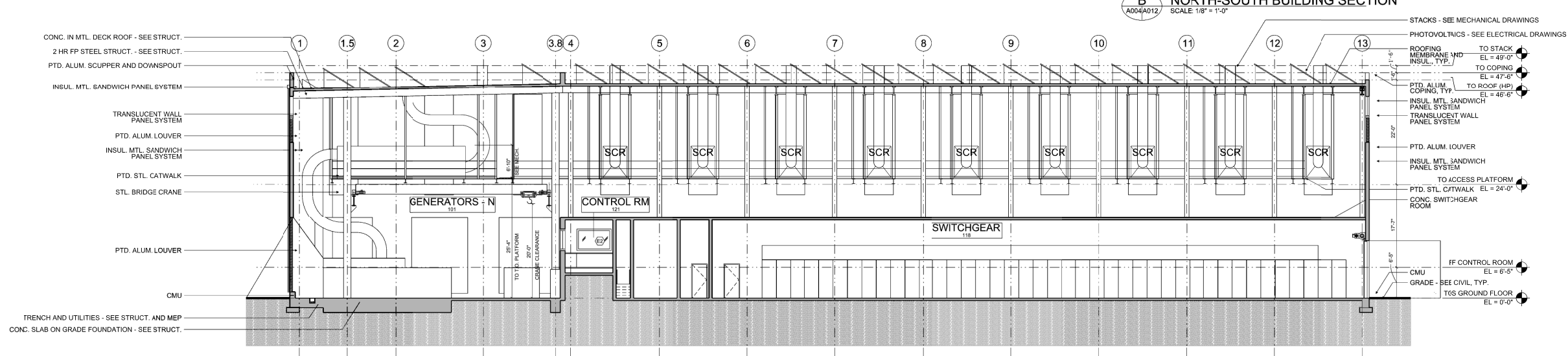
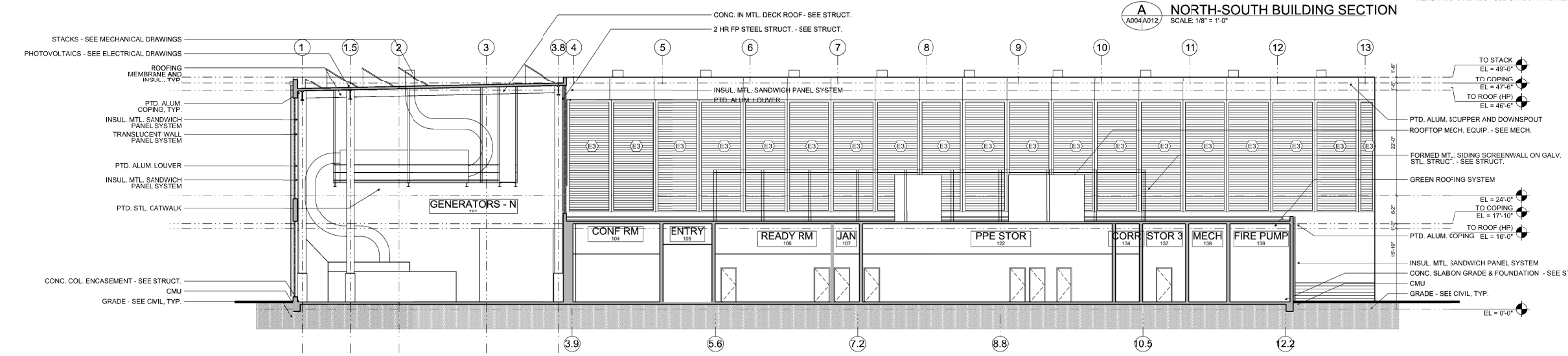
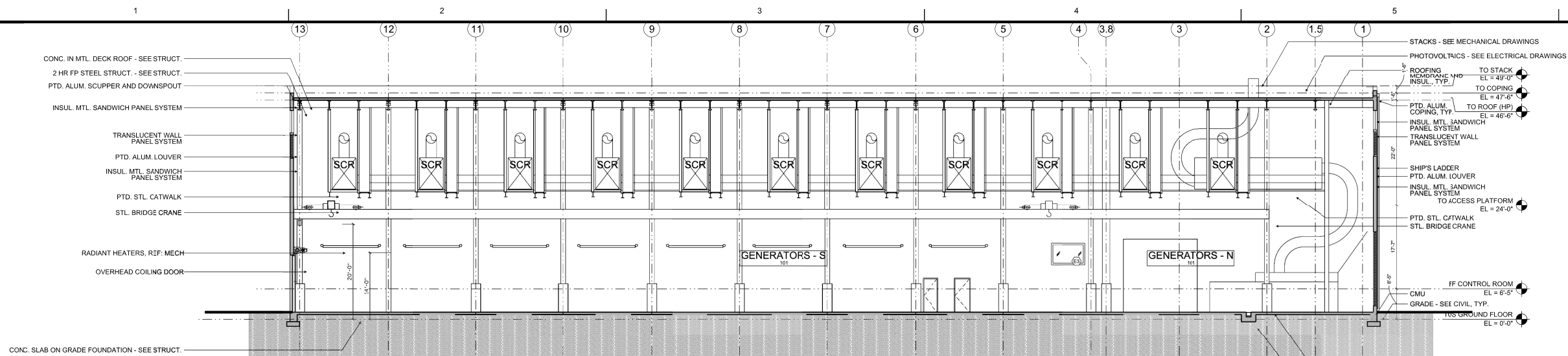




Leo Daly - Ft Meade Power Plant

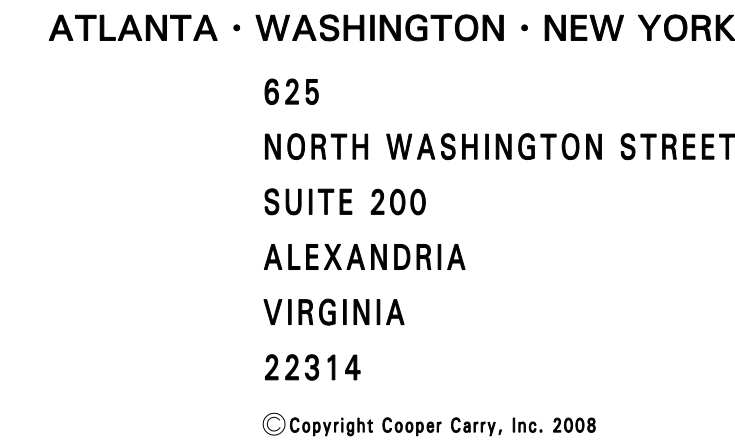


Leo Daly - Ft Meade Power Plant

US Army Corps of Engineers
Hydrologic Engineering Center
ANAPOLIS, MARYLAND
URS | Leo Daly

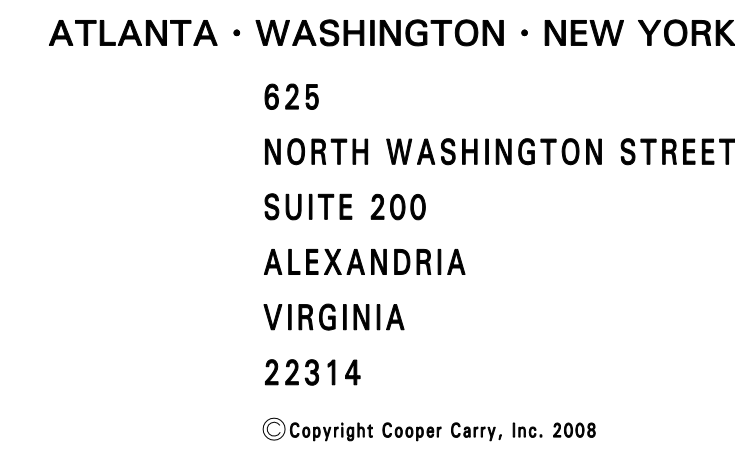
DESIGNED BY: T. D. DUFFY
CHECKED BY: T. D. DUFFY
DATE: JUL 30, 2009
PROJECT: D017 - SOUTH CAMPUS ELECTRICAL UTILITY PLANT
BUILDING SECTIONS
GENERATOR BUILDING
SHEET 087 OF 468
A-012

1/8"=1'-0" 0' 2' 4' 8' 16' 24'

[illegible]

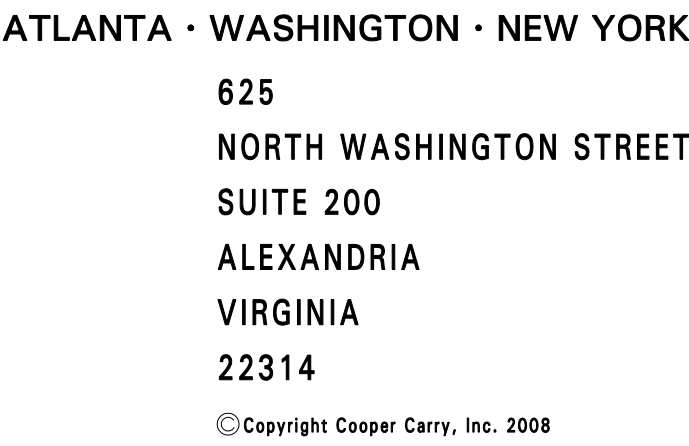
OTO Development

DAVID W. KITCHENS
 Principal-in-Charge
 ROB UHRIN
 Project Manager
 --
 Project Architect
 --
 Project Designer
 --
 --
 Drawing By
 --
 File Path
 --
 File Plot Date

[illegible]

OTO Development

DAVID W. KITCHENS	206009
Principal-in-Charge	Project No.
ROB UHRIN	AS NOTED
Project Manager	Scale
--	06.26.07
Project Architect	Date
--	
Project Designer	A6.22
--	
Drawn By	Drawing No.
--	
File Path	
--	
File Plot Date	



Dulles Station
Sheraton
Herndon, Virginia
●
OTO Development

DAVID W. KITCHENS	206009
Principal-in-Charge	Project No.
ROB UHRIN	AS NOTED
Project Manager	Scale
--	06.26.07
Project Architect	Date
--	
Project Designer	
--	
Drawing By	Drawing No.
--	
File Path	
--	
File Plot Date	

Diagram illustrating the cross-section of a shaft enclosure, showing the following components and labels:

- PRECAST CONCRETE PLANK (SEE STRUCTURAL)
- STRUCTURAL BEAM (SEE STRUCTURAL)
- SPRAY-ON FIREPROOFING
- CONTINUOUS 14 GA. STEEL PLATE
- SHAFT ENCLOSURE TO UNDERSIDE OF STEEL BEAM W/ J-RUNNER @ TOP
- TUBE STEEL BEYOND (SEE STRUCTURAL)
- 5/8" CYP. BD. OVER METAL STUD FRAMING

Architectural drawing of a steel column section. The drawing shows a central steel column (hatched) surrounded by a concrete or masonry enclosure (stippled). The overall dimensions are 1'-11 3/4" wide and 2'-0" high. The width is divided into 11 7/8" and 11 7/8" sections. The height is divided into 1'-2 3/4" and 9 1/4" sections. Callouts indicate: 5/8" GYP BOARD OVER METAL STUD FRAMING (TYP), STEEL COLUMN - REFER TO STRUCTURAL STEEL SCHEDULE FOR SIZE, and SPRAY ON FIREPROOFING. A dimension of 0 3/4" is shown at the bottom right.

1 HOUR WALL - 478

CMU SHEAR WALL
(10" X 8" X 16")

The diagram shows a cross-section of a wall assembly. A central vertical element is labeled 'CMU SHEAR WALL (10" X 8" X 16")'. It is flanked by two horizontal sections labeled '1 HOUR WALL - 478'. The assembly is shown within a larger structural frame, with various layers and materials indicated by different hatching patterns.

Architectural section drawing of a building corner, showing fireproofing details. The drawing includes a steel column, walls, and various fireproofing materials like Gyp Board and spray-on fireproofing. Callouts identify these materials and their specifications.

- 5/8" GYP BOARD OVER METAL STUD FRAMING (TYP)
- STEEL COLUMN - REFER TO STRUCTURAL STEEL SCHEDULE FOR SIZE
- SPRAY ON FIREPROOFING
- 1-HOUR WALL - C478S
- 2 1/8"
- 1-HOUR WALL - C478S

5

1'-11 7/8"

1'-0"

11 7/8"

2'-0"

1'-0"

1'-0"

5/8" GYP BOARD OVER METAL STUD FRAMING (TYP)

STEEL COLUMN - REFER TO STRUCTURAL STEEL SCHEDULE FOR SIZE

SPRAY ON FIREPROOFING

C

E3

Diagram illustrating the cross-section of a fire-rated shaft enclosure, showing the following components and materials:

- FURRING WALL - C258
- 1 HOUR WALL - C258
- SPRAY ON FIREPROOFING
- CMU SHEAR WALL (12"x8"x16")
- STEEL COLUMN - REFER TO STRUCTURAL STEEL SCHEDULE FOR SIZE
- NON-RATED SHAFT ENCLOSURE - 318
- FURRING WALL - 414
- CERAMIC TILE OVER WATERPROOF MEMBRANE OVER GYPSUM BOARD

2

9"

2"

T=0"

118

5/8" GYP BOARD OVER
METAL STUD FRAMING
(TYP)

1 HOUR WALL - C512S

FURRING WALL - 2

CMU SHEAR WALL

1 HOUR WALL - C512S

E

01 1 HR / 2 HR INTERSECTION @ EXIT CORRIDOR
A6.23 SCALE: 1 1/2" = 1'-0"

GROUND LEVEL (LEVEL 1)	
OCCUPANT LOAD	1630*
EXIT CAPACITY	4780
*(EXCLUDING POOL DECK)	



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703-519-6152
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SCOPE DOCUMENTS

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	Design Development Submission	08/08/08
	Schematic Design	03/18/08
No.	Drawing Issue Description	Date

Westheimer Road
Renaissance Club Sport
Houston, TX

RENAISSANCE®
Club Sport®
HOTEL • FITNESS • SPA

Principal-in-Charge	Project No.
ROB UHRIN	08/08/08
Project Manager	Date

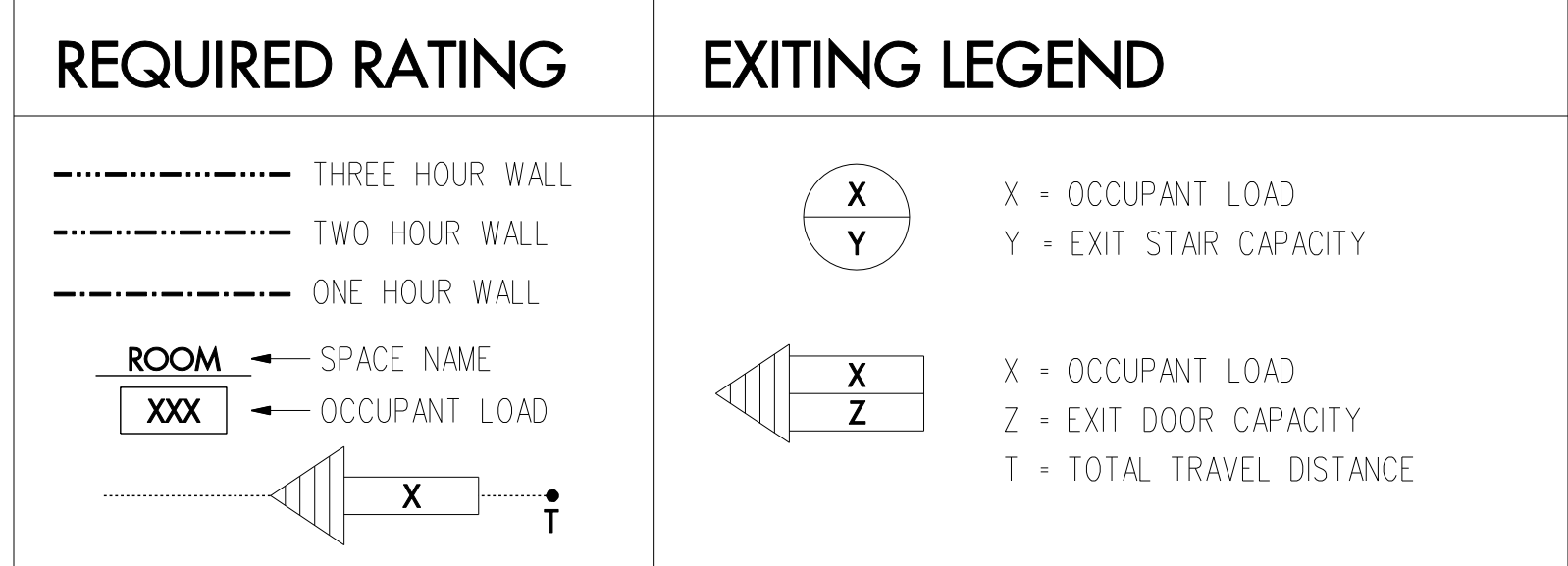
Project Architect

Case 1

_____ CA | 0 |

Drawing No. _____

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OCCUPANCY CALCULATIONS						
HOIST LEVEL	SQUARE FOOT	OCCUPANT LOAD FACTOR	TOTAL OCCUPANTS	DOOR IN OCCUPANT	DOOR IN REQD	PROVIDED (%)
SHORES						
LABOR & CORRIDOR	3,496	15-NET	234	0.20	46.8	80
BAR / COFFEE	441	15-NET	31	0.20	6.2	88
RESTROOM	3,000	15-NET	207	0.20	41.4	100
HOTEL						
MEETING ROOM	2,400	7-NET	345	0.60	69	207
CONFERENCE ROOM	1,500	7-NET	214	0.60	42.6	100
FRONT DESK / ADMIN	441	100-GROSS	5	0.20	1	33
RECEPTION	818	7-NET	117	0.20	23.6	60
EMPLOYEE CATERIA	700	7-NET	100	0.20	20	60
KITCHEN	1,918	200-GROSS	10	0.20	2	135
BAR / REST CENTER	1,918	200-GROSS	10	0.20	2	135
BANQUET STORAGE	600	100-GROSS	2	0.20	0.4	33
HOUSEKEEPING/LAUNDRY	531	300-GROSS	7	0.20	1.4	66
REST ROOM / MEN	58	100-GROSS	1	0.20	0.2	33
WOMENS LOCKERS						
WOMENS LOCKERS	273	50-GROSS	6	0.20	1.2	33
KITCHEN STORAGE	283	50-GROSS	6	0.20	1.2	33
KITCHEN STORAGE	302	50-GROSS	6	0.20	1.2	33
SECURITY/HOLDING	224	100-GROSS	3	0.20	0.6	33
TELECOM	212	300-GROSS	1	0.20	0.2	33
Mechanical	1,860	300-GROSS	7	0.20	1.4	69
EMERG ELEC	60	300-GROSS	1	0.20	0.2	33
MECHANICAL	1,860	300-GROSS	7	0.20	1.4	69
FIRE PUMP ROOM	273	100-GROSS	1	0.20	0.2	33

HEALTH CLUB						
MENS EXC LOCKERS	1,102	50 GROSS	23	0.20	4.6	33
MENS EXC LOCKERS	1,130	50 GROSS	23	0.20	4.6	33
MENS TOLLETS / SHWRS	891	50 GROSS	20	0.20	4	33
WOMENS EXC LOCKERS	1,040	50 GROSS	27	0.20	5.4	33
WOMENS EXC LOCKERS	521	50 GROSS	11	0.20	2.2	33
WOMENS TOLLETS / SHWRS	873	50 GROSS	23	0.20	4.6	33
FAMILY LOCKERS	1	50 GROSS	2	0.01	0.2	33
LOBBY / CORRIDOR	1,605	15 NET	107	0.20	21.4	80
SPA / SPA SAUNA	636	100 GROSS	7	0.20	1.4	113
POOL	1,130	50 GROSS	23	0.20	4.6	33
PILATES	609	15 GROSS	41	0.20	8.2	33
TREATMENT ROOMS	1,239	50 GROSS	25	0.20	5	33
OFFICE	324	15 GROSS	4	0.20	0.8	33
CHANGE (MEN & WOMEN)	666	50 GROSS	12	0.20	5.4	33
WOMENS STEAM	260	50 GROSS	6	0.20	1.2	33
WOMENS SAUNA	120	50 GROSS	3	0.20	0.6	33
MENS STEAM	130	50 GROSS	5	0.20	1	33
MENS SAUNA	147	50 GROSS	3	0.20	0.6	33
STORAGE	844	50 GROSS	3	0.20	0.6	33
KIDS WORLD	5,164	35 NET	148	0.20	29.6	182
TOTAL OCCUPANTS			1630		139	2356
EXIT			TOTAL	DOOR IN /	DOOR IN	PROVIDED

EXIT CAPACITY	EXIT CAP	TOTAL OCCUPANTS	DOOR IN OCCUPANT**	DOOR IN RECD IN	PROVIDED IN
EXIT 1	350	0	0.20	68.8	70
EXIT 1A	170	48	0.20	9.6	33
EXIT 2	350	100	0.20	20	70
EXIT 3	340	215	0.20	43	69
EXIT 4	340	120	0.20	24	69
EXIT 5	340	75	0.20	15	69
EXIT 6	170	59	0.20	11.8	33
EXIT 7	340	65	0.20	13	69
EXIT 8	170	33	0.20	6.6	33
EXIT 9	340	65	0.20	13	69
EXIT 10	170	33	0.20	6.6	33
EXIT 11	340	65	0.20	13	69
EXIT 12	170	33	0.20	6.6	33
EXIT 13	170	18	0.20	3.6	33
EXIT 14	340	210	0.20	42	69
EXIT 15	340	300	0.20	60	69
EXIT 16	50	50	0.20	10	33
EXIT 17	340	50	0.20	10	69
EXIT 18	170	133	0.20	26.6	33
EXIT 19	340	24	0.20	4.8	69
TOTAL CAPACITY	4780	2068	0.20	413.6	959

** NOTE 1: Occupant Load Factor is derived from Table 7.3.1.2 in the NFPA 101, Life Safety Code
 ** NOTE 2: Includes Per Occupant served from Table 7.3.3.1 from the NFPA 101, Life Safety Code
 *** NOTE 3: Maximum Travel Distance is 200 feet in assembly occupancies Per Section 12.2.6 and 300 feet in business occupancies Per Section 10.2.6 of the NFPA 101, Life Safety Code for supervised automatic sprinkler system in accordance with Section 9.7

1 CODE ANALYSIS: LOBBY LEVEL PLAN
CA1.01 1/16" = 1'-0"

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PLOT DATE: 8/21/2008 E:\user2007\207201\d-7 drawings\201_ca1_01.sht

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SCOPE DOCUMENTS

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[illegible]

Westheimer Road
Renaissance Club Sport
Houston, TX

RENAISSANCE
Club Sport
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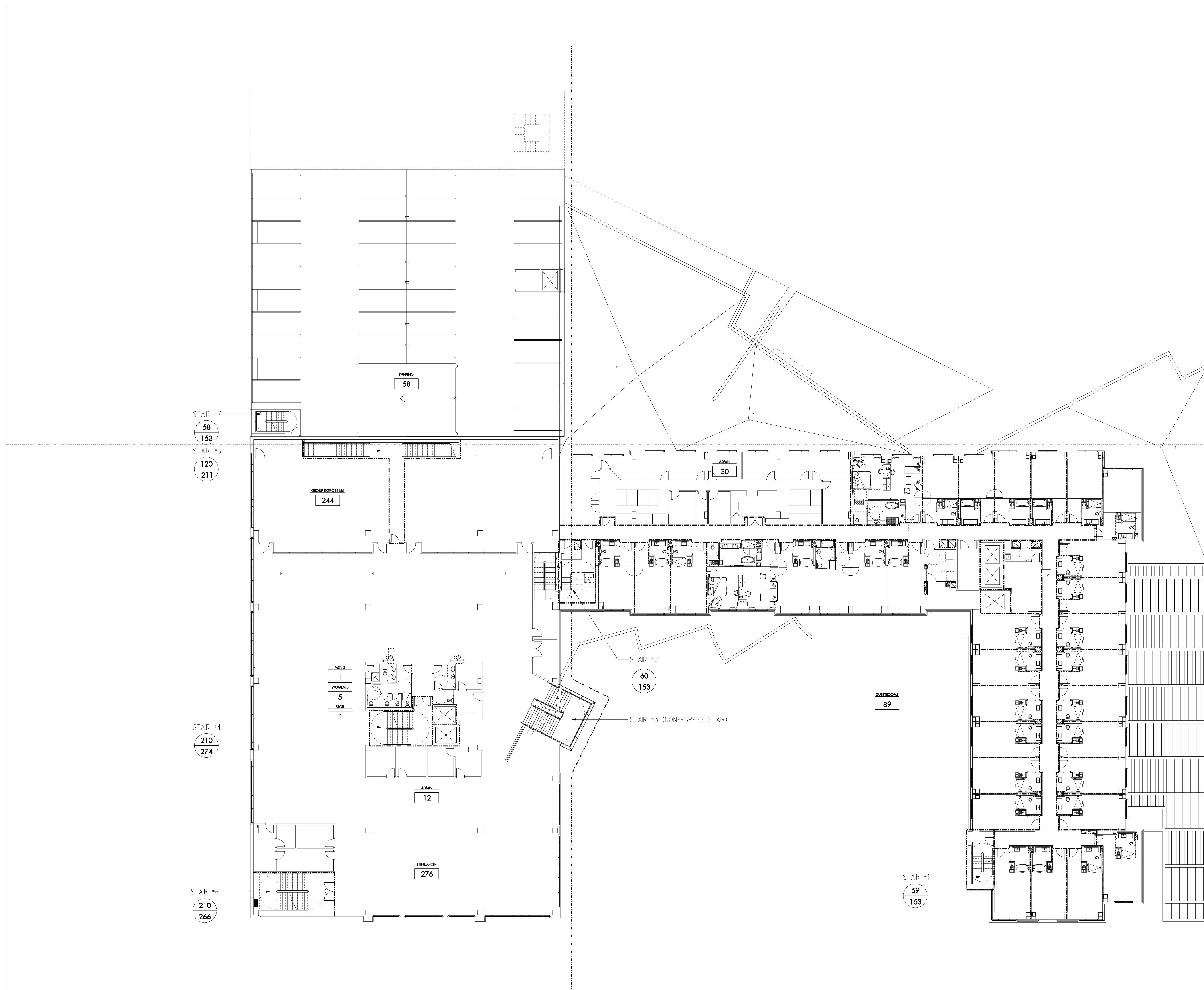
**CODE ANALYSIS:
FITNESS/1st GUEST
LEVEL PLAN**







Principal-in-Charge
ROB UHRIN
 Project Manager
 Project Architect

CA1.02

Drawing No. _____

FIXTURE ANALYSIS				
FITNESS CENTER LEVEL	TOTAL OCCUPANT	FIXTURES REQUIRED	FIXTURES PROVIDED	RCS STANDARD
TOTAL FOR FLOOR	658			
CLUB	539			
WATER CLOSETS				
MENS (1/75)	270	4.00	2	4
WOMEN'S (1/75)	270	4.00	5	4
LAVATORIES				
MENS (1/200)	270	2.00	2	2
WOMEN'S (1/200)	270	2.00	2	2
DRINKING FOUNTAINS (1/500)	529	2.00	6	7



REQUIRED RATING	EXITING LEGEND
 THREE HOUR WALL  TWO HOUR WALL  ONE HOUR WALL	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>X = OCCUPANT LOAD Y = EXIT STAIR CAPACITY</p> </div> <div style="text-align: center;">  <p>X = OCCUPANT LOAD Z = EXIT DOOR CAPACITY T = TOTAL TRAVEL DISTANCE</p> </div> <div style="text-align: center;">  <p>ROOM ← SPACE NAME XXX ← OCCUPANT LOAD</p> </div> </div>

1
A1.02

CODE ANALYSIS: LEVEL 2 PLAN
SCALE 1/16" = 1'-0"

SCALE 1/16" = 1'-0"

1ST GUEST LEVEL (LEVEL 2)

OCCUPANT LOAD
EXIT CAPACITY

658*
1057

*INCLUDES CLUB & HOTEL

	OCCUPANTS	N/OCCUP	IN USED	IN PRO
STAR#1	59	0.30	17.7	49
STAR#2	60	0.30	18	49
STAR#3	210	0.30	63	74
STAR#5	120	0.30	36	63
STAR#9	659	0.30	197.7	309

* NOTE 1: Occupant Load Factor is derived from Table 7.3.1.2 from the NFPA 101: Life Safety Code

* NOTE 2: Inches Per Occupant served from Table 7.3.3.1 from the NFPA 101: Life Safety Code

* NOTE 3: Maximum Travel Distance is 300 feet in Business Occupancies Per Section 8.2.5 of the NFPA 101: Life Safety Code for supervised automatic sprinkler system in accordance with Section 9.7.2

OCCUPANCY CALCULATIONS					
	TOTAL OCCUPANT LOAD FOOT	TOTAL OCCUPANTS	INCHES PER OCCUPANT**	REQUIRED WIDTH	PROVIDED WIDTH
PARKING GARAGE					
AREA PER FLOOR	11,405	200 GROSS	0.2	11.6	
		TOTAL OCCUPANTS			
STAR#1		153	0.30	45.9	48
EXT 20 (GARAGE)		58	0.20	11.6	69

* NOTE 1: Occupant Load Factor is derived from Table 7.3.1.2 from the NFPA 101: Life Safety Code

* NOTE 2: Inches Per Occupant served from Table 7.3.3.1 from the NFPA 101: Life Safety Code

* NOTE 3: Maximum Travel Distance is 400 feet in storage occupancies Per Section 4.2.6.2 of the NFPA 101: Life Safety Code for supervised automatic sprinkler system in accordance with Section 9.7.2

OCCUPANCY	OCCUPANCY CALCULATIONS						
	LEVEL 2	SEATING FOOT	OCCUPANT LOAD FACTOR*	TOTAL OCCUPANTS	DOOR IN / OCCUPANT †	DOOR IN REQ'D	PROVIDE (N)
HOTEL	CUESTRO	12,868	200 GROSS	65	0.20	13	33
	ADMINISTRATION	299	100 GROSS	30	0.20	6	102
	ELLY LOBBY	154	7 NET	20	0.20	4	69
	BORN STRAUBER	500	300 GROSS	2	0.20	4	16
	YENING	194	100 GROSS	2	0.20	4	33
HEALTH CARE	FISHER CENTER	13,375	50 GROSS	276	0.20	55.2	21
	COURT EXERCISE	3,658	15 GROSS	244	0.20	48.8	132
	STORAGE	1,113	30 GROSS	37	0.20	7.4	106
	STORAGE	2,084	15 GROSS	1	0.20	0.2	98
	WOMEN'S	46	50 GROSS	1	0.20	0.2	33
TOTAL OCCUPANTS				658	0.20	132	837

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SCOPE DOCUMENTS

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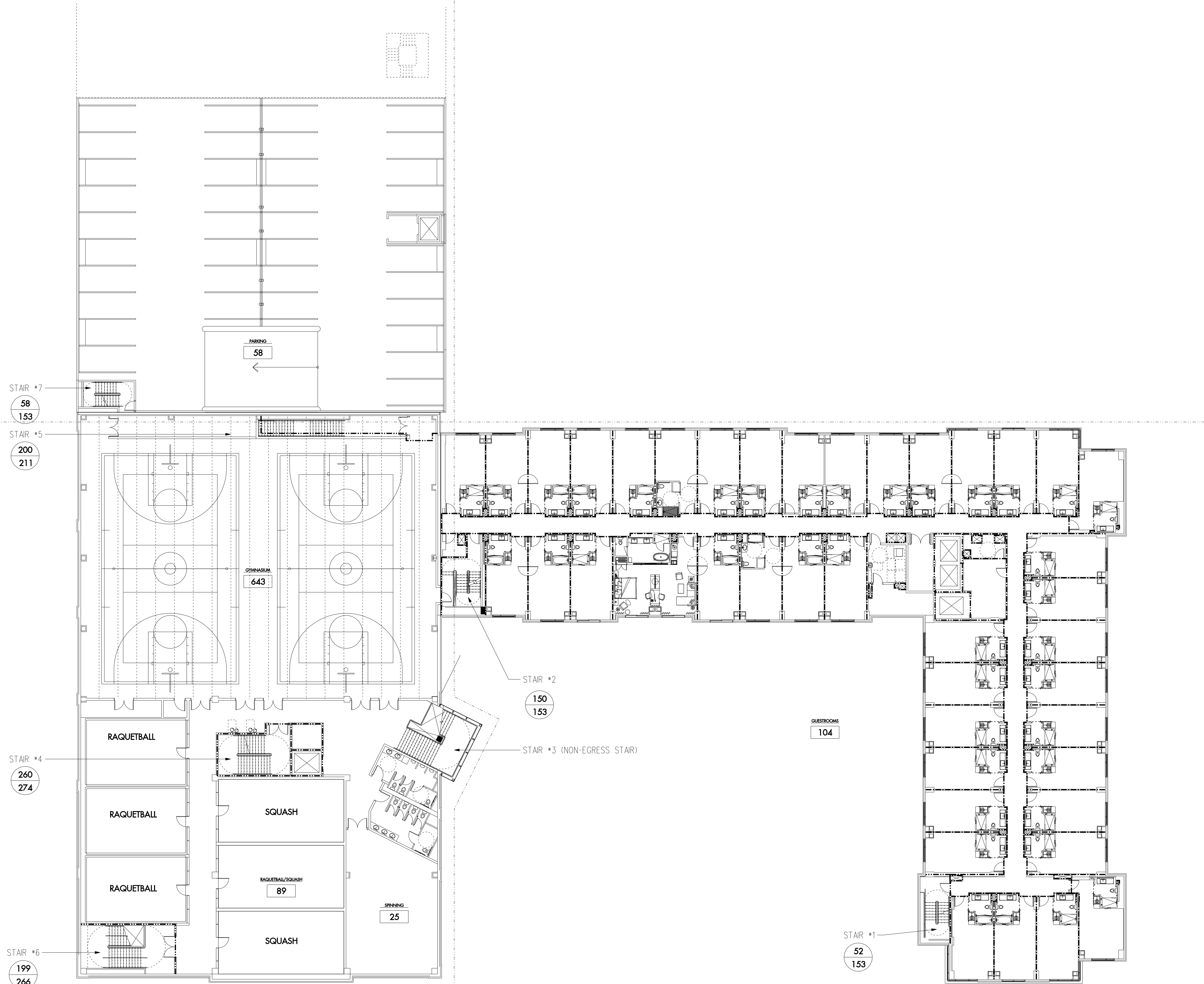
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CODE ANALYSIS:
GYM/ 2nd GUEST
LEVEL PLAN

_____	207201
ROB UHRIN	08/08/08

CA1.03

FIXTURE ANALYSIS				
GYMNASIUM LEVEL	TOTAL OCCUPANT	FIXTURES REQUIRED	FIXTURES PROVIDED	RCS STANDARDS
TOTAL FOR FLOOR	861			
CLUB	757			
WATER CLOSETS				
MEN'S (1/75)	379	6.00	6	6
WOMEN'S (1/75)	379	6.00	5	6
LAVATORIES				
MEN'S (1/200)	379	2.00	2	2
WOMEN'S (1/200)	379	2.00	3	3
DRINKING FOUNTAINS (1/500)	757	2.00	4	2



OCCUPANCY CALCULATIONS						
PARKING GARAGE	SQUARE FOOT	OCCUPANT LOAD FACTOR *	TOTAL OCCUPANTS	INCHES PER OCCUPANT **	REQUIRED WIDTH	PROVIDED WIDTH
AREA PER FLOOR	11,405	200 GROSS	58	0.20	11.6	
		TOTAL OCCUPANTS	58	0.20	11.6	
STAIR #1			153	0.30	45.9	46
EXIT 20 (GARAGE)			58	0.20	11.6	69

* NOTE 1: Occupant Load Factor is derived from Table 7.3.1 from the NFPA 101, Life Safety Code

** NOTE 2: Inches Per Occupant derived from Table 7.3.1.3 from the NFPA 101, Life Safety Code








** NOTE 3: Maximum Travel Distance is 400 feet in storage occupancies per Section 4.2.2.6.2 of the NFPA 101 Life Safety Code for supervised automatic sprinkler system in accordance with Section 9.7

OCCUPANCY CALCULATIONS						
LEVELS	SQUARE FOOT	OCCUPANT LOAD FACTOR**	TOTAL OCCUPANTS	DOOR IN OCCUPANT**	DOOR IN RECD.	PROVIDED (IN.)
HOTEL						
FLOOR 3	15,805	200 GROSS	80	0.20	16	33
LOBBY	134	7 NET	20	0.20	4	68
ELEV STORAGE	580	30 GROSS	20	0.20	4	68
CLERK	134	100 GROSS	20	0.20	4	33
HEALTH CLUB						
GYMNASIUM	9,045	15 GROSS	945	0.20	128.6	414
POOL/ITALY/SQUASH	4,448	50 GROSS	89	0.20	17	108
SPINNING	1,231	50 GROSS	25	0.20	5	69
TOTAL OCCUPANTS			861	25.0	172	849
			OCCUPANTS	IN OCCUP	IN USE	IN PROVIDED
STAR #1			52	0.30	15.6	46
STAR #2			150	0.30	45	49
STAR #4			260	0.30	78	74
STAR #5			200	0.30	60	63.5
STAR #6			169	0.30	50.7	80
			861	25.0	258.3	309.5

* NOTE 1: Occupant Load Factor is derived from Table 7.3.3.2 from the NFPA 101: Life Safety Code

** NOTE 2: Inches Per Foot Distance is derived from Table 7.3.3.1 from the NFPA 101: Life Safety Code

*** NOTE 3: Maximum Travel Distance is 200 feet in assembly occupancies. Per Section 12.2.6 of the NFPA 101: Life Safety Code for supervised automatic sprinkler system in accordance with Section 7.2.2.2

REQUIRED RATING	EXITING LEGEND
 THREE HOUR WALL  TWO HOUR WALL  ONE HOUR WALL	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>X = OCCUPANT LOAD Y = EXIT STAIR CAPACITY</p> </div> <div style="text-align: center;">  <p>X = OCCUPANT LOAD Z = EXIT DOOR CAPACITY T = TOTAL TRAVEL DISTANCE</p> </div> </div> <div style="margin-top: 20px;">  </div> <div style="margin-top: 20px;">  </div>

2ND GUEST LEVEL (LEVEL 3)

OCCUPANT LOAD
EXIT CAPACITY

$$\frac{861^*}{1057}$$

*INCLUDES CLUB & HOTEL

01 CODE ANALYSIS: LEVEL 3 PLAN
CA1.03 1/16" = 1'-0"



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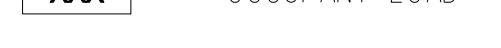
SCOPE DOCUMENTS

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Project Architect

Drawing No.

REQUIRED RATING	EXITING LEGEND
 THREE HOUR WALL  TWO HOUR WALL  ONE HOUR WALL	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>X = OCCUPANT LOAD Y = EXIT STAIR CAPACITY</p> </div> <div style="text-align: center;">  <p>X = OCCUPANT LOAD Z = EXIT DOOR CAPACITY T = TOTAL TRAVEL DISTANCE</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <p>ROOM → SPACE NAME xxx → OCCUPANT LOAD</p> </div> <div style="text-align: center;">  </div> </div>

OCCUPANT LOAD	<u>104</u>
EXIT CAPACITY	307

OCCUPANCY CALCULATIONS							OCCUPANCY CALCULATIONS						
PARKING GARAGE	SQUARE FOOT	OCCUPANT LOAD FACTOR**	TOTAL OCCUPANT**	INCHES PER OCCUPANT**	REQUIRED WIDTH	PROVIDED WIDTH	LEVELS 4	SQUARE FOOT	OCCUPANT LOAD FACTOR**	TOTAL OCCUPANT**	DOOR IN / OCCUPANT**	DOOR IN / PROVIDED (IN.)	
AREA PER FLOOR	11,405	200 GROSS	58	0.20	11.6		HOTEL						
		TOTAL OCCUPANTS	58		11.6		GUEST ROOMS	15,927	200 GROSS	89	0.20	16	33
							ELEV LOBBY	134	7 NET	2	0.20	4	69
							BOR STORAGE	590	300 GROSS	2	0.20	0.4	33
STAIR #1			153	0.30	45.9	46	VENUE	184	100 GROSS	2	0.20	0.4	33
EXIT 20 (GARAGE)			5.2	0.20	11.6	69	TOTAL OCCUPANTS PER FLOOR			104	0.20	20.8	168
* NOTE 1: Occupant Load Factor is derived from Table 7.3.1 from the NFPA 101: Life Safety Code							OCCUPANTS IN/OCCUP IN/USED IN PROVIDED						
** NOTE 2: Inches Per Occupant served from Table 7.3.3.1 from the NFPA 101: Life Safety Code							STAIR #1 52 0.30 15.6 46						
*** NOTE 3: Maximum Travel Distance is 400 feet in storage occupancies Per Section 42.2.6.2 of the NFPA 101 Life Safety Code for supervised automatic sprinkler system in accordance with Section 9.7							STAIR #2 52 0.30 15.6 46						
							104 31.2 92						
							* NOTE 1: Occupant Load Factor is derived from Table 7.3.1.2 from the NFPA 101: Life Safety Code						
							** NOTE 2: Inches Per Occupant served from Table 7.3.3.1 from the NFPA 101: Life Safety Code						
							*** NOTE 3: Maximum Travel Distance is 200 feet in assembly occupancies Per Section 12.2.2 of the NFPA 101: Life Safety Code for supervised automatic sprinkler system in accordance with Section 9.7						