

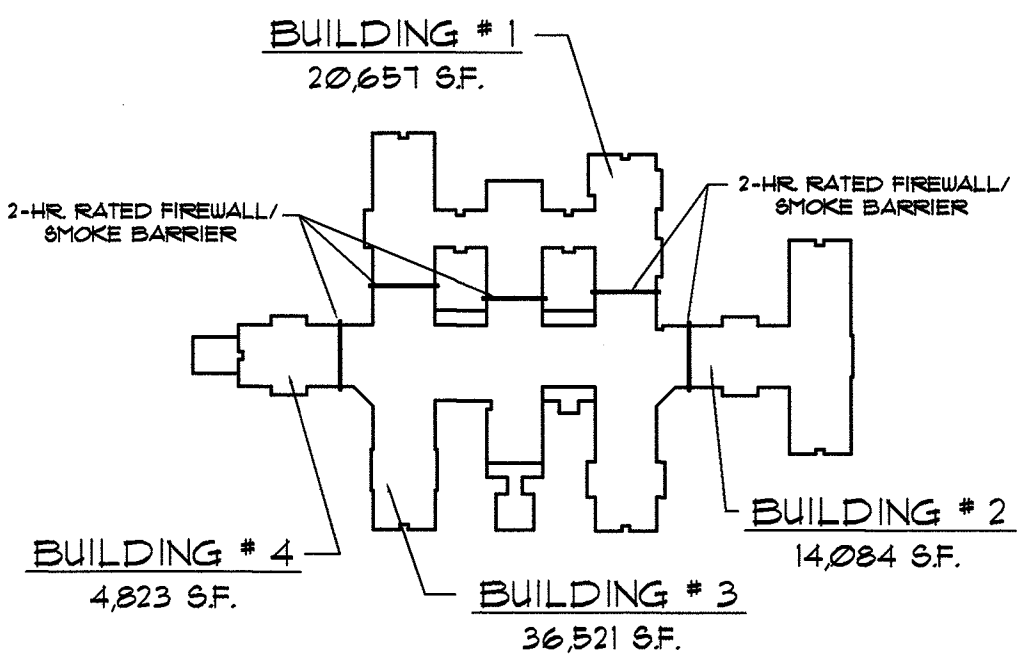
SMOKE COMPARTMENT "A"
20,651 S.F.

OCCUPANCY CALCULATIONS:

BUSINESS - 606 S.F. / 100 S.F. PER PERSON = 6 PEOPLE
 INSTITUTIONAL SLEEPING - 8,575 S.F. / 120 S.F. PER PERSON = 71 PEOPLE
 ACCESSORY STORAGE - 1,718 S.F. / 300 S.F. PER PERSON = 5 PEOPLE
 MECHANICAL EQUIPMENT - 540 S.F. / 300 S.F. PER PERSON = 1 PEOPLE
 KITCHEN - 1,651 S.F. / 200 S.F. PER PERSON = 8 PEOPLE
 LOCKER ROOM (LOUNGE) - 640 S.F. / 50 S.F. PER PERSON = 12 PEOPLE
 TRAINING / EDUCATION - 541 S.F. / 20 S.F. PER PERSON = 27 PEOPLE
 LAUNDRY - 812 S.F. / 100 S.F. PER PERSON = 8 PEOPLE
 TOTAL SMOKE COMPARTMENT "A" OCCUPANCY = 140 PEOPLE

WALL RATING LEGEND

	1-HOUR FIRE / SMOKE BARRIER (1-HR F/S W)
	1-HOUR FIRE BARRIER WALL (1-HR FB W) REQUIRED BY TABLE 605 NCBC
	2-HOUR RATED FIREWALL / (2-HR FW) SMOKE BARRIER
	SMOKE RESISTANT INCIDENTAL WALL (SR W)



SQUARE FOOTAGE BREAKDOWN KEY

SMOKE COMPARTMENT "B"
2,271 S.F.

OCCUPANCY CALCULATIONS:

INSTITUTIONAL SLEEPING - 1,780 S.F. / 120 S.F. PER PERSON = 15 PEOPLE
 TOTAL SMOKE COMPARTMENT "B" OCCUPANCY = 15 PEOPLE

SMOKE COMPARTMENT "G"
4,823 S.F.

OCCUPANCY CALCULATIONS:

INSTITUTIONAL SLEEPING - 3,716 S.F. / 120 S.F. PER PERSON = 31 PEOPLE
 TOTAL SMOKE COMPARTMENT "G" OCCUPANCY = 31 PEOPLE

SMOKE COMPARTMENT "F"
22,145 S.F.

OCCUPANCY CALCULATIONS:

BUSINESS - 3,713 S.F. / 100 S.F. PER PERSON = 37 PEOPLE
 INSTITUTIONAL SLEEPING - 5,984 S.F. / 120 S.F. PER PERSON = 50 PEOPLE
 IN-PATIENT TREATMENT - 3,833 S.F. / 240 S.F. PER PERSON = 16 PEOPLE
 ACCESSORY STORAGE - 1,221 S.F. / 300 S.F. PER PERSON = 4 PEOPLE
 IT EQUIPMENT - 120 S.F. / 300 S.F. PER PERSON = 1 PERSON
 DINING / ASSEMBLY - 1,753 S.F. / 15 S.F. PER PERSON = 117 PEOPLE
 TOTAL SMOKE COMPARTMENT "F" OCCUPANCY = 226 PEOPLE

SMOKE COMPARTMENT "D"
9,134 S.F.

OCCUPANCY CALCULATIONS:

BUSINESS - 108 S.F. / 100 S.F. PER PERSON = 1 PEOPLE
 INSTITUTIONAL SLEEPING - 1,101 S.F. / 120 S.F. PER PERSON = 9 PEOPLE
 ACCESSORY STORAGE - 946 S.F. / 300 S.F. PER PERSON = 3 PEOPLE
 IT EQUIPMENT - 120 S.F. / 300 S.F. PER PERSON = 1 PERSON
 DINING / ASSEMBLY - 2,289 S.F. / 15 S.F. PER PERSON = 152 PEOPLE
 TOTAL SMOKE COMPARTMENT "D" OCCUPANCY = 175 PEOPLE

SMOKE COMPARTMENT "C"
11,813 S.F.

OCCUPANCY CALCULATIONS:

BUSINESS - 484 S.F. / 100 S.F. PER PERSON = 5 PEOPLE
 INSTITUTIONAL SLEEPING - 1,120 S.F. / 120 S.F. PER PERSON = 9 PEOPLE
 ACCESSORY STORAGE - 571 S.F. / 300 S.F. PER PERSON = 2 PEOPLE
 DINING / ASSEMBLY - 635 S.F. / 15 S.F. PER PERSON = 42 PEOPLE
 TOTAL SMOKE COMPARTMENT "C" OCCUPANCY = 112 PEOPLE

SMOKE COMPARTMENT "E"
5,242 S.F.

OCCUPANCY CALCULATIONS:

INSTITUTIONAL SLEEPING - 3,716 S.F. / 120 S.F. PER PERSON = 31 PEOPLE
 TOTAL SMOKE COMPARTMENT "E" OCCUPANCY = 31 PEOPLE

EXIT DISCHARGE CAPACITY:

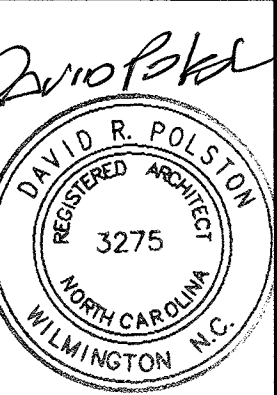
9 EXITS @ 210 PEOPLE = 1,890 PEOPLE
 2 EXITS @ 230 PEOPLE = 460 PEOPLE
 TOTAL EXIT CAPACITY = 2,350 PEOPLE

TOTAL BUILDING OCCUPANCY (NCBC TABLE 1004.1.2)

SMOKE COMPARTMENT	OCCUPANCY (NUMBER OF PEOPLE)
SMOKE COMP. "A"	140 PEOPLE
SMOKE COMP. "B"	15 PEOPLE
SMOKE COMP. "C"	112 PEOPLE
SMOKE COMP. "D"	175 PEOPLE
SMOKE COMP. "E"	31 PEOPLE
SMOKE COMP. "F"	226 PEOPLE
SMOKE COMP. "G"	31 PEOPLE
BUILDING TOTAL OCCUPANCY	733 PEOPLE

NOTE: CLEAR OPENING OF EXIT AT DOUBLE DOOR LOCATIONS IS FOR SINGLE LEAF OF DOOR.

EXIT LOCATION DESIGNATION



HEARTLAND LIVING AND REHABILITATION
Greensboro, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite C, Wilmington, NC 28403
Architecture Planning Design

125 BED FACILITY
 REVISED: 08-13-2016 PER COS MICHAEL SMITH REVIEW

