DAMMON ENGINEERING, INC.
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CONSULTING *DESIGN* *STUDIES* *EXPERT WITNESS*

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June 7, 2011

To: Roe Dietrich
Building Inspector
City of Slidell, Dept. of Building Safety

REF: Rain Forest Carwash

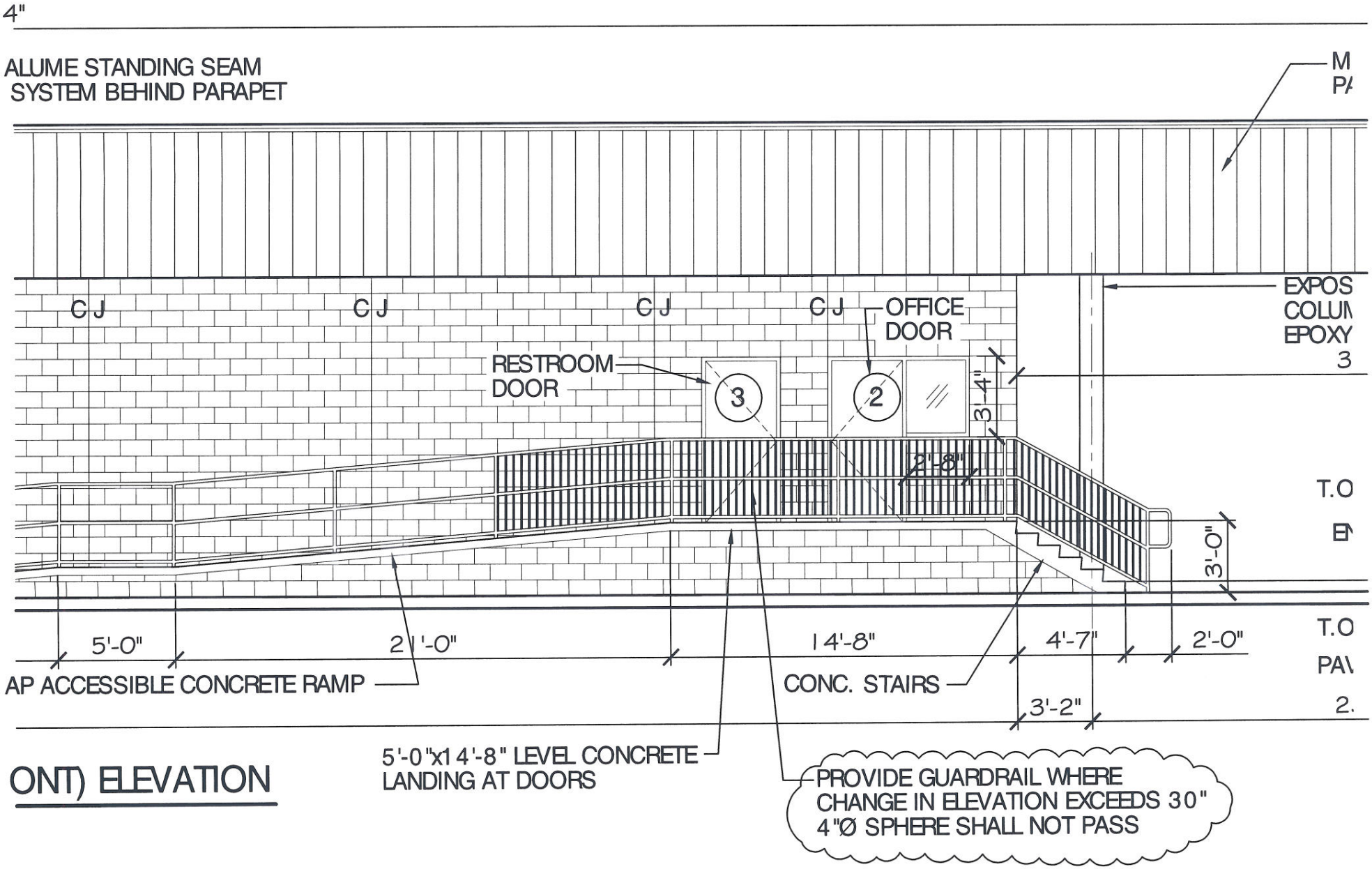
Dear Mr. Dietrich,

Please see the attached documents regarding the required guardrail and live load information.

The plans have been modified to show the following:

1. The required Ground snow load = 5 psf (per the IBC 2009, fig. 1608.2)
2. The required Roof live load = 20 psf uniform and 300 psf concentrated. (per IBC 2009, fig.1607.1)
3. The required design Wind pressure = 33.6 psf (per ASCE 7-05 fig. 6-2)
4. A guardrail has been added to area where the change in elevation exceeds 30".

Sincerely,
Brandon Nowakowski
Dammon Engineering



ONT) ELEVATION

FIGURE 1608.2–continued
GROUND SNOW LOADS, p_g, FOR THE UNITED STATES (psf)

INTERNATIONAL BUILDING CODE 2009

OCCUPANCY CLASSIFICATION:
BUSINESS, GROUP B. (SEC 304.1)

OCCUPANT LOAD: (TBL 1004.1.1)
BUSINESS AREAS = 100 GROSS SQ.FT. / OCCUPANT
4,587 SQ.FT. GROSS BUILDING = TOTAL OF 46 OCCUPANTS

EXIT ACCESS REQUIREMENTS: (SEC 1019)
1 EXIT REQUIRED FOR < 49 OCCUPANTS IN BUSINESS OCCUPANCY (1 EXIT PROVIDED)
EXIT ACCESS TRAVEL DISTANCE = 200' UNSPRINKLED

ALLOWABLE HEIGHT AND BLDG. AREA: (TBL 503)
B=23,000 SQ.FT. / 4 STORY ALLOWED, THIS PROJECT 1 STORY / 4,587 SQ.FT.

CONSTRUCTION CLASSIFICATION: (SEC 602.2)
TYPE II B

FIRE RESISTANCE RATING REQUIREMENTS FOR BLDG. ELEMENTS: (TBL 601)
STRUCTURAL FRAME= 0 HRS.
BEARING WALLS (INTERIOR AND EXTERIOR)= 0 HRS.
NON-BEARING WALLS= 0 HRS.
FLOOR CONSTRUCTION= 0 HRS.
ROOF CONSTRUCTION= 0 HRS.
NOTE: FIRE PROTECTION OF STRUCTURAL MEMBERS REQUIRED IN WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 20' ABOVE SLAB. ALL ROOF CONSTRUCTION < 20' ABOVE SLAB.

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS: (TBL 602)
EXTERIOR WALLS WITH 10</=<30' FIRE SEPARATION DISTANCE = 0 HR.

FIRE ALARM SYSTEM REQUIREMENTS: (SEC 907)
THIS BLDG. DOES NOT REQUIRE A FIRE ALARM SYSTEM IN ACCORDANCE WITH SEC 907.2.2 & SEC 907.2.7

CONSTRUCTION DOCUMENTS: (SEC 1603)
THIS BLDG. SHALL BE DESIGNED IN ACCORDANCE WITH IBC SECTION 1609 AS A FULLY ENCLOSED BLDG. USING THE FOLLOWING INFORMATION:
WIND DESIGN DATA:
- DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.4
- BASIC WIND SPEED (3 SECOND GUSTS) = 130 MPH (FIG 1609)
- IMPORTANCE FACTOR: CATEGORY II BLDG., IE =1.00, IS =1.0, IW =1.00 (TBL 1604.5)
- EXPOSURE B
- DESIGN WIND PRESSURE (ASCE 7-05 FIG. 6-2): 33.6 PSF
- INTERNAL PRESSURE COEFFICIENT (ASCE 7-05 FIG. 6-5): ± 0.18

LIVE LOADS: (SEC 1607)
- LOBBIES AND 1st FLR. CORRIDOR (TBL. 1607.1): 100 PSF
- OFFICE (TBL. 1607.1): 50 PSF
- ROOF LIVE LOAD (TBL. 1607.1) = 20 PSF UNIFORM, 300 LB. CONCENTRATED
- GROUND SNOW LOAD (FIG. 1608.2) = 5 PSF

BASED ON THE SURVEY OF THIS PROPERTY BY J.V. BURKES & ASSOC., INC.
THIS PROPERTY IS IN A SPECIAL FLOOD HAZARD AREA.
F.I.R.M. COMMUNITY MAP NO. 220204 0010C E; DATE 4/21/99
FLOOD ZONE: AE10; CITY OF SLIDELL 10' + 1' = 11.0' B.F.E.