

GENERAL NOTES

- 1.1 Fabrication shall be in accordance with R.B.S. standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3". R.B.S. manufacturing procedures are certified by:
- | Reference | Certification numbers |
|-----------|-----------------------|
| Houston | R.B.S. #456 |
- 1.2 **MATERIALS**
- | ASTM DESIGNATION | MIN. YIELD STRENGTH |
|---------------------------------------|-----------------------------------|
| Hot Rolled Steel Shapes (W, S, C & L) | A572 Fy = 50 KSI |
| Steel Pipes | A500 Fy = 42 KSI |
| Structural Tubing | A500 Fy = 46 KSI |
| Structural Steel Web Plate | A572/A1011 Fy = 55 KSI |
| Structural Steel Flange Plates/Bars | A529/A572 Fy = 55 KSI |
| Cold Formed Light Gage | A653/A1011 Fy = 50, 55 KSI |
| Roof and Wall Sheets | A792/A653 Fy = 50, 80 KSI |
| Cable Brace | A475 - TYPE 1 Extra High Strength |
| Rod Brace | A36 Fy = 36 KSI |
- | MIN. TENSILE STRENGTH | |
|---------------------------------------|----------------------------|
| Machine Bolts & Nuts | A307 Fu = 60 KSI |
| High Strength Bolts (1"Ø and less) | A325-TYPE 1 Fu = 120 KSI |
| High Strength Bolts (>1"Ø to 1 1/2"Ø) | A325-TYPE 1 Fu = 105 KSI |
| Anchor Bolts (if supplied) | A36/A307/F1554 Fu = 60 KSI |
- 1.3 **PRIMER**
Shop primer paint is a rust inhibitive primer which meets the end performance of Federal Specification TT-P-636 and is R.B.S. Red Oxide color. This point is not intended for long term exposure to the elements. R.B.S. is not responsible for any deterioration of the shop primer paint as a result of improper handling and/or jobsite storage. R.B.S. shall not be responsible for any field applied paint and/or coatings. (Section 6.5 AISC Code of Standard Practice, 9th Edition). Nominal thickness of primer will be 1 mil unless otherwise specified in contract documents.
- 1.4 **GALVANIZED OR SPECIAL COATINGS:**
See Contract Documents
- 1.5 **ALL BOLTS ARE 1/2"Ø x 0'-1" A307 EXCEPT:**
a) Eave strut connection - 1/2"Ø x 0'-1 1/4" A307
b) Endwall rafter splice - 5/8"Ø x 0'-1 3/4" A325-N
c) Endwall column to rafter connection - 1/2"Ø x 0'-1 1/4" A325-N
d) Main frame connections - SEE CROSS SECTION
NOTE: Washers are not supplied unless noted otherwise on drawing
- 1.6 **A325 BOLT TIGHTENING REQUIREMENTS**
All high strength bolts are A325-N unless specifically noted otherwise. Structural bolts shall be tightened by the turn-of-the-nut method in accordance with the 9th Edition AISC "Specification For Structural Joints" using ASTM A325 or A490 Bolts, when specifically required. A325-N bolts are supplied without washer unless otherwise noted on the drawings.
All bolted connections unless noted are designed as bearing type connections with bolt threads not excluded from the shear plane.
- 1.7 **CLOSURE STRIPS ARE FURNISHED FOR APPLICATION:**
INSIDE - Under roof panels at eave
OUTSIDE - Between endwall panels and rake trim
- Under continuous ridge vent skirts
- 1.8 **ERECTION NOTE:**
All bracing, strapping, & bridging shown and provided by R.B.S. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.
- 1.9 **ERECTION AND UNLOADING NOT BY R.B.S.**
- 1.10 **SHORTAGES**
Any claims or shortages by buyer must be made to R.B.S. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.
- 1.11 **CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)**
Claims for correction of alleged misfits will be disallowed unless R.B.S. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of R.B.S.

BUYER/END USE CUSTOMER RESPONSIBILITIES

- 2.1 It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release R.B.S. to fabricate upon receiving such.
- 2.2 Rigid Building Systems (hereafter referred to as R.B.S.) standard specifications apply unless stipulated otherwise in the Contract Documents. R.B.S. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.
- 2.3 In case of discrepancies between R.B.S. structural steel plans and plans for other trades, R.B.S. plans shall govern. (Section 3 AISC Code of Standard Practices, 9th Edition)
- 2.4 Approval of R.B.S. drawings and calculations indicates that R.B.S. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the R.B.S. design concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)
- 2.5 Once the BUYER/END USE CUSTOMER has signed R.B.S. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and shipping schedule.

RIGID

BUILDING SYSTEMS



DRAWING PACKAGE

RIGID SALES ORDER NO. : 28268 - BLDG. 'D'

CUSTOMER : ELEGANTE ENTERPRISES, INC.

END USER : PAINTERS SERVICE CENTER

JOBSITE : 1600 HILTON DRIVE

: ST. GEORGE, UT 84770

: WASHINGTON COUNTY

END USE : OFFICE

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED:

DESIGN LOADS:

Design Code : IBC 06
Enclosure : Closed
Dead Load (psf) : Metal building structure only by RBS
Collateral Load : 3 psf
Wind Load
 Basic Wind Speed (3 sec gust) : 90 mph
 Wind Importance Factor (Iw) : 1.00
 Wind Exposure : C
 Internal Pressure Coefficient (GCPI) : +0.18/-0.18
 Designed Wind Pressure for Wall Panel : 22.0 psf
Live Load :
 Primary Framing : 20 psf Trib. Area Reduction: yes
 Secondary Framing : 20 psf
Snow Load
 Ground Snow Load (Pg) : 21.000 psf
 Roof Snow Load (Pf) : 20 psf
 Sloped Roof Snow Load (Ps) : 20 psf
 Snow Exposure Factor (Ce) : 1.000
 Snow Importance Factor (Is) : 1.000
 Thermal Factor (Ct) : 1.000
 Sloped Factor (Cs) : 1.000

Seismic Load

Seismic Importance Factor (Ie) : 1.00
 Seismic Occupancy Category : II
 Site Class : D
 Mapped Spectral Response Acceleration : Ss=0.511 S1=0.156
 Spectral Response Coefficients : Sds=0.474 Sd1=0.226
 Seismic Design Category : D
 Basic Force Resisting Systems Used : Ordinary Steel Moment Frames (OSMF) - Rigid Frames
 Ordinary Steel Concentrically Braced Frames (OSCBF) - Bracings
 Design Base Shear (V) : Rigid Frames = 1.02K, 1.23K
 EW Bracing =
 Wind Bent = 1.37K, 1.72K
 Seismic Response Coefficient (Cs) : Rigid Frames = 0.146
 EW Bracing =
 Wind Bent = 0.146
 Response Modification Factors (R) : Rigid Frames = 3.25
 EW Bracing =
 Wind Bent = 3.25
 Analysis Procedure Used : Equivalent Lateral Force Procedure
Other Loads/Requirements : w/ one RTU roof support F.O. @ 750lbs.

BUILDING DESCRIPTION:

Width : 26
Length : 50
Roof Slope : 0.5:12
Eave Height (Backside) : 18.083
Eave Height (Frontside) : 17
Bay Spacing : 1 at 27'-6"
 1 at 22'-6"

COVERING AND TRIMS:

Roof Panels & Trims

Panel Type : 26 Ga. PR
 Panel Color : Galvalume Plus
 Trim Colors
 Eave Trim : Wall Color S3000
 Eave Gutter : Wall Color S3000
 Gable Trim : Wall Color S3000

Wall Panel & Trims

Panel Type : 26 Ga. R
 Panel Color : Wall Color S2000
 Trim Colors
 Corner Trims : Wall Color S3000
 Opening Trims : Wall Color S3000
 Downspouts : Wall Color S3000
 Base Trim : Wall Color S3000
 Mas. Flash : N/A

Special Requirements : NONE

FOR PERMIT

- 2.6 The BUYER/END USE CUSTOMER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by R.B.S. and R.B.S. steel system are to be considered and coordinated by the BUYER/END USE CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or R.B.S. assumptions will govern (Section 4 and Commentary, AISC Code of Standard Practice, 9th Edition)
- 2.7 It is the responsibility of the BUYER/END USE CUSTOMER to insure that R.B.S. plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that R.B.S. or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components furnished by R.B.S.
- 2.8 The BUYER/END USE CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with R.B.S. "For Construction" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7 AISC Code of Standard Practice, 9th Edition.)
- 2.9 Rigid Building Systems is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete. Unless otherwise provided in the Order Documents, R.B.S. does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The END USE CUSTOMER should assure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site. It is recommended that the anchorage and foundation of the building be designed by a Registered Professional Engineer experienced in the design of such structures. (Section A10 1996 MBMA Low Rise Building Systems Manual)
- 2.10 Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are to be reported immediately to R.B.S. by the BUYER/END USE CUSTOMER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (Section 7 AISC Code of Standard Practice, 9th Edition)
- 2.11 Neither the fabricator nor the BUYER/END USE CUSTOMER will cut, drill or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USE CUSTOMER is responsible for furnishing complete information as to materials, size, location and number of alterations prior to preparation of shop drawings. (Section 7 AISC Code of Standard Practice, 9th Edition)
- 2.12 **WARNING** In no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run-off from copper flashing, wiring, or tubing onto Galvalume should be avoided.
- 2.13 **SAFETY COMMITMENT** RIGID BUILDING SYSTEMS has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of R.B.S. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, State, and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees. Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.
- 2.14 Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction to ensure smooth operation at any given time.
- 2.15 It is recommended by Factory Mutual (Reference: B2.44) that roofs be cleared of snow when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See Chart below.

ROOF SNOW LOAD (IN PSF)	EQUIVALENT SNOW HEIGHT AT ROOF (IN INCHES)	RECOMMENDED SNOW HEIGHT WHEN SNOW REMOVAL SHOULD START (IN INCHES)
20	16.60	8.30
25	17.25	8.62
30	17.90	8.95
35	18.55	9.28
40	19.20	9.60
45	19.85	9.92
50	20.50	10.25
55	21.15	10.58
60	21.80	10.90
65	22.45	11.22
70	23.10	11.55
75	23.75	11.88
80	24.40	12.20

NOTE:
For Snow/Ice Removal Procedure, Refer to Metal Building System Manual 2002 Edition, Section A8.4, Page XI-A8-2.

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SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID BUILDINGS ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

