SILL PLATE	1 - 10d		4 - 10d
< 825	< 825	DSP DOUBLE TOP PLATE	6 - 10d		8 - 10d
< 825	< 800	DSP SINGLE SILL PLATE	2 - 10d		8 - 10d
< 885	< 760	SP4			6-10d, 1 1/2"
< 1240	< 1065	SPH4			10-10d, 1 1/2"
< 885	< 760	SP6			6-10d, 1 1/2"
< 1240	< 1065	SPH6			10-10d, 1 1/2"
< 1235	< 1165	LSTA18	14 - 10d		
< 1235	< 1235	LSTA21	16 - 10d		
< 1030	< 1030	CS20	18 - 8d		
< 1705	< 1705	CS16	28 - 8d		
<b>STUD ANCHORS*</b>					
< 1350	< 1305	LTT18	8 - 16d		1/2\" AB
< 2310	< 2310	LTT31	18 - 10d, 1 1/2"		1/2\" AB
< 2775	< 2570	HD2A	2-5/8\" BOLTS		5/8\" AB
< 4175	< 3695	HTT16	18 - 16d		5/8\" AB
< 1400	< 1400	PAHD42	16 - 16d		
< 3335	< 3335	HPAHD22	16 - 16d		
< 2200	< 2200	ABU44	12 - 16d		1/2\" AB
< 2300	< 2300	ABU66	12 - 16d		1/2\" AB
< 2320	< 2320	ABU88	18 - 16d		2-5/8\" AB



**OPTIONAL ALUMINUM PORCH POST & HEADER ANCHORS**  
SCALE: N.T.S.



**4X4 / 6X6 PORCH POST DETAIL**  
SCALE: 1/2\" = 1'-0"

#### GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBC 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY TO VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION AT 16\" EACH END; 2X6 RAFTERS 70 LB EACH END.

**SITE PREPARATION:** SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN

**FOUNDATION:** CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE)

**CONCRETE:** MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS,  $f'_c$  = 3000 PSI

**WELDED WIRE REINFORCED SLAB:** 6\" x 6\" W14 x W14, FB = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185, LOCATED IN MIDDLE OF THE SLAB, SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

**FIBER CONCRETE SLAB:** CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 12 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

**CONTROL JOINTS:** WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12 FT. DO NOT CUT W.M. OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

**REBAR:** ASTM A615, GRADE 60, DEFORMED BARS,  $F_y$  = 60 KSI. ALL LAP SPLICES @ 4\" DB (25\" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-9R, U.N.O.

**GLULAM BEAMS:** GLULAM BEAM, GLB, 24F-V3SP,  $F_b$  = 2.4ksi,  $E$  = 1800ksi, UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALCULATIONS.

**ROOF SHEATHING:** ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16\" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS (131). EOC PANEL EDGES, 12\" OC INTERMEDIATE MEMBERS, GABLE ENDS AND DIAPHRAGM BOUNDARY, 4\" OC, UNO.

**STRUCTURAL CONNECTORS:** MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

**ANCHOR BOLTS:** A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7\" IN CONCRETE OR REINFORCED BOND BEAM OR 15\" IN GROUTED CMU.

**WASHERS:** WASHERS USED WITH 1/2\" BOLTS TO BE 2\" x 2\" x 9/64\"; WITH 5/8\" BOLTS TO BE 3\" x 3\" x 9/64\"; WITH 3/4\" BOLTS TO BE 3\" x 3\" x 9/64\"; WITH 7/8\" BOLTS TO BE 3\" x 3\" x 9/16\"; UNO.

**NAILS:** ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

#### BUILDER'S RESPONSIBILITY

**THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.**

CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.

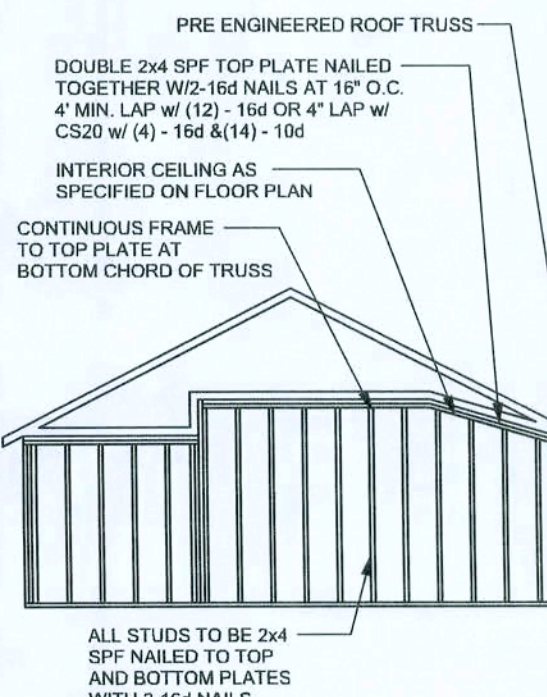
PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBC 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMTS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.

VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

#### GRADE & SPECIES TABLE

		Fb (psi)	E (10 <sup>6</sup> psi)
2x8	SYP #2	1200	1.6
2x10	SYP #2	1050	1.6
2x12	SYP #2	975	1.6
GLB	24F-V3 SP	2400	1.8
LVL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2900	2.0
PSL	PARALAM	2900	2.0



**CONTINUOUS FRAME TO CEILING DIAPHRAGM DETAIL**  
SCALE: N.T.S.

REVISIONS	

**SOFTPLAN**  
ARCHITECTURAL DESIGN SOFTWARE

ENGINEER OF RECORD: Mark Discoway,  
FE No. 53915, P.O. Box 868, Lake City, FL  
32056, 386-754-549

**DIMENSIONS:**  
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Discoway, P.E. for resolution. Do not proceed without clarification.

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**CERTIFICATION:** These plans and Cover Sheet, Sheet A-4, attached, comply with applicable portions of the Florida Building Code 2004, to the best of my knowledge.

**LIMITATION:** This design is valid for one building at specific location. In case of conflict, structural requirements, scope of work, and builder responsibility control.

MARK DISCOWAY  
FE 53915

*Mark Discoway*  
28 AUG 08  
SEAL

**WIND TECH CONTRACTING CORP.**

**CHUCK & JODI WOODPROPERTY**

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FINALES DATE:  
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10186

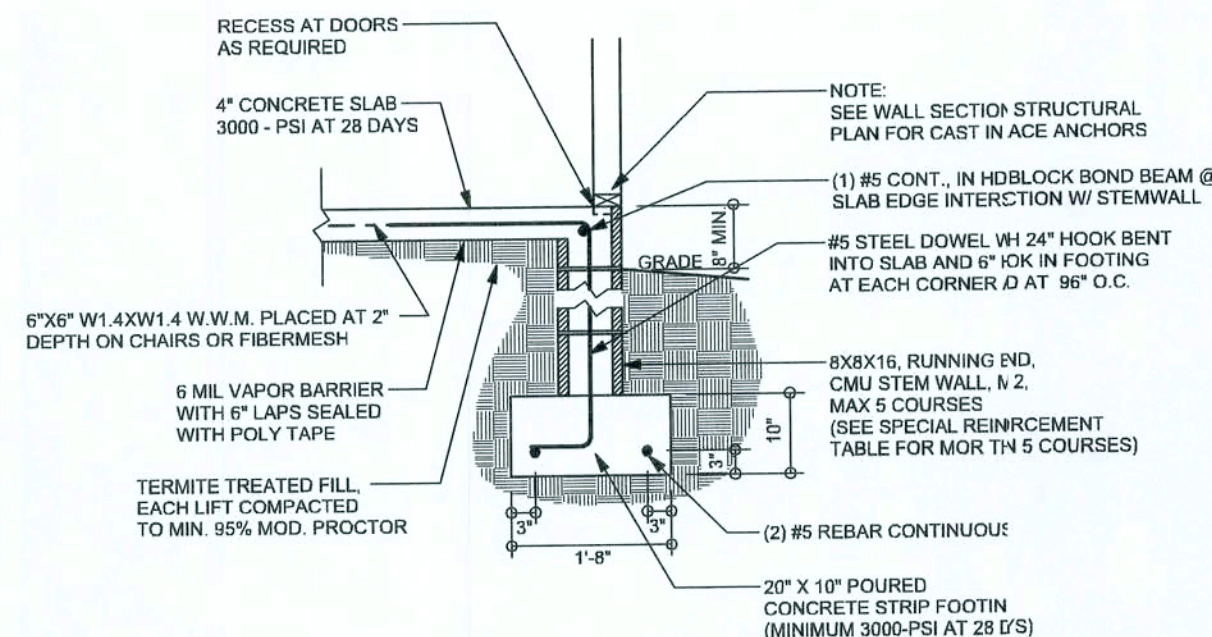
DRAWING NUMBER

**S-1**  
OF 11 SHEETS

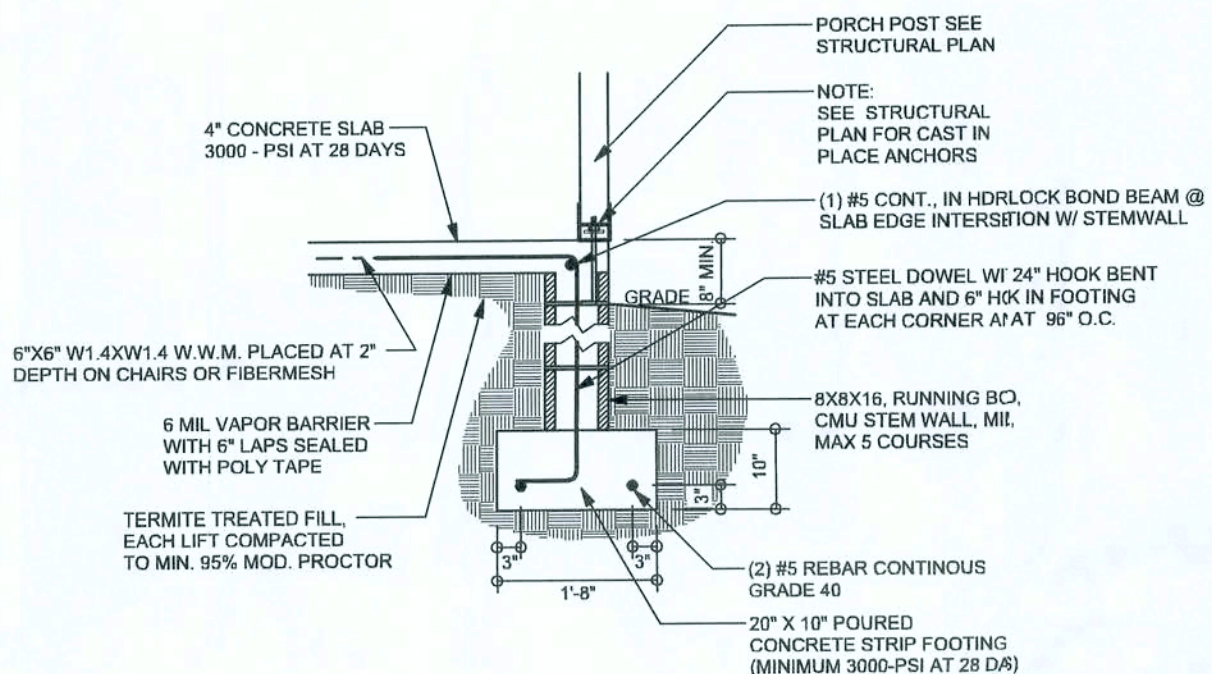


REVISIONS

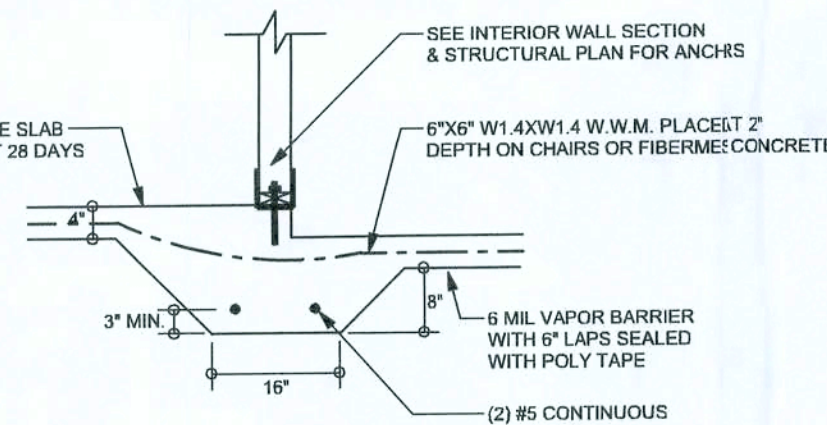
SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE



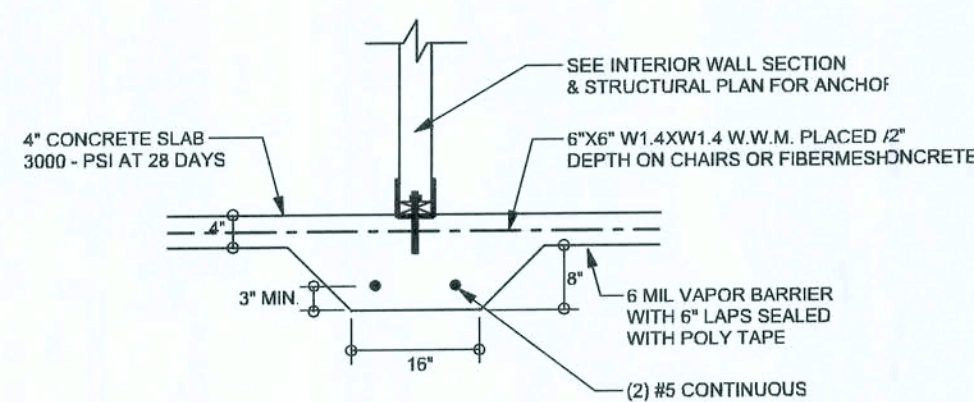
**F9 S-2** STEM WALL FOOTING  
SCALE: 1/2" = 1'-0"



**F12 S-2** STEM WALL PORCH FOOTING  
SCALE: 1/2" = 1'-0"



**F3 S-2** INTERIOR BEARING STEP FOOTING  
SCALE: 1/2" = 1'-0"

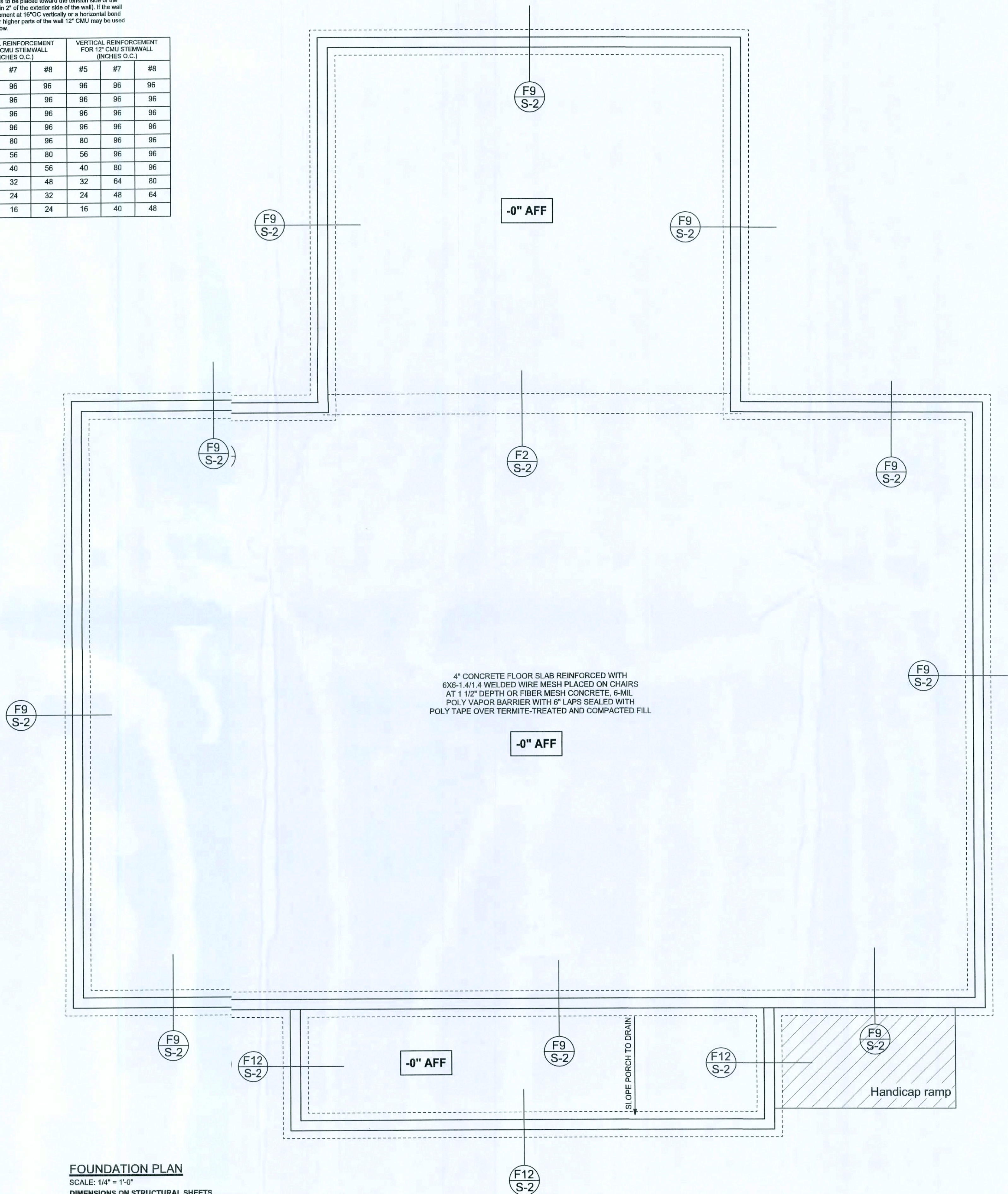


**F2 S-2** INTERIOR BEARING FOOTING  
SCALE: 1/2" = 1'-0"

**TALL STEM WALL TABLE**

The table assumes 60 ksi reinforcing bars with 9" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Duralwall ladder reinforcement at 10" O.C. vertically or a horizontal bond beam with 185 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48



**FOUNDATION PLAN**

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

DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

ENGINEER OF RECORD: Mark Disway, P.E. No. 53915, P.O. Box 868, Lake City, FL 32056, 386-754-5419

DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: These plans and Cover Sheet, Sheet A-4, attached, comply with applicable portions of the Florida Building Code 2004, to the best of my knowledge.

LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements scope of work, and builder responsibilities control.

MARK DISWAY  
P.E. 53915

*Mark Disway*  
28th Nov 08  
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FINALES DATE:  
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JOB NUMBER:  
711186

DRAWING NUMBER  
**S-2**

OF 11 SHEETS



SN-1	ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYP#2 (U.N.O.)
SN-2	ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
SN-3	DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
SN-4	PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEISMIC TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCISI-03, BCISI-B1, BCISI-B2, & BCISI-B3. BCISI-B1, BCISI-B2, & BCISI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

● INDICATES LOCATION OF:  
1ST FLOOR 1/2" A307 ALL THREADED ROD

⊗ INDICATES LOCATION OF:  
2ND FLOOR 1/2" A307 ALL THREADED ROD

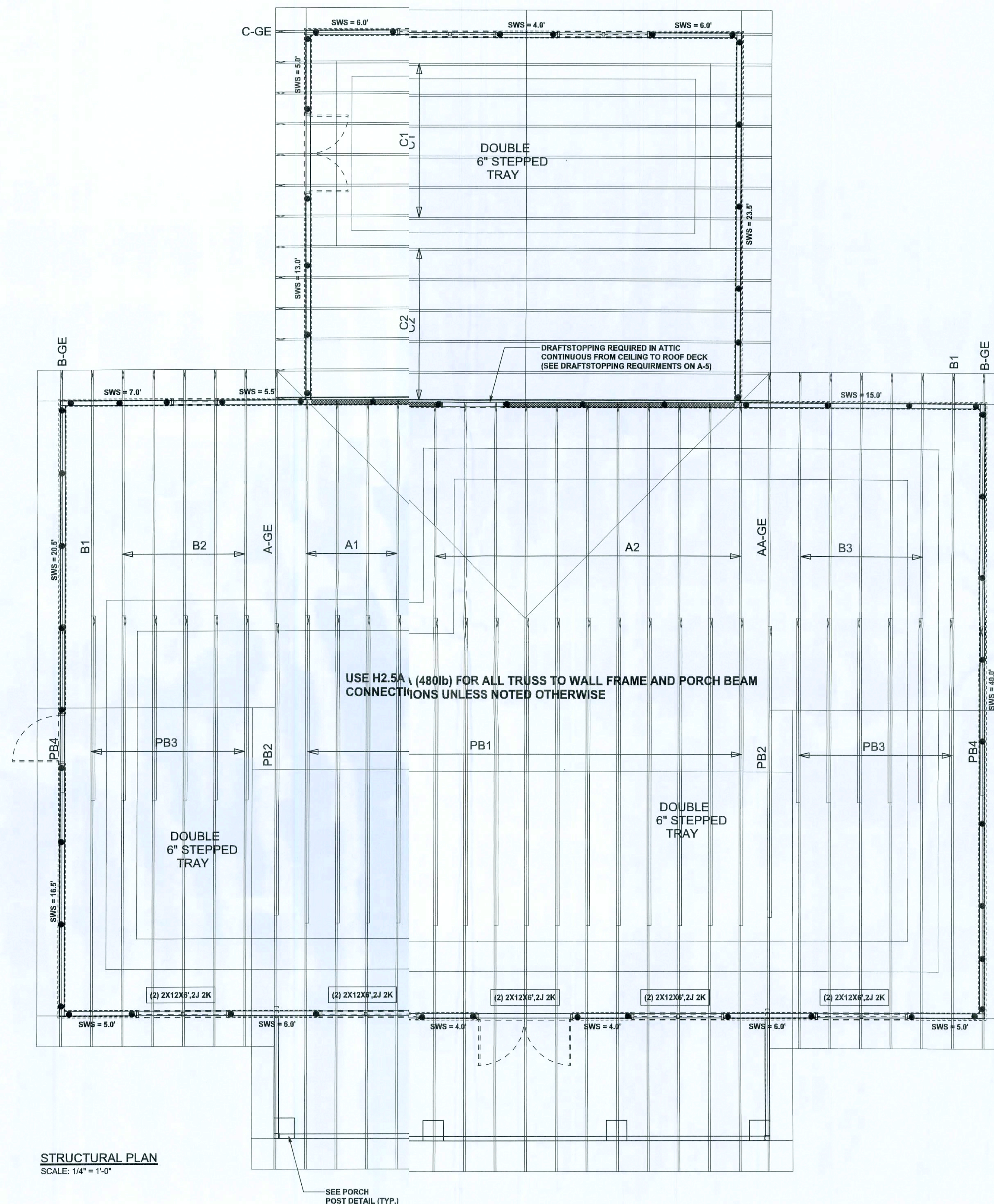
(2) 2X12X0', 1J 1K ← HEADER/BEAM CALL-OUT (U.N.O.)

- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

<p>SWS = 0.0'</p>	1ST FLOOR EXTERIOR WALL
<p>SWS = 0.0'</p>	2ND FLOOR EXTERIOR
<p>IBW</p>	1ST FLOOR INTERIOR BEARING WALL
<p>IBW</p>	2ND FLOOR INTERIOR BEARING WALL

SWS = 0.0' INDICATES SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	33.6'	118.5'
LONGITUDINAL	38.2'	73.5'



META30, 10-104 (1700b)  
(5) NAILS EACH SIDE OF STUD  
(OR STRAP STUD TO HEADER 20-10d)

LTT206, 10-154 (1750b)  
1/2" ANCHOR w/ 8" EMBEDMENT U.N.O. SIMPSON  
AT (MAY BE RECESSED BELOW FINISHED FLOOR)

ALTERNATE WALL TIE CONNECTION WHERE  
THREADED ROD CANNOT BE PLACED IN WALL.  
SCALE: 1/2" = 1'-0"

**ENGINEER OF RECORD:** Mark Disosway,  
PE No. 53915, POB 168, Lake City, FL  
32056, 386-754-549

**DIMENSIONS:**  
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**CERTIFICATION:** These plans and Cover Sheet, Sheet 4-0, attached, comply with applicable portions of the Florida Building Code 2004, to the best of my knowledge.

**LIMITATION:** This design is valid for one building at specified location. In case of conflict structural requirements, scope of work, and builder responsibility control.

MARF DISOSWAY  
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*Handwritten signature*  
28 JAN 08

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FINALES DATE	Jan. 28, 2008
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JOB NUMBER:  
710486

710180
DRAWING NUMBER

S-3

OF 1 SHEETS

CONNECTIONS, WALL, & HEADER DESIGN IS BASED  
ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING  
FURNISHED BY BUILDER. ANDERSON TRUSS  
JOB #7324