

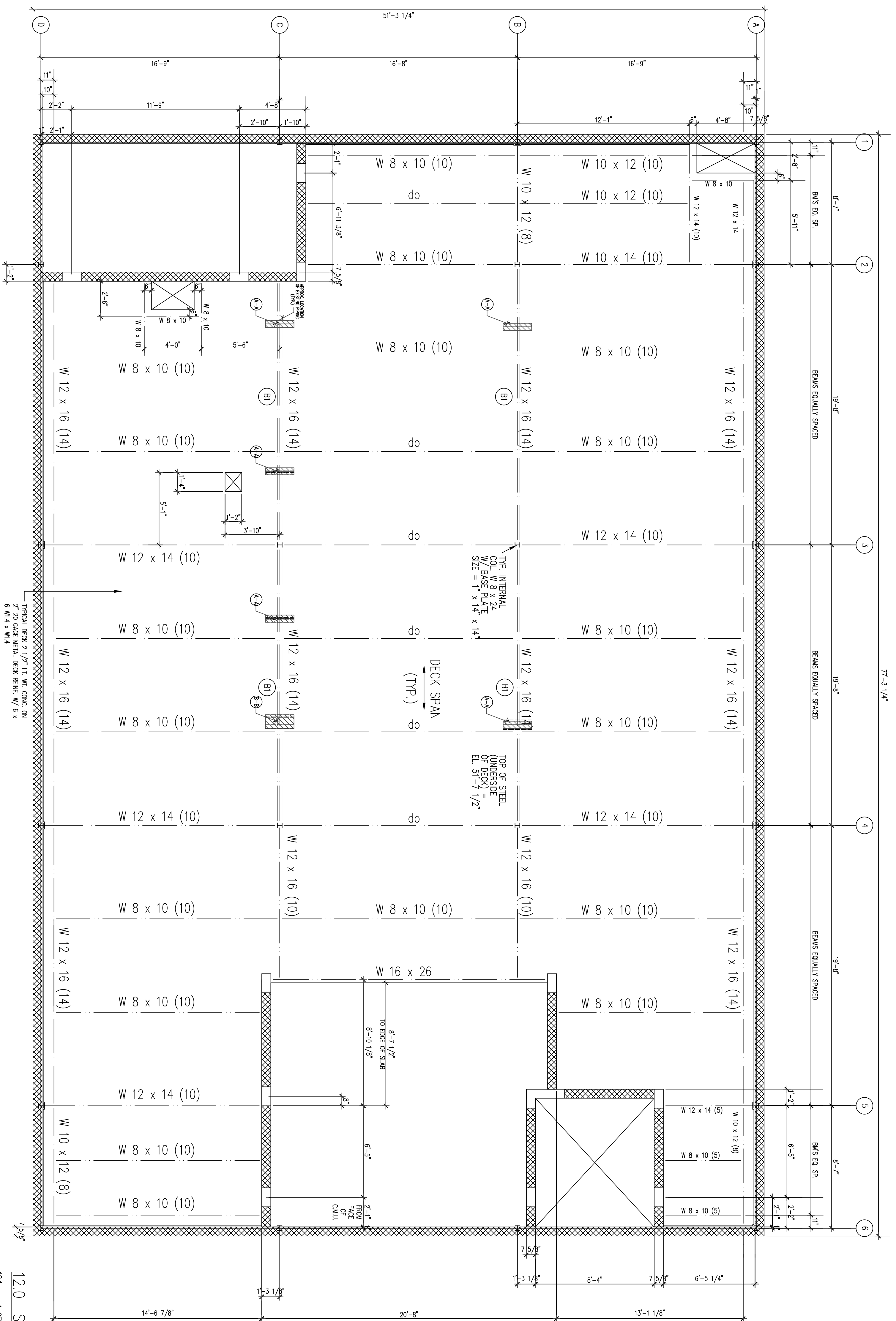
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FOR ASSISTANCE OR  
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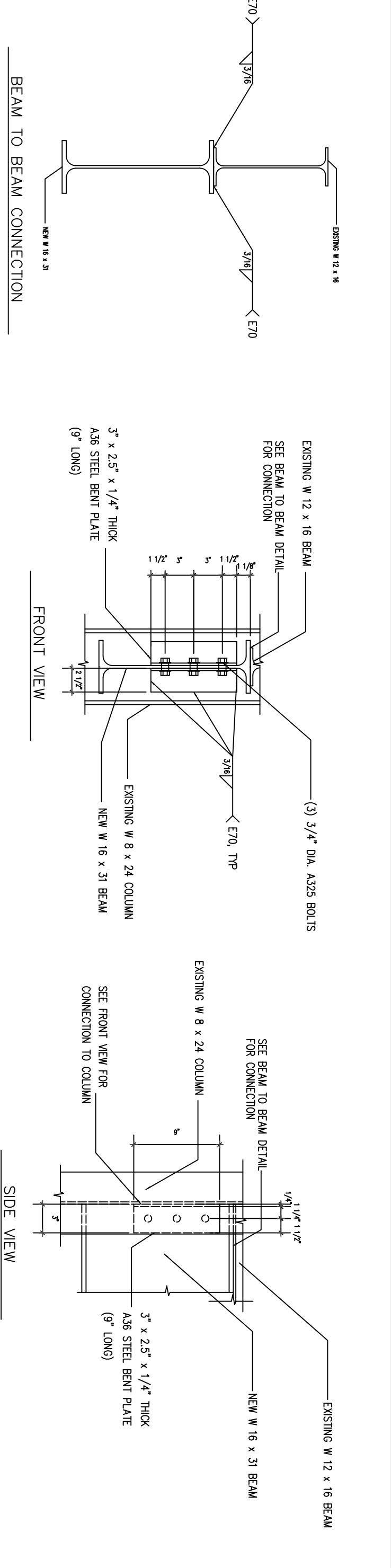
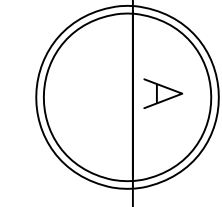
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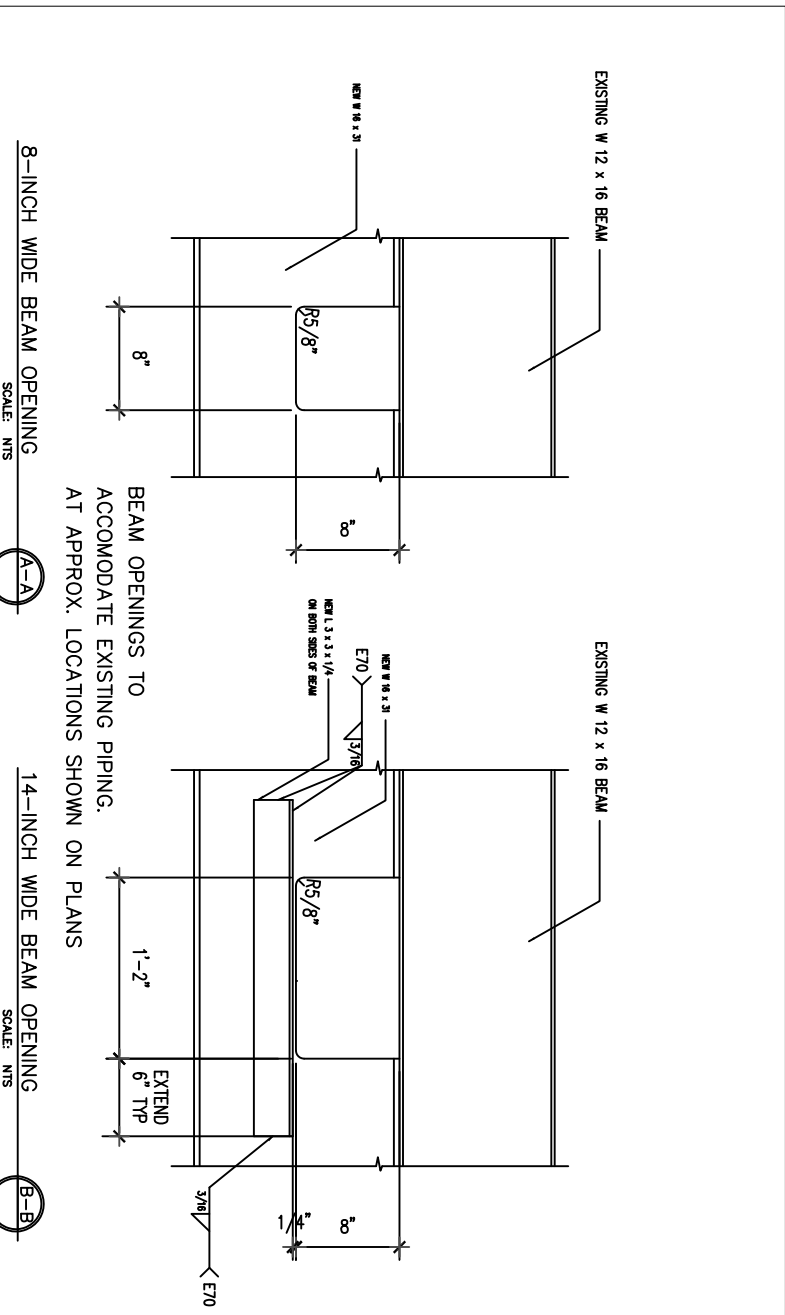
THIRD FLOOR PLAN

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



RETROFIT BEAM SECTION DETAILS

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



**STRUCTURAL NOTES**  
 (B1) RETROFIT W 16 x 31 STEEL SECTION W/ TOP FLANGE ATTACHED TO THE BOTTOM FLANGE OF EXISTING W 12 x 16 STEEL SECTION W/ A 3/16" FILET WELD. SEE SECTION DETAILS FOR MORE INFORMATION.

**GENERAL NOTES**

- 1.0 GENERAL
- 1.1 STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
- 1.2 VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- 1.3 NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR NONCONFORMANCES.
- 1.4 DO NOT SCALE DRAWINGS.
- 1.5 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS STEEL ITEMS NOT SHOWN HEREON.
- 1.6 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, SUPPORTED AND UNANCHORED CONNECTIONS AND EQUIPMENT BRACKETS. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT MANUFACTURERS.
- 1.7 ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS.
- 1.8 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 1.9 TOP OF SLAB AT GROUND LEVEL REFERENCE EL. 100'-0". SEE SITE PLAN FOR ACTUAL ELEVATION.
- 1.10 NO CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THE APPROVED SHOP DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER, AND SHALL BE SUBMITTED AS PART OF THE SUBMITTAL TO THE ARCHITECT FOR REVIEW AND APPROVAL.
- 1.11 SHOP DRAWINGS SHALL NOT BE REBENT OR OTHERWISE ALTERED WITHOUT REVIEW.
- 1.12 THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, CURS OR TIE-DOWNS.
- 1.13 DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAIL. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
- 1.14 THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
- 1.15 DESIGN DATA:  
 1.1.1 FLOOR LOADS:  
 30 PSF  
 100 PSF  
 100 PSF  
 CORRIDOR / BALCONY  
 112.2 DEAD LOADS  
 5 PSF  
 120 PSF (I = 1.0). EXP. C. PER FBC 2007 1.0.1.N.  
 117 ALLOWABLE SOIL PRESSURE  
 2500 PSF (ASSUMED)

**9.0 REGULATORY BODIES**

- 9.1 CONFORM TO ASCE 7-05 CODE FOR WIND LOADS AND OTHER GOVERNING LOAD CRITERIA. SEE CONTRACT DRAWINGS FOR WIND SPEED, IMPACTANCE FACTOR, EXPOSURE, AND OTHER GOVERNING WIND LOAD CRITERIA.
- 9.2 MATERIALS SHALL BE AS SPECIFIED.
- 9.3 STEEL PLATE CONNECTORS: ASTM A446 STEEL, GRADE B, HOT DIP GALVANIZED, DIE STAMPED W/ INTERNAL TEETH.
- 9.4 FASTENERS AND ANCHORS:  
 9.4.1 ANCHORS: EPOXY ADHESIVE TYPE FOR ANCHORAGE TO SOLID MASONRY OR CONCRETE. BOLT OR BALLISTIC FASTENER FOR ANCHORAGES TO STEEL.  
 9.4.2 BEARING PLATES: HOT DIP GALVANIZED.
- 9.5 FABRICATION:  
 9.5.1 FABRICATE TO CONFORM WITH END BEARING OR AVAILABLE INDICATED ON DESIGN DRAWINGS.
- 9.6 ERECTION:  
 9.6.1 COORDINATE PLACEMENT OF BEARING SUPPORT TRIMMS.  
 9.6.2 SET MEMBERS LEVEL AND PLUMB IN CORRECT POSITION.  
 9.6.3 MAKE PROVISIONS FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN OF PERMANENT BRACING.  
 9.6.4 IN FIELD ADJUSTMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION BY THE ENGINEER OF RECORD.
- 9.7 DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF ENGINEER.
- 9.8 PLACE HEADERS AND SUPPORTS TO FRAME OPENINGS.  
 9.8.1 COORDINATE PLACEMENT OF SHEATHING WITH PRIMER CONSISTENT WITH SHOP COAT.  
 9.8.2 AFTER ERECTION, TOUCH-UP DAMAGED SURFACES WITH PRIMER CONSISTENT WITH SHOP COAT.  
 9.8.3 ERECTION TOLERANCES: 1/2" INCH MAXIMUM, FROM TRUE POSITION.

**12.0 STRUCTURAL STEEL**

- 12.1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
- 12.2 FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC "SPECIFICATIONS" FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", 9th EDITION OF THE ALLOWABLE STRESS DESIGN MATERIAL SPECIFICATIONS.
- 12.3 ALL STEEL SHALL BE PRODUCED DOMESTICALLY.  
 \* ROLLED SHAPES, PLATES AND BARS: ASTM A36 EXCEPT WIDE FLANGE SECTIONS SHALL BE ASTM A572.  
 \* PIPE: ASTM A53, TYPE E, GRADE B.  
 \* TUBES: ASTM A500, GRADE B.  
 \* ANCHOR BOLTS, RODS, NUTS AND WASHERS: ASTM A36.  
 \* COOL FINISHED CARBON STEEL: ASTM A1080.  
 \* BOLTED STRUCTURAL CONNECTIONS: UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE 3/4" - ASTM A325, TYPE N BOLTS INDICATED LESS THAN 5/8" - SHALL BE ASTM A307.  
 \* WELDED CONNECTIONS: ELECTRODES - E70XX UNO (LOW HYDROGEN). FILET WELDS SHALL BE 3/16" UNO.
- 12.4 HIGH-STRENGTH FIELD BOLTED CONNECTIONS SHALL BE INSTALLED, TIGHTENED, TESTED AND INSPECTED ACCORDING TO SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 CONNECTIONS (E-5). RESISTANCE TO SHEAR SHALL BE CLASSIFIED AS SLIP-CRITICAL (SC) UNLESS INDICATED ON PLANS AS SUCH. "SLIP-TIGHT" AS DEFINED IN THE SPECIFICATION IS SUFFICIENT FOR ALL BOLTED CONNECTIONS UNLESS THE BOLTS IN SUCH A CONNECTION ARE INDICATED AS SLIP CRITICAL (SC). SLIP CRITICAL BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION.
- 12.5 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER TRADES ARE INSTALLED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
- 12.6 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- 12.7 GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHANK, NON-METALLIC GROUT. (5000 PSI MIN)
- 12.8 SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.
- 12.9 ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. STRUCTURAL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT AREAS THAT WILL RECEIVE SPRAY-ON FIRE PROTECTION SHOULD NOT BE PRIMED.

**MAINTENANCE BUILDING RETROFIT**

JOB NUMBER:	20100128
DATE:	FEBRUARY 4, 2011
DRAWN BY:	JCR
SCALE:	SHEET NUMBER <b>S1.0</b>
SIGN & SEAL	

Tampa, Florida



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