

GENERAL NOTES-WOOD FRAMING

- GENERAL
- INSIGHT Structures, LLC, is not responsible for any variations in the framing plans due to owner/contractor or architect changes, unless approved in writing by INSIGHT Structures, LLC.
 - All construction shall conform to current city building code.
 - Design live loads:
Stairs/Exits--100psf
Office floor--50psf/ 2000 lb point load
Lobbies and first floor corridors--100psf/ 2000 lb point load
Corridors above first floor--80psf/ 2000 lb point load
- Handrails and guards by others shall be designed to resist 50plf or a single concentrated load of 200lb applied in any direction along the top. Attachments & supporting elements must transfer these loads to the appropriate structure.

- GYPSUM SHEATHING
- Gypsum wallboard shall be nailed with 5d Cooler or Parker nails or drywall screws to all studs and to the top and bottom plates with maximum nail spacing of 7".

- MASONRY TIES
- Install 22 ga. x 1" corrugated brick ties 3" into masonry at spacing no greater than 16" horizontal and 16" vertical, unless otherwise noted..

GENERAL NOTES - STRUCTURAL STEEL

- GENERAL
- Fabricator shall have an AISC quality certification in category 1.
 - All construction shall conform to the current city building code.
 - INSIGHT Structures, LLC is not responsible for any variations in the framing plans due to contractor or architectural changes, unless approved in writing by INSIGHT Structures, LLC.

- MATERIALS
- Structural steel shall be detailed, fabricated, and erected in accordance to AISC "Manual of Steel Construction", fifteenth edition and supplements.
 - Wide flange shall conform to ASTM A992, channel, angle and plate shall conform to ASTM A36 and pipe shall conform to ASTM A53, grade B. Tube shall conform to ASTM A500, grade B.
 - Anchor bolt material shall conform to ASTM-A36. Threads and hex nuts per ASTM-A307. Fabricator to furnish anchor bolts and setting plan. Field to set anchor bolts according to fabricator's bolt setting plan.
 - Field connections are fastened with 3/4" diameter ASTM-A325N bolts, unless noted. All A325 bolts are to be fastened by "turn of nut" method.

- PROCEDURE
- Beam connection capacity shall be determined by AISC-M, part 2 "Uniform Load Constants for Beams Laterally Supported", unless noted.
 - Frame beam connections shall be determined by AISC-M, part 4, Table III (Weld A), unless otherwise noted.
 - Beams framing to pipe or tube columns: use shop welded connection plate to columns and 2 vertical rows of holes for beam web connections, unless noted. Shop welds shall be determined by AISC-M, part 4, Table XIX, unless noted. Holes for bolts in beams shall be determined by AISC-M, part 4, Table XI, unless noted.
 - Length of beam connection angles or plates shall be at least 1/2 the beam "t" dimension.

- CONNECTIONS
- Standard drilled holes for field connections, unless noted. Burned holes are not allowed.
 - Connections shall have a minimum of 3 bolts.
 - Connection plates to be a minimum of 3/8" thick, unless noted.
 - All re-entrant cuts to have a minimum of 1/2" radius.

- SHOP DRAWINGS
- INSIGHT Structures' approval of shop drawings does not constitute this company's acceptance or responsibility for the design adequacy of any connections unless specifically noted on shop drawings to verify a particular connection. It is the fabricator's responsibility to assure all connections are made according to AISC specifications.
 - Submit 3 copies of checked shop drawings for INSIGHT Structures' approval before fabrication. Unchecked shop drawings are subject to be returned for approval resubmittal.

- MISCELLANEOUS
- All welding shall conform to AWS code. Welding electrodes to be E70.
 - Paint steel with one (1) shop coat zinc chromate or red oxide primer, unless noted.
 - All galvanized areas affected by field burning, welding, drilling, etc., shall be cleaned and painted with carbozinc #11 primer or equal.
 - See architect's drawings for location and size of loose lintels, sill angles, and partition header angles.
 - Splicing of members prohibited without prior approval in writing by INSIGHT Structures.
 - Provide holes for attaching wood nailers and/or blocking at 16" on center, staggered, where applicable.

GENERAL NOTES-LIGHT GAUGE STEEL FRAMING

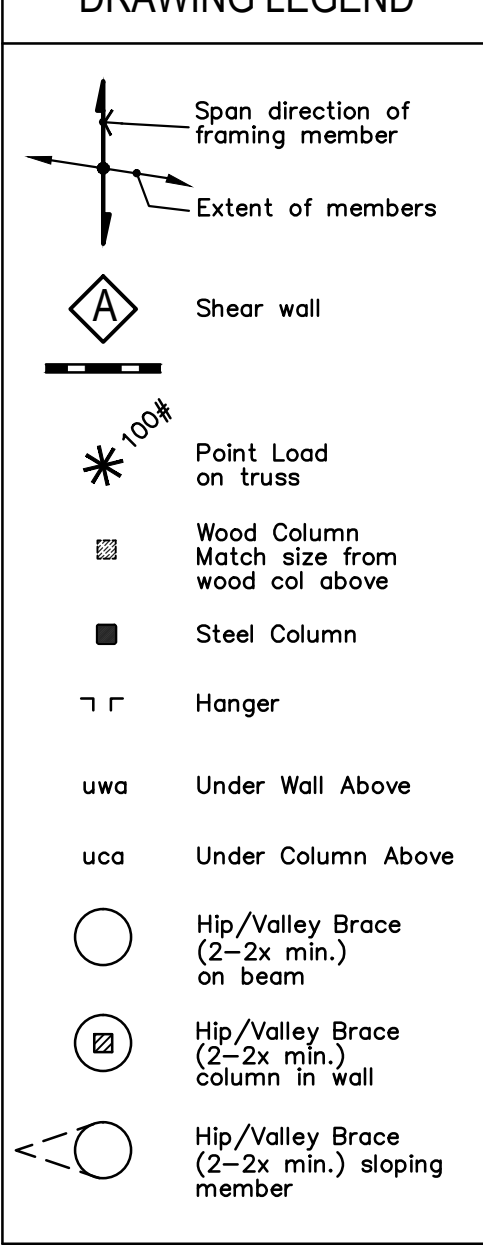
- GENERAL
- Light gauge steel construction shall conform to the North American Specification for the design of Cold-Formed Steel Structural Members, AISI, current edition with current supplements.
 - All light gauge steel framing shall conform to ASTM A446 Grade D, 50 ksi yield strength.
 - All ends of studs shall have 16 gauge track unless noted otherwise.
 - All stud to stud and stud to track connections shall be fastened with two #12 screws unless noted otherwise.
 - Fasten tracks to concrete with two rows Hilti X-U 16 MX powder actuated fasteners at 24" on center.

GENERAL NOTES-MASONRY CONSTRUCTION

- GENERAL
- Masonry construction shall conform to current building code (ACI 530.1/ASCE 6/TMS 406), current edition.
 - Hollow concrete masonry shall conform to ASTM C90, 125 pcf density with a minimum 1800 psi compressive strength on the net area of the block.
 - Mortar shall conform to ASTM C270, type S with a minimum compressive strength of 1800 psi.
 - Grout shall conform to ASTM C476 with a minimum compressive strength of 2000 psi at 28 days.
 - Reinforcing steel shall conform to A615 Grade 60 and shall be lapped 45 bar diameters if tied with wire or 71 bar diameters if otherwise. Vertical reinforcement shall be held in position at intervals not exceeding 192 bar diameters.
 - Provide horizontal joint reinforcement (DUR-O-WAL standard LADUR galvanized or equal) at 16" on center. DUR-O-WAL shall be lapped 12" minimum.
 - Horizontal reinforcing bars shall be placed in continuous masonry courses of either bond beams or lintel beams and shall be fully grouted in place. All splices shall be wire tied. Bond beams shall have 2 #5 reinforcing bars unless noted otherwise.
 - All cells with vertical or horizontal reinforcing shall be fully grouted with 2000 psi grout (noted above). Walls and cross webs shall be fully bedded in mortar. Cleanout openings shall be provided at the bottoms of all cells to be filled with at each lift or pour in excess of four feet.
 - The first two cells at wall openings and corners or wall ends shall have 1 #5 vertical in each cell and grouted solid from foundation to top of wall.
 - Refer to architectural plans for all expansion and construction joint locations.

ALL MASONRY WALLS SHOWN ON THE STRUCTURAL PLANS HAVE BEEN DESIGNED TO RESIST THE NOTED BUILDING CODE LOADING CONDITIONS AFTER THE INSTALLATION OF ALL STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL PROPERLY AND ADEQUATELY BRACE MASONRY WALLS AT ALL CONSTRUCTION PHASES TO RESIST ERECTION AND LATERAL LOADS APPLIED PRIOR TO THE COMPLETION OF CONSTRUCTION.

DRAWING LEGEND

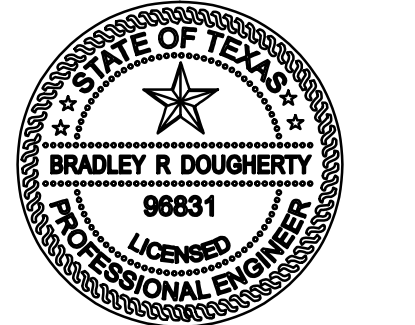


INSIGHT

INSIGHT Structures LLC.
3111 Sackett Street, Suite 200 | Houston, Texas 77098
Ph: 713.523.0775 Fax: 713.523.2402

www.insightstructures.com
Firm No.:

12871



Bradley R. Dougherty
12.15.11

THE CONSTRUCTION DOCUMENTS ARE VALID ONLY UP TO ONE YEAR PAST THE SEALED DATE

project no.: **11-1021.103**

5301 Bissonnet

Houston, TX 77401

DO NOT SCALE DRAWINGS	
12.2.11	IS Review
12.15.11	Permit/ Construction

sheet title:

THE FRAMING FOR THIS PROJECT HAS BEEN
DESIGNED TO MEET
110 MPH | 3 SECOND GUST | EXPOSURE B
WINDSPEED REQUIREMENTS

**FRAMING DETAILS/
NOTES**

sheet no.:

S4.0

DO NOT SCALE DRAWINGS
* Verify all dimensions and concrete elevations with architectural plans. Notify INSIGHT Structures of any discrepancies prior to construction.
* All existing conditions will require field verification. Any discrepancies between INSIGHT Structures' drawings and field conditions shall be brought to the attention of INSIGHT Structures, in writing, for corrective action.
* Any discrepancies between the final architectural drawings and the provided structural drawings shall be brought to the attention of INSIGHT Structures for any required corrective action.