



GREEN DASHED LINE INDICATES THE LOCATION OF THE DELUGE SYSTEM WE PROPOSE AS AN EQUIVALENT SOLUTION TO MEET THE 3-HOUR WALL ASSEMBLY RATING BASED UPON IBC 2012 - SECTION 507.5.

IBG 2012
507.5 REDUCED OPEN SPACE
THE PUBLIC WAYS OR YARDS OF 60' IN WIDTH REQUIRED IN SECTIONS 507.2, 507.3, 507.4, 507.6, AND 507.11 SHALL BE PERMITTED TO BE REDUCED TO
NOT LESS THAN 40'-0" IN WIDTH PROVIDED ALL OF THE FOLLOWING REQUIREMENTS ARE MET:

1. THE REDUCED WIDTH SHALL NOT BE ALLOWED FOR MORE THAN 75% OF THE PERIMETER OF THE BUILDING.

TOTAL PERIMETER: 1671 L.F.
 LENGTH OF NORTH WALL: 481'-8" L.F.
 LENGTH OF SOUTH WALL: 120'-8" L.F.
 TOTAL WALL LENGTH CONSIDERED: 602'-4" L.F.

CALCULATIONS: $602.4 / 1671 = .359$
 $.359 * 100 = 35.9$

PERCENTAGE OF NORTH & SOUTH WALL RATIO: 36% < 75% (OK)

2. THE EXTERIOR WALLS FACING THE REDUCED WIDTH SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 3-HOURS.

INSTALL A DELUGE SYSTEM ALONG THE ENTIRE LENGTH OF THE NORTH WALL AND A PORTION OF THE SOUTH WALL. THE DELUGE SYSTEM WOULD BE AN EQUIVALENT SOLUTION FOR THE 3-HOUR RATED ASSEMBLY.

3. OPENINGS IN THE EXTERIOR WALLS FACING THE REDUCED WIDTH SHALL HAVE OPENING PROTECTIVES WITH A FIRE PROTECTION RATING OF NOT LESS THAN 3-HOURS.

A. THE DELUGE SYSTEM WOULD PROTECT ALL WINDOW OPENINGS IN THE NORTH WALL AND PARTIAL SOUTH WALL IN-LIEU OF PROTECTIVE DEVICES.

B. ALL DOORS ALONG THE NORTH WALL & SOUTH WALL WILL HAVE A 3-HOUR RATING.

THE REFERENCE TO A DELUGE SYSTEM SHALL BE DEFINED AS LARGE DROPLET SPRINKLER SYSTEM. THE HEAD WOULD BE FUSED AND ONLY THE HEADS EFFECTED BY FIRE AND HEAT WOULD ACTIVATE. THE SYSTEM WILL BE A WET PIPE SYSTEM. THE LARGE DROPLET HEADS WILL ALLOW FOR THE WATER TO COST THE WALL SURFACE INCLUDING WINDOWS AND DOOR OPENINGS.



10/02/19

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2019
GENESIS HEALTH CLUBS
WESTROADS
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DRAWINGS ISSUED			
NO.	DATE	ITEM	ISSUED
20	10/02/19	ADDENDUM 2	
14	04/04/19	BID SET	
18	04/03/19	CODE REVIEW	
17	08/26/19	CODE REVIEW	
16	08/31/19	CODE REVISIONS	
15	06/17/19	CODE REVISIONS	
14	04/22/19	PLAN REVIEW	
13	02/18/19	REVIEW	
12	01/24/19	REVIEW	
11	01/08/19	REVISIONS	
10	12/19/18	REVIEW	
9	11/27/18	REVIEW	

COMPUTER DRAWING
GOE_CODE_5.dwg

DATE: APRIL 2019	
DRAWN BY:	CHECKED BY:
MH, CH, JC, MB	MRH

Code ^{SHEET}
5
OF - SHEETS