

STATE OF LOUISIANA
Department of Public Safety and Corrections
Office of State Fire Marshal Code Enforcement and Building Safety
8181 Independence Boulevard
Baton Rouge, Louisiana 70806
225-925-4920

H "BUTCH" BROWNING
FIRE MARSHAL

NEW CONSTRUCTION

ROBERT WILTSE
DAMMON ENGINEERING INC
1095 FLORIDA AVE
SLIDELL, LA 70458-0000

RE: P0392868
RAIN FOREST CAR WASH
3017 PONCHARTRAIN BLVD
SLIDELL, LA 70458-0000

NFPA 101, 2009

INDUSTRIAL

Dear Applicant:

This is to advise that we have reviewed the drawings and specifications for the subject proposed construction and have determined that they appear to satisfactorily comply with the adopted laws, codes, rules and regulations of The State Fire Marshal subject to the following requirements:

1. **Scope of Work: This review is for a new 4,587 sf car wash facility.**
2. **This project as submitted has been found in part to be INSUFFICIENTLY DOCUMENTED TO DETERMINE COMPLIANCE AT THIS TIME. Provide additional documentation as required to indicate compliance with the following item(s) PRIOR TO PERMITTING, UNLESS the Building Official finds that the nature of the work applied for is such that compliance can be determined during inspection:**
 - a. **19a, 19b, and 19c.**
3. **LRS 40:1730.45.B and LAC 55:V:2601 The documentation provided for the subject facility appears to comply with The Commercial Building Energy Conservation Code based on the International Energy Conservation Code, 2006 edition.**

NOTE: THE COMMENTS LISTED BELOW IDENTIFY APPARENT DEFICIENCIES DETECTED IN OUR REVIEW OF THE DOCUMENTS SUBMITTED.

4. **101:7.2.2.2.1 Stairs shall comply with the appropriate Stair table.**
 - a) **7" maximum and 4" minimum rise. SEE MARK-UPS ON SHEET C-4.**

5. **101:7.2.2.4.5.2 and 101:7.1.8 Guard rails shall be at least 42" high and are required when a change in elevation exceeds 30". Provide at the open side(s) of RAMP, LANDING AND STAIR WHERE APPLICABLE. SEE MARK-UPS ON SHEET C-4.**

NOTE: THE FOLLOWING COMMENTS IDENTIFY ISSUES FOR INFORMATIONAL AND CAUTIONARY PURPOSES OR ISSUES THAT COULD NOT BE VERIFIED IN THE SUBMITTED DOCUMENTS.

6. **101:40.1.4 This review is based on an occupancy classification of INDUSTRIAL in accordance with 101:6.1.1 and this section.**
7. **LRS 40:1731-(Effective 8/15/95) Provide access for persons with disabilities in accordance with ADA-AG (Accessibility Guidelines - September 1994). This does not include a review for compliance with the Federal Americans with Disabilities (Civil Rights) Act of 1990. Compliance with state regulations and requirements does not guarantee compliance with federal law.**

"CAUTIONARY/INFORMATIONAL" items and paragraph references are noted as follows:

- a) **4.5.2 Thresholds shall comply with requirements of this section regarding changes in level. (Not more than 1/2" height and beveled if over 1/4").**
- b) **4.13.9 Door hardware shall comply with this section. Hardware shall not require tight grasping, tight pinching, or twisting of the wrist to operate.**
- c) **4.1.3(11) and 4.1.6(3)(e) ALL public and common use toilet rooms shall comply with requirements of this Section 4.22.4.1.3(16) Permanent signage shall comply with 4.30.**
1. **Signage, where provided for permanent rooms and spaces shall provide;**
- a. **braille and raised lettering as per 4.30.4,**
 - b. **letter/symbol to background color contrast as per 4.30.5, and**
 - c. **a 60" height from floor to the centerline of the sign as per 4.30.6.**
2. **Other permanent signs which provide direction to or information about functional spaces of the building shall provide;**
- a. **letter character width to height proportion as per 4.30.2,**
 - b. **character height proportion based on height of sign from finish floor as per 4.30.3, and**
 - c. **letter/symbol to background color contrast as per 4.30.5.**
- d) **4.19 Lavatories shall comply with the following:**
- 1. **4.19.2 Lavatories shall be mounted with a clearance of at least 29" from the floor to the bottom of the apron. Knee and toe clearances shall comply with Fig. 31.**
 - 2. **4.19.4 Hot water and drain pipes shall be insulated or covered.**
 - 3. **4.19.5 Faucets shall comply with 4.27.4.**
 - 4. **4.19.6 Mirrors shall be mounted with the bottom edge not more than 40" from the floor.**
8. **LAC 55:305 Insulation and insulation assemblies shall meet the requirements of Section 719, International Building Code, 2009 Edition.**

a) Concealed and exposed insulation shall have a flame spread of 0-25 and a smoke developed of 0-450 in accordance with IBC 719.

9. 101:7.2.1.3 Provide level landings outside exterior doors that are within 1/2" of the interior finish floor elevation.

10. 101:7.2.1.5 Locks on doors in means of egress shall not require the use of a key, special device or special knowledge to open in the direction of egress.

Submit a "REQUEST FOR EXEMPTION" for special locking arrangements in accordance with Interpretive Memorandum 2009-03 available on our website at <http://www.dps.louisiana.gov/sfm/> under the PLAN REVIEW / FORMS section. Also see Interpretive Memorandum 2009-04 for clarification regarding "Magnetic Lock Releasing Devices & Electrified Locks/Latches", or Interpretive Memorandum 2009-05 for clarification regarding Special Healthcare Locking Arrangements.

NOTE: The "Life Safety and Property Protection Licensing Law" (LRS 40:1664 et seq.) requires locksmiths to be licensed. Contact the licensing section of this office at 225.925.7047 for guidance and assistance.

11. 101:7.2.1.5.9 Doors shall be capable of being opened with ONLY one releasing operation. A two-step release, such as a knob and an independent slide bolt, or an additional exit request button, is NOT acceptable.

12. 101:7.2.2.2.1 Stairs shall comply with the appropriate Stair table.

a) 36 inch minimum width.

b) 7" maximum and 4" minimum rise.

c) 11" minimum tread depth.

d) 6'-8" minimum headroom.

e) 12 feet maximum height between landings.

f) Landings (See 7.2.1.3, 7.2.1.4.3.1 and 7.2.2.3.2).

g) Stair treads shall be uniformly slip resistant.

13. 101:40.3.3 Interior walls and ceilings shall have a flame spread of 0-200 and a smoke development rating of 0-450.

14. 101:40.5.1 Utilities shall comply with the provisions of Section 9.1.

NOTE: THE FOLLOWING IS A REVIEW FOR COMPLIANCE WITH THE REQUIREMENTS OF THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE IN ACCORDANCE WITH ACT 12 OF THE 2005 FIRST EXTRAORDINARY SESSION OF THE LOUISIANA LEGISLATURE. THIS REVIEW IS PERFORMED AT THE REQUEST OF, AND ON BEHALF OF THE JURISDICTION IN WHICH THIS PROPOSED PROJECT IS LOCATED.

This office will not be responsible for inspections to certify compliance with applicable requirements. Contact the local Building Official or a Louisiana State Uniform Construction Code Council certified third-party provider to arrange for inspections.

Codes Referenced:

- 2009 International Building Code (IBC) not including Chapters 1, 11, 27, and 29;
- 2009 International Existing Building Code (IEBC) not including Chapter 1;
- 2009 International Mechanical Code (IMC);
- 2000 Louisiana State Plumbing Code (LSPC);
- 2009 International Fuel Gas Code (IFGC);
- 2008 National Electric Code (NEC)

15. Building Planning:

a) Proposed Occupancy/Use Group Classification:

The occupancy is **FACTORY INDUSTRIAL** Group F-1 per IBC Section 306.

b) Special Occupancy Areas:

There are **NO** special detailed requirements.

c) Incidental/Accessory Use Areas:

There is **NO** incidental use area and **NO** accessory occupancy per IBC Section 508.

d) Construction Type/Building Limitations:

The construction type is indicated to be **Type II-B** per IBC Section 602.

The proposed construction **IS WITHIN** the allowable height and area limitations of Table 503.

16. Fire-Resistance-Rated Construction and Interior Finishes:

a. Interior walls and ceiling finishes at exit enclosures and exit passageways shall be Class B: Flame spread 0-75 smoke-developed 0-450.

b. Interior walls and ceiling finishes at corridors shall be Class C: Flame spread 0-200 smoke-developed 0-450.

c. Interior walls and ceiling finishes at rooms and enclosed spaces shall be Class C: Flame spread 0-200; smoke-developed 0-450.

17. Fire Protection Systems:

a) The building is NOT provided with an automatic sprinkler system.

b) The building is NOT provided with a fire alarm system.

18. Means of Egress:

a) Refer to Life Safety Code review above for means of egress requirements.

19. Structural:

The following design loads and other information pertinent to the structural design required by IBC Sections 1603.1.1 through 1603.1.8 shall be indicated on the construction documents, per IBC 1603.1:

a) Gravity Load Data:

Minimum live loads shall be in accordance with IBC Table 1607.1 or ASCE 7-05 Table 4-1
Minimum Snow loads shall be in accordance with IBC Fig. 1608.2 or ASCE 7-05 Fig. 7.1.
- First Floor live loads are indicated as 50 psf AT OFFICE AREAS.
- Roof live loads are NOT indicated PROVIDE.
- Ground Snow loads are NOT indicated PROVIDE.

b) Wind Design Data:

Wind loads on every building or structure shall be determined in accordance with Chapter 6 of ASCE 7-05, per IBC 1609.1.1.

- Basic Wind Speed (3-second gust) is indicated as 130 MPH; [IBC 1609.3 and/or ASCE 7-05 Figure 6-1]
 - Wind importance factor, I, is indicated as 1.00; [ASCE Table 6-1]
 - Occupancy category is indicated as III; [IBC Table 1604.5 and/or ASCE 7-05 Table 1-1]
 - Wind exposure category is indicated as B; [IBC Section 1609.4.3]
 - The internal pressure coefficient is indicated as +/- 0.18; [ASCE 7-05 Figure 6-5]
 - Design wind pressures used for the design of exterior components and cladding are NOT indicated PROVIDE.
- Protection of openings for wind-borne debris is required.

c) Flood Design Data:

The flood hazard area established for the site is identified as Zone AE; [IBC 1603.1.6] BASE FLOOD ELEVATION = 11 FT. PER ASCE 24-05, LOWEST FLOOR ELEVATION SHALL BE B.F.E. + 1 FT = 12 FT.

For buildings located in whole or in part in flood hazard areas as determined by the local flood plain administrator, the following information referenced to the datum on the Flood Insurance Rate Map (FIRM) shall be shown on the construction documents, regardless of whether flood loads govern the design of the building:

- The elevation of the proposed lowest floor is indicated as 11 FT AT TOILET AND MECH. PLATFORM AND 8.50 FT AT ALL OTHER AREAS. IN ACCORDANCE WITH IBC 1612.4 AND ASCE 24-05, TABLE 2-1 REQUIRES THE FINISH FLOOR TO BE B.F.E. + 1 FT. THIS MANDATES A MIN. OF 12 FT. THE OFFICE FLOOR LEVEL MUST BE 12 FT AS WELL (CURRENTLY 8.50 FT). PROVIDE REVISED DOCUMENTS WHICH DEMONSTRATE COMPLIANCE.

20. Mechanical Systems:

NOTE: Section 403.1 through Section 403.7 of the "2007 Supplement to the IMC" has been adopted as part of the LSUCC by the Code Council. This change will also be included in the 2009 edition of the IMC.

a) The minimum ventilation rate of outdoor air shall be determined in accordance with Section 403.3, as modified by the 2007 Supplement to the International Codes.

b) The ventilation air distribution system shall be provided with means to adjust the system to achieve at least the minimum ventilation airflow rate required. Ventilation systems shall be balanced by an approved method. Such balancing shall verify that the ventilation system is capable of supplying the airflow rates required by Section 403, per IMC 403.7 (2007 supplement).

21. Plumbing Systems:

Review for compliance with the requirements of the Louisiana State Plumbing Code [Part XIV (Plumbing) of the State Sanitary Code] is performed at the request of the jurisdiction in which this proposed project is located AND on behalf of the State Health Officer. In accordance with R.S. 40:4.A(7), R.S. 40:5, and R.S. 40:1730.28.A(5), the State Health Officer and the Office of Public Health of the Department of Health and Hospitals holds the exclusive jurisdiction, control, and authority over Part XIV (Plumbing) of the State Sanitary Code. Interpretations and/or adjustments

to the requirements contained in this code should be directed to that department for ruling. NO APPARENT DEFICIENCIES DETECTED.

22. Fuel Gas: NO WORK INDICATED, NOT REVIEWED.

23. Electrical Systems: NO APPARENT DEICIENCIES DETECTED.

Changes to construction in the field which are not consistent with the reviewed documents are not authorized unless reviewed by this office for compliance with Code. Modifications to reviewed plans must be submitted to this office by the Architect/Civil Engineer for review prior to final inspection. If an Architect or Civil Engineer is not required by RS 37:155, revisions shall be submitted by the Owner. Submittals shall include plans, completed application, a minimum \$55.00 review fee, and a copy of the most current plan review letter.

Compliance with code requirements for fire protection systems, such as Fire Alarm, Sprinkler and Suppression Systems, is determined by separate shop drawing submittal and is not included in this review.

This review shall in no way permit and/or authorize any omissions or deviations from the specific requirements of the adopted codes, rules and regulations in accordance with R.S. 40:1574.1(B).

This review is valid for 180 days from the date of this letter. Construction permits must be issued and/or construction must commence within this time period.

This office requires certification of the completed project in accordance with the approved documents (certificate enclosed).

Occupancy of the project will not be permitted until we receive the completed certificate and a satisfactory inspection of the completed construction has been made by this office.

To arrange for inspection of the project, please contact the District Office at the phone number below two (2) to three (3) weeks in advance. The plans stamped reviewed by this office must be available on job site at time of inspection. Certificate of completion must be provided to the inspecting Deputy for final inspection.

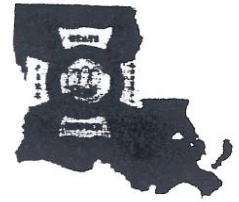
Fire Department access and water supplies within the scope of work shall be acceptable to the local fire department. Submit to the State Fire Marshal inspector, a review letter from the local fire department, stating that the access and water supply as proposed are acceptable. In lieu of a review letter, where the local fire department does not provide a formal review, the local fire department may indicate review of the access and water supplies by stating such on the plans bearing the State Fire Marshal review stamp.

REVIEWED BY:
DAVID JONES
ARCHITECT

CC:
Mike Gornak
St Tammany Fire Protection District No 1*
City Of Slidell*
New Orleans District* 5044557313



STATE OF LOUISIANA
 DEPARTMENT OF PUBLIC SAFETY AND CORRECTIONS
 OFFICE OF STATE FIRE MARSHAL



CERTIFICATE OF COMPLETION

DATE: _____

SFM PROJECT PO _____ SYSTEM TYPE _____ CONTRACTOR SIGNATURE _____

SFM PROJECT PO _____ SYSTEM TYPE _____ CONTRACTOR SIGNATURE _____

SFM PROJECT PO _____ SYSTEM TYPE _____ CONTRACTOR SIGNATURE _____

SFM PROJECT PO _____ SYSTEM TYPE _____ CONTRACTOR SIGNATURE _____

Please list all projects pertaining to the currently scheduled reviews of the building. System type refers to Architectural, Fire Alarm, Kitchen Hood/Wet Chemical Suppression, Fire Suppression, or Storage Tank.

To arrange for inspection of the project, please contact the district office two (2) to three (3) weeks in advance. To verify inspection district and phone number please refer to the "cc" list on the last page of the State Fire Marshal review letter. The plans stamped reviewed by this office must be available on job site at time of inspection. This Certificate Of Completion must be provided to the inspecting deputy at final inspection.

This is to certify the below project

PROJECT TITLE FROM APPLICATION		
PROJECT ADDRESS		
CITY	STATE	ZIP CODE

was periodically observed by me, by my consultants, and/or by others in my employ during construction and, to the best of my knowledge, information and belief, has been completed in accordance with the safety provisions which were shown in the plans and specifications previously reviewed by the Fire Marshal.

UNDER PENALTY OF LAW FOR FALSE STATEMENTS, I (NAME OF ARCHITECT/ENGINEER IF REQUIRED, OTHERWISE OWNER)

PRINT NAME _____ SIGNATURE _____

ARCHITECT/ CIVIL ENGINEER LICENSE NUMBER _____

CERTIFY ALL STATEMENTS CONTAINED HEREIN ARE, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, TRUE AND CORRECT.

LAC 55:V:307 OBSERVATION OF CONSTRUCTION

A. For a structure which by law may only be constructed with plans prepared and certified by a licensed architect or civil engineer, it shall be the duty of the owner of such a structure to provide for periodic observation of the construction of the structure to determine if the work is proceeding in accordance with the plans and specifications as approved by the fire marshal. The observations shall be performed by a registered architect or a registered civil engineer.

B. Upon completion of such work, where the law requires the owner to engage an architect or registered civil engineer, the owner shall furnish to the fire marshal a certificate signed by a registered architect or registered civil engineer stating that the periodic observations have been made and that to the best of the architect's or engineer's knowledge, information and belief, the work was completed in accordance with those fire safety standards and regulations stipulated in the plans and specifications previously approved by the fire marshal. When the owner has not engaged an architect or registered civil engineer, and the same is not required by law, the owner must submit the certificate of completion when appropriate, but always under his signature.

C. Occupancy of a structure, watercraft or movable prior to furnishing a certificate to the fire marshal as required under this regulation is expressly forbidden by the fire marshal, unless and until a satisfactory inspection has been made by the fire marshal or his certified representative.

D. In order to comply with the requirements of §307.B, the owner must submit to the fire marshal the following certificate completed by the architect, civil engineer, or, if neither is required by law, the owner.