



MARANA MODEL

12' x 10'
(SINGLE COLUMN)

SPECIFICATIONS

Dimensions:

Roof Dimensions	12'-0" x 10'-0"
Column Dimensions (center to center)	3'-0" x 5'-0"
Minimum Clearance @ Lower Eave	11'-6"
Shed Roof	10° pitch
Square Feet Under Roof	120

Columns shall be 7"x 7" steel tube, minimum .250" wall thickness.

All beams shall be structural steel tube sized according to engineering.

All bolts shall be A-325 or A307 and hidden at all connections.

Roofing shall be .032" Beveled rib BWR 360 perforated aluminum roof.

Fascia shall be tube steel.

(2) curved gussets by CRS.

Open or welded "C" channel, "I" beams, "S" or "Z" purlins or angle iron shall not be allowed.



STANDARD SPECIFICATIONS

PERFORATED CORRUGATE ALUMINUM SHEET

GENERAL:

1. All structures shall be designed and fabricated to the IBC (Latest Edition) or current local building code with standard load designs of the greater value of 20# per S.F. minimum live load and 115 mph sustained wind load or site specific conditions and the applicable zone for seismic loads.
2. All members shall be designed according to the "American Institute of Steel Construction (AISC) specifications and the American Iron and Steel Institute (AISI) specifications for cold-formed members.
3. All fabrication welds shall be in strict accordance with the structural welding code of the American Welding Society (AWS) specifications. All structural welds shall be in compliance with the requirements of "Pre-qualified" welded joints. All welding shall conform to ASTM A-233 series E-70XX electrodes - low hydrogen.
Field welding shall not be required.
4. When required, after award of bid, the shade structure manufacturer shall submit structural calculations, sealed by a registered engineer in the state in which the structure is to be erected for review and approval by the approving agency.
5. Manufacturer qualifications: All manufacturers shall have a minimum of (20) twenty years experience in the fabrication of tubular steel shade structures. Shade structure and kiosk fabrication shall be the manufacturer's primary business. Manufacturer shall have fabricated similar structures to that which is specified. All non-specified manufacturers shall submit complete shop drawings indicating type, size & gauge of material used, with detailed connections to the specifying agency or design firm at least 10 days prior to bid opening for review and written pre-approval. All bids submitted without prior approval will be rejected.

FOOTINGS & COLUMNS:

1. Footings shall be structurally engineered by the structure manufacturer to meet local codes and site conditions. (Sample footing drawings shall be made available to the contractor or owner from the manufacturer). When required for structure installation, anchor bolts shall be supplied by the owner / contractor. Columns shall be ASTM 500 grade B. Concrete footing rebar (if required) shall be ASTM A-615 grade 40 #4 bars & smaller, grade 60 #5 bars & larger. Concrete shall be 5 sack mix "Portland" cement. Maximum slump shall not exceed 4". Concrete compressive strength shall be a minimum of 2500 psi @ 28 days.



FRAME MEMBERS:

1. Only American (domestic) made steel shall be used in the construction of this shelter. Mill certification shall be made available upon request. All frame members shall be one piece hollow steel shape (HSS) tube with a minimum .120 (1/8") wall thickness, sized according to engineering. All frame members shall be bolted together with bolts totally concealed. All tubing for frame members shall be ASTM 500 grade B. Beam end plates shall be ASTM A36 fy=36,000 psi UNO. Bolts shall be A 325's unless noted otherwise in the structural engineering calculations. *"I" beams, Angle iron, "C", "Z" or "S" purlins or beams, open or closed, shall not be allowed.*

ROOFING:

1. All roofing shall be .032 aluminum ASTM B 209 Alloy 3003 H14 or 3105 H14, perforated corrugated panels. Fascia shall be tube steel. Screws & rivets shall match roof color. No exceptions taken for roof type.

PAINT:

1. All frame members shall be media blasted to a white finish removing all rust, scale, oil and grease. Powder coating for all frame members shall be provisionally warranted for (5) five years with zinc rich primer (2.5-3 mils) and TGIC polyester (2.5-3 mils) minimum total 5-6 mils finish. Finish shall be a smooth uniform surface with no pits, runs or sags.

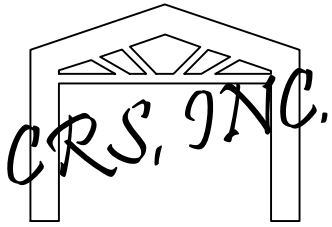
ERECTION:

1. Manufacturer shall supply complete layout and detail plans with installation instructions for the structure. The structure shall be erected in a work-man-like manner with framing, roofing and trim installed according to the manufacturer's installation instructions. Care shall be taken to avoid damaging the structure during installation. Touch up powder coat paint with paint provided to prevent rusting. Components of the structure shall be covered and kept dry prior to erection.

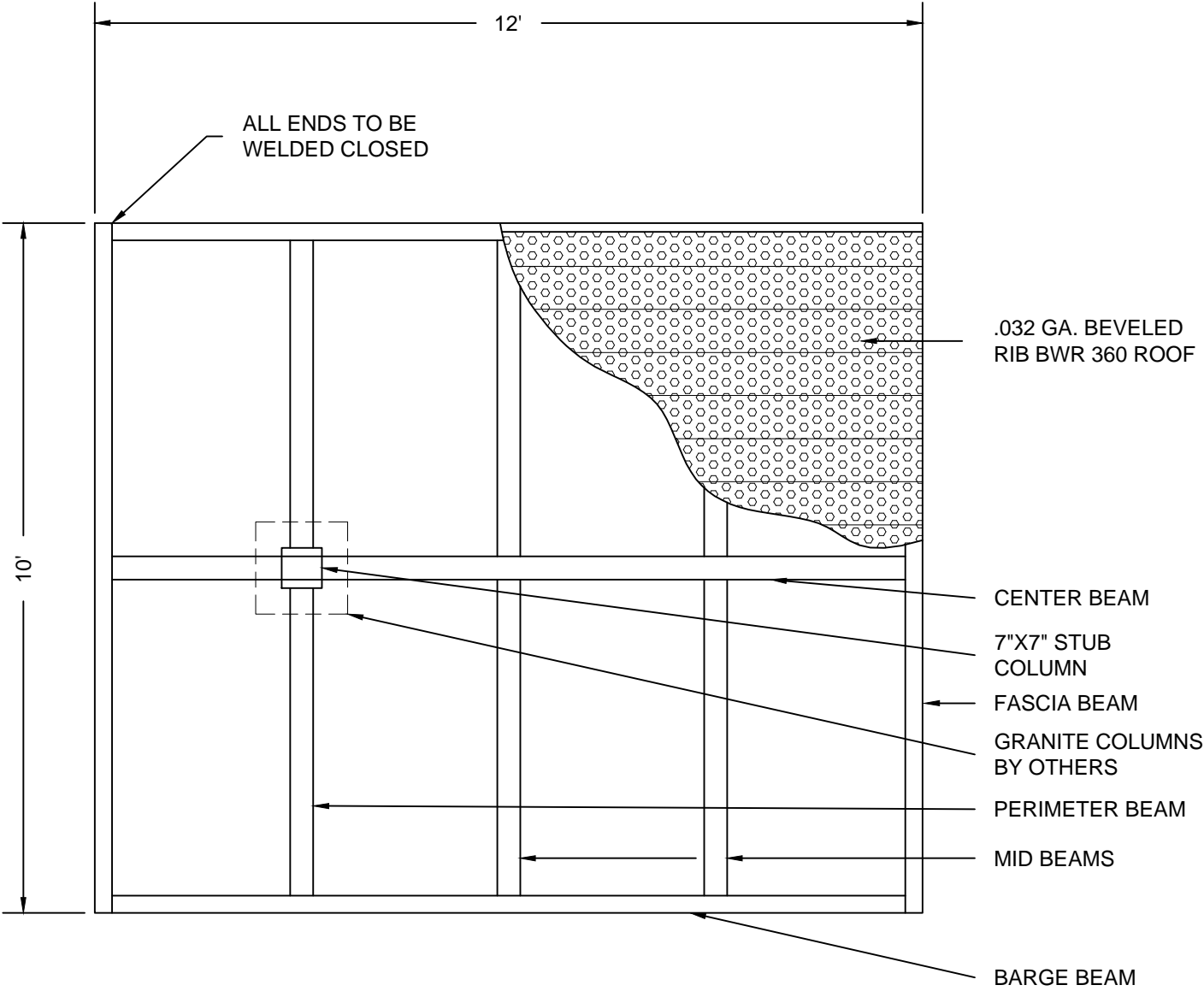
WARRANTEE:

1. Manufacturer shall warranty the structure to be free from defects in material and workmanship for a period of (10) ten years from date of acceptance by owner. Warranty does not include damage from theft, fire, vandalism or acts of God. Manufacturer shall repair or replace structure components of like kind at his option, to match existing material and workmanship. Roof finish shall be warranted for (30) thirty years under the manufacturer's warranty. Powder coat paint shall be warranted for (5) five years after acceptance from owner against peeling, flaking and rusting. Warranty does not cover damage caused from shipping, erection of structure, lack of touchup and maintenance, overspray from lawn sprinklers or vandalism. Bolt threads are not powder coated and therefore are not covered under the powder coat warranty.

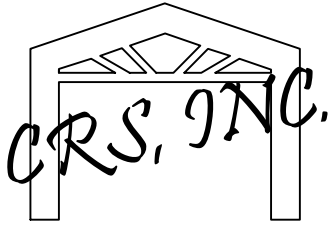
NOTE: Engineering specifications take precedence over drawings if differences occur.



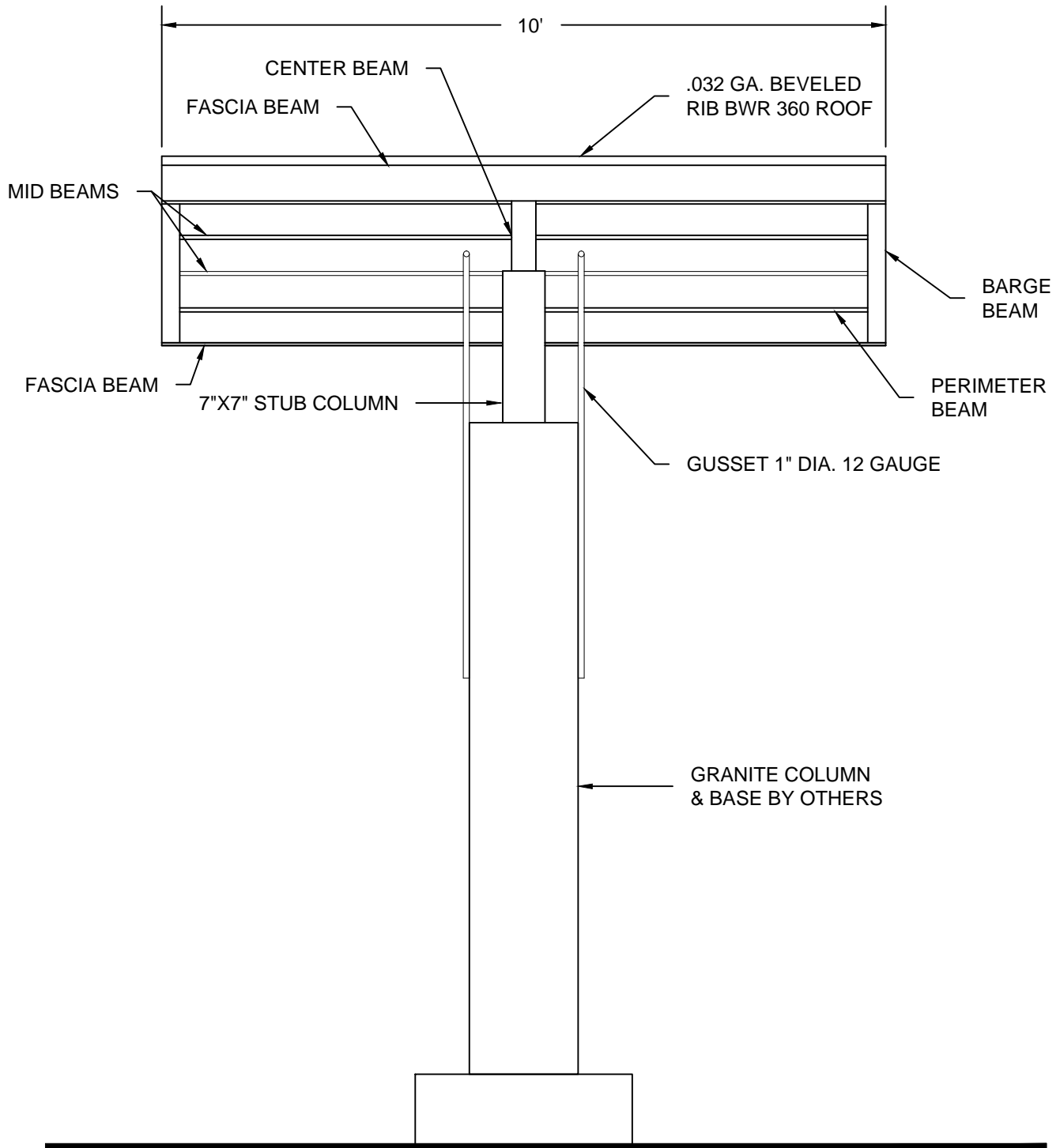
NOT FOR CONSTRUCTION



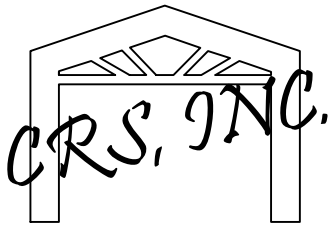
PLAN VIEW 12'X10' CUSTOM MARANA MODEL
NTS



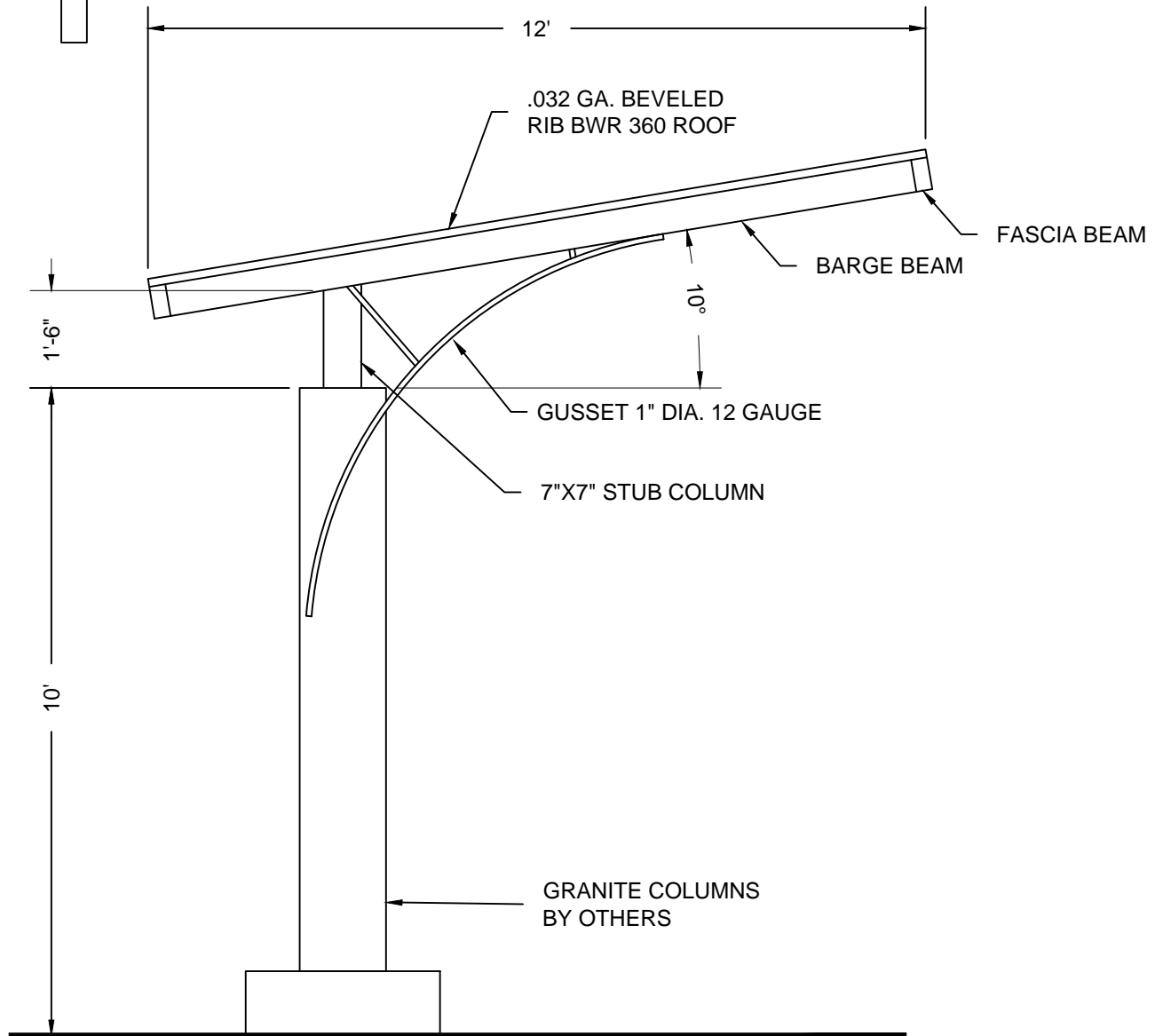
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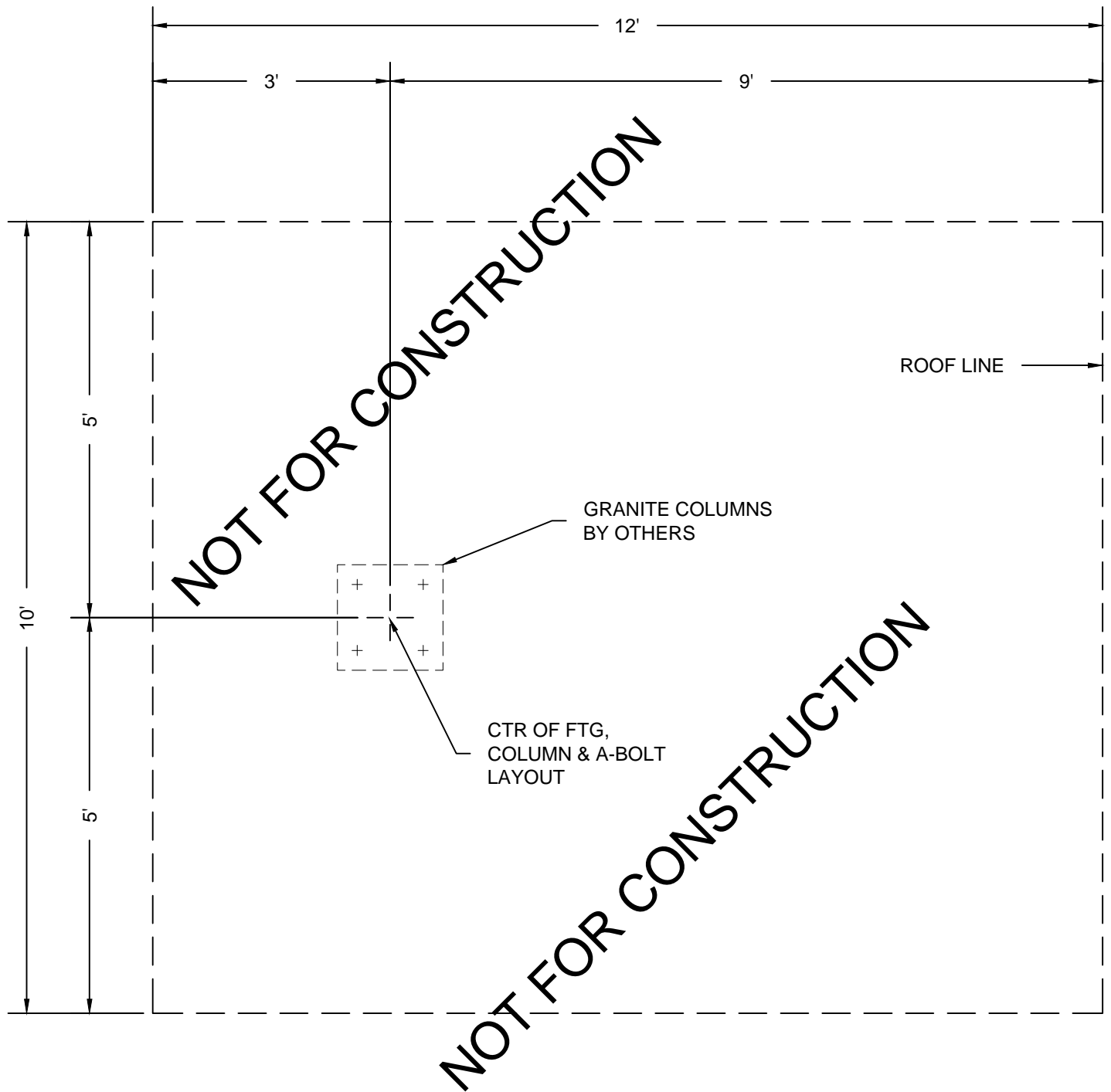
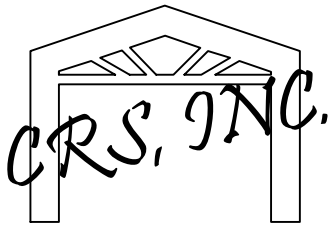
ELEVATION 12'X10' CUSTOM MARANA MODEL
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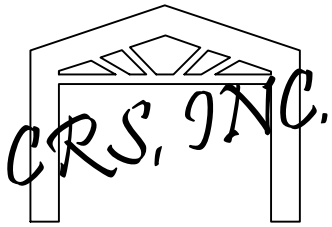
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END ELEVATION 12'X10' CUSTOM MARANA MODEL
NTS

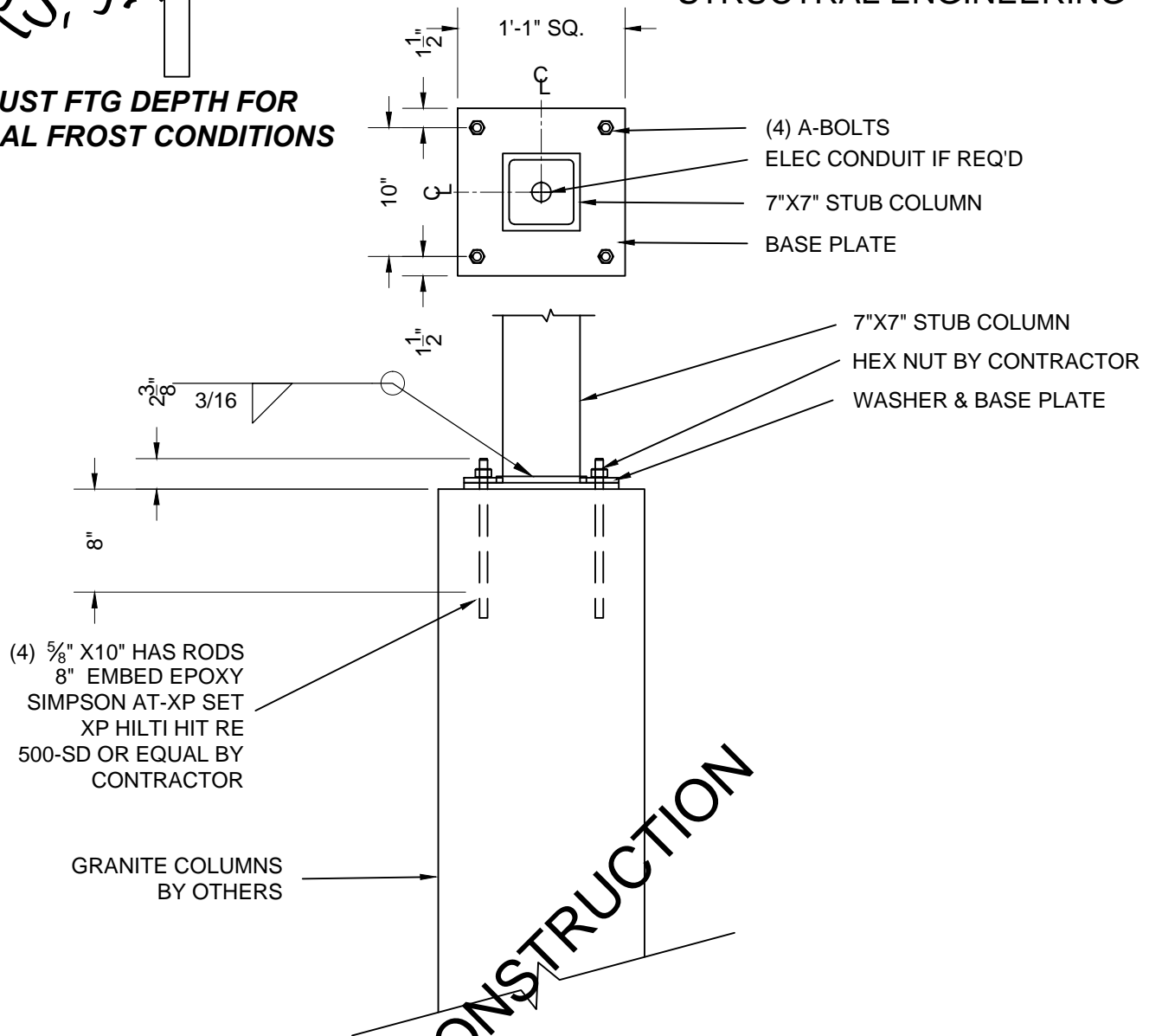


LAYOUT PLAN 12'X10' CUSTOM MARANA MODEL
NTS



ADJUST FTG DEPTH FOR
LOCAL FROST CONDITIONS

NOTE: FOR ILLUSTRATION ONLY!
FOOTING SIZE MAY CHANGE w/
STRUCTURAL ENGINEERING



FOOTING & COLUMN DETAIL
12'X10' CUSTOM MARANA MODEL
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