A. Applicable Codes

1. See Cover Sheet

B. Occupancy

1. Hospital Occupancy Classification: I-2 Hospital (IBC 308.3) and Health Care Occupancy (LSC 6.1.5.1).

2. Specialty Clinic, Rehab, Admin and all of Level 2: Business: Group B (IBC 304.1) and LSC Chapter 38).

C. Type of Construction

1. An automatic sprinkler system will be provided throughout the facility, as required in Health Care Occupancies (IBC 903.2.5) and (LSC 19.3.5.1).

2. Under Type II-B construction, the fire ratings for the various components are as follows under the IBC (Table 601).
- Structural Frame 0 hours
- Bearing Walls 0 hours
- Nonbearing Walls & Partitions 0 hours
- Floor Construction 0 hours
- Roof Construction 0 hours
* Exterior non-bearing walls vary based on fire separation distance, see IBC Table 602

3. Under Type II-B construction, the fire ratings for the various components are as follows under the IBC (Table 601).
- Structural Frame 0 hours
- Bearing Walls 0 hours
- Nonbearing Walls & Partitions 0 hours
- Floor Construction 0 hours
- Roof Construction 0 hours
* Exterior non-bearing walls vary based on fire separation distance, see IBC Table 602

4. Interior wall finishes are required to have a Class A or B material throughout, except in rooms with less than 4 occupants and the lower 4 feet of corridors will allow Class C material (LSC 18.3.3.2).

D. Fire Protection

1. Group I Occupancies shall be provided with automatic sprinkler protection throughout (IBC 903.2.5) and (LSC 18.3.5.1).

2. Healthcare occupancies shall be provided with a fire alarm system (LSC 18.3.4.1).

3. Emergency lighting shall be provided. (LSC 38.2.9.1).

4. Portable fire extinguishers shall be provided in all health care occupancies. (LSC 18.3.5.10).

E. Occupant Load

1. Occupant Load: (IBC Table 1004.1.1 and LSC Table 7.3.1.2).
- Inpatient treatment areas 240 gross SF
- Outpatient areas 100 gross SF
- Sleeping areas 120 gross SF
- Business Use/Offices 100 gross SF
- Accessory storage/mechanical 300 net SF

F. Corridors

1. Corridors shall be separated from other areas by partitions, unless permitted to be open to the corridor by LSC 18.3.6.1(1) thru (5).

2. Corridor walls shall form a barrier to limit the transfer of smoke. The walls shall extend from the floor to the underside of the floor or roof deck above or to the underside of the ceiling above where the ceiling membrane is constructed to limit the transfer of smoke (IBC 407.3) and (LSC 18.3.6.2).

3. Corridor doors, other than those required to be rated as a hazardous area, or for the enclosure of a vertical opening or an exit, shall not have a required fire protection rating and shall not be required to be equipped with self-closing or automatic-closing devices, but shall provide an effective barrier to limit the transfer of smoke and shall be equipped with positive latching (LSC 18.3.6.3).

G. Subdivision of Building Spaces

1. Smoke barriers shall be provided to subdivide every story usad by patients for treatment and to divide other stories with an occupant load of 50 or more persons into at least two smoke compartments. Such stories shall be divided into smoke compartments not exceeding 22,500 SF and the travel distance from any point in a smoke compartment to a smoke barrier door shall not exceed 200 feet (LSC 18.3.7).

2. A 1-hour fire-resistance rating is required for smoke barriers (IBC 710.3).

H. Opening Protection

1. In openings in a smoke barrier for Group I-2, where such doors are installed across corridors, a pair of opposite swinging doors without a center mullion shall be installed having vision panels with approved fire resistance-rated glazing materials in approved fire-resistance-rated frames. The doors shall be close fitting within operational tolerances and shall not have undercuts, louvers or grilles. The doors shall have head and jamb stops, astragals or rabbets at meeting edges and automatic closing devices. Positive-latching devices are not required (IBC 709.5) and (LSC 18.3.7.7).

2. Door closing devices shall be required on doors serving required exits, smoke barriers, or enclosures of vertical openings and hazardous areas (soiled linen and storage rooms) (LSC 18.3.6.3.9).

3. Opening Protective Fire-Protection Ratings (IBC Table 715.4) and (LSC Table 8.3.4.2).
- Fire barriers of 1-hour fire-resistance-rated construction:
- Exit passageway enclosure walls 1-hr min. opening protection assembly
- Other fire barriers ¾ hr min. opening protection assembly
- Corridor enclosure wall of 1-hr rating where required 0.33 hr min. opening protection assembly
- 2-hour fire wall 1 ½ hours min. opening protection assembly

I. Means of Egress

1. Egress width: 0.3 inches per occupant for stairways and 0.2 inches per occupant in other egress components (IBC Table 1005.1 and LSC Table 7.3.3.1).

Required exit width = 421 occupants x 0.2" = 85". Provided exit width = 576".

2. Door encroachment – door openings into the path of egress travel shall not reduce the required width to less than one-half during the course of the swing. When fully open, the door shall not project more than 7 inches into the required width (IBC 1005.2 and LSC 7.2.1.4.4).

3. Ceiling height – the means of egress shall have a ceiling height of not less than 7'-6" (LSC 7.1.5.1).

4. Accessible means of egress shall not be required in health care occupancies protected throughout by an approved, supervised automatic sprinkler system. (LSC 7.5.4.1.3).

5. Exit travel distance to not exceed 200 feet in a fully sprinklered hospital (IBC 1016.1 and LSC 18.2.6.2.3), and 300 feet in a fully sprinklered Business Occupancy (IBC 1016.1 and LSC 38.2.6)

6. A clear door width in a means of egress shall not be less than 32 inches (LSC 7.2.1.2.3). A clear door width in sleeping rooms, diagnostic and treatment areas shall not be less than 41.5 inches for hospitals and nursing homes and 32 inches for psychiatric hospitals and limited care facilities. (LSC 18.2.3.6). Minimum width for patient bedrooms doors – 3'-10" (VA Barrier Free Design).

7. Corridor width may not be less than 44 inches wide in adjunct, nonimpatient use areas and 24 inches wide for access to electrical, mechanical, or plumbing systems or equipment (IBC 1004.3.2.2). Aisles, ramps, main corridors required for exit access in inpatient areas may not be less than 8 feet wide in hospitals (LSC 18.2.3.4).

J. Interior Environment

1. A room is required to have a minimum width of 7'-0", minimum ceiling height in habitable areas of 7'-6", and minimum ceiling height in bathrooms of 7'-0" (IBC 1202).

2. A ceiling height of not less than 2/3 the ceiling area and not less than 6'-8". Headroom on stairs may not be less than 6'-8" (LSC 7.1.5).

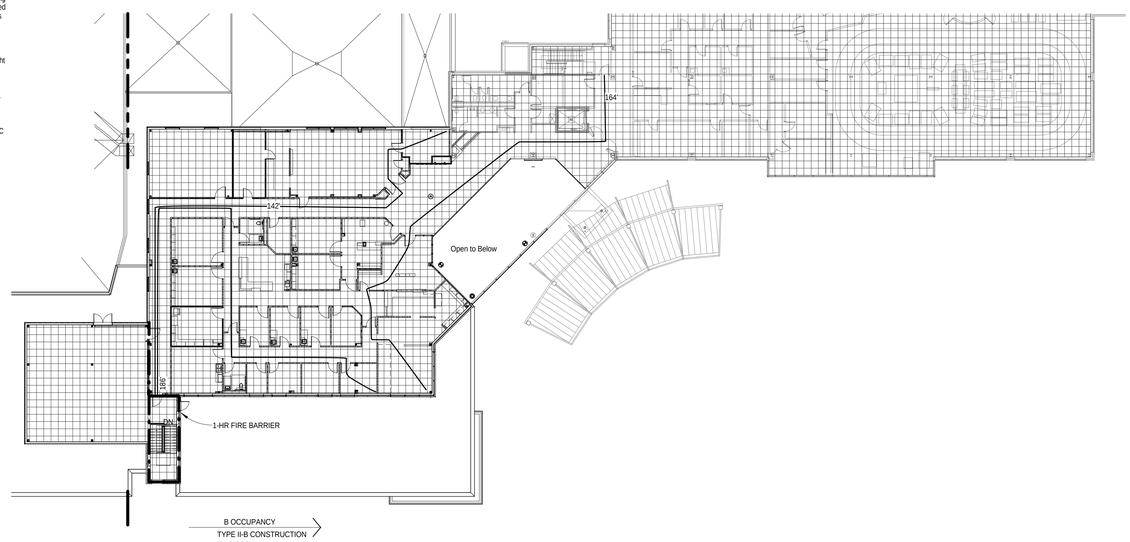
3. Every patient sleeping room shall have an outside window or outside door. (LSC 18.3.8.1) Allowable sill height shall not exceed 36" above the floor. (LSC 18.2.8.2).

K. Hazardous Areas

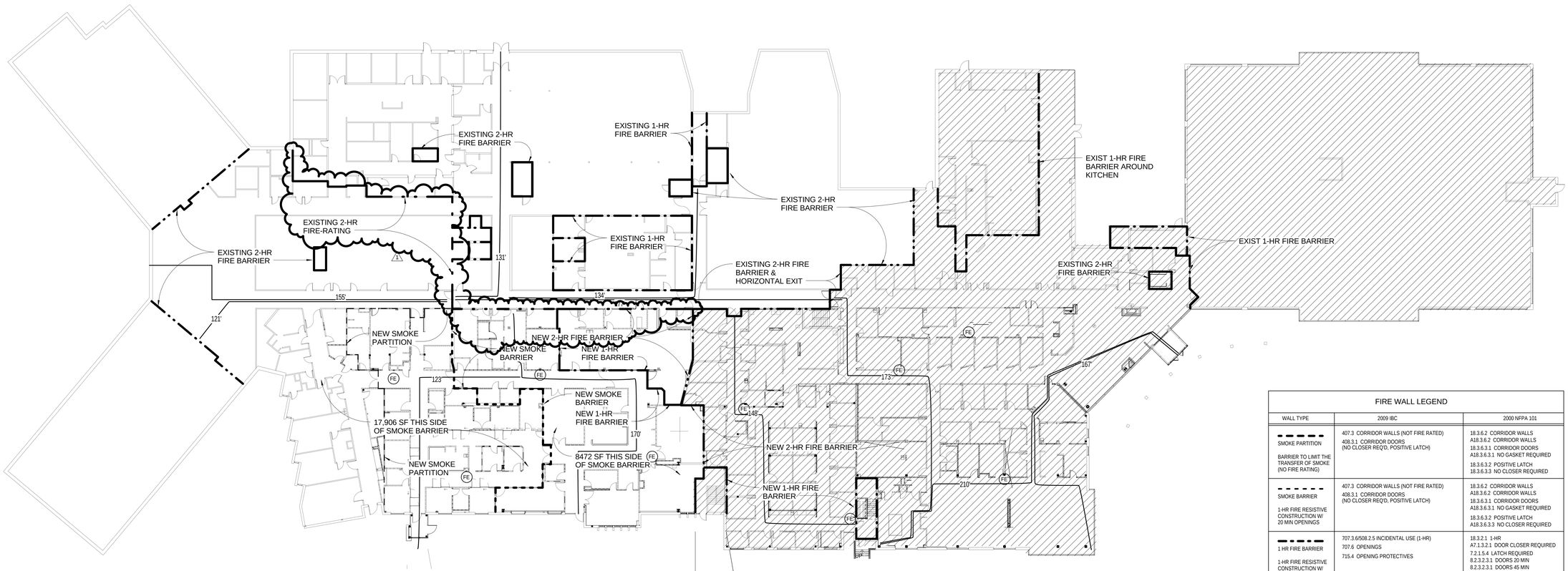
1. According to the IBC (Table 508.2) and LSC (Table 18.3.2.1), a one hour separation is required at the following locations:
Storage Rooms 100+ sq ft
Furnace Rooms, Boiler rooms
Soiled Linen rooms

LEGEND

- SMOKE PARTITION
- SMOKE BARRIER
- 1-HR FIRE BARRIER
- 2-HR FIRE BARRIER / 2-HR FIRE WALL AT OCCUPANCY SEPARATION
- EXIT
- 132' PATH OF TRAVEL WITH DISTANCE



2 LS-1 SECOND FLOOR LIFE SAFETY PLAN
1" = 20'-0"



1 LS-1 FIRST FLOOR LIFE SAFETY PLAN
1" = 20'-0"

I-2 OCCUPANCY	B OCCUPANCY
TYPE II-B CONSTRUCTION	TYPE II-B CONSTRUCTION
ONE-STORY - RENOVATION	TWO STORY - RENOVATION + ADDITION
LEVEL 1 = 63,155 SF	LEVEL 1 = 48,846 SF
RENOVATION ONLY	LEVEL 2 = 29,791 SF
	TOTAL = 78,637 SF

B OCCUPANCY
I-2 OCCUPANCY

FIRE WALL LEGEND

WALL TYPE	2009 IBC	2000 NFPA 101
SMOKE PARTITION BARRIER TO LIMIT THE TRANSFER OF SMOKE (NO FIRE RATING)	407.3 CORRIDOR WALLS (NOT FIRE RATED) 408.3.1 CORRIDOR DOORS (NO CLOSER REQ'D, POSITIVE LATCH)	18.3.6.2 CORRIDOR WALLS A18.3.6.2 CORRIDOR WALLS 18.3.6.3.1 CORRIDOR DOORS A18.3.6.3.1 NO GASKET REQUIRED 18.3.6.3.2 POSITIVE LATCH 18.3.6.3.3 NO CLOSER REQUIRED
SMOKE BARRIER 1-HR FIRE RESISTIVE CONSTRUCTION W/ 20 MIN OPENINGS	407.3 CORRIDOR WALLS (NOT FIRE RATED) 408.3.1 CORRIDOR DOORS (NO CLOSER REQ'D, POSITIVE LATCH)	18.3.6.2 CORRIDOR WALLS A18.3.6.2 CORRIDOR WALLS 18.3.6.3.1 CORRIDOR DOORS A18.3.6.3.1 NO GASKET REQUIRED 18.3.6.3.2 POSITIVE LATCH A18.3.6.3.3 NO CLOSER REQUIRED
1 HR FIRE BARRIER 1-HR FIRE RESISTIVE CONSTRUCTION W/ 45 MIN OPENINGS	707.3.6/508.2.5 INCIDENTAL USE (1-HR) 707.6 OPENINGS 715.4 OPENING PROTECTIVES	18.3.2.1 1-HR A7.1.3.2.1 DOOR CLOSER REQUIRED 7.2.1.5.4 LATCH REQUIRED 8.2.3.2.3.1 DOORS 20 MIN 8.2.3.2.3.1 DOORS 45 MIN 8.2.3.2.3.1 DOORS 60 MIN
2 HR FIRE BARRIER 2-HR FIRE RESISTIVE CONSTRUCTION W/ 90 MIN OPENINGS	707.3.2 VERTICAL EXIT ENCLOSURE (2-HR) 707.3.3 EXIT PASSAGEWAYS (2-HR) 715.4 OPENING PROTECTION (90 MIN)	7.1.3.2 (b) WALLS 2-HR A7.1.3.2.1 DOOR CLOSER REQUIRED 7.2.1.5.4 LATCH REQUIRED 8.2.3.2.3.1 DOORS 90 MIN

ALTUS architectural studios
12925 West Dodge Road
Omaha, NE 68154
Phone: 402.334.2422 Fax: 402.334.9023
altusstudios.com
architecture design planning

Consultants:
SES Specialized Engineering Solutions
10360 Ellison Circle, Omaha, NE 68134
Phone: 402.991.5520
www.specializedeng.com
TD2 engineering & surveying

Contractor:
Sampson Construction

Client:
YORK GENERAL HEALTH CARE SERVICES

Project Title:
HOSPITAL ADDITION AND REMODEL

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JSO	MSL

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LIFE SAFETY PLAN

Sheet Number:
LS-1

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