



CUSTOM CHEYENNE “T” MODEL

60' X 60'

SPECIFICATIONS

Dimensions:

Roof Dimensions	60'-0" x 60'-0"
Column Dimensions (center to center)	Varies
Eave Height	8'-0"
Roof Height @ Peak	±28'-4"
Gable Roof	6:12 pitch
Square Feet Under Roof	±3715
2 nd Tier:	20' wide

Columns shall be 14"x 10" steel tube, minimum .375 wall thickness.

Column surrounds shall be an added alternate done by others.

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

Rafter beams shall be one continuous piece.

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

Roofing shall be 24 gauge HR-36 steel pre-cut and pre-finished with ribs running with the slope of the roof. Valley roofing to be cut on site.

Trim shall be 24 gauge “J” channel.

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

2nd Tier shall be continuous length of structure.

Cupolas shall be non-functional.

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

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STANDARD SPECIFICATIONS

w/ ZINC RICH PRIMER & TGIC POWDER COAT PAINT

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 90 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 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 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. Compression rings shall be fabricated from hollow steel shape 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 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. Main roofing shall be perforated 24 gauge Zincalume / Galvalume coated steel panels, ICBO #ER-2757. "HR-36" panels shall be 36" wide with 1½" high ribs @ 7.2" o.c. All roofing shall be pre-finished with PVF2 (Polyvinylidene Fluoride) Kynar 500 on the top side. All roof panels shall be pre-cut with ribs running with the slope of the roof. Roof fascia trim on both the 1st and 2nd tier shall be 1½" "J" channel 24 gauge Zincalume / Galvalume coated pre-finished matching the roof color. 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 (10) ten 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.

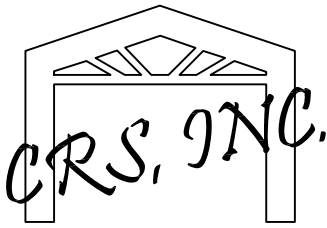
ERECTION:

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.

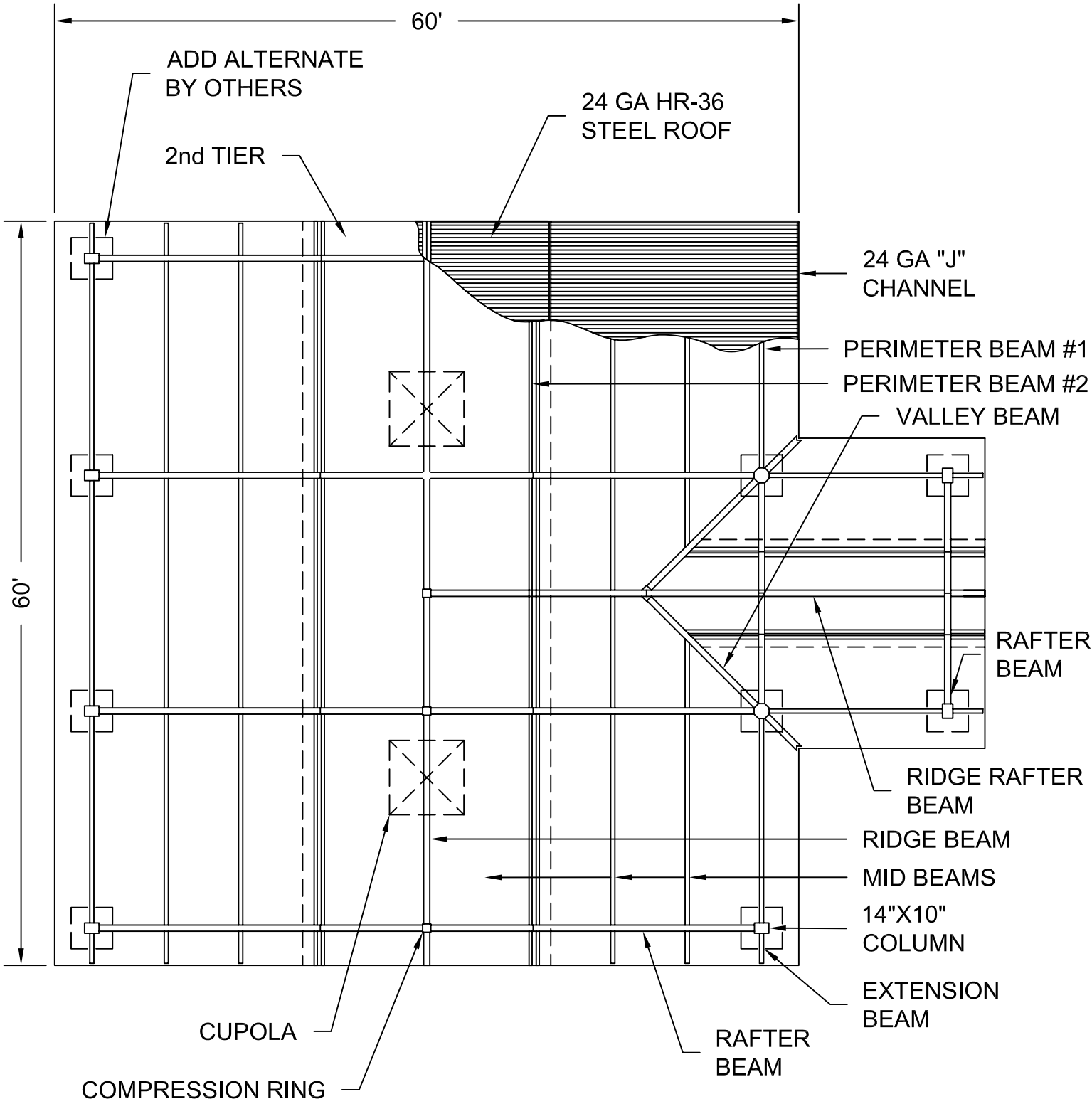
WARRANTEE:

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. 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

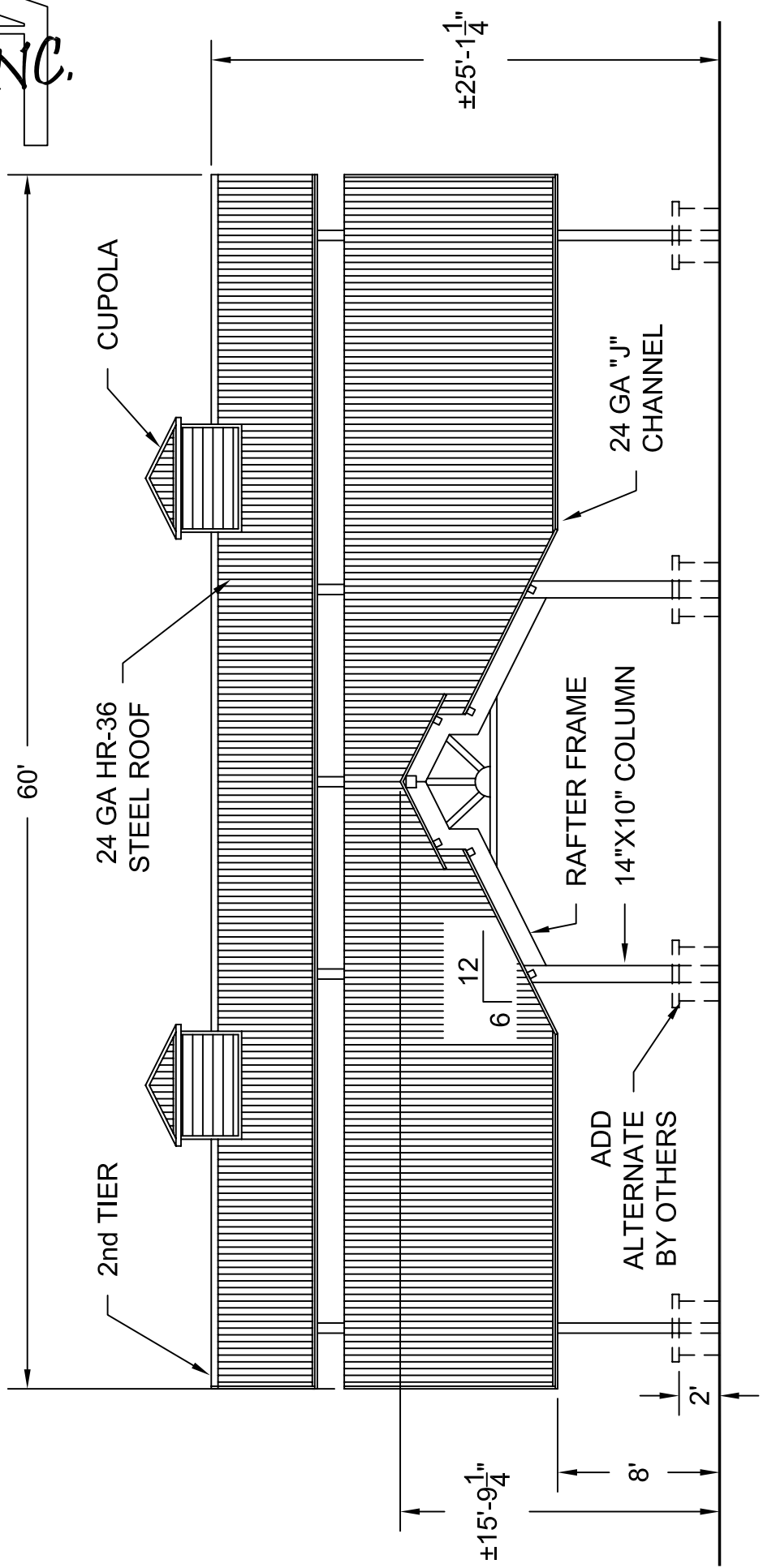


PLAN VIEW 60'X60' CUSTOM CHEYENNE MODEL

NTS

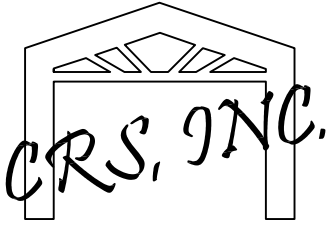


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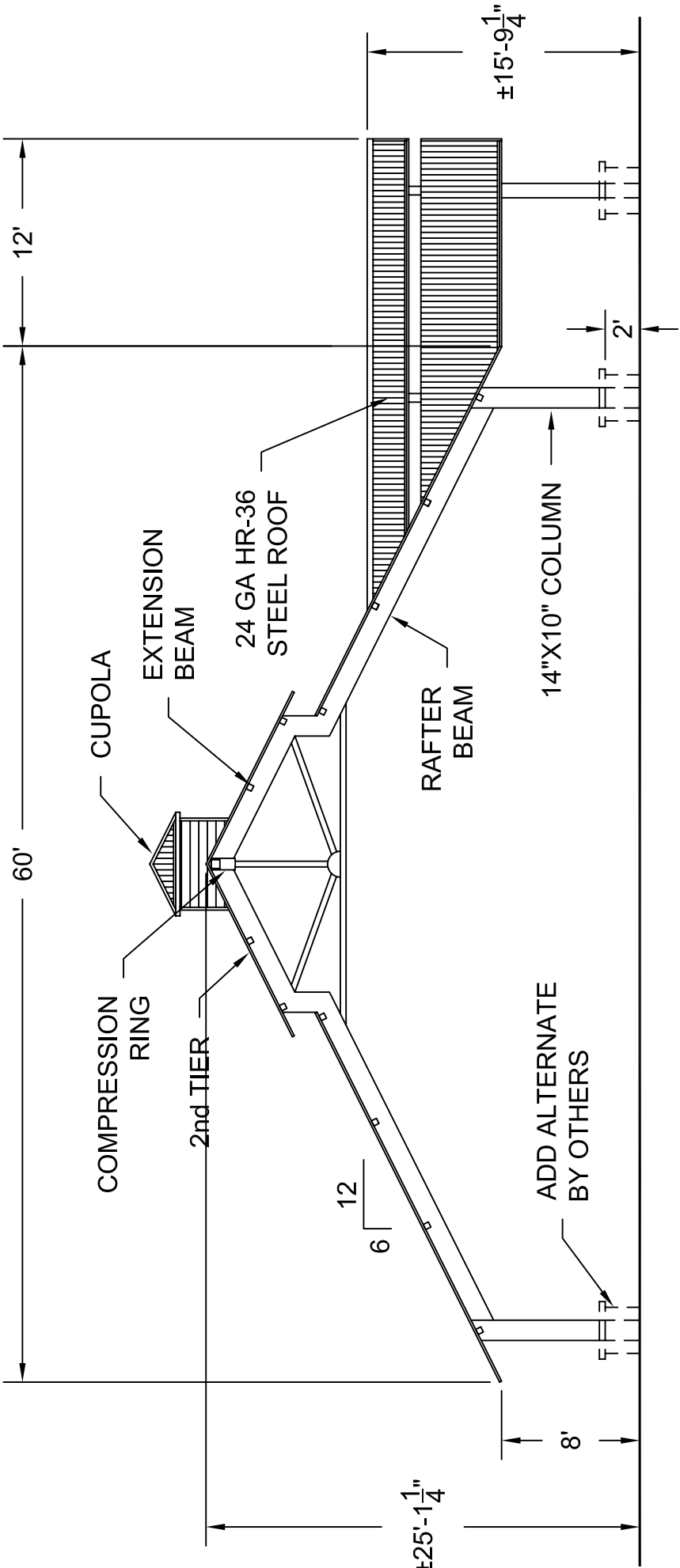


ELEVATION 60'X60' CUSTOM CHEYENNE MODEL

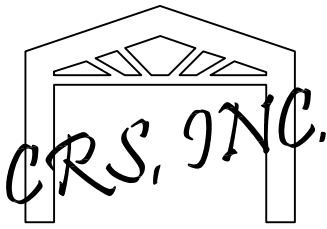
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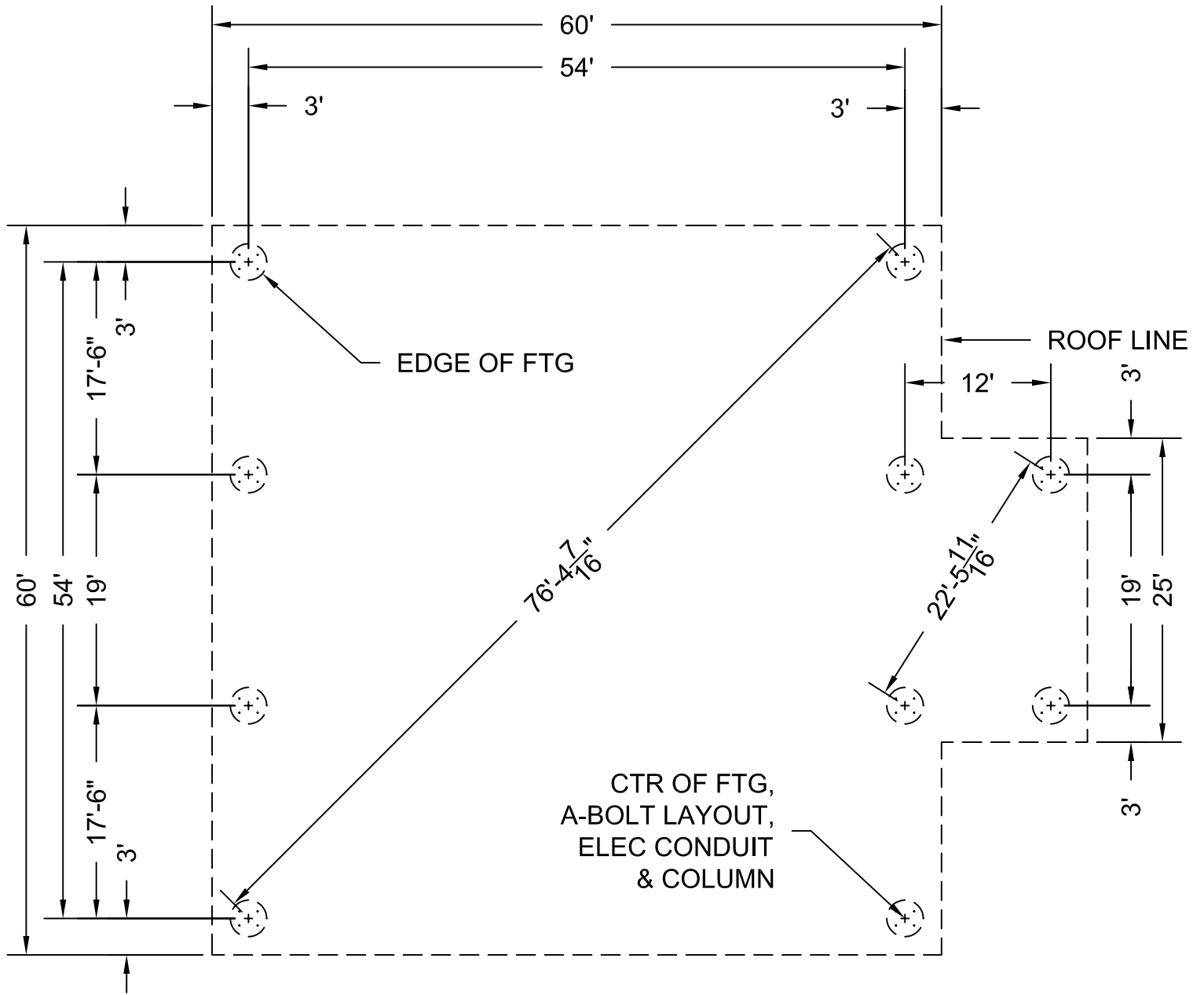
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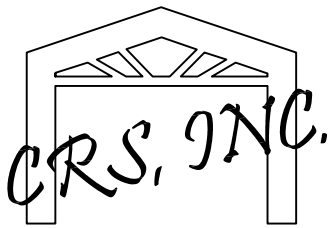
END ELEVATION 60'X60'
CUSTOM CHEYENNE MODEL
NTS



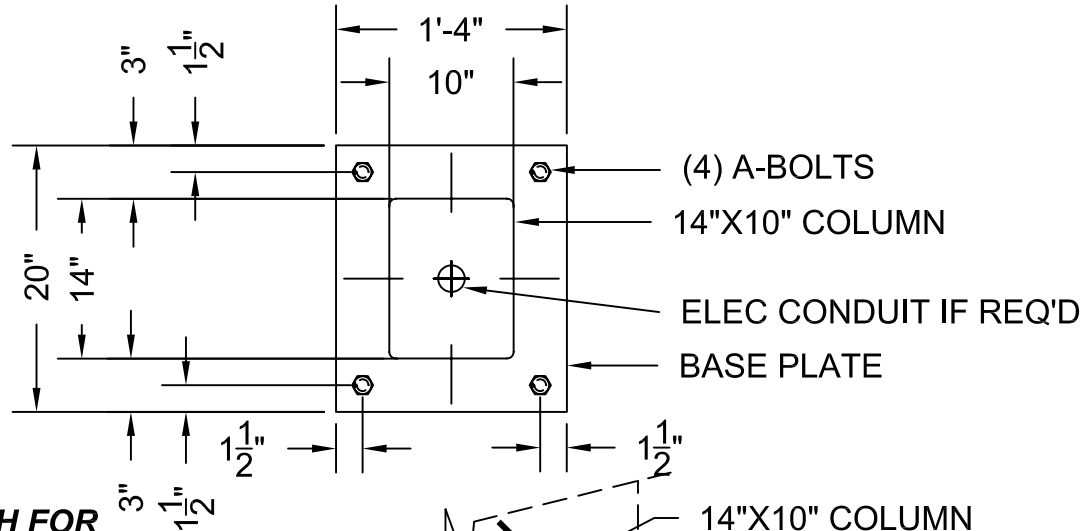
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LAYOUT PLAN 60'X60'
CUSTOM CHEYENNE MODEL
NTS



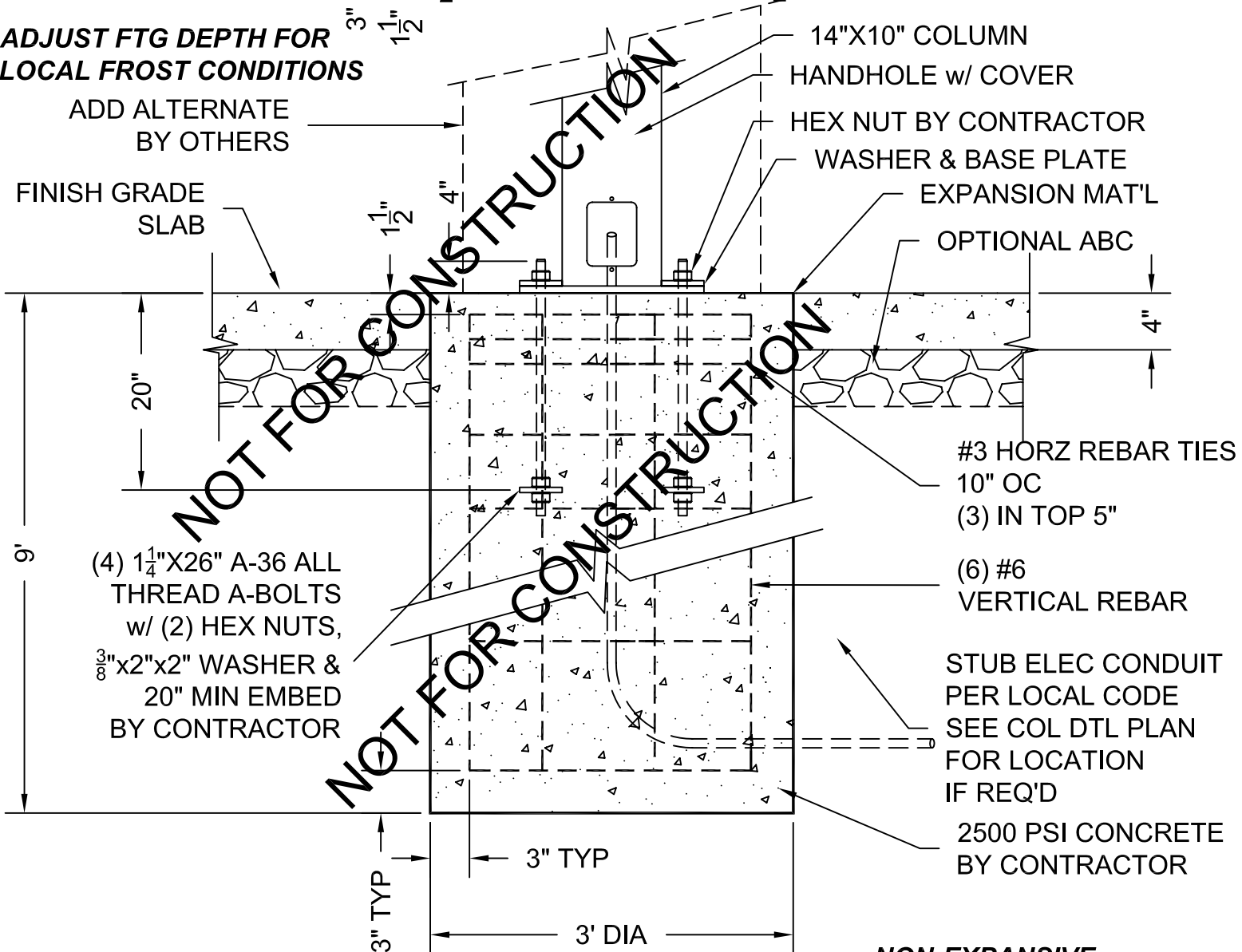
NOTE: FOR ILLUSTRATION ONLY!
FOOTING SIZE MAY CHANGE w/
STRUCTURAL ENGINEERING



ADJUST FTG DEPTH FOR
LOCAL FROST CONDITIONS

ADD ALTERNATE
BY OTHERS

FINISH GRADE
SLAB



(4) 1 1/4"X26" A-36 ALL
THREAD A-BOLTS
w/ (2) HEX NUTS,
3/8"X2"X2" WASHER &
20" MIN EMBED
BY CONTRACTOR

#3 HORZ REBAR TIES
10" OC
(3" IN TOP 5")

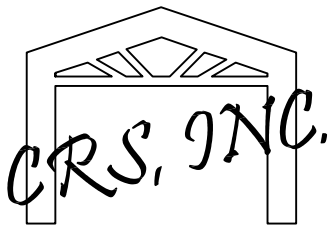
(6) #6
VERTICAL REBAR

STUB ELEC CONDUIT
PER LOCAL CODE
SEE COL DTL PLAN
FOR LOCATION
IF REQ'D

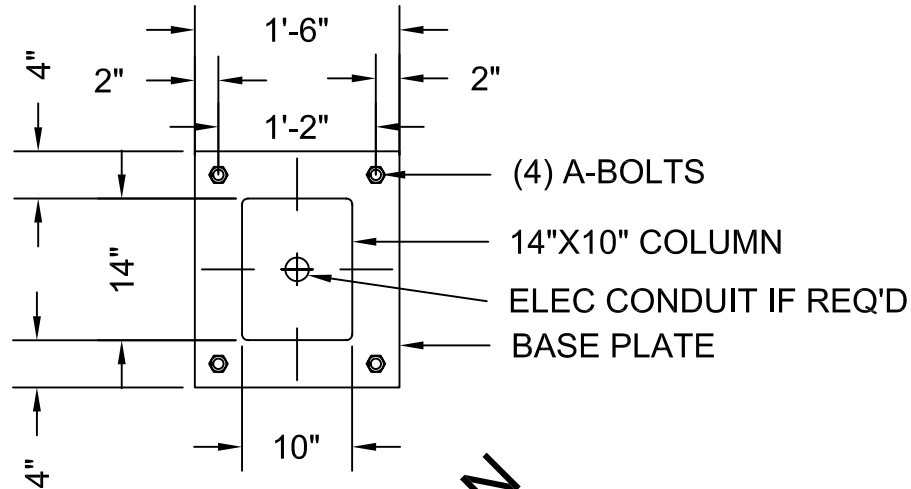
2500 PSI CONCRETE
BY CONTRACTOR

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

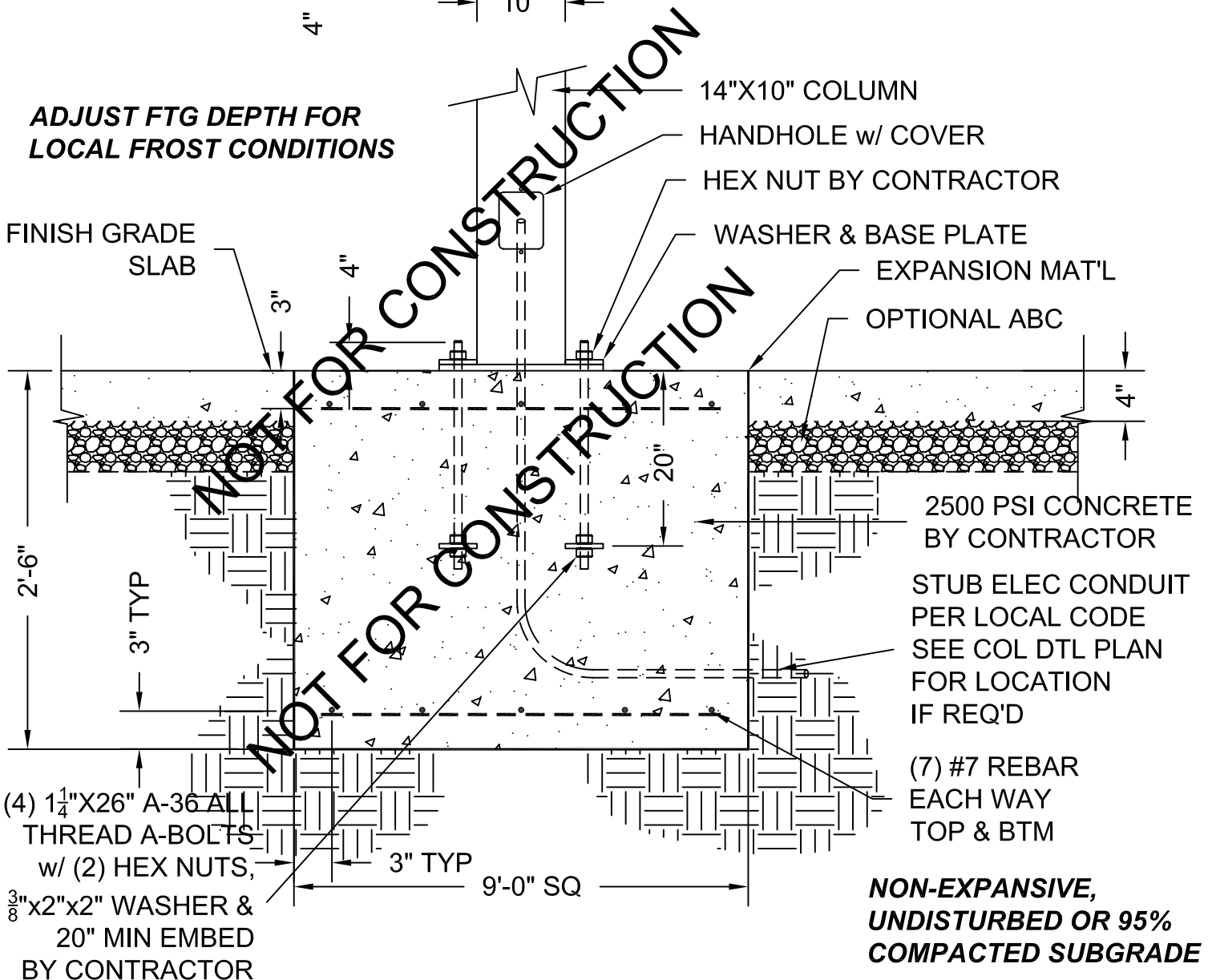
SURFACE MOUNT 4 BOLT CAISSON FOOTING
60'X60' CUSTOM CHEYENNE MODEL NTS



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



ADJUST FTG DEPTH FOR
LOCAL FROST CONDITIONS



SURFACE MOUNT 4 BOLT SPREAD FOOTING

60'X60' CUSTOM CHEYENNE MODEL

NTS