

STRUCTURAL NOTES

GENERAL

- THIS PROJECT SHALL MEET ALL REQUIREMENTS OF THE CITY OF MOBILE, ALABAMA AND THE 2012 INTERNATIONAL BUILDING CODE.
- THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS (COORDINATE WITH APPLICABLE TRADES). THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK.
- COMPLETE SHOP DRAWINGS AS REQUIRED FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. ALLOW TEN (10) BUSINESS DAYS FOR REVIEW FROM THE TIME SUBMITTALS ARE RECEIVED IN OUR OFFICE.
- ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
- THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

DESIGN LOADS

- ROOF LIVE LOAD 15 PSF
- ROOF DEAD LOAD 20 PSF
- WIND LOAD BASED ON 155 MPH WIND - ULTIMATE STRESS DESIGN EXPOSURE CATEGORY C

$I_w = 1.0$
BUILDING CATEGORY: II
INTERNAL PRESSURE COEFFICIENT $GC_{pi} = -18$
COMPONENTS & CLADDING:

ULTIMATE	ALLOWABLE	
+28.2 PSF	+16.97 PSF	(ZONE A)
+30.9 PSF	+18.5 PSF	(ZONE C)
-35.9 PSF	-33.6 PSF	(ZONE E)
-38.9 PSF	-23.4 PSF	(ZONE G)
+78.3 PSF	+47.0 PSF	(WINDWARD PARAPET)
-61.3 PSF	-69.8 PSF	(LEEWARD PARAPET)

COMPONENTS AND CLADDING:
(ROOF ANGLE 0 TO 5°)

ULTIMATE	ALLOWABLE	
+17.0 PSF	+10.2 PSF	(ZONE 1, EFF. AREA = 100 FT. ²)
-48.3 PSF	-29.0 PSF	(ZONE 2, EFF. AREA = 100 FT. ²)
+17.0 PSF	+10.2 PSF	(ZONE 3, EFF. AREA = 100 FT. ²)
-57.3 PSF	-34.4 PSF	(ZONE 4, EFF. AREA = 20 FT. ²)
+17.0 PSF	+10.2 PSF	(ZONE 5, EFF. AREA = 20 FT. ²)
-57.3 PSF	-34.4 PSF	(PARAPETS, LOAD CASE A)
+50.4 PSF	+30.3 PSF	(PARAPETS, LOAD CASE B)
-54.9 PSF	-32.9 PSF	(PARAPETS, LOAD CASE A)
+50.4 PSF	+30.3 PSF	(PARAPETS, LOAD CASE B)
-57.6 PSF	-34.6 PSF	(PARAPETS, LOAD CASE A)
56.5 PSF	33.9 PSF	(PARAPETS, LOAD CASE B)
61.6 PSF	37.0 PSF	(PARAPETS, LOAD CASE B)

4. SEE ROOF PLAN FOR ADDITIONAL MECHANICAL LOADS.

STRUCTURAL STEEL

- SHAPES AND PLATES SHALL BE ASTM A36, U.N.O.
- WIDE FLANGE SHAPES SHALL BE ASTM A992, GRADE 50.
- ANCHOR BOLTS SHALL BE ASTM F1554, TYPICAL, U.N.O.
- HSS STEEL SHALL BE ASTM A500, GRADE B.
- ROUND PIPE SECTIONS SHALL BE ASTM A53, GRADE B, U.N.O.
- BOLTS SHALL BE ASTM A325, 3/4" DIA. (MIN.), U.N.O.
- STEEL DESIGN IS BASED ON THE CURRENT AISC MANUAL OF STEEL CONSTRUCTION (ASD).
- WELDING ELECTRODES SHALL BE SERIES E70XX.
- PERFORM WELDING IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S AWS D1.1 "STRUCTURAL WELDING CODE".
- STEEL FABRICATORS SHALL BE A COMPANY THAT IS CERTIFIED BY AISC. (NOTE - IF NOT CERTIFIED BY AISC, THEN SPECIAL INSPECTION FOR REVIEW OF SHOP FABRICATION AND QUALITY CONTROL PROCEDURES IS REQUIRED.)
- SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF MEMBERS, BRIDGING, BRACING AND ERECTION DETAILS.
- SHOP PAINT: STANDARD RED PRIMER, U.N.O. IN SPECIFICATIONS. CONTRACTOR TO COORDINATE PAINT WITH PROPOSED FINISHES AS APPLICABLE.
- FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL.

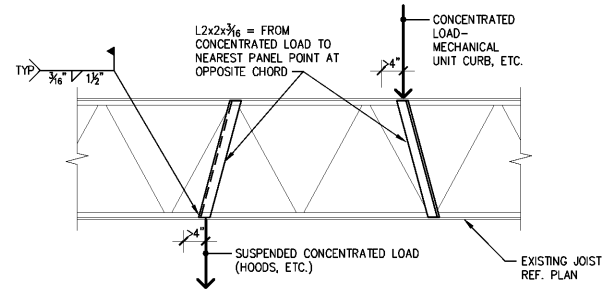
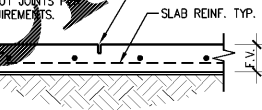
NOTE:

- PROVIDE SAW-CUT JOINTS 24 HOURS OF SLAB CURING TO PREVENT ANY DAMAGING.
- SEAL ALL SAW-CUT JOINTS PER ARCHITECTURAL REQUIREMENTS.

SAWCUT CONTROL JOINT

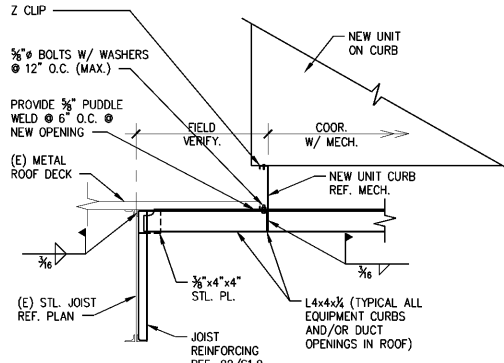
06 SECTION

SCALE: 3/4"=1'-0"



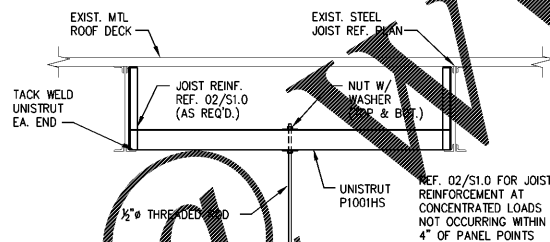
02 SECTION

SCALE: 3/4"=1'-0"



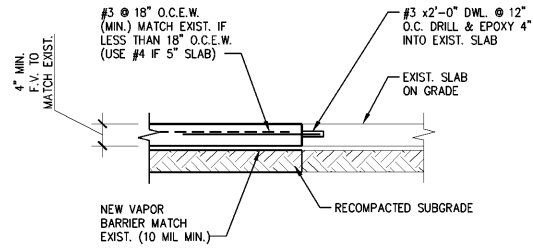
03 ROOF EQUIPMENT BLOCKING DETAIL

SCALE: 3/4"=1'-0"



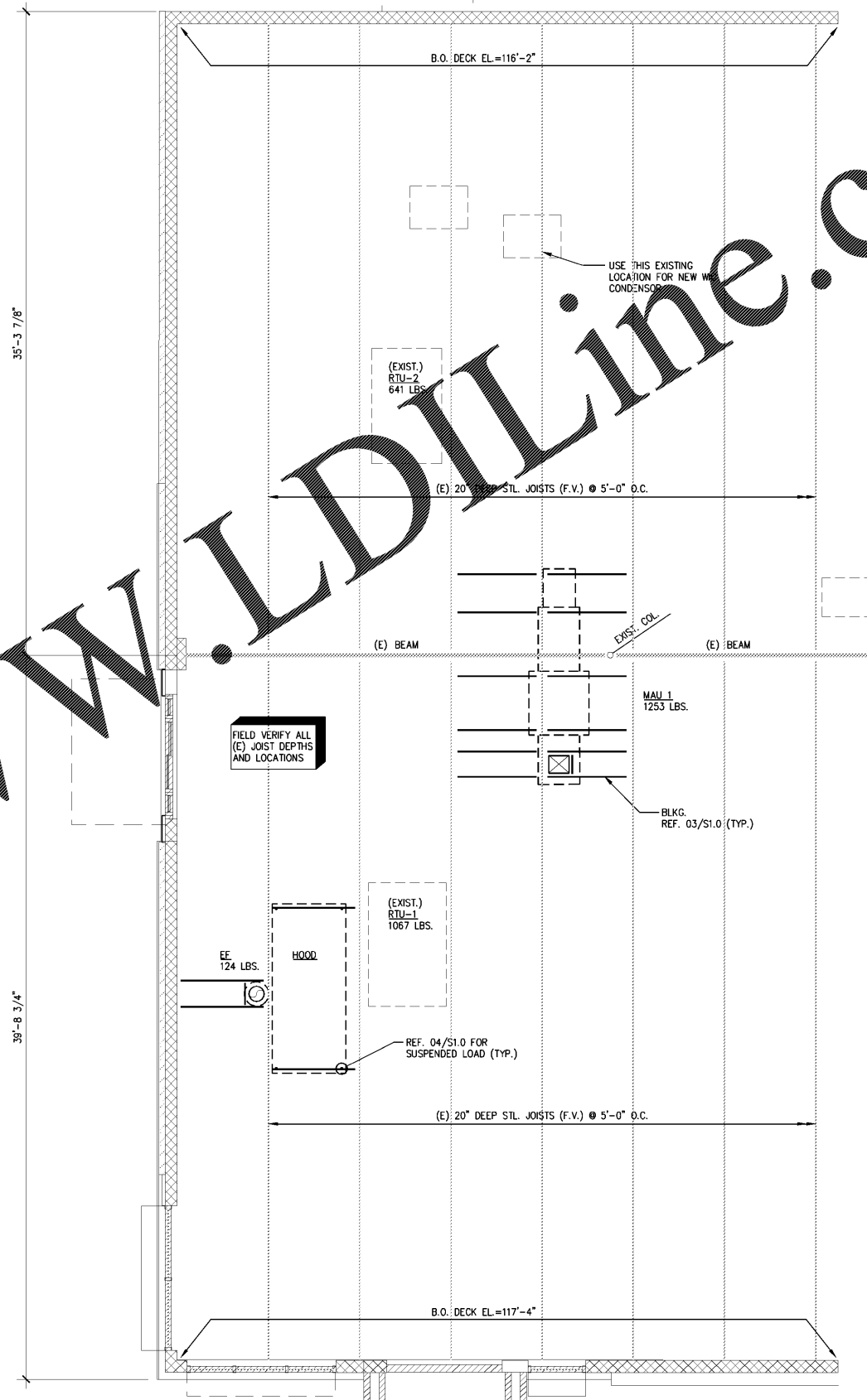
04 SECTION

SCALE: 3/4"=1'-0"



05 TYP. SLAB REPAIR SECTION

SCALE: 3/4"=1'-0"



01 PARTIAL ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"

PLAN NOTES:

- FIELD VERIFY (F.V.) AND COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
- F.V. ALL EXISTING (E) FOUNDATION/FRAMING CONDITIONS. NOTIFY THE ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES.
- SEE 05/S1.0 FOR TYPICAL SLAB REPAIR DETAIL AS REQUIRED.
- MATCH (E) CONTROL JOINT LOCATIONS PER 06/S1.0 AS REQUIRED.

PROJECT COORDINATOR/DESIGN CONSULTANT

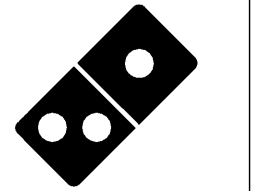
CARRY D. McLAIN
ARCHITECT
11 IRVING BLVD.
DALLAS, TEXAS 75207
TEL: 214-772-8611/296
ARCHITECT/ENGINEER

Ronald Roberts
Associates, Inc.
Consulting Engineers
2948 N. Stemmons Freeway
Dallas, Texas 75247-6103
Phone: (214) 637-6289
www.rara.net



CLIENT PROJECT # 5879
ARCHITECTURAL PROJECT NO.: 385-071
DRAWN BY: RGU
CHECKED BY: KG

DOMINO'S PIZZA
30 FRANK LLOYD WRIGHT DRIVE
ANN ARBOR, MI 48105
TEL: 314.910.8560



Domino's

DOMINO'S PIZZA
#5879
3871 AIRPORT BLVD.
MOBILE, AL 36608

NO.	REVISIONS	DATE

PLANNING REVIEW ISSUE DATE: N/A
CLIENT REVIEW ISSUE DATE: 09/13/2018
LANDLORD REVIEW ISSUE DATE: 09/13/2018
BID ISSUE DATE: 09/24/2018
HEALTH DEPT. REVIEW ISSUE DATE: 09/24/2018
BUILDING REVIEW ISSUE DATE: 09/24/2018
CONSTRUCTION ISSUE DATE: 09/24/2018

DRAWING TITLE:
**FRAMING PLAN,
DETAILS & NOTES**

DRAWING NUMBER:

S1.0

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Order Plans