



CUSTOM SCOTTSDALE MODEL

20' X 20'

SPECIFICATIONS

Dimensions:

| | |
|--|---|
| Main Roof Dimensions: | 20'-0" x 20'-0" |
| Column Dimensions (center to center of columns): | 15'-10 ¹ / ₄ " x 15'-10 ¹ / ₄ " |
| Eave Height: | 7'-6" |
| Roof Height @ Ridge of Cupola: | ±16'-4" |
| Hip Roof: | 6:12 pitch |
| Second Tier: | ±6'-8" x 6'-8" |
| Square Feet Under Main Roof: | 400 |

Stub columns shall be 7"x 7" steel tube, minimum .188 wall thickness atop (4) 4"x4" cluster columns, minimum .120 wall thickness.

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

All bolts shall be A-325 or A-307 and hidden at all connections.

Roofing shall be 24 gauge 12" OC Standing Seam steel pre-cut and pre-finished with ribs running with the slope of the roof.

Trim shall be 24 gauge pre-finished to match roofing.

Lattice shall be provided by CRS.

Cupola shall be functional.

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



STANDARD SPECIFICATIONS
12" O.C. STANDING SEAM ROOF
w/ ZINC RICH PRIMER
& TGIC POLYESTER POWDER COAT

GENERAL:

1. All structures shall be designed and fabricated to the IBC (or latest edition applicable code) with standard load designs of 20# per S.F. live load, 100 mph minimum wind load 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 series E-70XX metal core wire with Star 66 gas mix.
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). Anchor bolts for surface mounted structures 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". Compressive strength: 2500 psi @ 28 days.

FRAME MEMBERS AND COMPRESSION RING:

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 structural steel tube with a minimum .120 (1/8") wall thickness, sized according to engineering. All frame members shall be bolted together with bolts totally concealed. Compression rings shall be fabricated from structural steel tube or flat plate steel and



shall have all connections concealed from view. All tubing for frame members shall be ASTM 500 grade B. Beam end plates shall be ASTM A36 $f_y=36,000$ psi UNO. Bolts shall be A 307's, or 325's unless noted otherwise. *"I" beams, Angle iron, "C", "Z" or "S" purlins or beams, open or closed, shall not be allowed.*

ROOFING AND TRIM:

1. All roofing shall be 24 gauge Zincalume / Galvalume coated steel panels. "Standing Seam" panels shall be Design Span by AEP Span with $1\frac{3}{4}$ " high ribs @ 12" o.c. All roofing shall be pre-finished with Duratech 5000 or equal, 30 year paint finish. All roof panels shall be pre-cut with ribs running with the slope of the roof. Fascia shall be tube steel. Trim shall be 24 gauge Zincalume / Galvalume coated pre-finished to match the roof color. Screws & rivets shall match roof color.

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 and TGIC polyester, min. 4-5 mil finish. Finish shall be a smooth uniform surface with no pits, runs or sags.

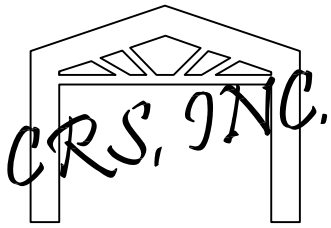
ERECTION:

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 manufacturers' installation instructions. Care shall be taken to avoid damaging the structure during installation. Components of the structure shall be covered and kept dry prior to erection.

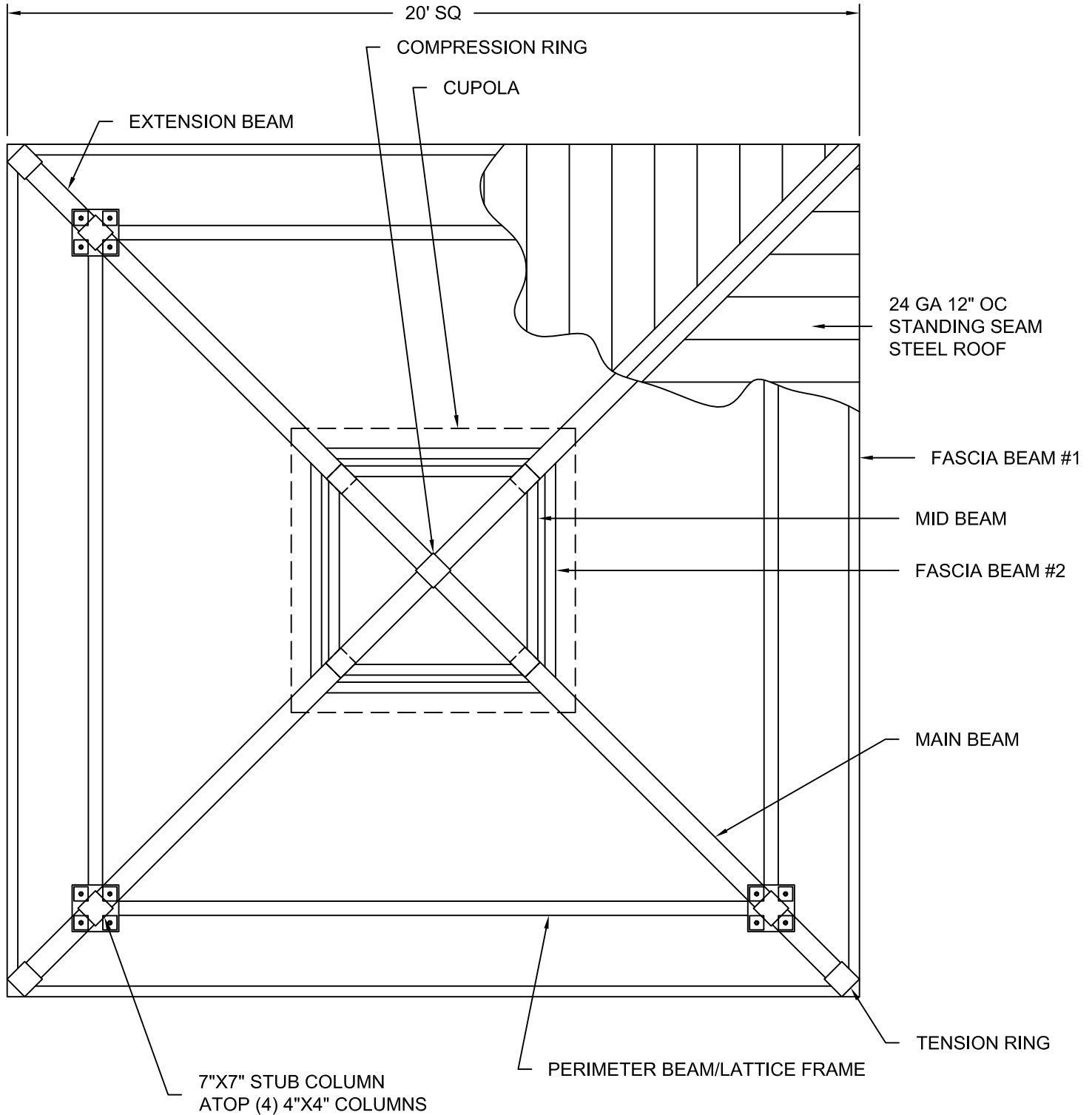
WARRANTEE:

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. Steel roof finish shall be warranted for (30) thirty years under a separate roof manufacturer's warranty. Powder coat paint shall be warranted for (10) ten 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.

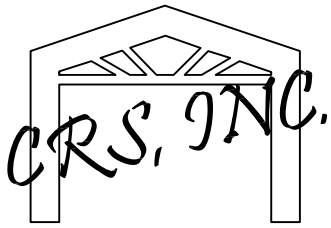
NOTE: Engineering specifications take precedence over drawings if differences occur.



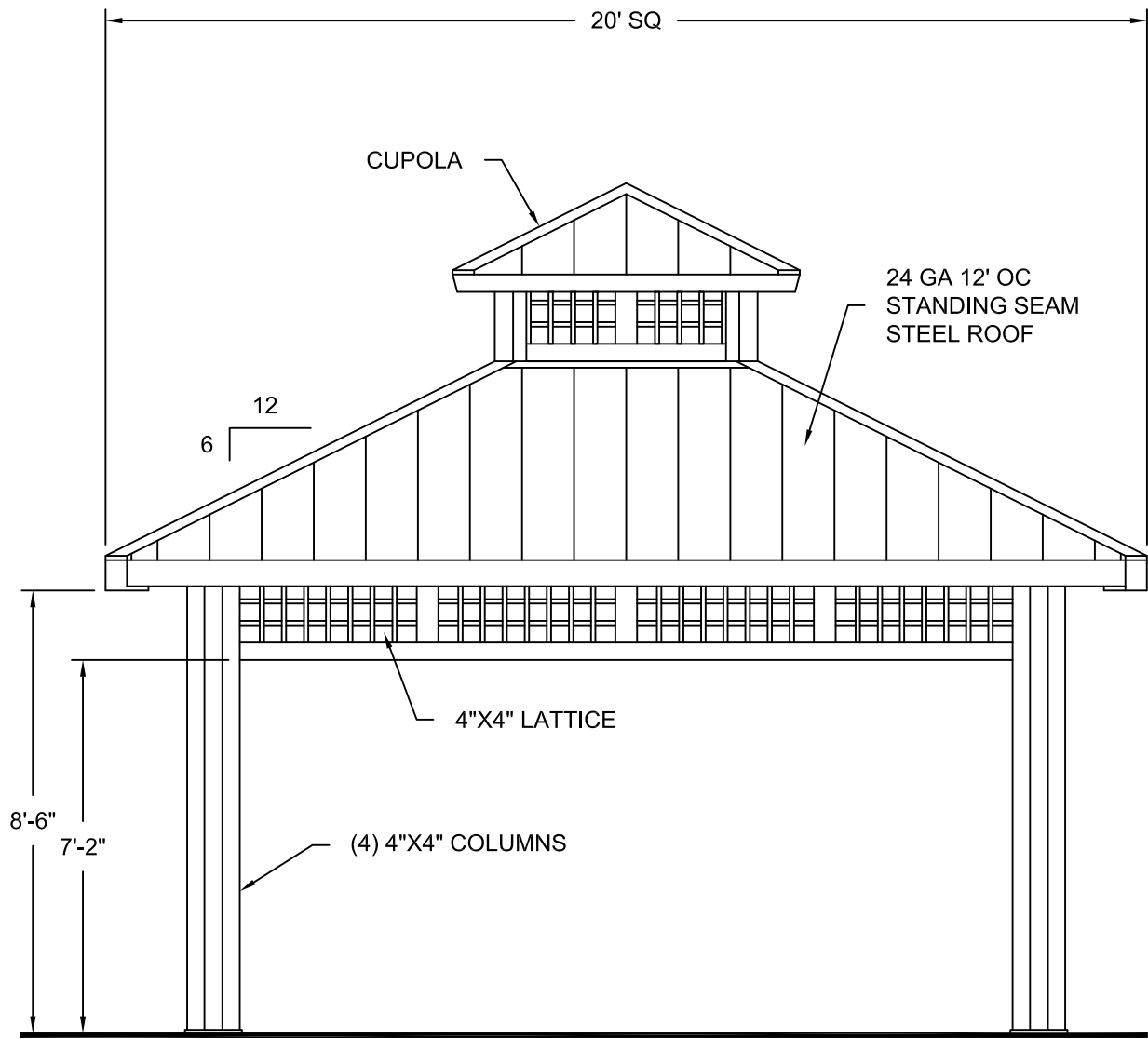
NOT FOR CONSTRUCTION



PLAN VIEW 20'X20' CUSTOM SCOTTSDALE MODEL
NTS

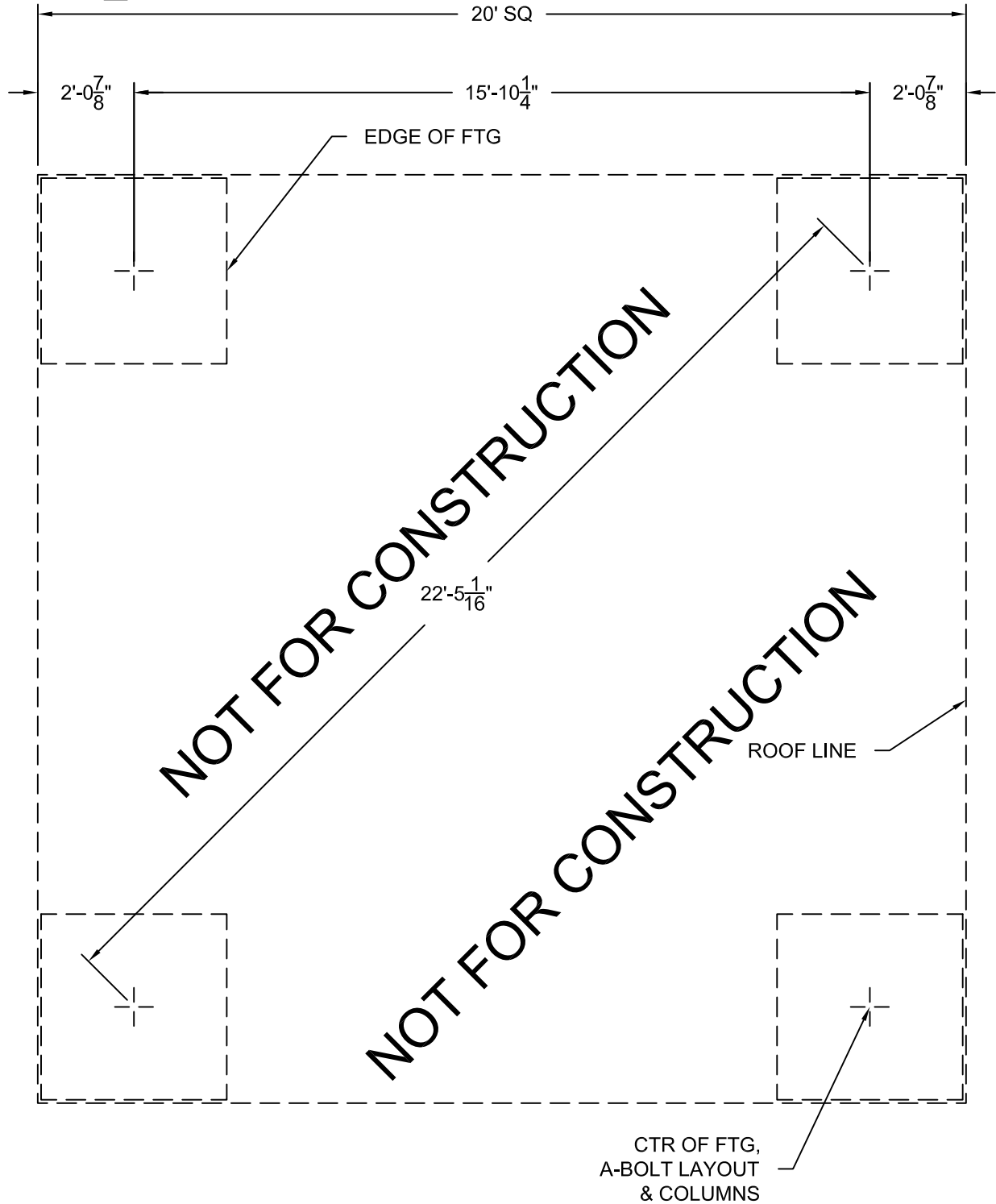
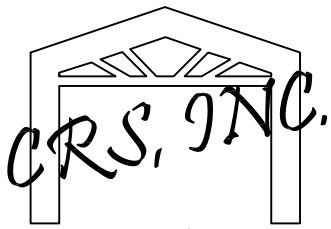


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ELEVATION 20'X20' CUSTOM SCOTTSDALE MODEL

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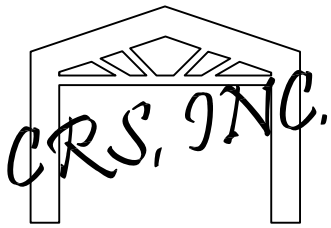


LAYOUT PLAN 20'X20' CUSTOM SCOTTSDALE MODEL

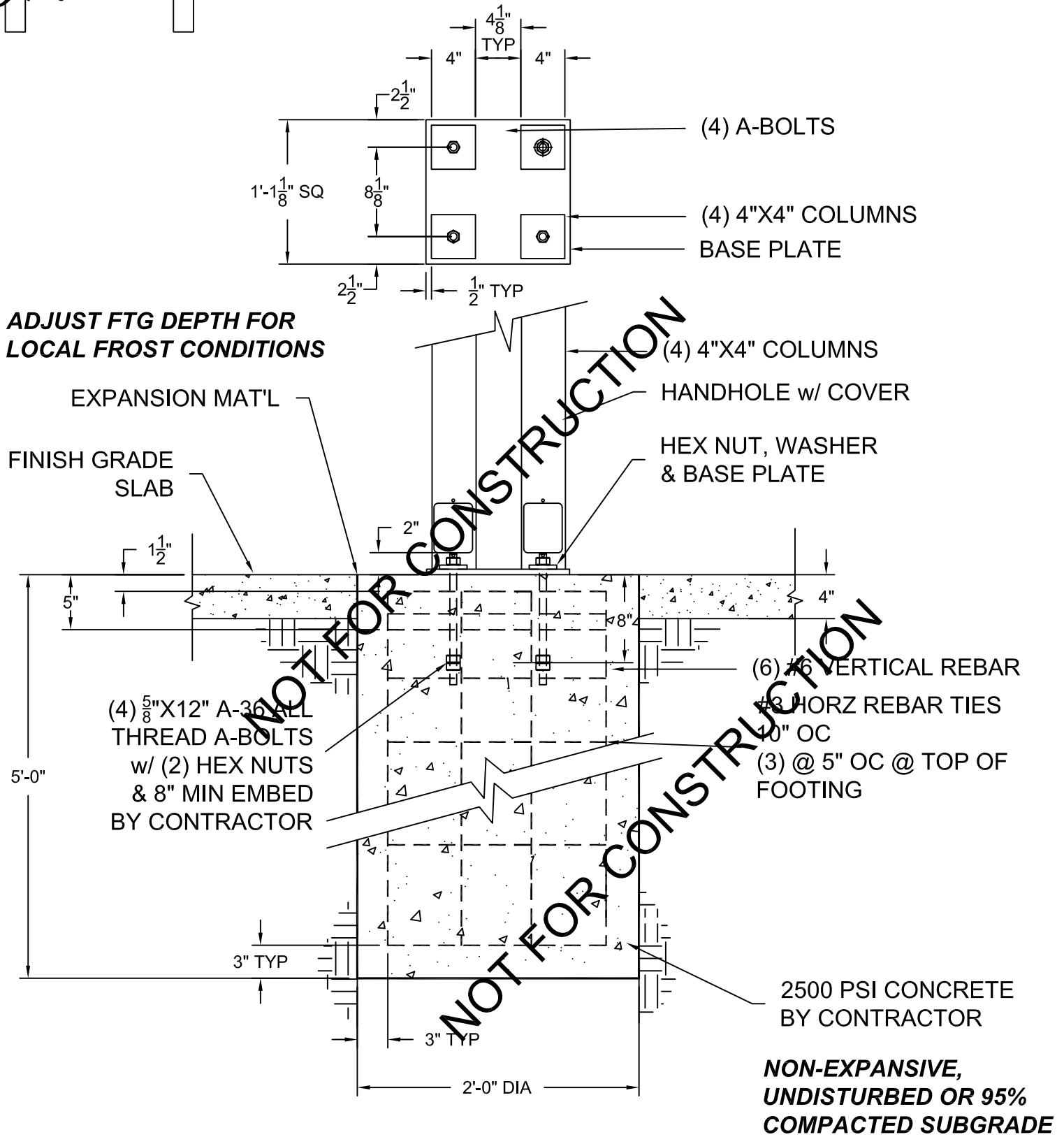
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**NON-EXPANSIVE,
UNDISTURBED OR 95%
COMPACTED SUBGRADE**



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



SURFACE MOUNT 4 BOLT CAISSON FOOTING
20'X20' CUSTOM SCOTTSDALE MODEL NTS