CROSS GATES ATHLETIC CLUB
SLIDELL LOUISIANA

LIFE-SAFETY INFORMATION

APPLICABLE CODES			
NFPA 101 LIFE-SAFETY CODE 2015			
OCCUPANCY TYPE(S) AND CHAPTER(S)			
ASSEMBLY A-3 (CHAPTER 3)			
OCCUPANT LOAD FACTOR		(REFERENCE TABLE 7.3.1.2)	
BLDG 'A' - ASSEMBLY A-3	50 GROSS - Exercise rooms	1st Flr = 15,526 s.f. / 50 gross = 310	2nd Flr = 14,150 s.f. / 50 gross = 283
BLDG 'B' - ASSEMBLY A-3	50 GROSS - Exercise rooms	1st Flr = 4,894 s.f. / 50 gross = 98	2nd Flr = 2,651 s.f. / 50 gross = 53
BLDG 'C' - ASSEMBLY A-3	50 GROSS - Exercise rooms	1st Flr = 21,605 s.f. / 50 gross = 432	2nd Flr = 12,784 s.f. / 50 gross = 256
CLASSIFICATION OF HAZARD OF CONTENTS			
(REFERENCE: OCCUPANCY CHAPTER AND 6.2.2; SPECIFY LOW, ORDINARY, OR HIGH)			
CONSTRUCTION TYPE= VB (REFERENCE: CHAPTER8, TABLE A.8.2.1.2 AND COMMENTARY TABLE 8.1 IN HANDBOOK)			
MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS			
(REFERENCE: SECTION 7.5; SPECIFY 1/2 OR 1/3 DIAGONAL DISTANCE OF AREA SERVED)			
1/2 DIAGONAL = 47'-8"			
MAXIMUM DEAD-END CORRIDORS		(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)	
20 FEET			
MAXIMUM COMMON PATH OF TRAVEL DISTANCE		(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)	
20 FEET/75 FEET			
MAXIMUM TRAVEL DISTANCE TO EXITS		(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)	
200 FEET			
*MAIN ENTRANCES MUST BE SIGNED TO ACCOMODATE 1/2 OCCUPANT LOAD OF BUILDING			
EXTINGUISHMENT REQUIREMENTS	SPRINKLERED		
DETECTION, ALARM, AND COMMUNICATION SYSTEMS	YES		
ALLOWABLE HEIGHT AND BUILDING AREA	PER IBC EQUIVALENT CONSTRUCTION TYPE		

BUILDING CODE INFORMATION

APPLICABLE CODES			
IBC 2015			
ASSEMBLY GROUP A3		(IBC 2015 CHAPTER 3)	
OCCUPANT LOAD CALCULATIONS		(REFERENCE TABLE 1004.1.2)	
BLDG 'A' - ASSEMBLY A-3	50 GROSS - Exercise rooms	1st Flr = 15,526 s.f. / 50 gross = 310	2nd Flr = 14,150 s.f. / 50 gross = 283
BLDG 'B' - ASSEMBLY A-3	50 GROSS - Exercise rooms	1st Flr = 4,892 s.f. / 50 gross = 99	2nd Flr = 2,651 s.f. / 50 gross = 53
BLDG 'C' - ASSEMBLY A-3	50 GROSS - Exercise rooms	1st Flr = 21,605 s.f. / 50 gross = 432	2nd Flr = 12,784 s.f. / 50 gross = 256
TOTAL OCCUPANTS		Bldg A = 543 ; Bldg B = 152 ; Bldg C = 688	
CONSTRUCTION TYPE(S)		(TABLE 503)	
IIB & VB			

ALLOWABLE HEIGHT AND BUILDING AREA LIMITED BY TYPE OF CONSTRUCTION

MAXIMUM HEIGHT (IBC TABLE 504.3)	MAXIMUM STORIES (IBC TABLE 504.4)	ALLOWABLE AREA FACTOR MULTI STORY SPRINKLED	ALLOWABLE AREA FACTOR MULTI STORY NON-SPRINKLED
BLDG A, SPRINKLED, TYP 2B = 75 FT	BLDG A, SPRINKLED, TYP 2B = 3	SM = 28,500 s.f.	NS = 9,500 s.f.
BLDG B, SPRINKLED, TYP 5B = 60 FT	BLDG B, SPRINKLED, TYP 5B = 2	SM = 18,000 s.f.	NS = 6,000 s.f.
BLDG C, SPRINKLED, TYP 2B = 75 FT	BLDG C, SPRINKLED, TYP 2B = 3	SM = 28,500 s.f.	NS = 9,500 s.f.

WIND SPEED DESIGN REQUIREMENTS

THIS BUILDING SHALL BE DESIGNED WITH IBC SEC 1609 AS A FULLY ENCLOSED BLDG USING THE FOLLOWING INFORMATION:

WIND DESIGN DATA: DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.3 (A), (B), OR (C) DEPENDING ON THE RISK CATEGORY

ULTIMATE WIND SPEED =	141 MPH (IBC FIG 1609C)	NOMINAL WIND SPEED =	Vasd = 109 MPH
RISK FACTOR:	CATEGORY II	SURFACE ROUGHNESS =	B
TOPOGRAPHIC FACTOR =	1	EXPOSURE =	B
INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 TABLE 26.11-1):		± 0.18	
LIVE LOADS (IBC SEC 1607)			
ASSEMBLY FIXED SEATING (IBC TABLE 1607.1):		60 PSF	
PLATFORMS (ASSEMBLY) (IBC TABLE 1607.1):		100 PSF	
LOBBIES (IBC TABLE 1607.1):		100 PSF	
CLASSROOMS (IBC TABLE 1607.1):		40 PSF UNIFORM, 1,000 LB CONCENTRATED	
ROOF LIVE LOADS (IBC TABLE 1607.1):		20 PSF UNIFORM, 300 LB CONCENTRATED	
SNOW LOADS (IBC TABLE 1608):			
GROUND SNOW LOAD (IBC FIG 1608.2):		5 PSF	

FLOOD ZONE INFORMATION

BASED ON THE SURVEY OF THIS PROPERTY BY J.V. BURKES AND ASSOCIATES, INC. THIS PROPERTY IS IN A SPECIAL FLOOD HAZARD AREA. F.I.R.M. COMMUNITY MAP NO 220205 0420 E; REVISED 4/21/99

FLOOD ZONE:	A	BASE FLOOD ELEVATION	17.0 NGVD

ELEVATIONS REFER TO NGVD 1929 DATUM

PROJECT STATISTICS

EXISTING BUILDINGS	YEAR BUILT	CONSTRUCTION TYPE	1st FLOOR GROSS S.F.	2nd FLOOR GROSS S.F.
BLDG A	1997	II B	21,605	10,203
BLDG B		VB	4,894	2,536
BLDG C	2006	IIB	15,526	14,161

Project Synopsis:

Cross Gates Athletic Club has three (3) existing main buildings A, B, & C. Building B is the original building; the newer buildings, A & C, were constructed at a higher elevations due to FEMA flood maps at the time of their construction. Currently the buildings are connected on the first floor via enclosed connectors with stairs that serve the staff & customers to move from building to building without requiring them to exit one building to enter the next. The second floor of Building B is connected to the second floor of building C with stairs; however there is no path from the 2nd floor of building A to the second floor of building B.

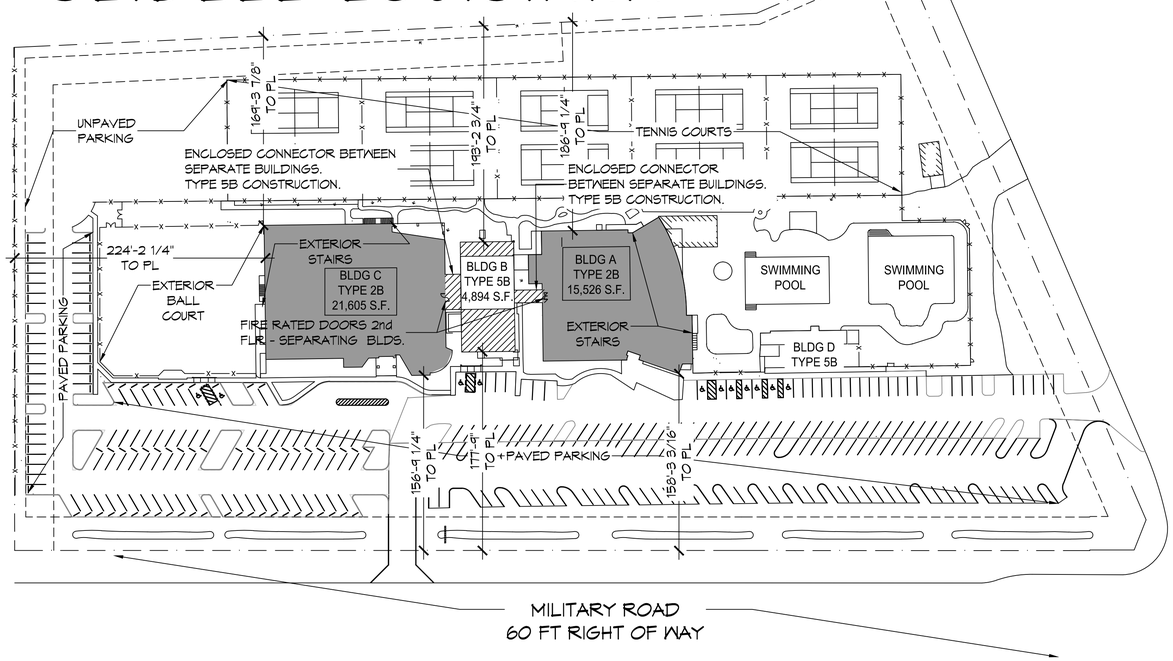
The owner wants to create an open floor such that a person could walk from the 2nd floor of building A thru the 2nd floor of B to the second floor of building C.

Building B is metal building with wood frame construction for interior walls and 2nd floor support. The connector between buildings A & B is constructed of wood frame construction. This project extends building B to the face of buildings A & C.

Each of the buildings at the connection between buildings, will be separated with 2 hour fire rated doors that area magnetically held open and connected to the fire alarm system. All 3 buildings, as well as connectors, are sprinkled and none of the existing Egress routes will be altered during this construction.

PROJECT LOCATION:
200 NORTH MILITARY ROAD
SLIDELL, LA 70460

OWNER:
CROSS GATES ATHLETIC CLUB
LARRY WELCH



1 SITE PLAN
SCALE: 1"=64" = 1'-0"

ALLOWABLE BLDG AREA INCREASE BLDG A

BLDG FULLY SPRINKLED, BLD'G CONSTRUCTION 2B
ASSEMBLY GROUP A-3, SM = 28,500 s.f.; NS = 9,500 s.f.
W = 30 (SHALL NOT EXCEED 30, IBC SEC, 506.3.2)
If = (F/P - 0.25) X W/30 (IBC SEC, 506.3.3)
F= 249.66ft; P= 549.58ft;
If = ((249.66/549.58) - 0.25) X (30/30)
If = 0.20

Aa = [At + (NS x If)] x Sa
Aa = [28,500 + (9,500 X 0.2)] X 2
Aa = 60,800 s.f. / 2 STORIES = 30,400 s.f. Each Floor

ALLOWABLE BLDG AREA INCREASE BLDG B

BLDG FULLY SPRINKLED, BLD'G CONSTRUCTION 5B
ASSEMBLY GROUP A-3, SM = 18,000 s.f.; NS = 6,000 s.f.
W = 30 (SHALL NOT EXCEED 30, IBC SEC, 506.3.2)
If = (F/P - 0.25) X W/30
F= 95.33 ft; P= 292.0 ft
If = ((95.33/292.0) - 0.25) X (30/30)
If = 0.076

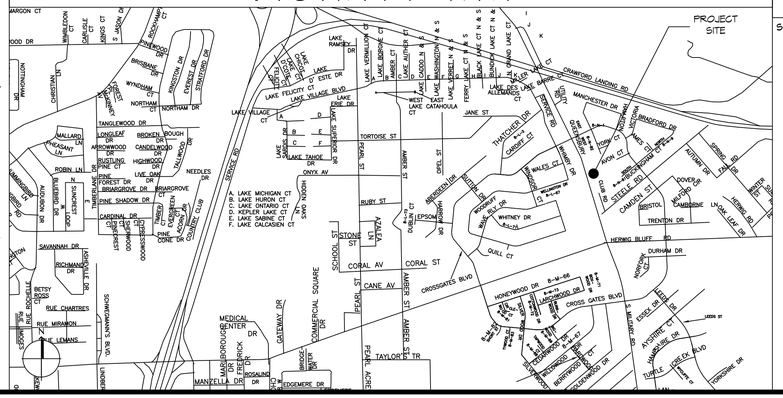
Aa = [At + (At X If) + (At X Is)] x Sa
Aa = [18,000 + (6,000 X 0.076)] X 2
Aa = 36,912 s.f. / 2 STORIES = 18,456 s.f. Each Floor

ALLOWABLE BLDG AREA INCREASE BLDG C

BLDG FULLY SPRINKLED, BLD'G CONSTRUCTION 2B
ASSEMBLY GROUP A-3, SM = 28,500 s.f.; NS = 9,500 s.f.
W = 30 (SHALL NOT EXCEED 30, IBC SEC, 506.3.2)
If = (F/P - 0.25) X W/30 (IBC SEC, 506.3.3)
F= 494.66 ft; P= 599.75 ft;
If = ((494.66/599.75) - 0.25) X (30/30)
If = 0.575

Aa = [At + (NS x If)] x Sa
Aa = [28,500 + (9,500 X 0.575)] X 2
Aa = 67,925 s.f. / 2 STORIES = 33,962 s.f. Each Floor

VICINITY MAP



SHEET INDEX

SHEET #	SHEET TITLE
G001	GENERAL PROJECT, LIFE-SAFETY, AND BUILDING CODE INFORMATION
G002	ACCESSIBILITY INFORMATION
D001	2nd FLOOR BLDG A & B - DEMO PLAN
S101	PARTIAL FLOOR FRAMING PLAN
S102	CONNECTOR BLDG A TO BLDG B FLOOR AND STAIRS
S601	TYPICAL CONNECTION DETAILS-SCHEDULES & NOTES
A101	FLOOR PLANS
A102	BLDG A - B CONNECTOR ELEVATIONS AND ROOF PLAN

GENERAL NOTES

1. ALL MATERIALS AND WORK, INCIDENTAL TO THE CONSTRUCTION OF THIS PROJECT, SHALL CONFORM TO ALL GOVERNING CODES, AND REGULATIONS OF AGENCIES IN AUTHORITY.
2. CONTRACTOR SHALL PROVIDE ALL PUBLIC PROTECTIONS NECESSARY AS REQUIRED BY LAW.
3. THE DRAWINGS, SPECIFICATIONS AND ANY SUBSEQUENTLY ISSUED ADDENDA, AMENDMENTS OR SUCH CHANGE ORDERS APPROVED BY THE OWNER AND THE CONTRACTOR ARE PART OF THESE CONTRACT DOCUMENTS.
4. DO NOT SCALE DRAWINGS. CONSULT WITH THE ARCHITECT REGARDING ANY ITEMS IN THE CONTRACT DOCUMENTS THAT REQUIRE CLARIFICATION.
6. TRASH SHALL BE REMOVED FROM THE SITE NOT LESS THAN TWICE MONTHLY.
7. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
8. CONTRACTOR VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION MAY BE PARKED ON THE SITE. OTHER VEHICLES PARKED ON THE SITE REQUIRE THE OWNER'S PERMISSION.
10 NAMING A CERTAIN BRAND, MAKE OR MANUFACTURER IS TO DESIGNATE THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY STANDARD OF THE PRODUCT DESIRED. SUBSTITUTION REQUESTS MUST BE SUBMITTED PRIOR TO BIDDING.
11. ALL MATERIALS/EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. WORK NOT CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS WILL BE REJECTED BY OWNER/ARCHITECT.

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

#	DESCRIPTION	DATE
	REVISIONS	

SEAL:

STAIR ADDITION
CROSSGATES ATHLETIC CLUB
200 NORTH MILITARY ROAD
SLIDELL, LA

JOB No:	2321	DATE:	10-27-17
DRAWN BY:	JTL	CHECKED BY:	JMS

This document is the property of Dammon Engineering, and may not be reproduced or transmitted in any form or by any means, electronic or mechanical, without permission of Dammon Engineering. It is loaned for limited purpose and must be returned on request. It is not to be used for any other purpose than that for which it is specifically furnished by Dammon Engineering. Reproducing, copying or otherwise using this document in part or in whole or distributing it to others for such purposes is prohibited. Only the owner for whom Dammon Engineering has prepared this document is authorized to use it for the purpose for which it was prepared and must retain all copies on request of Dammon Engineering.

SHEET TITLE:
GENERAL PROJECT, LIFE-SAFETY, AND BUILDING CODE INFORMATION

DRAWING NUMBER:
G001

SHEET No: 1 of 8