

CODE ANALYSIS

MINIMUM STANDARD CODES			
IBC - INTERNATIONAL BUILDING CODE	2012 EDITION W/ GEORGIA AMENDMENTS		
IFGC - INTERNATIONAL FUEL GAS CODE	2012 EDITION W/ GEORGIA AMENDMENTS		
IMC - INTERNATIONAL MECHANICAL CODE	2012 EDITION W/ GEORGIA AMENDMENTS		
IPC - INTERNATIONAL PLUMBING CODE	2012 EDITION W/ GEORGIA AMENDMENTS		
NATIONAL ELECTRICAL CODE	2017 EDITION W/ GEORGIA AMENDMENTS		
INTERNATIONAL FIRE CODE	2012 EDITION W/ GEORGIA AMENDMENTS		
INTERNATIONAL ENERGY CONSERVATION CODE	2009 EDITION W/ GEORGIA AMENDMENTS		
ADA STANDARDS FOR ACCESSIBLE DESIGN	2010 EDITION W/ GEORGIA AMENDMENTS		
NFPA - 101 LIFE SAFETY CODES	2012 EDITION W/ GEORGIA AMENDMENTS		

REVIEW PER DESIGN			
NON SEPARATED OCCUPANCY (IBC CHAPTER 3, NFPA 101 CHAPTER 6)			
IBC	<u>B</u>	NFPA	<u>BUSINESS</u>

TYPE OF CONSTRUCTION (IBC CHAPTER 6, NFPA 101 CHAPTER 6)			
SPRINKLER REQUIRED (IBC CHAPTER 9, NFPA CHAPTER 7)	IBC	<u>VB</u>	NFPA
YES	<u>NO</u>	X	LESS THAN 300 OCCUPANTS
SPRINKLER PROVIDED	YES	X	NO

BUILDING FLOOR AREA ALLOWED PER FLOOR (IBC TABLE 503 & SECTION 506.4)			
1ST FLOOR ALLOWED	14,000 SF	BY DESIGN	10,886 SF
TOTAL ALLOWED	14,000 SF	BY DESIGN	10,886 SF

BUILDING HEIGHT (IBC TABLE 503)			
HEIGHT ALLOWED	60'-0"	3 STORIES	
HEIGHT BY DESIGN	24'-0"	TO RIDGE OF ROOF	1 STORY

OCCUPANT LOAD (IBC SECT. 1004 & TABLE 1004.1.2, NFPA T-7.3.1.2)			
BUSINESS (B) - 5,300 SF / 100SF PER PERSON	=	53 OCCUPANTS	
RESIDENTIAL (R-2) - 512 SF / 200SF PER PERSON	=	5 OCCUPANTS	
STORAGE (S-2) - 4,629 SF / 300SF PER PERSON	=	16 OCCUPANTS	
TOTAL		74 OCCUPANTS	

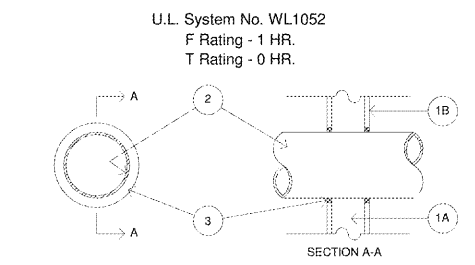
REQUIRED MEANS OF EGRESS			
PER NFPA 101: 74 PEOPLE * .2" PER PERSON	=	14.8"	
EGRESS CAPACITY PROVIDED: 7 * 34"	=	238"	

TRAVEL DISTANCES			
COMMON PATH (IBC 1014.3, NFPA T-A7.6)	75 FT		
DEAD END (IBC 1018.4, NFPA T-A7.6.1)	20 FT		
TRAVEL DISTANCE (IBC T-1016.2, NFPA A7.6.1)	200 FT		

FIRE RESISTANCE RATING REQUIRED (IBC TABLE 601, NFPA TABLE A-8.2.1.2)			
STRUCTURAL FRAME	IBC	0 HR	NFPA
BEARING WALLS			
EXTERIORS	IBC	0 HR	NFPA
INTERIORS	IBC	0 HR	NFPA
NONBEARING WALLS & PARTITIONS			
EXTERIORS	IBC	0 HR	NFPA
INTERIORS	IBC	0 HR	NFPA
FLOOR CONSTRUCTION	IBC	0 HR	NFPA
ROOF CONSTRUCTION	IBC	0 HR	NFPA
REQUIRED SEPARATION OF OCCUPANCIES (IBC T-508.4, NFPA T-6.1.14.4.1)	IBC	0 HR	NFPA
NON SEPARATED OCCUPANCIES	IBC	0 HR	NFPA

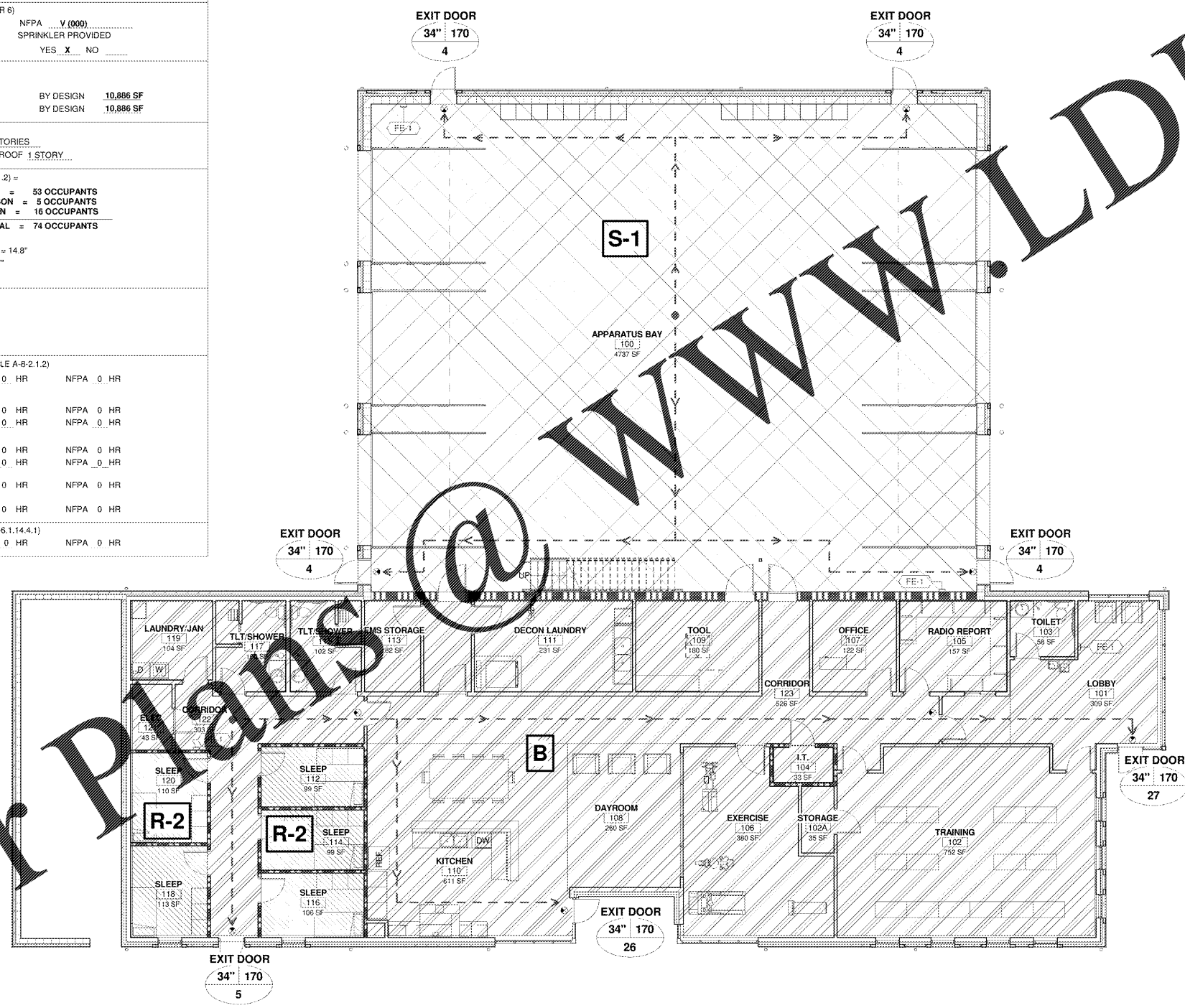
LIFE SAFETY PLAN LEGEND

	EGRESS TRAVEL PATH: DISTANCE NOTED IS ACTUAL
	ROOM AREA
	OCC OCCUPANCY LOAD FACTOR AND METHOD
	EXIT DOOR
	68" 340 EXIT CAPACITY (DOOR EGRESS WIDTH / 0.2)
	299 ANTICIPATED LOAD
	EGRESS WIDTH
	HO HOLLUP DOOR
	PD PANIC DEVICE
	FE-1 FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER
	EXIT SIGN
	1 HR RATED WALL UL U465 - METAL STUD
	2 HR RATED WALL UL U421 - METAL STUD
	2 HR RATED WALL CMU WALL UL U905

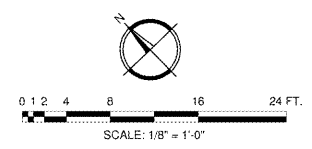


- WALL ASSEMBLY**
The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall Partition Designs in the U.L. Fire Resistance Directory and shall include the following construction features:
 - STUDS**
Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2x4 in. lumber spaced 16 in. OC. Steel studs to be min. 2-1/2 in. wide and spaced max. 24 in. OC.
 - WALLBOARD, GYPSUM***
One layer of 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max. diam. of opening is 12 in.
- THROUGH PENETRANTS**
One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. An annular space of min. 1/4 in. to max. 1-1/4 in. is required within the firestop system. The following types and sizes of metallic pipes, conduit or tubing may be used:
 - STEEL PIPE**
Nom. 10 in. diam. (or smaller) Schedule 10 (or heavier) steel pipe
 - CONDUIT**
Nom. 4 in. diam. (or smaller) steel electrical metallic tubing or steel conduit.
 - COPPER TUBING**
Nom. 4 in. diam. (or smaller) Type L (or heavier) copper tubing.
 - COPPER PIPE**
Nom. 4 in. diam. (or smaller) Regular (or heavier) copper pipe.
- FILL, VOID OR CAVITY MATERIAL* - SEALANT**
Min. 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of the wall.
Hilti Construction Chemicals, Inc. - FS601 Sealant
* Bearing the UL Classification Marking.

UL WALL PENETRATION
SCALE: 1/2" = 1'-0"



LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



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CLIENT: AUGUSTA, GA
535 TELFAIR STREET, AUGUSTA, GA 30901

PROJECT NAME: FIRE STATION #20

PROJECT LOCATION: 2820 OLD HIGHWAY 1, HEPHIZBAH, GA 30815

ISSUED FOR BID	BY	DATE	DESCRIPTION
0	12/17/18		

PROJECT NO.	3042.1604
DRAWN BY:	JAP/CBW
CHECKED BY:	WLD
DATE:	8/10/18
SHEET TITLE:	CODE ANALYSIS / LIFE SAFETY PLAN
SCALE	AS NOTED
DRAWING NO.	G-002
REV:	0

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