GREENDESIGN
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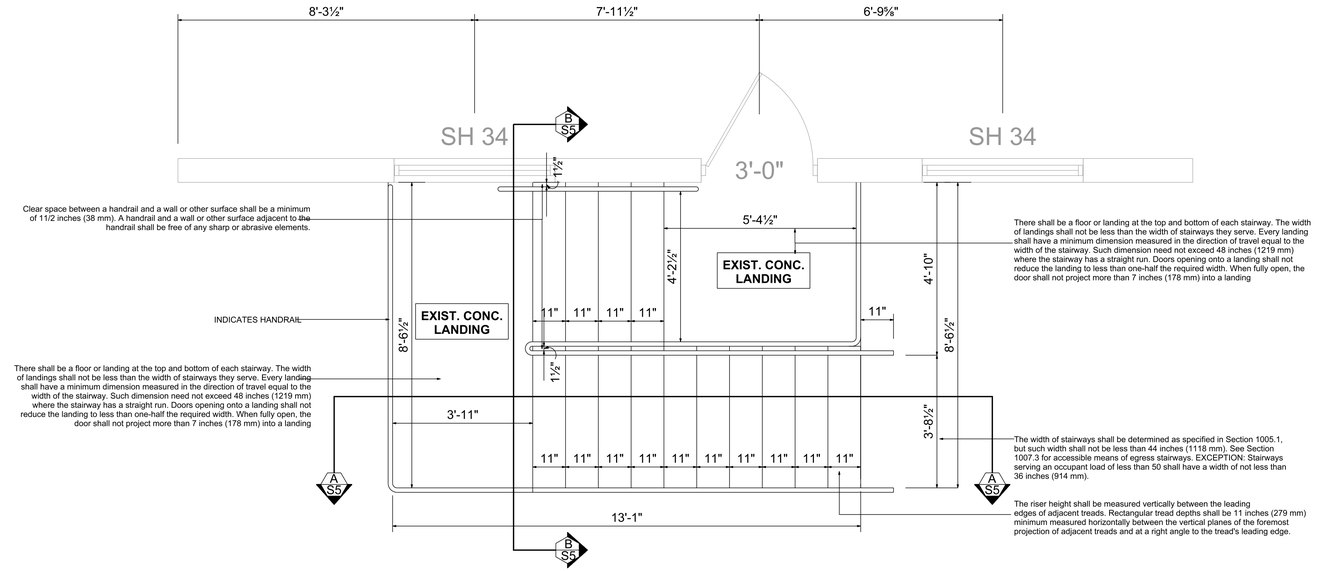
STAIR DATA:
PER FBC 2010, CHAPTER 10

20:	TREADS
20:	RISERS
7":	RISER HEIGHT
11":	TREAD WIDTH
21'-1 1/2":	TOTAL RUN
3'-8 1/2":	STAIR WIDTH



Clear space between a handrail and a wall or other surface shall be a minimum of 11/2 inches (38 mm). A handrail and a wall or other surface adjacent to the handrail shall be free of any sharp or abrasive elements.

INDICATES HANDRAIL

There shall be a floor or landing at the top and bottom of each stairway. The width of landings shall not be less than the width of stairways they serve. Every landing shall have a minimum dimension measured in the direction of travel equal to the width of the stairway. Such dimension need not exceed 48 inches (1219 mm) where the stairway has a straight run. Doors opening onto a landing shall not reduce the landing to less than one-half the required width. When fully open, the door shall not project more than 7 inches (178 mm) into a landing

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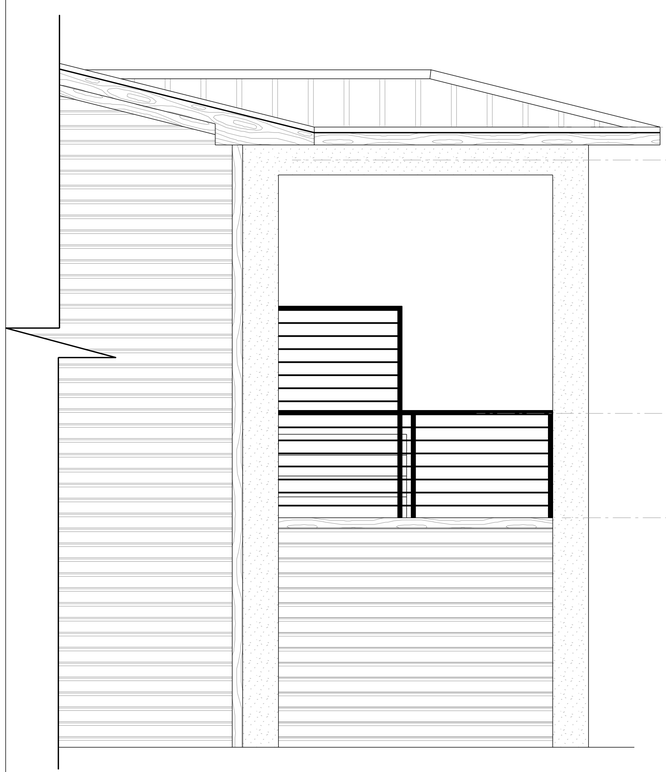
The width of stairways shall be determined as specified in Section 1005.1, but such width shall not be less than 44 inches (1118 mm). See Section 1007.3 for accessible means of egress stairways. EXCEPTION: Stairways serving an occupant load of less than 50 shall have a width of not less than 36 inches (914 mm).

The riser height shall be measured vertically between the leading edges of adjacent treads. Rectangular tread depths shall be 11 inches (279 mm) minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge.

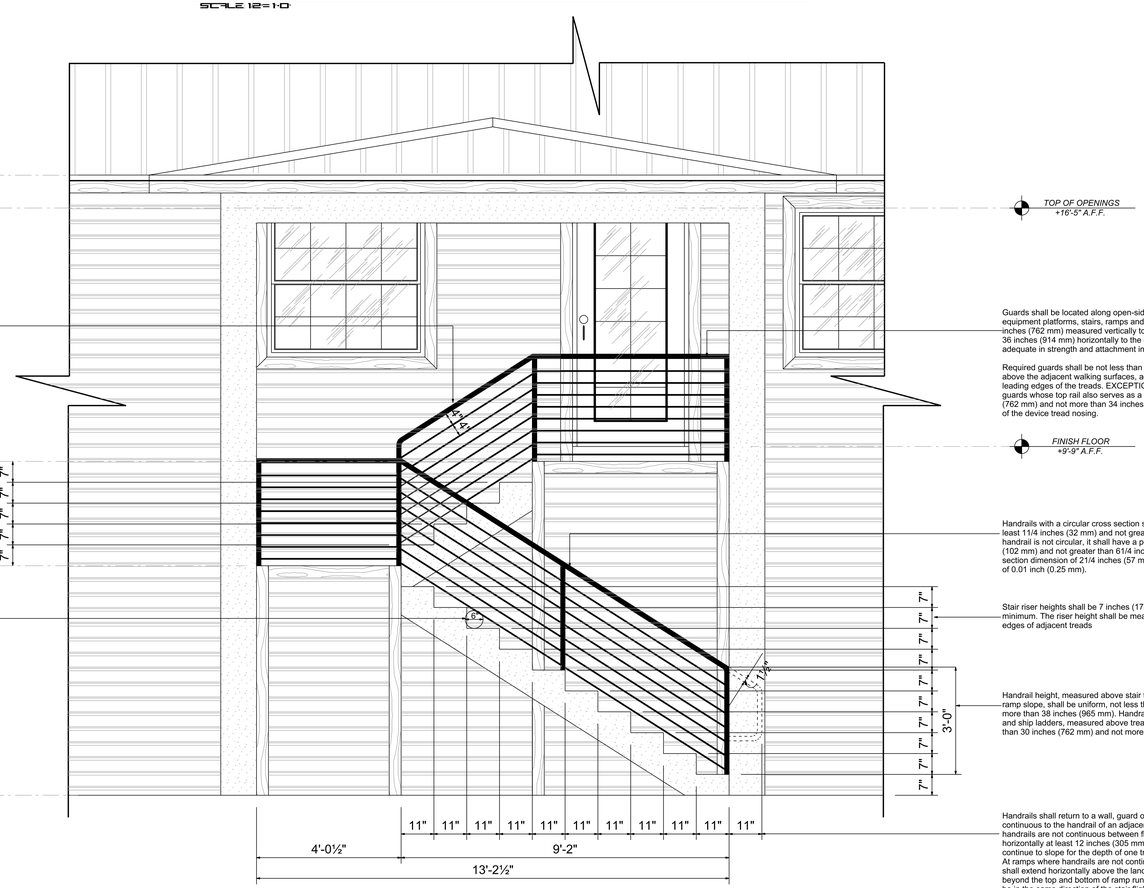
STAIR LAYOUT PLAN VIEW
SCALE 12=1'-0"



Required guards shall not have openings which allow passage of a sphere 4 inches (102 mm) in diameter from the walking surface to the required guard height. The High Velocity Hurricane Zone shall comply with Sections 1618.4.3 and 1618.4.4

The triangular openings at the open sides of a stair, formed by the riser tread and bottom rail shall not allow passage of a sphere 6 inches (152 mm) in diameter

B S5 B S5-5 STAIR DETAILS/NOTES
SCALE 12=1'-0"



Guards shall be located along open-sided walking surfaces, including mezzanines, equipment platforms, stairs, ramps and landings that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Guards shall be adequate in strength and attachment in accordance with Section 1607.7.

Required guards shall be not less than 42 inches (1067 mm) high, measured vertically above the adjacent walking surfaces, adjacent fixed seating or the line connecting the leading edges of the treads. EXCEPTION: Along alternating tread devices and ship ladders, guards whose top rail also serves as a handrail, shall have height not less than 30 inches (762 mm) and not more than 34 inches (864 mm), measured vertically from the leading edge of the device tread nosing.

Handrails with a circular cross section shall have an outside diameter of at least 11/4 inches (32 mm) and not greater than 2 inches (51 mm). If the handrail is not circular, it shall have a perimeter dimension of at least 4 inches (102 mm) and not greater than 61/4 inches (160 mm) with a maximum cross-section dimension of 21/4 inches (57 mm). Edges shall have a minimum radius of 0.01 inch (0.25 mm).

Stair riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum. The riser height shall be measured vertically between the leading edges of adjacent treads

Handrail height, measured above stair tread nosings, or finish surface of ramp slope, shall be uniform, not less than 34 inches (864 mm) and not more than 38 inches (965 mm). Handrail height of alternating tread devices and ship ladders, measured above tread nosings, shall be uniform, not less than 30 inches (762 mm) and not more than 34 inches (864 mm).

Handrails shall return to a wall, guard or the walking surface or shall be continuous to the handrail of an adjacent stair flight or ramp run. Where handrails are not continuous between flights, the handrails shall extend horizontally at least 12 inches (305 mm) beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser. At ramps where handrails are not continuous between runs, the handrails shall extend horizontally above the landing 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. The extensions of handrails shall be in the same direction of the stair flights at stairways and the ramp runs at ramps.

A S5 A S5-5 STAIR DETAILS/NOTES
SCALE 12=1'-0"

WRITTEN DIMENSIONS ON THESE DOCUMENTS SHALL TAKE PRECEDENCE OVER ALL SCALED DIMENSIONS. CONTRACTORS ARE TO VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS, SETBACKS & CONDITIONS AT THE JOB SITE. ENGINEER/DESIGNER SHALL BE NOTIFIED OF ANY VARIATIONS IN DIMENSIONS, SETBACKS AND/OR CONDITIONS BEFORE SAID CONSTRUCTION IS AUTHORIZED. SHOP DRAWINGS SHALL BE MARKED "REVIEWED BY THE ENGINEER/DESIGNER" BEFORE FABRICATION OF PARTS IS APPROVED.

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET DETAILS
-STAIR DETAILS
-STAIR CALCULATIONS
-GENERAL NOTES

REVISION DATE

CLIENT:
MCHARDY INVESTMENTS
432 SE MLK BLVD
STUART, FL 34994
PIN# 04-38-41-013-009-00010-0

PROJECT:
M.C.'S GRILLE
&
OFFICE

DRAWN	S.M.K.
CHECKED	JK
DATE	April 18, 2014
SCALE	AS NOTED
JOB NO.	MCH-2013-48
SHEET	A-5