

# ! CAUTION !

**THE SHEET-ROCKED SOFFIT (LIGHTBOX) ABOVE DOME MUST BE PROPERLY SEALED AND NOT VENTED TO ATTIC NOR EXTERIOR FOR MEETING BUILDING CODES & SAFETY REQUIREMENTS.**

**Failure to observe this caution can result in glass panels lifting out of the frame and falling!**

For example, on a windy day when a window or door is opened to the wind, the air pressure can blow or suck out the glass panels if the area above the dome has any exposure to the building's exterior. (Remember, the glass panels are held in place by gravity so they can be easily removed from below for cleaning or changing light bulbs.) Also, leaded glass does not qualify as a fire break to prevent the spread of fire to the attic or other areas above the dome.

If the area above the dome is accessible from the attic or another room, caution must be taken to seal and lock the access door/panel to prevent such sudden air pressure differences from lifting or sucking out the glass panels. Do not attempt to open such access door/panel on a windy or gusty day. Always open access door/panel slowly to allow any pressure differences to equalize gradually. Prevent access to such space by children by putting a padlock on access door. ALSO, A COPY OF THIS CAUTION SHOULD BE POSTED ON OUTSIDE OF ANY SUCH ACCESS DOORS.

If skylight is installed above dome, the skylight must be a fixed type (can't open) and it must be shafted with sheet-rock to form a sealed space holding dome.

THE LIGHTBOX ABOVE DOME SHOULD BE PAINTED WITH FLAT WHITE PAINT, OR A HIGH REFLECTIVE WHITE PAINT, FOR BEST REFLECTIVITY OF LIGHT. If painted with a color the colors of the dome's glass panels will be distorted by the reflected light.

Do not seal the space between the dome frame and the ceiling's trim moulding. This gap is necessary to equalize air pressure above and below the dome, and allows the area above the dome to "breathe" into the room below to avoid condensation buildup in humid or cold climates. Outside of lightbox should be insulated to prevent condensation inside and for general energy conservation.

## ADDITIONAL SAFETY REMINDERS

- When removing glass panels from dome frame, always remove top tier first, then middle tier, then bottom tier last. (This is the reverse of how installed.)
- NEVER LEAN NOR PULL ON DOME FRAME. It is not designed to support the weight of a person. Doing so may cause frame distortion and falling glass.

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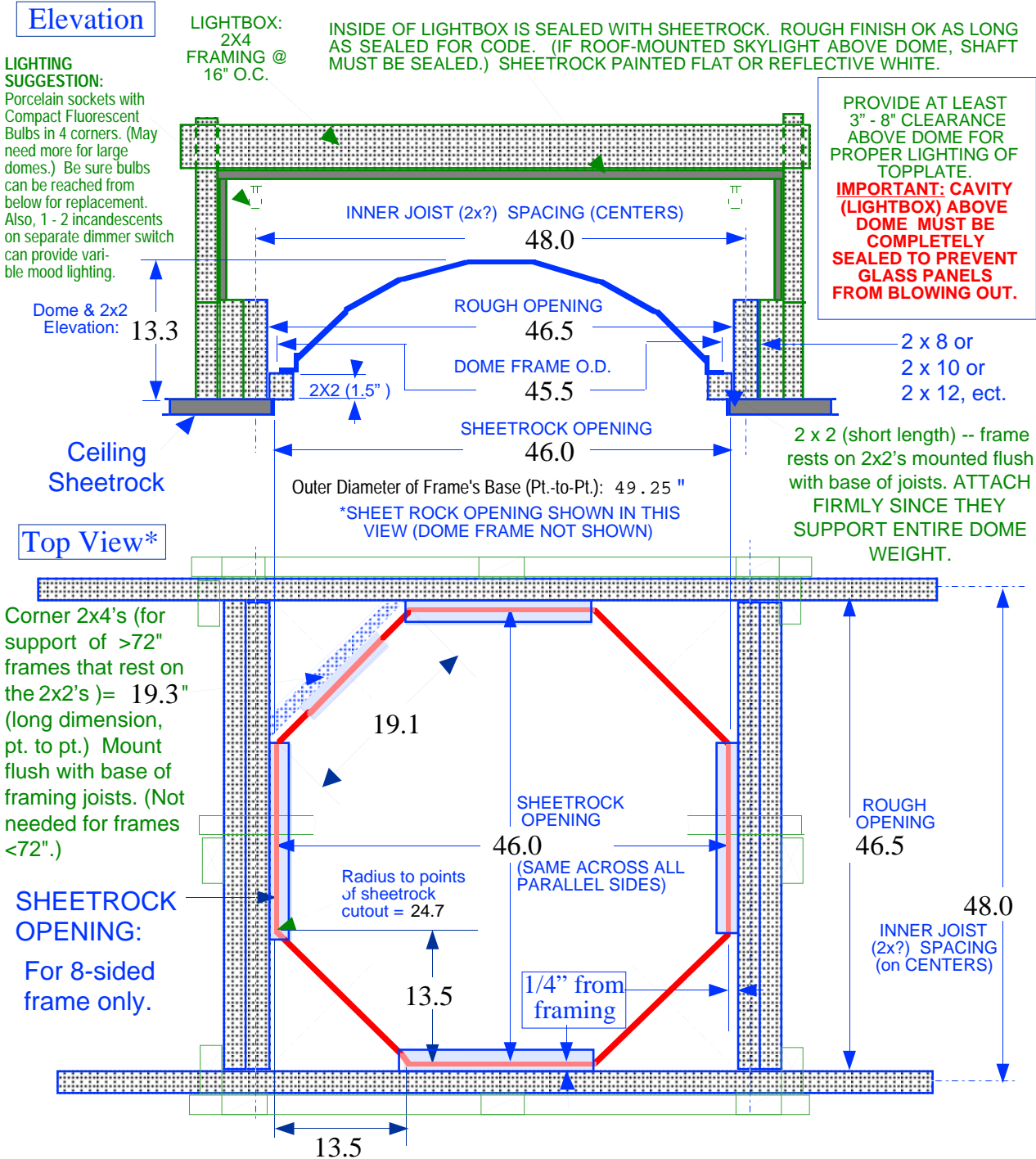
# Sketch of Typical Framing & Sheetrock Sizing for 8-sided frame.

2/20/00 v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

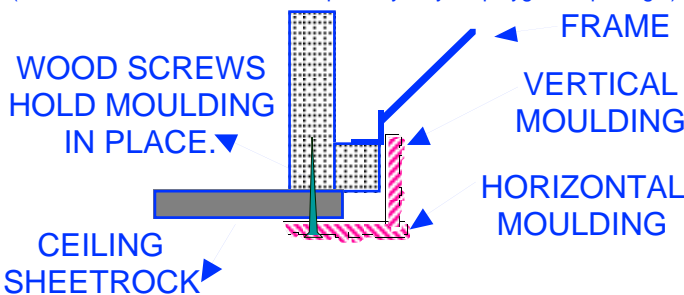
© Sierra Stained Glass Studios, Inc. 1992-2000

# The Dome™ 45-1/2" (8-sided)



## WOOD TRIM MOULDING DETAIL

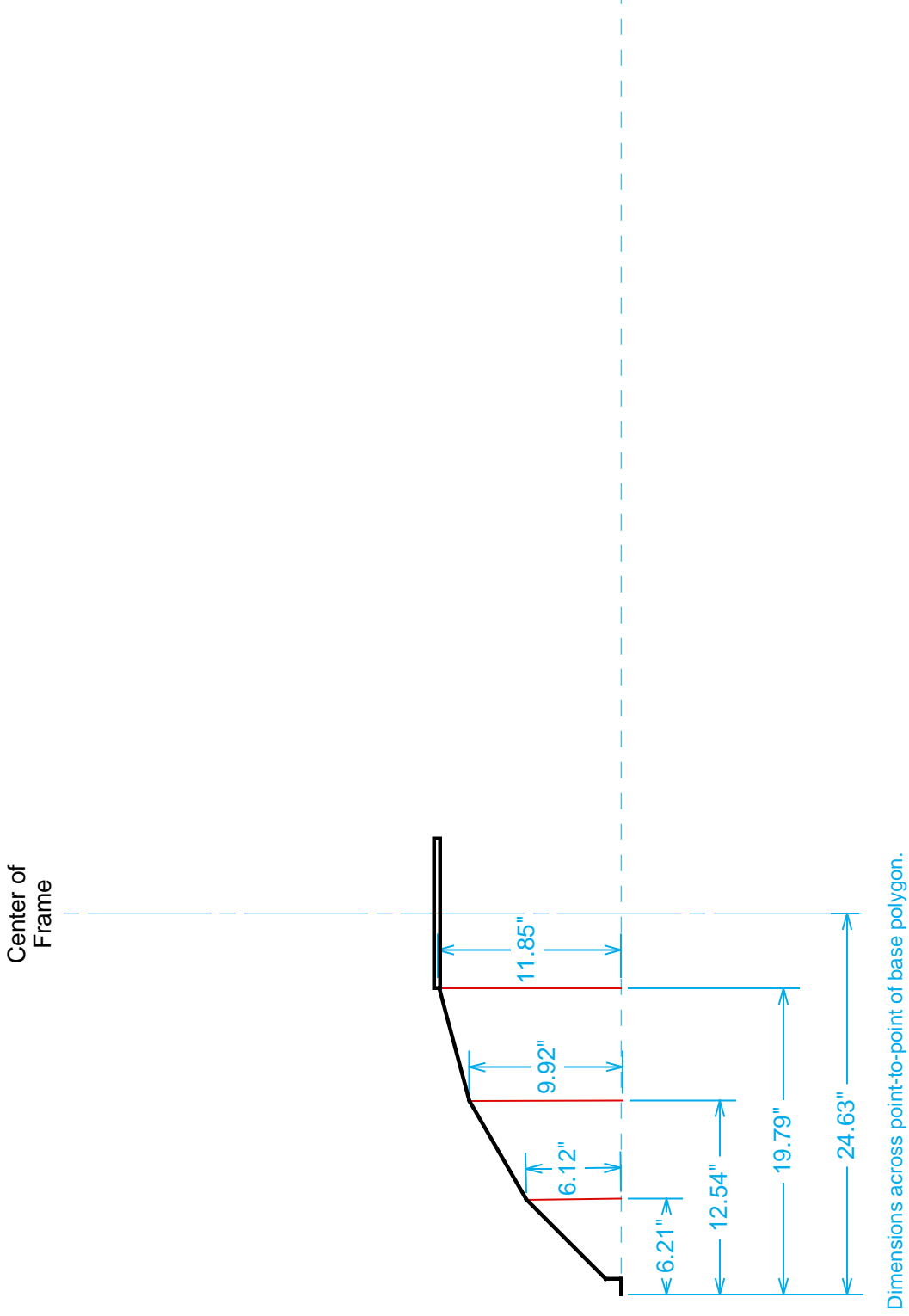
(Pre-Cut Kit shown is available separately only for polygonal openings.)



For **8-sided** 45.5" frame Only!

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# Elevations, 4' Dome, along arms. Frame #4850-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

# Sketch of Typical Framing & Sheetrock Sizing for 8-sided Elongated Dome

2/20/00

v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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## Elevation

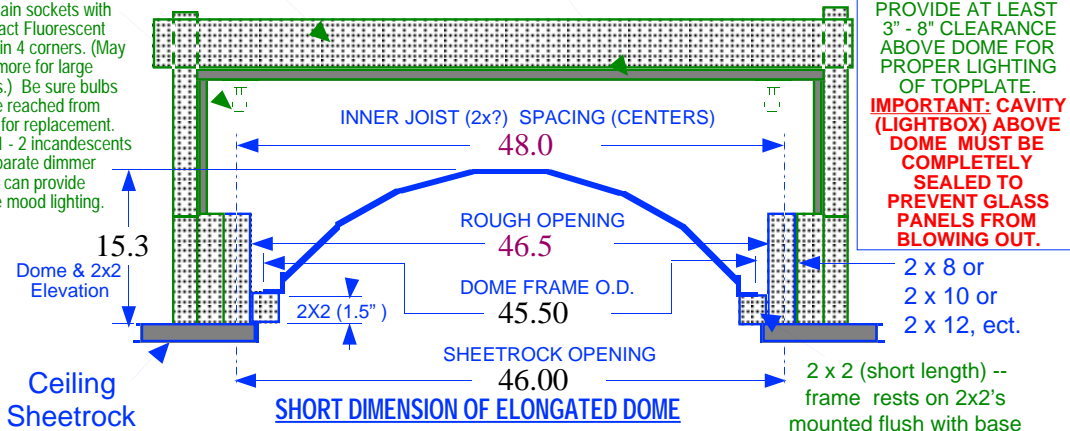
### LIGHTING

#### SUGGESTION:

Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
2X4 FRAMING  
@ 16" O.C.

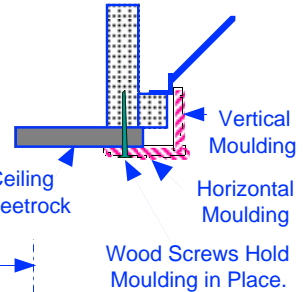
INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.



PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE. **IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**

**For 8-sided Only!**  
45.5" x 57.5"

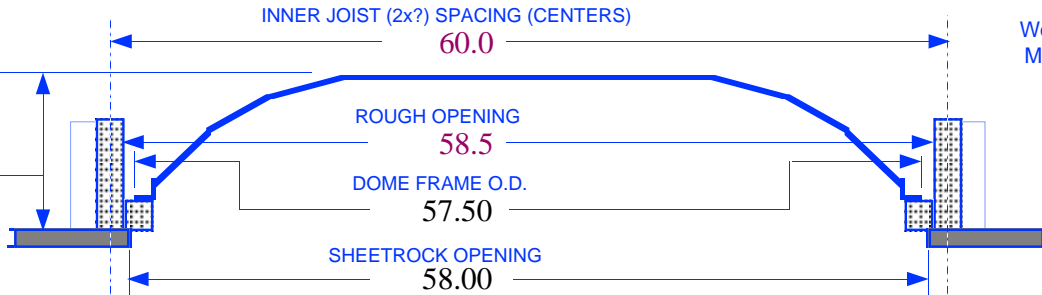
## WOOD TRIM MOULDING DETAIL



## LONG DIMENSION OF ELONGATED DOME

## Elevation

Dome & 2x2 Elevation: 15.3

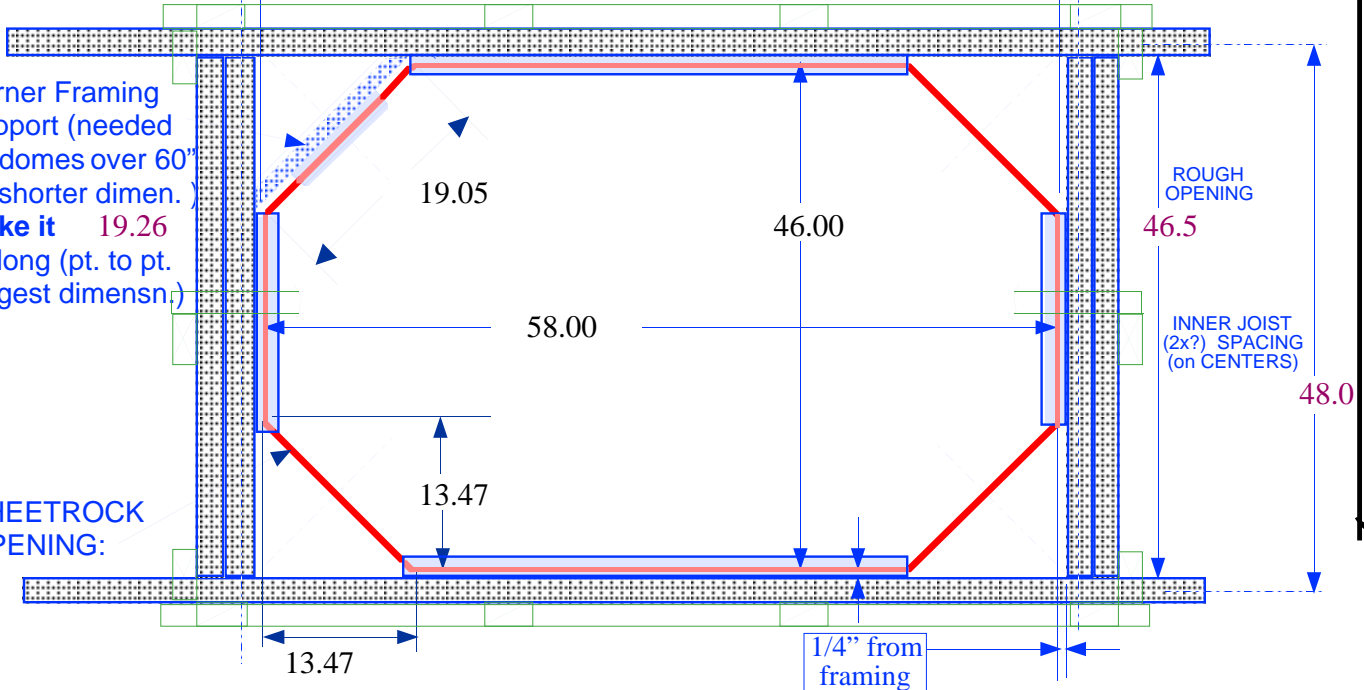


## Top View\*

\*SHEET ROCK OPENING SHOWN IN THIS VIEW (DOME FRAME NOT SHOWN)

Corner Framing Support (needed for domes over 60" on shorter dimen.) **Make it 19.26 in. long (pt. to pt. longest dimens.)**

SHEETROCK OPENING:



The Dome™ 4'x5' (45.5" x 57.5" 8-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 8-sided Elongated Dome

2/20/00

v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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## Elevation

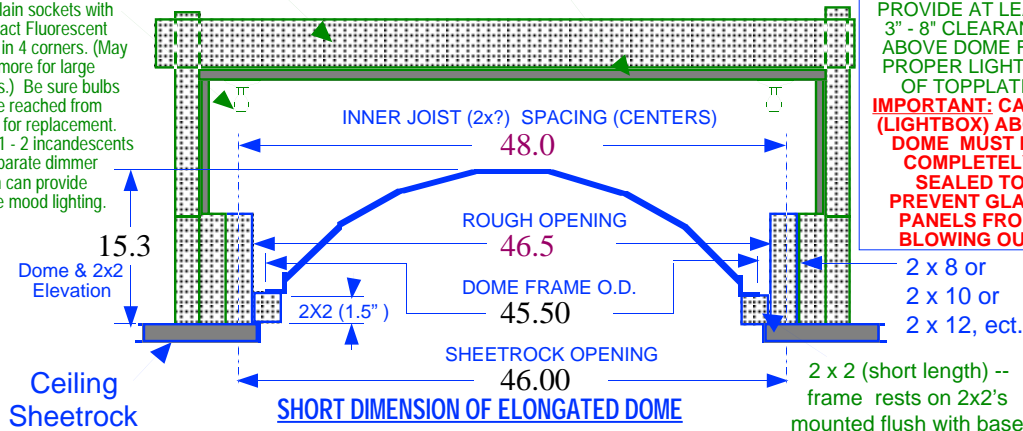
**LIGHTING SUGGESTION:**  
Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
2X4 FRAMING @ 16" O.C.

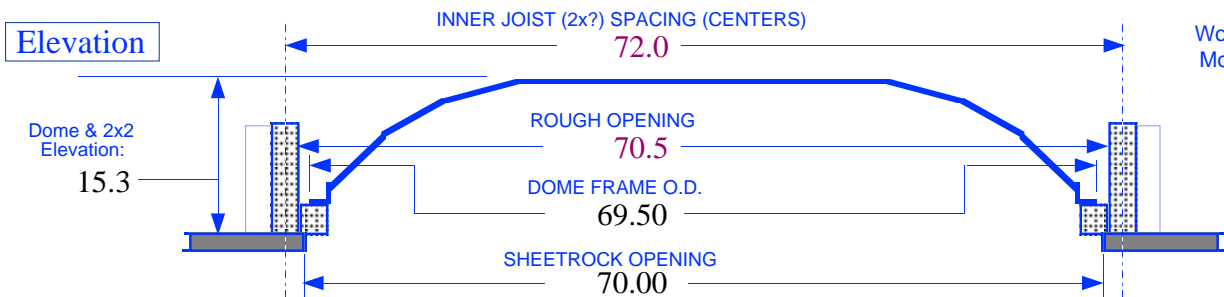
INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE.  
**IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**

For  
8  
 -sided  
 Only!  
 45.5" x 69.5"

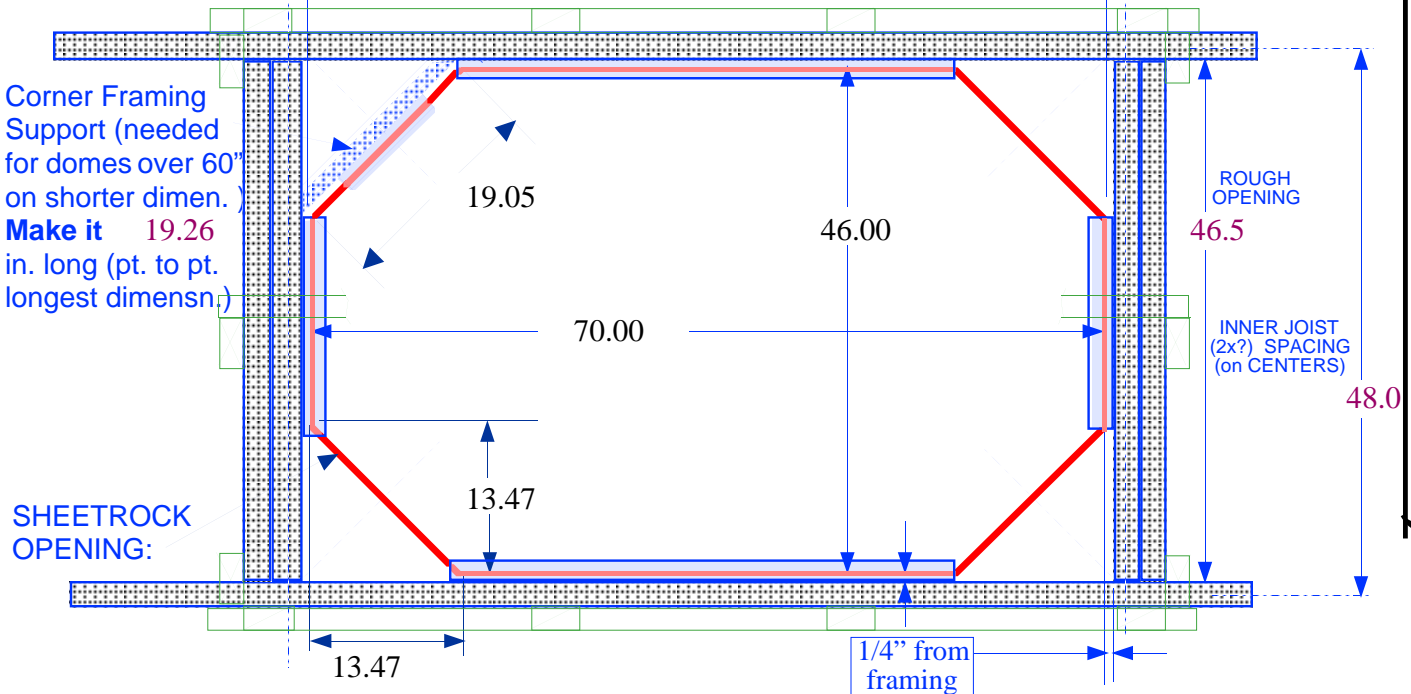


## LONG DIMENSION OF ELONGATED DOME



## Top View\*

\*SHEET ROCK OPENING SHOWN IN THIS VIEW (DOME FRAME NOT SHOWN)



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The Dome™ 4'x6' (45.5" x 69.5" 8-sided)

# Sketch of Typical Framing & Sheetrock Sizing for 8-sided Elongated Dome

2/20/00

v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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## Elevation

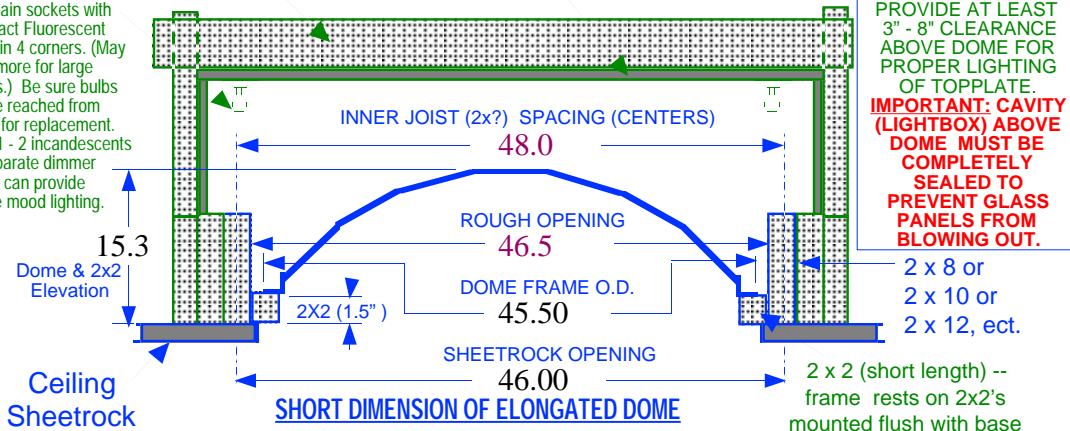
### LIGHTING

#### SUGGESTION:

Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
2X4 FRAMING  
@ 16" O.C.

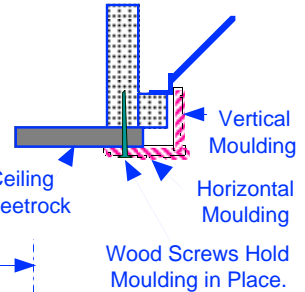
INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.



PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE. **IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**

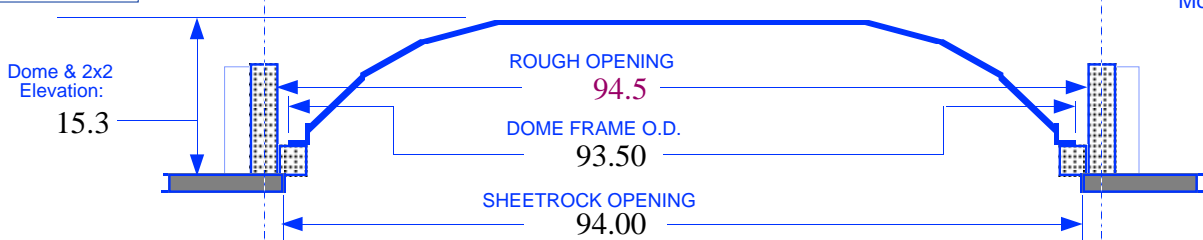
For  
8  
 -sided  
 Only!  
 45.5" x 93.5"

## WOOD TRIM MOULDING DETAIL



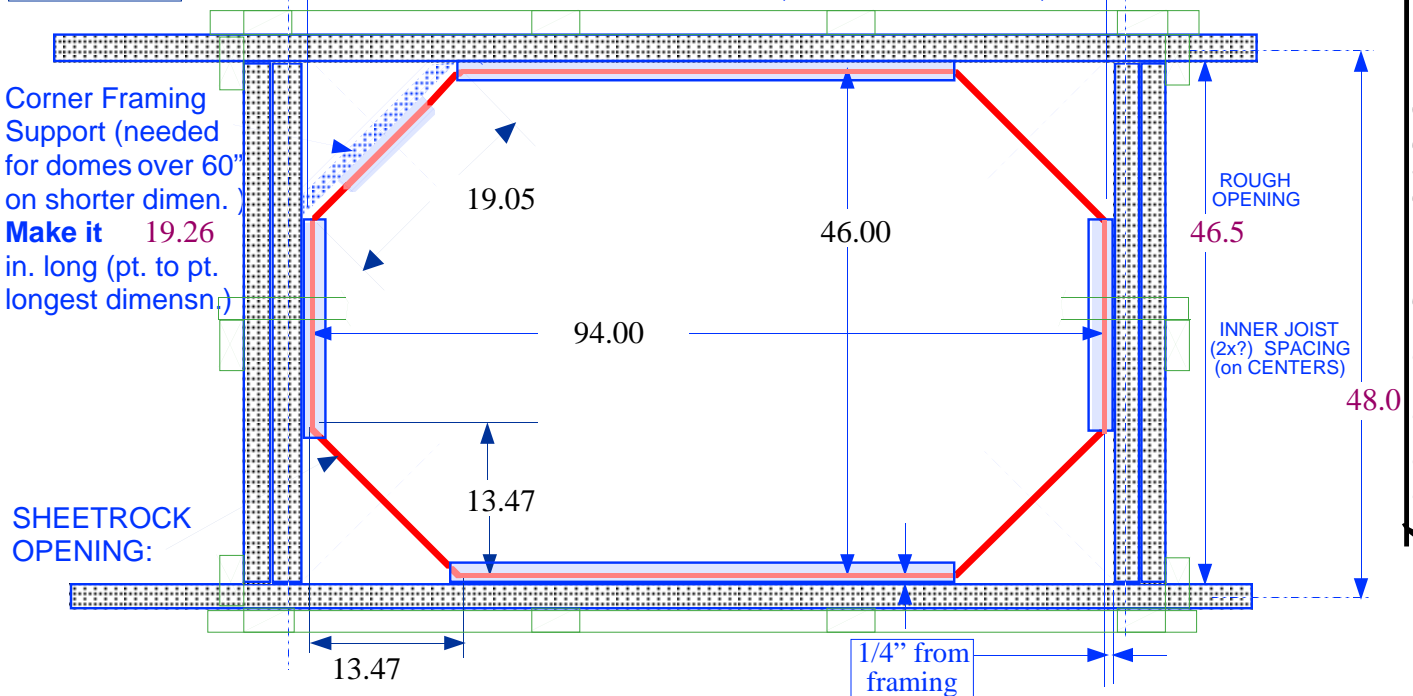
## LONG DIMENSION OF ELONGATED DOME

## Elevation



## Top View\*

\*SHEET ROCK OPENING SHOWN IN THIS VIEW (DOME FRAME NOT SHOWN)



The Dome™ 4'x8' (45.5" x 93.5" 8-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 8-sided Elongated Dome

2/20/00

v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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## Elevation

### LIGHTING

#### SUGGESTION:

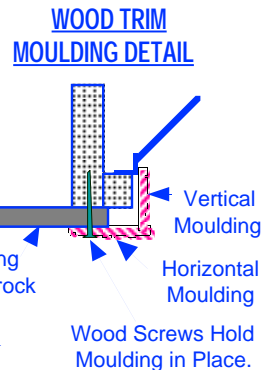
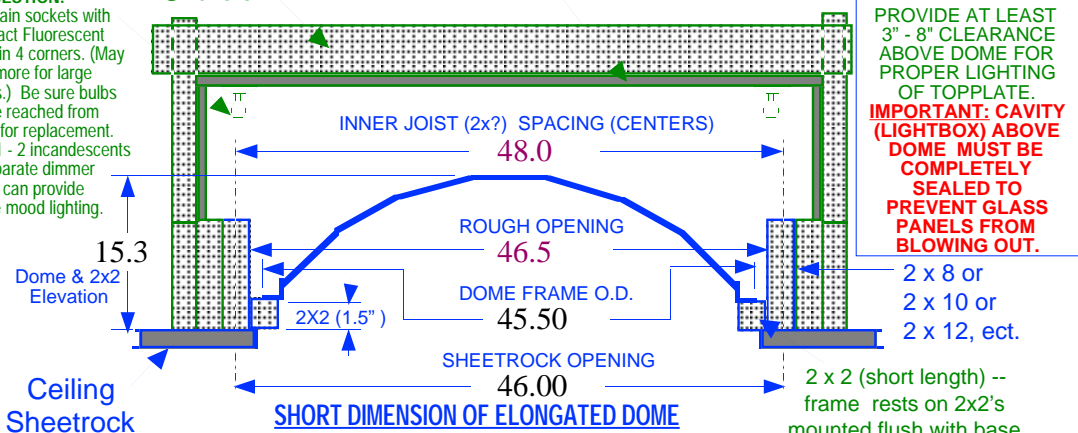
Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
2X4 FRAMING  
@ 16" O.C.

INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE.  
**IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**

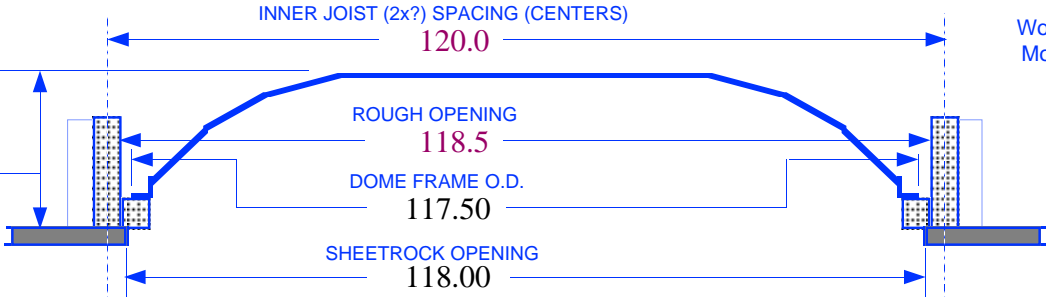
For  
8  
 -sided  
 Only!  
 45.5" x 117.5"



## LONG DIMENSION OF ELONGATED DOME

## Elevation

Dome & 2x2 Elevation: 15.3

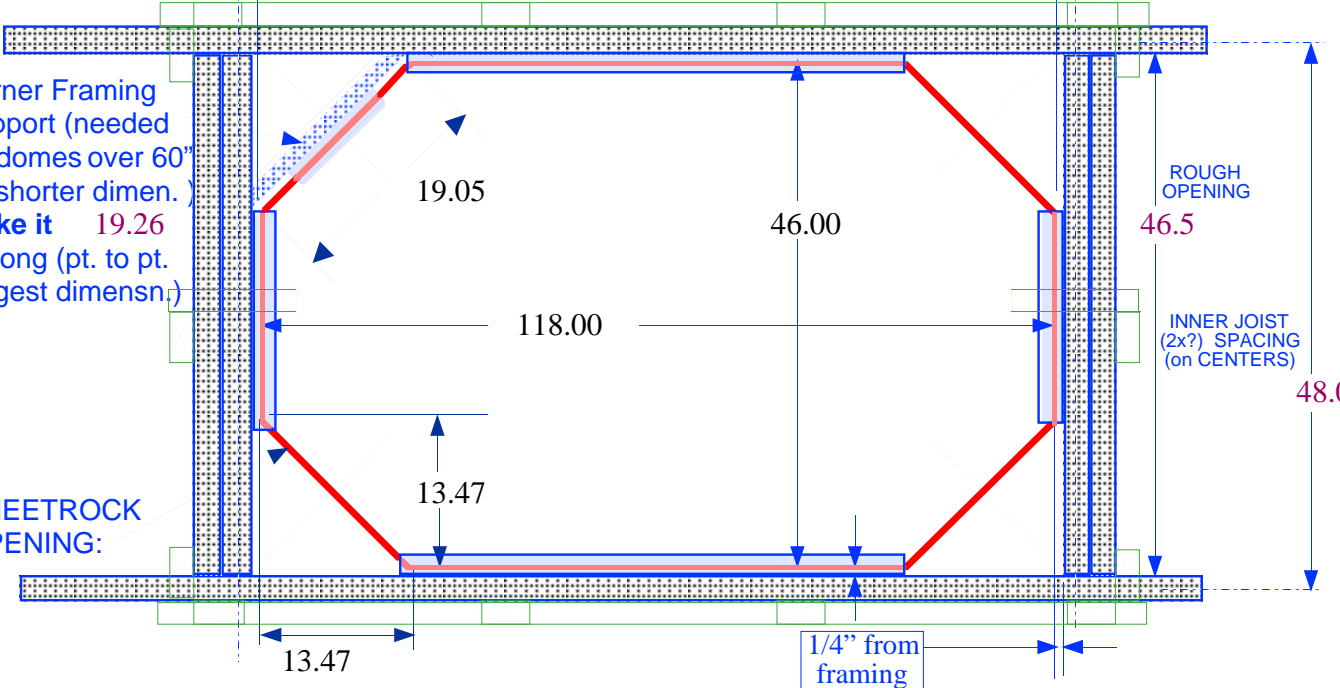


## Top View\*

\*SHEET ROCK OPENING SHOWN IN THIS VIEW (DOME FRAME NOT SHOWN)

Corner Framing Support (needed for domes over 60" on shorter dimen.)  
**Make it 19.26 in. long (pt. to pt. longest dimens.)**

SHEETROCK OPENING:



The Dome™ 4'x10' (45.5" x 117.5" 8-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 12-sided frame.

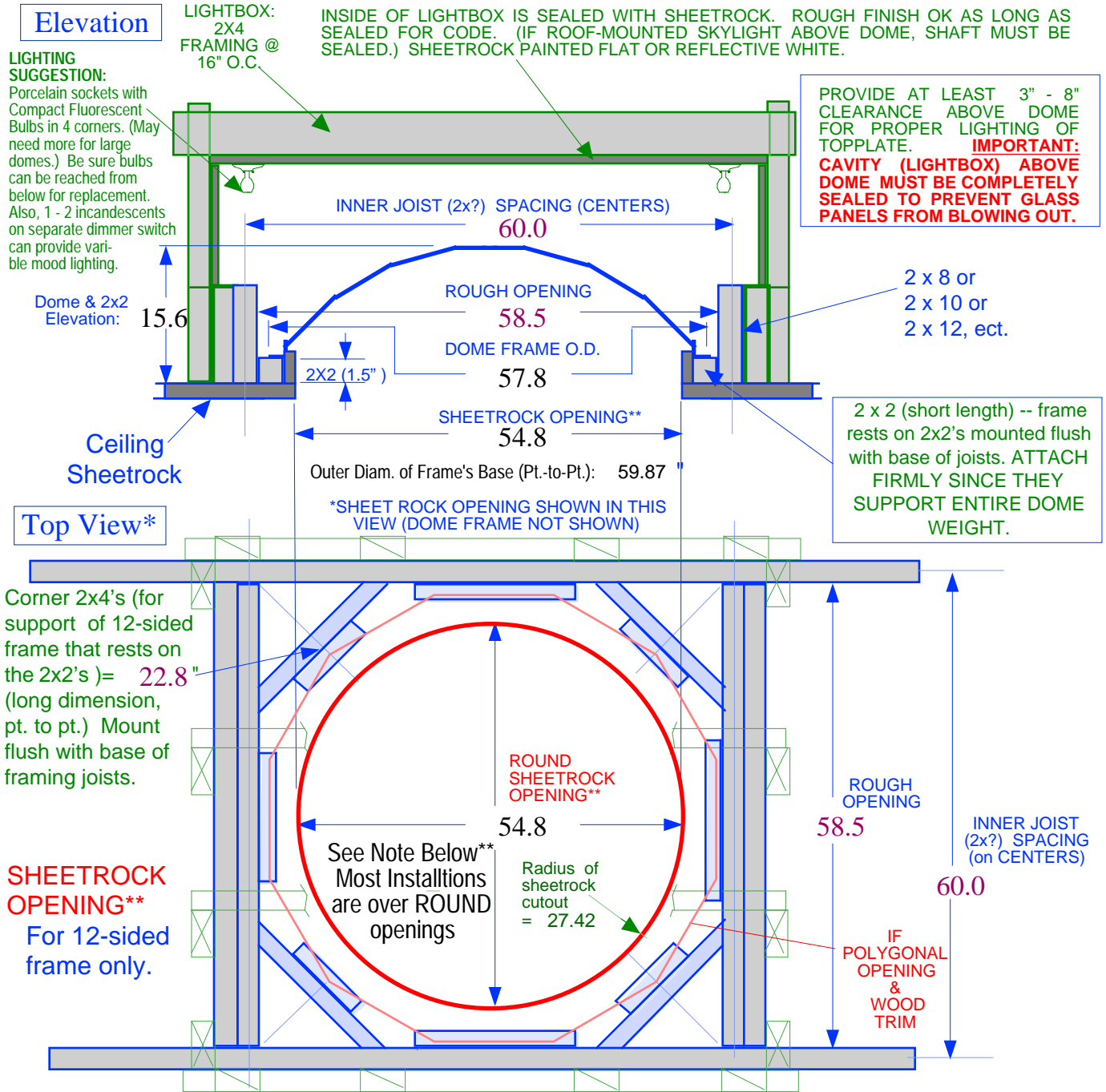
4/2/02

v2.3

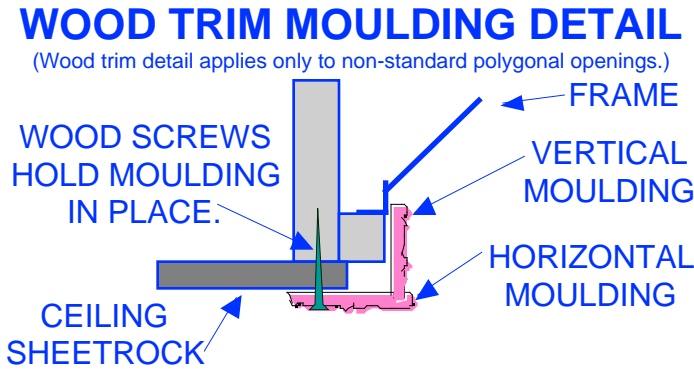
ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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SupraDome 5200 5' (57.8" x 57.8" 12-sided)



\*\*Most 12-sided frames are installed over a CIRCULAR opening. diameter of opening 3" less than frame O.D. across paralled sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening. The vertical sheetrock trim is wet, then bent to shape.

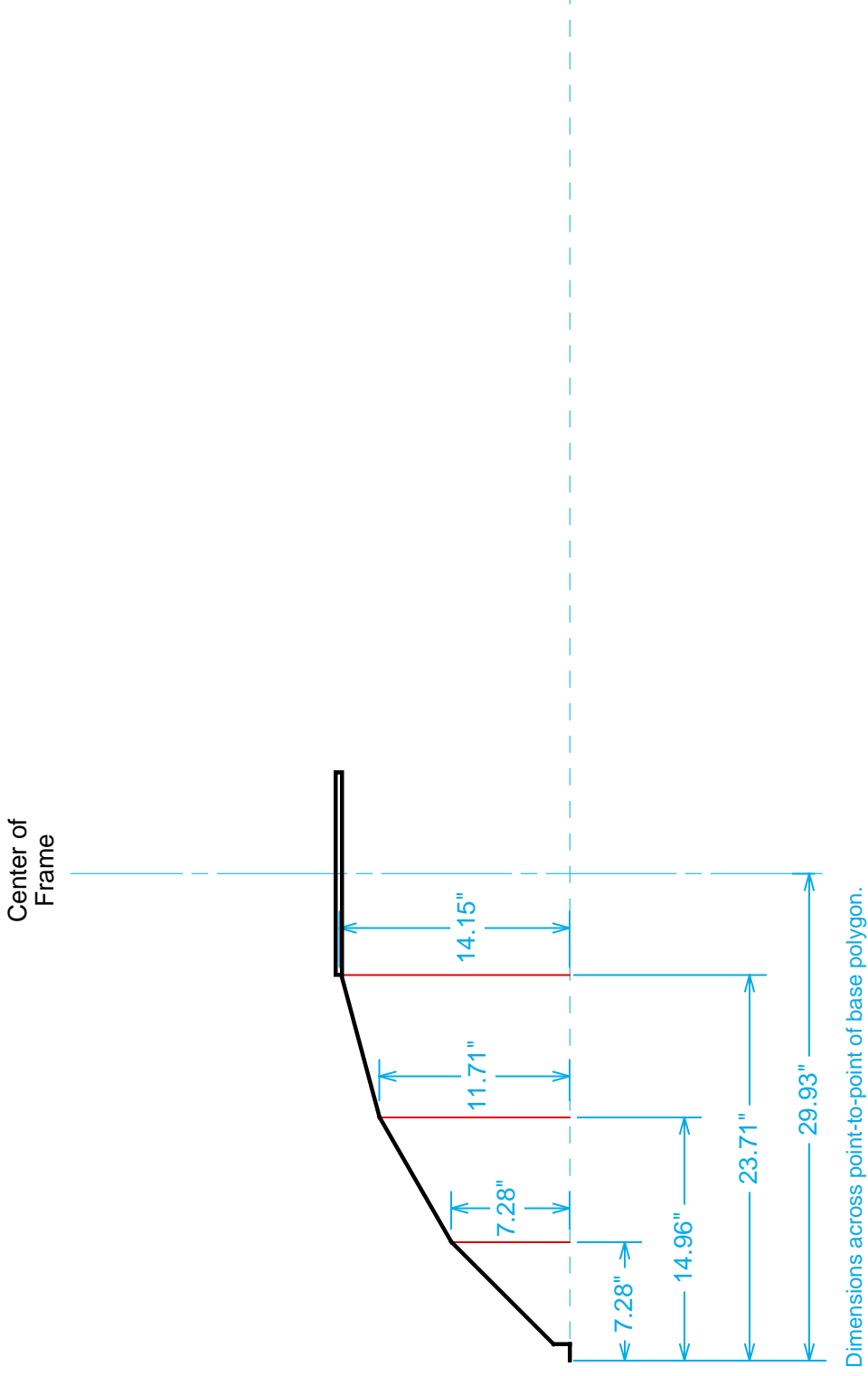


*For 12-sided 57.8" frame Only!*

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# Elevations, 5' Dome, along arms. Frame #5250-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

**Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome**

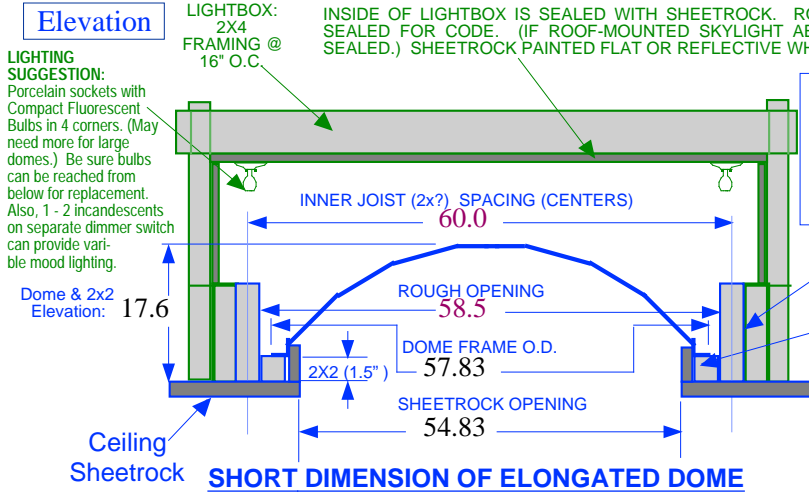
4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

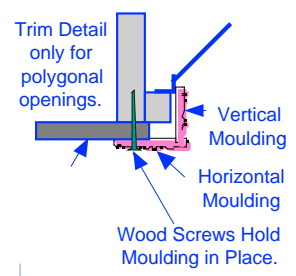
© Sierra Stained Glass Studios, Inc. 1992-2002

**Elevation**



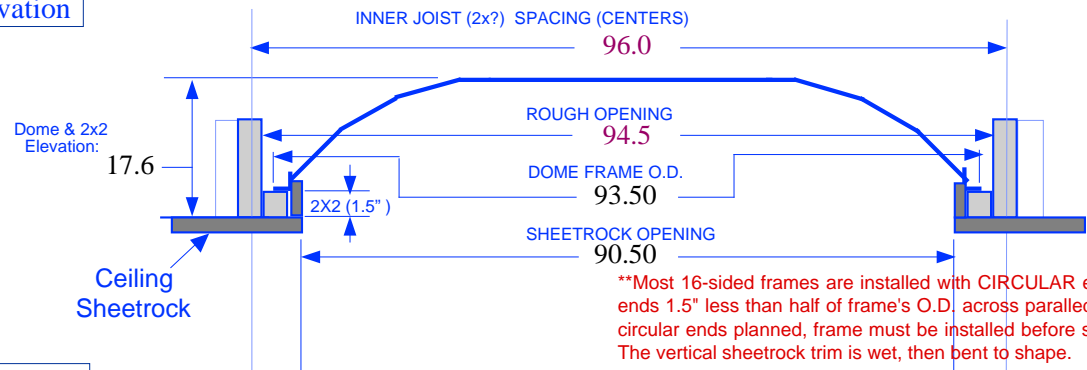
For  
12  
 -sided Only!  
 57.8" x 93.5"

**WOOD TRIM MOULDING DETAIL**

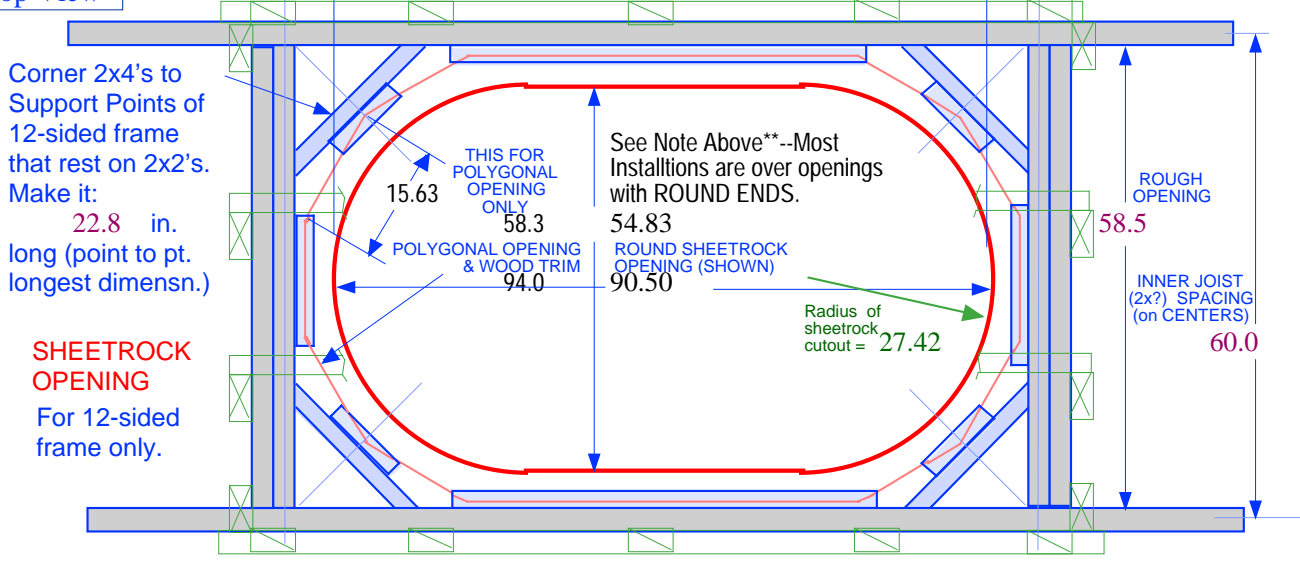


**LONG DIMENSION OF ELONGATED DOME**

**Elevation**



**Top View\***



SupraDome 5200X8 5'x8' (57.8" x 93.5" 12-sided)

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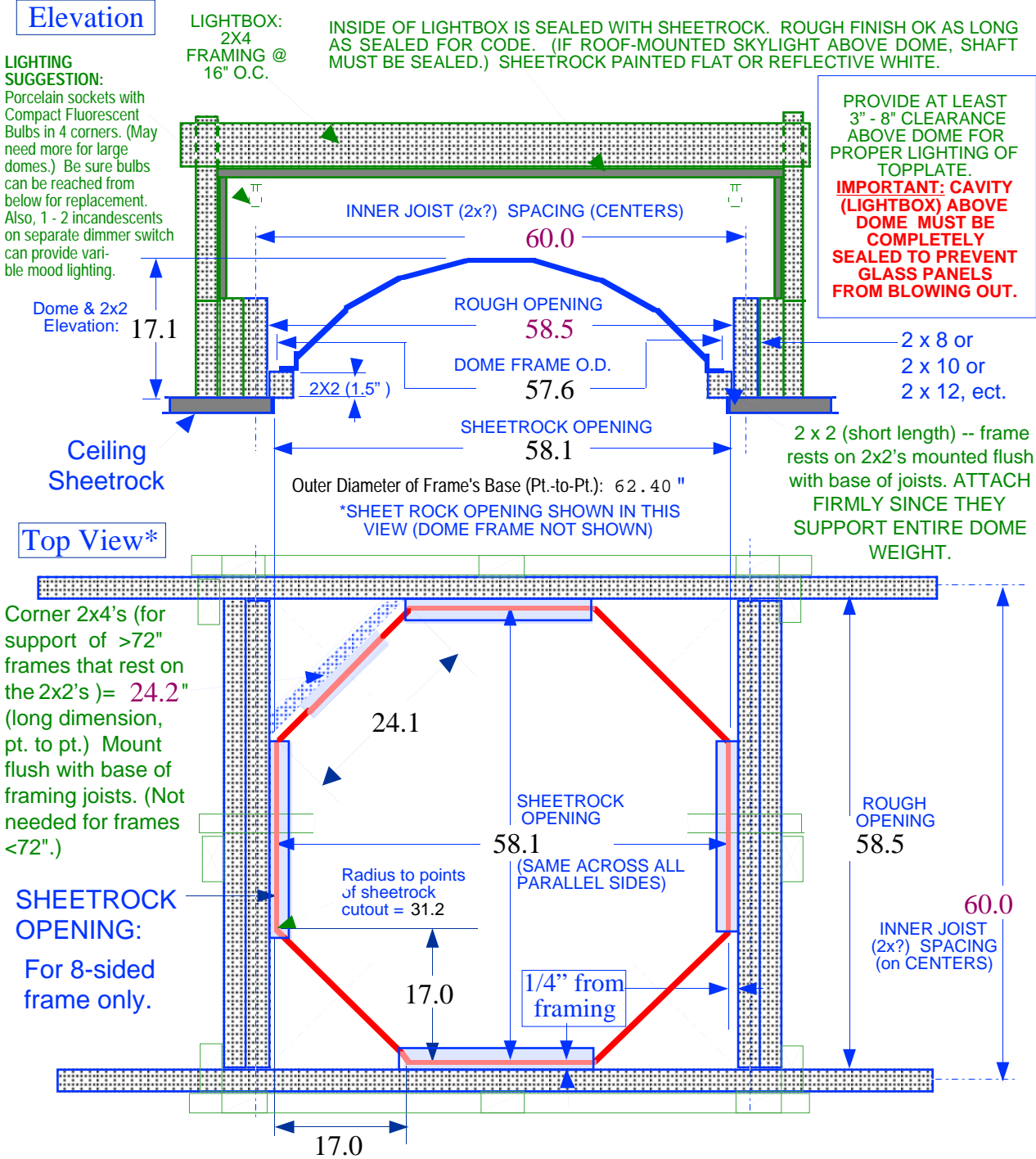
# Sketch of Typical Framing & Sheetrock Sizing for 8-sided frame.

2/20/00 v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

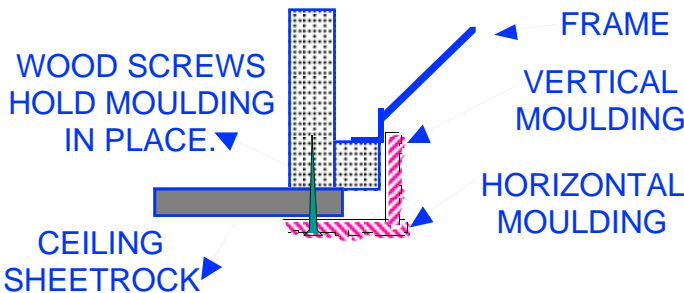
© Sierra Stained Glass Studios, Inc. 1992-2000

SupraDome™ 5' (57.6" 8-sided)



## WOOD TRIM MOULDING DETAIL

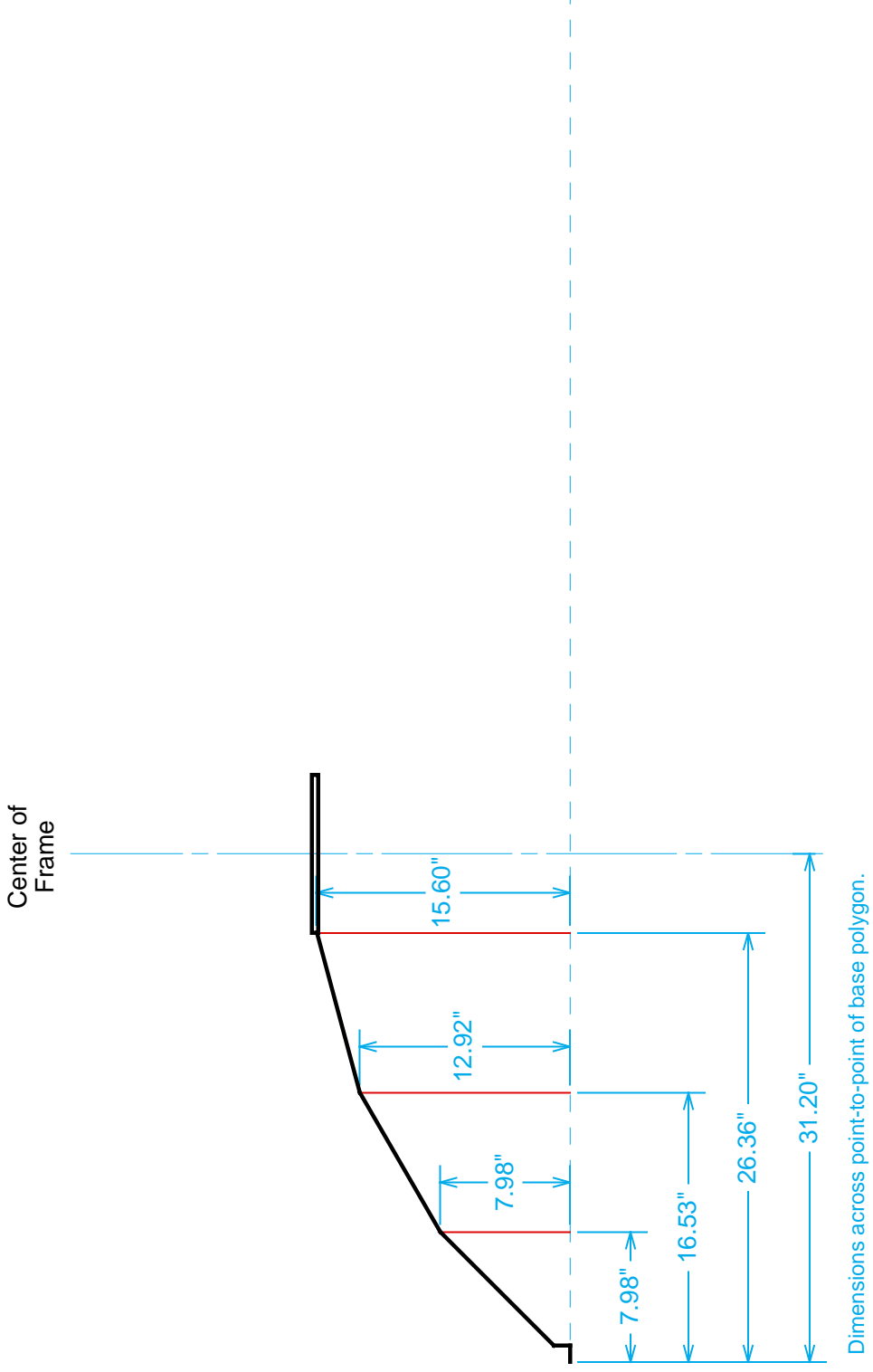
(Pre-Cut Kit shown is available separately only for polygonal openings.)



For **8-sided** 57.6" frame Only!

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# Elevations, 5' Dome, along arms. Frame #5850-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

# Sketch of Typical Framing & Sheetrock Sizing for 8-sided Elongated Dome

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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4/12/07

v2.31

## Elevation

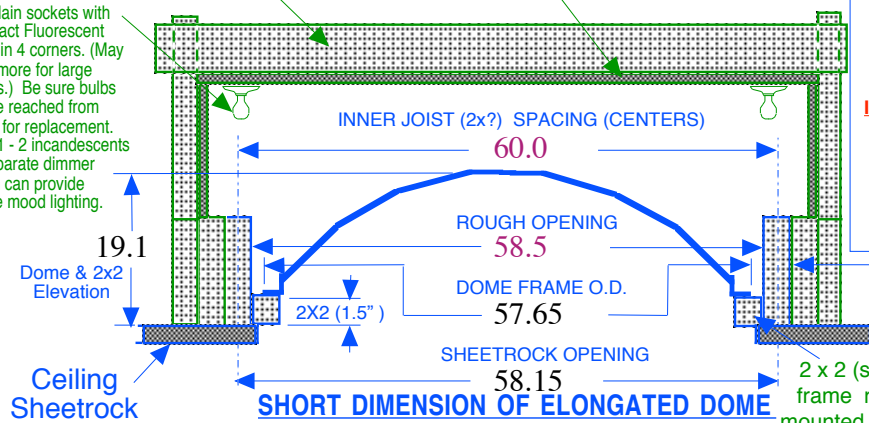
### LIGHTING SUGGESTION:

Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

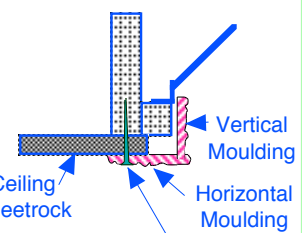
LIGHTBOX: 2X4 FRAMING @ 16" O.C.

INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE.  
**IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**



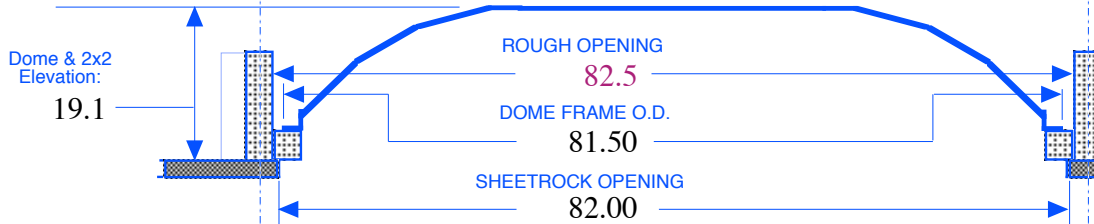
## WOOD TRIM MOULDING DETAIL \*



\*Note: You can also trim with sheet rock for the vertical trim. For this case, make opening 3" less than frame's outside dimension. That is, ceiling's sheetrock extends to edge where vertical trim is shown so it is the base for vertical trim.

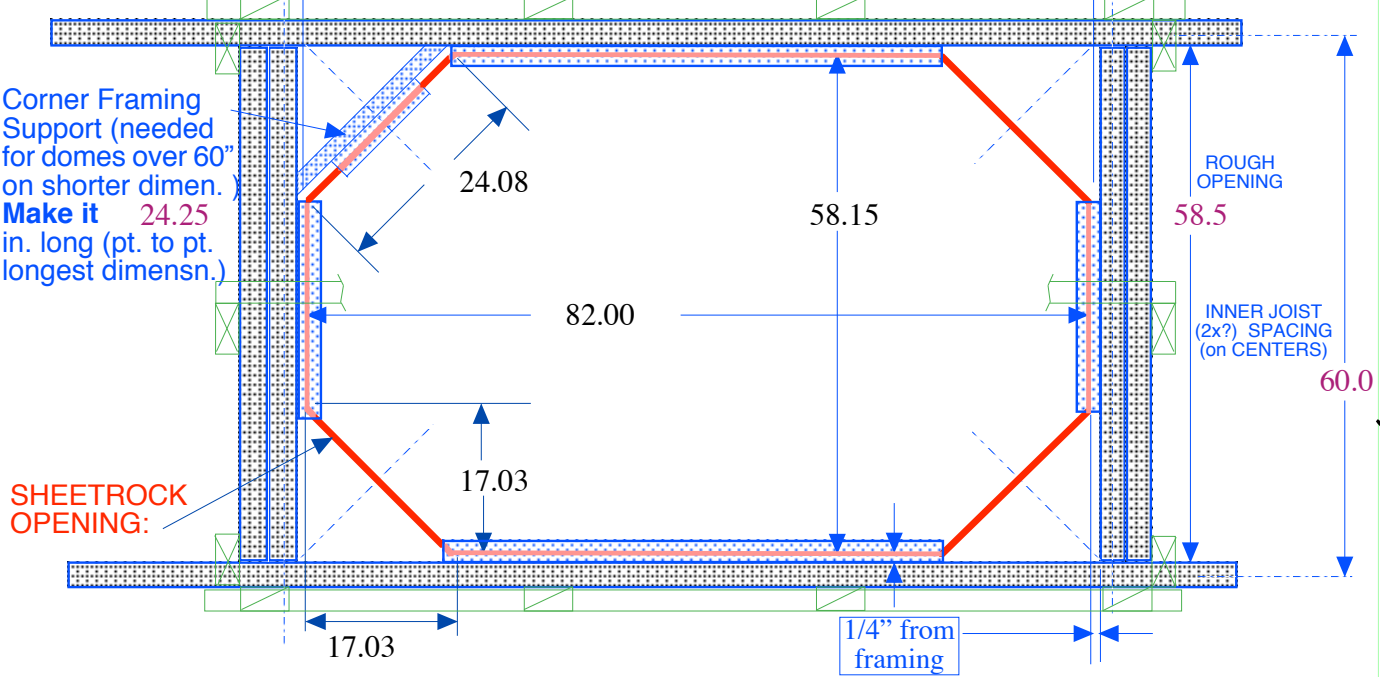
## LONG DIMENSION OF ELONGATED DOME

## Elevation



## Top View\*

\*SHEET ROCK OPENING SHOWN IN THIS VIEW (DOME FRAME NOT SHOWN)



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For  
**8**  
-sided  
Only!  
57.6" x 81.5"  
Frame #5803X7

5803X7 (57.6" x 81.5" 8-sided)

# Sketch of Typical Framing & Sheetrock Sizing for 12-sided frame.

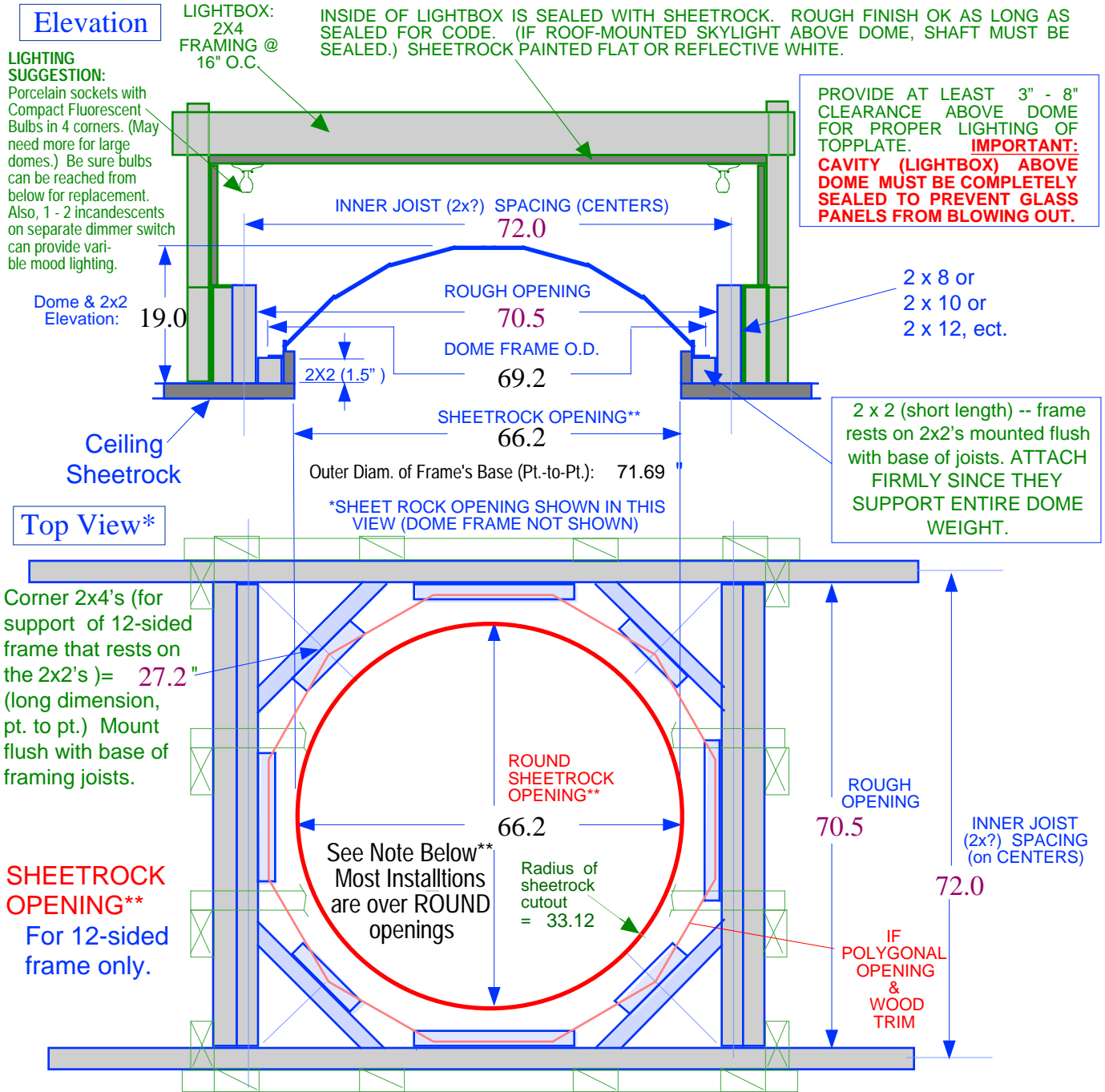
4/1/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

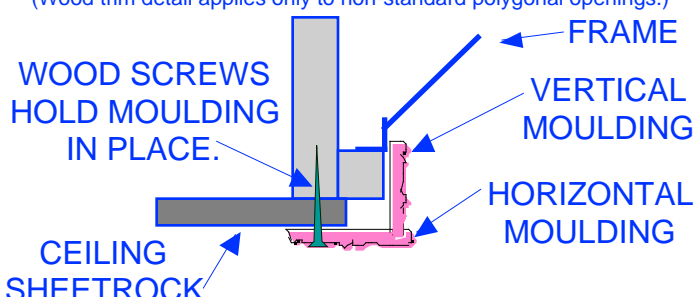
© Sierra Stained Glass Studios, Inc. 1992-2002

SupraDome 6200 6' (69.2" x 69.2" 12-sided)



\*\*Most 12-sided frames are installed over a CIRCULAR opening. Make diameter of opening 3" less than frame O.D. across parallel sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening. The vertical sheetrock trim is wet, then bent to shape.

## WOOD TRIM MOULDING DETAIL

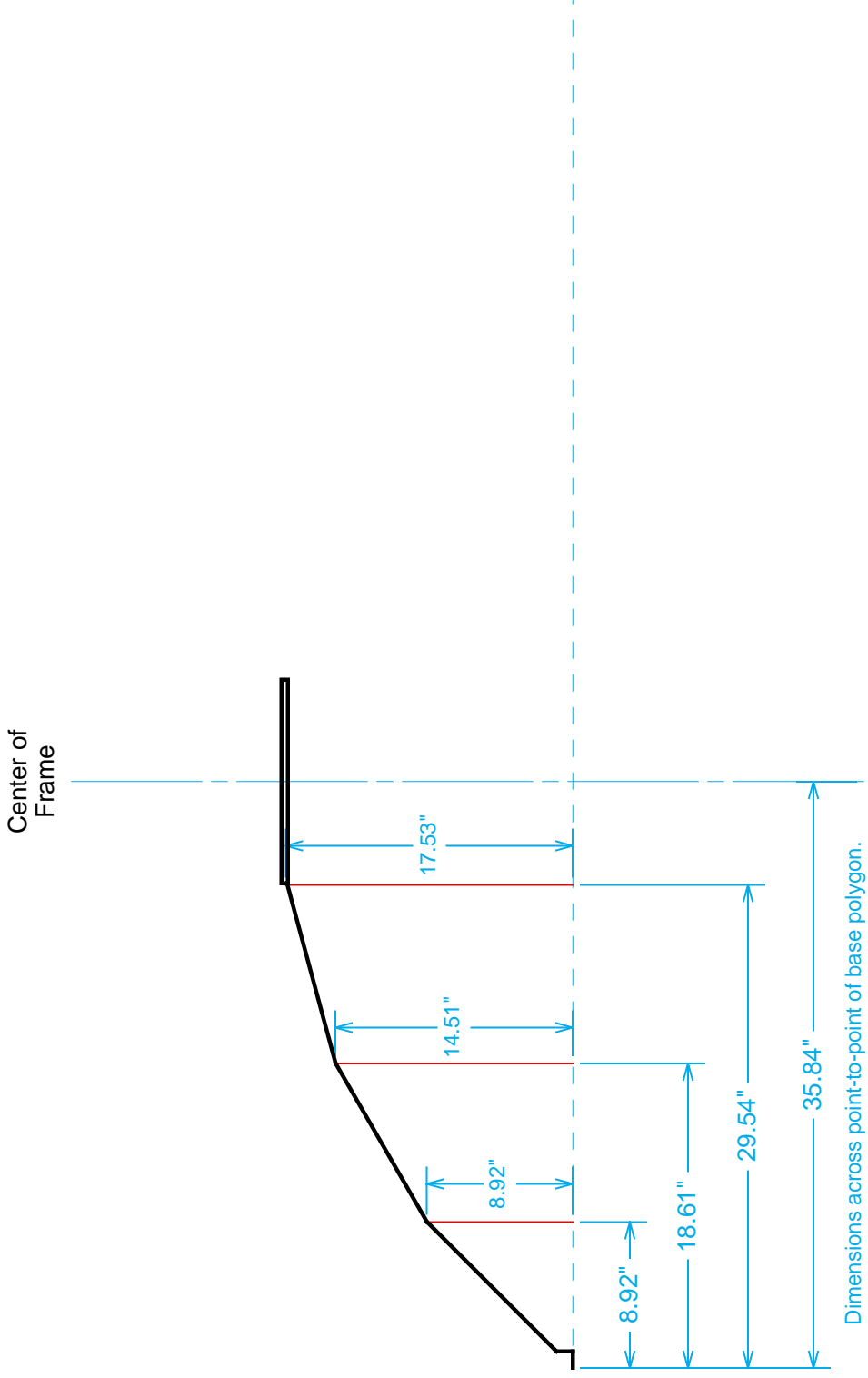


*For 12-sided 69.2" frame Only!*

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# Elevations, 6' Dome, along arms. Frame #6250-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

**Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome**

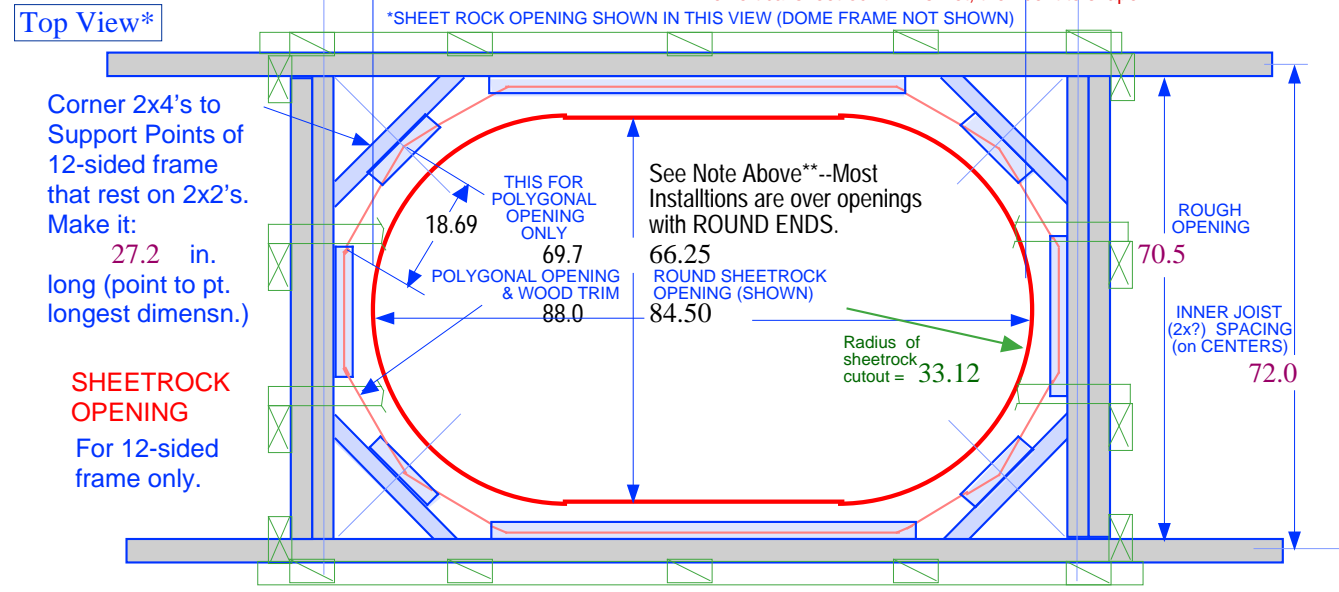
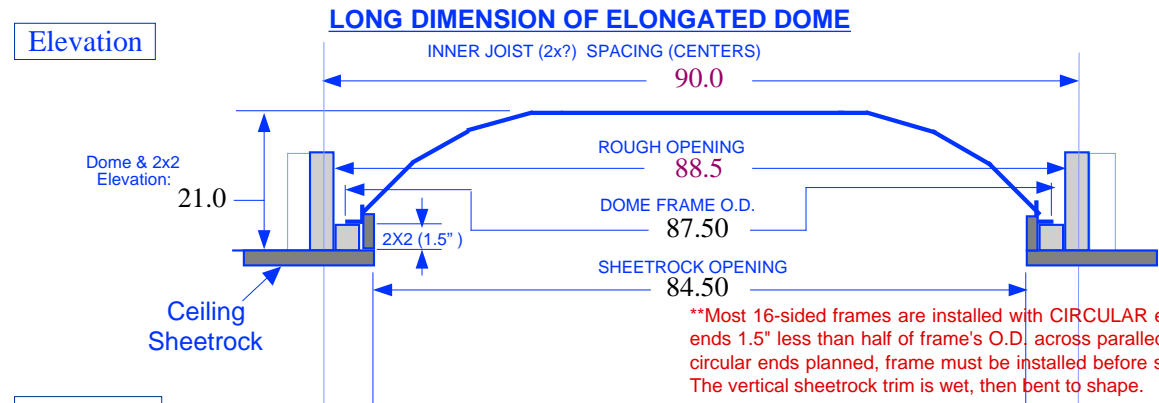
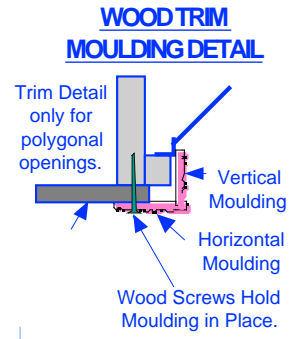
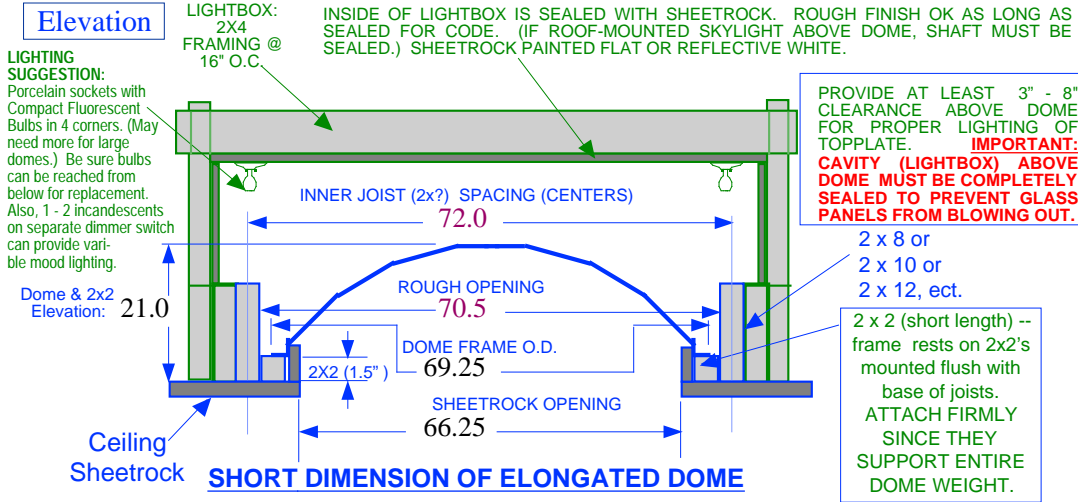
4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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For  
12  
-sided Only!  
69.2" x 87.5"



SupraDome 6200X7.5 6'x7.5' (69.2" x 87.5" 12-sided)

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**Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome**

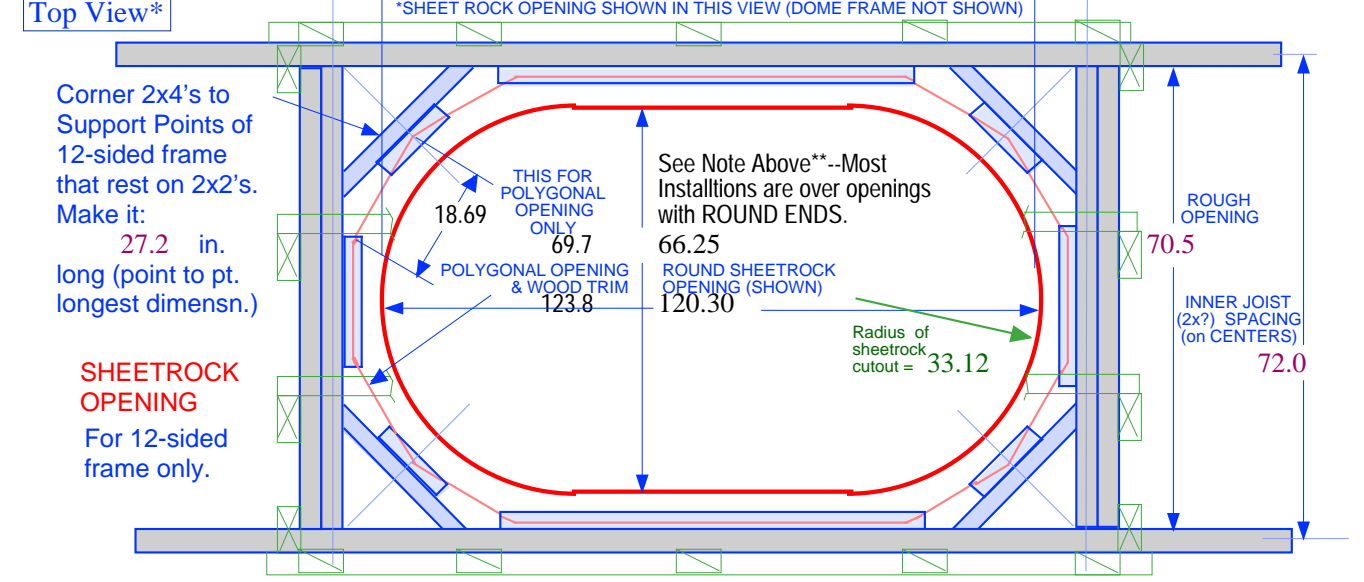
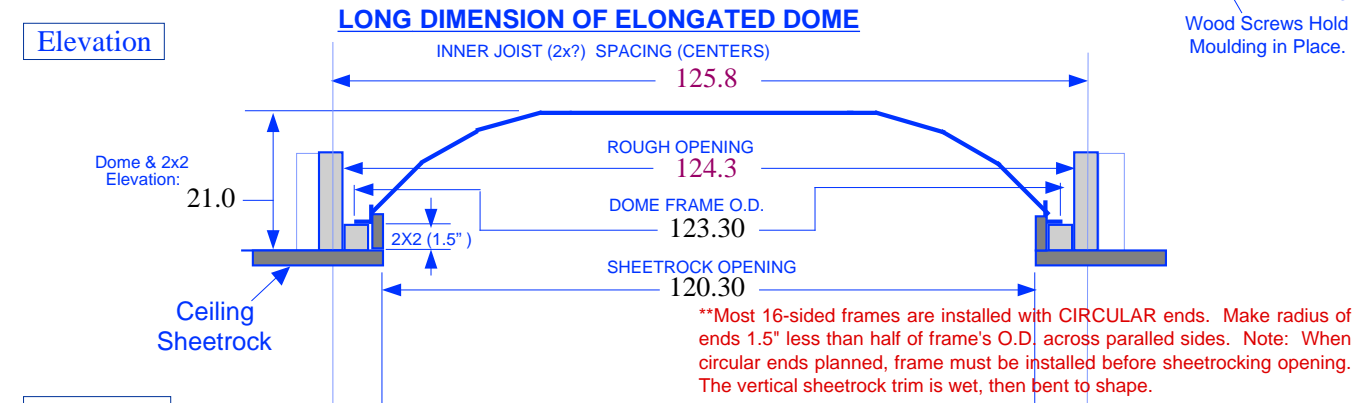
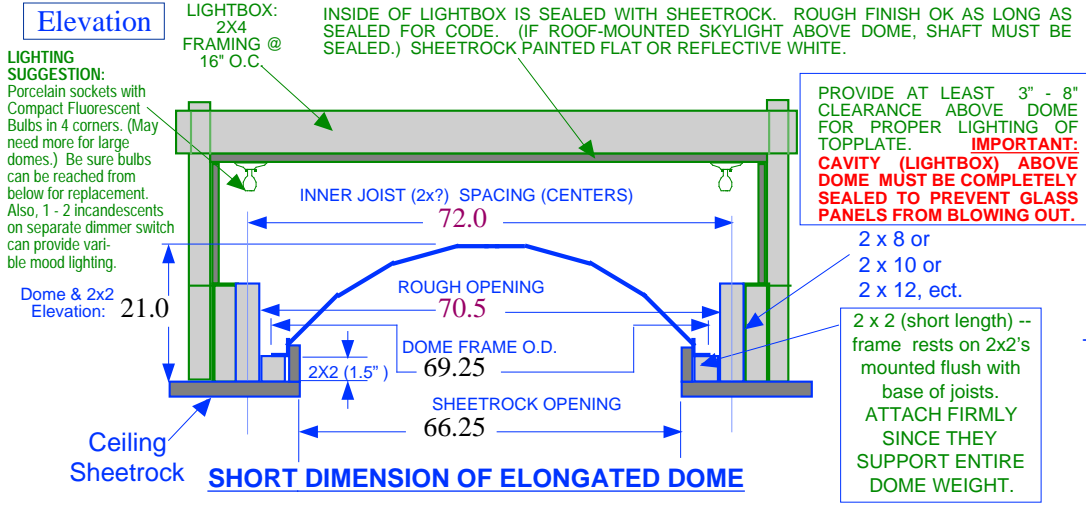
4/2/02

v2.3

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For  
12  
 -sided Only!  
 69.2" x 123.3"



SupraDome 6200X10 6'x10' (69.2" x 123.3" 12-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome

2/20/00

v2.2a8

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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For  
12  
-sided Only!  
69.2" x 141.5"

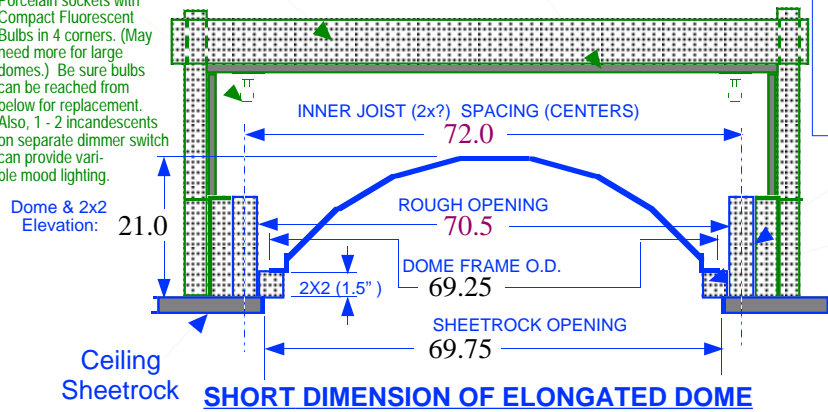
## Elevation

**LIGHTING SUGGESTION:**  
 Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
 2x4 FRAMING @ 16" O.C.

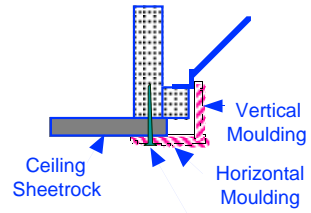
INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE. **IMPORTANT:** CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.



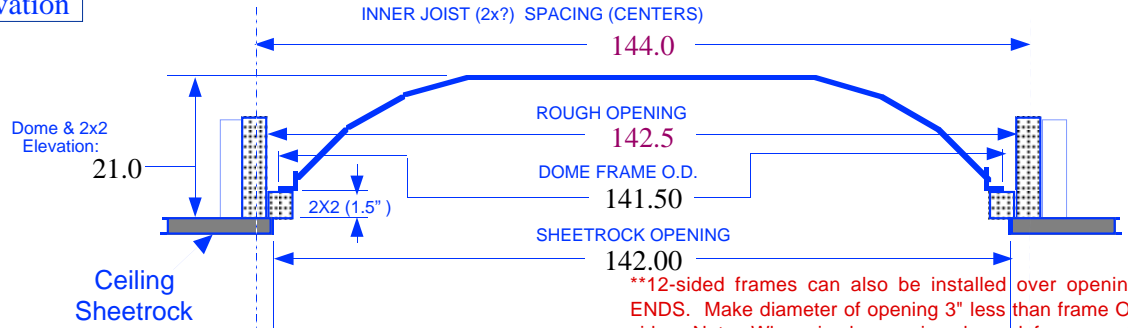
2 x 8 or  
 2 x 10 or  
 2 x 12, ect.  
 2 x 2 (short length) -- frame rests on 2x2's mounted flush with base of joists. ATTACH FIRMLY SINCE THEY SUPPORT ENTIRE DOME WEIGHT.

## WOOD TRIM MOULDING DETAIL



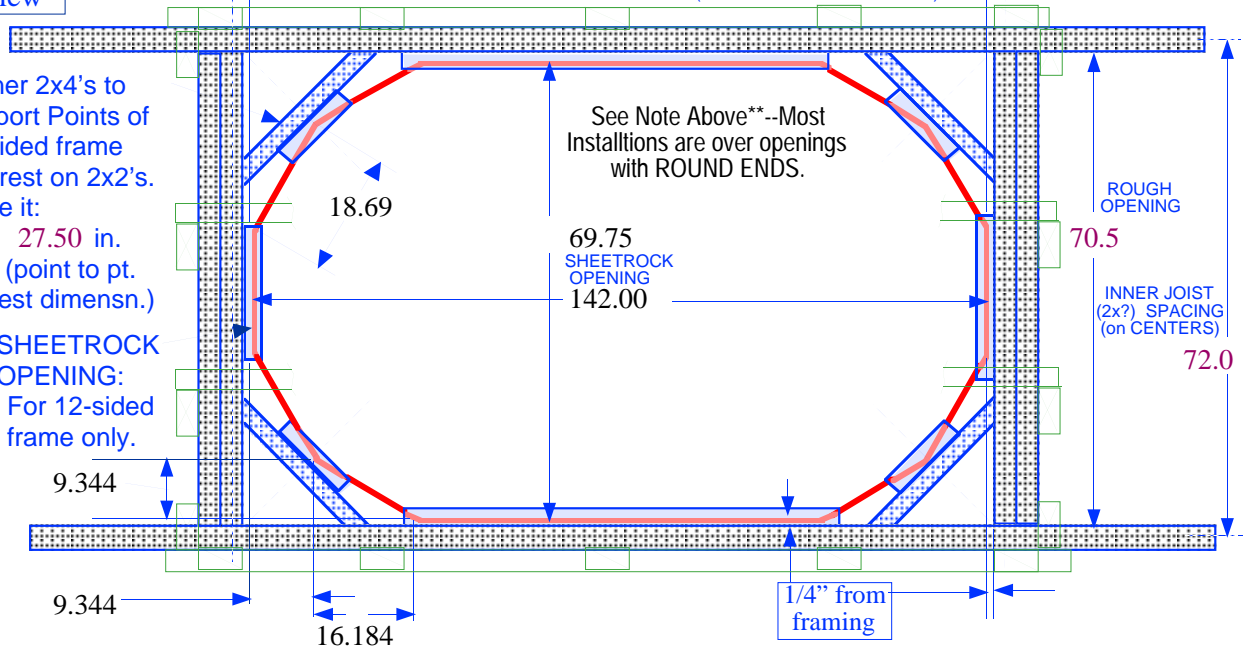
## LONG DIMENSION OF ELONGATED DOME

## Elevation



\*\*12-sided frames can also be installed over opening with CIRCULAR ENDS. Make diameter of opening 3" less than frame O.D. across parallel sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening.

## Top View\*



SupraDome™ 6'x12' (69.2" x 141.5" 12-sided)

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**Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome**

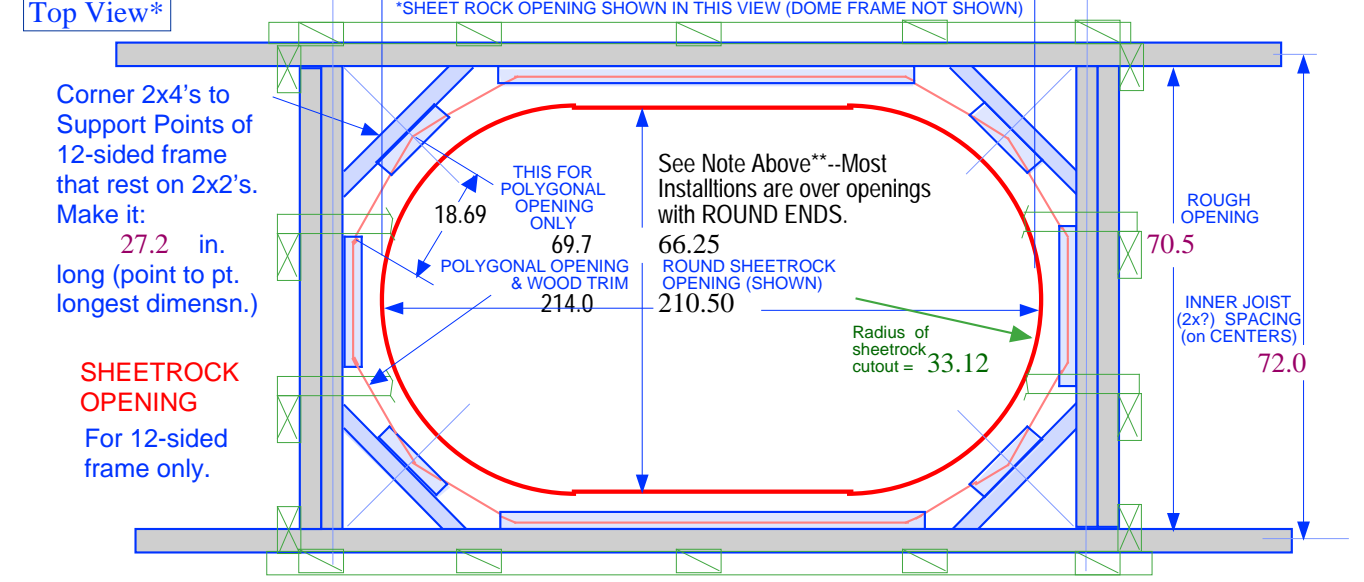
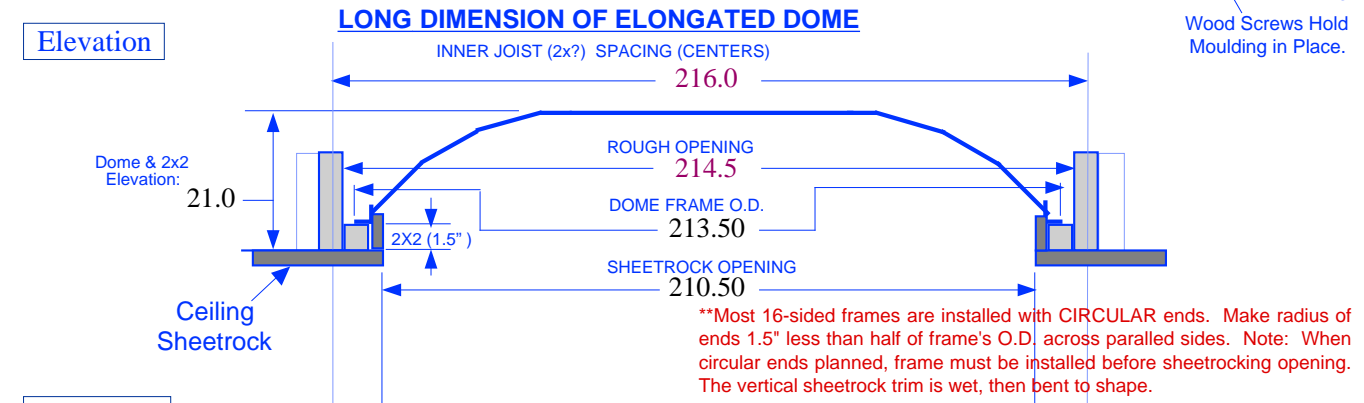
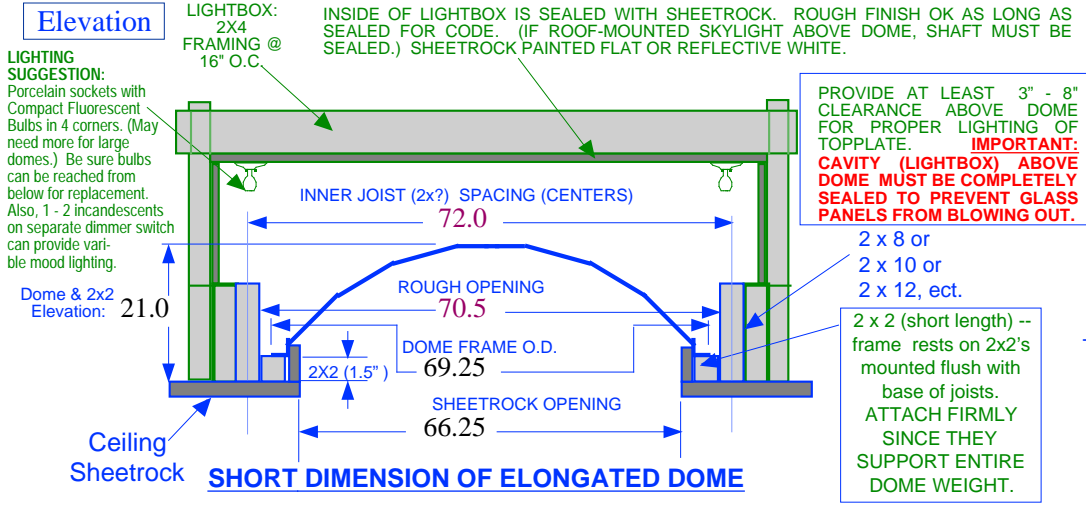
4/2/02

v2.3

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For  
12  
 -sided Only!  
 69.2" x 213.5"



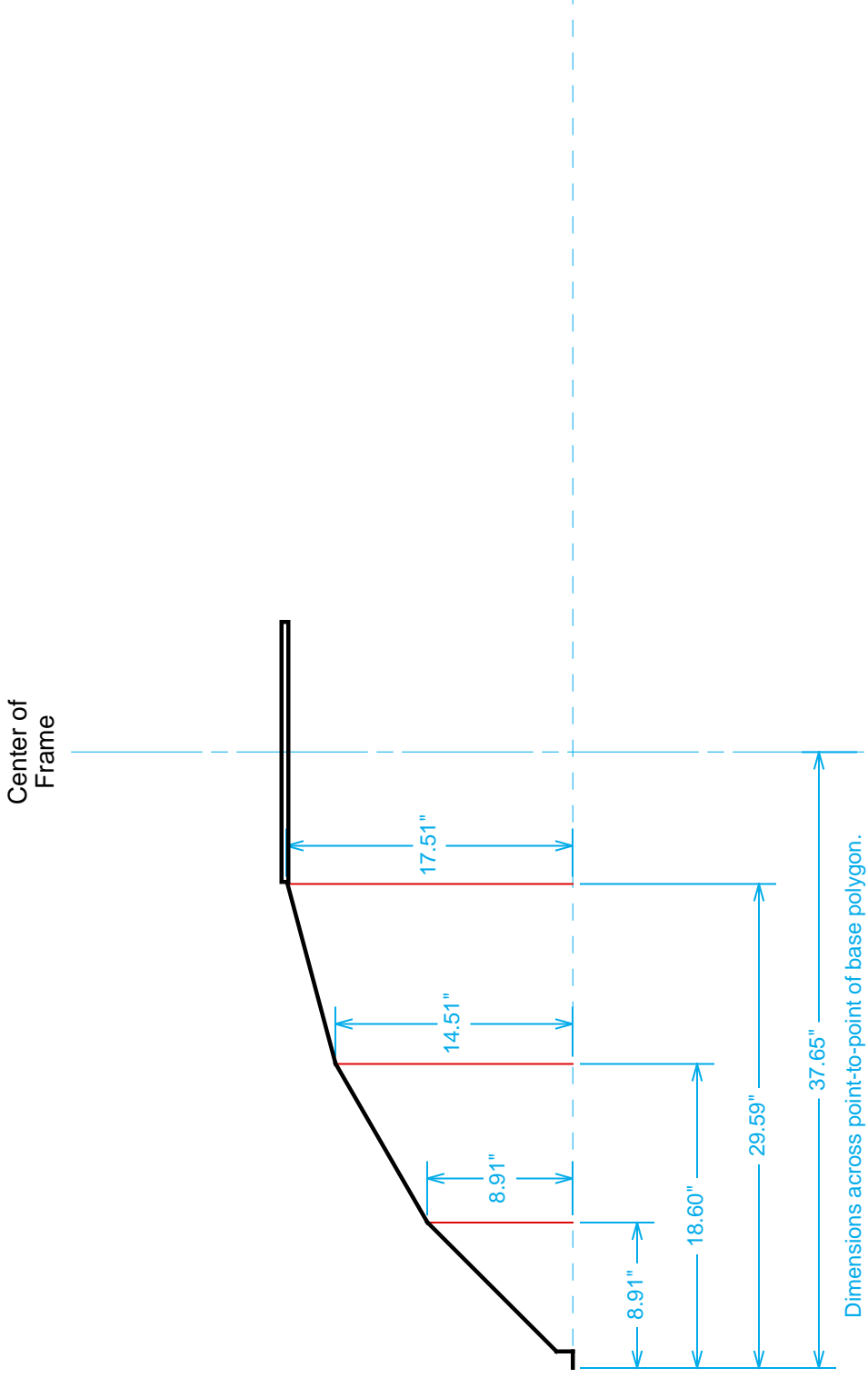
SupraDome 6200X18 6'x18" (69.2" x 213.5" 12-sided)

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# Elevations, 6' Dome, along arms. Frame #6850-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

# Sketch of Typical Framing & Sheetrock Sizing for 12-sided frame.

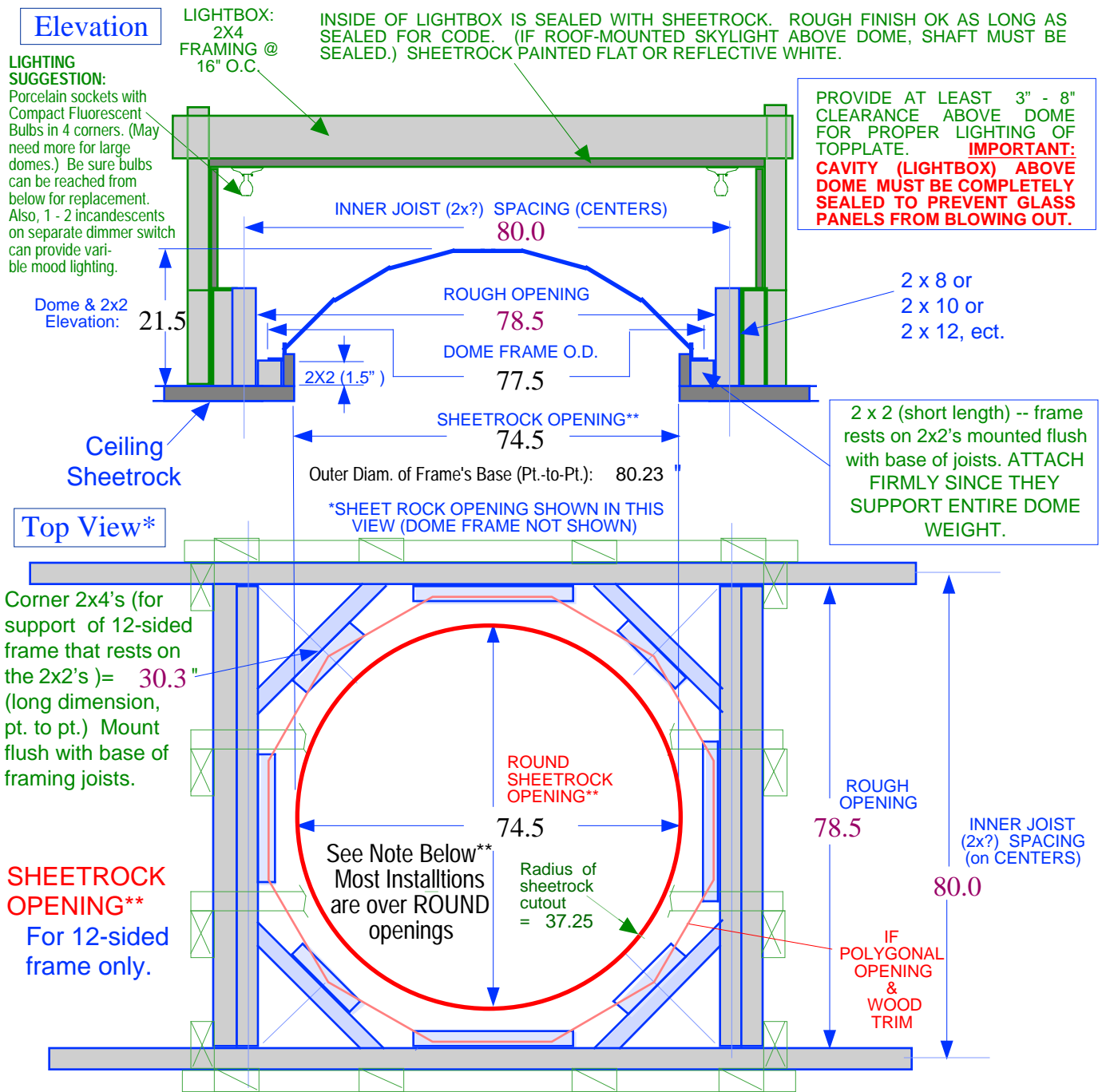
4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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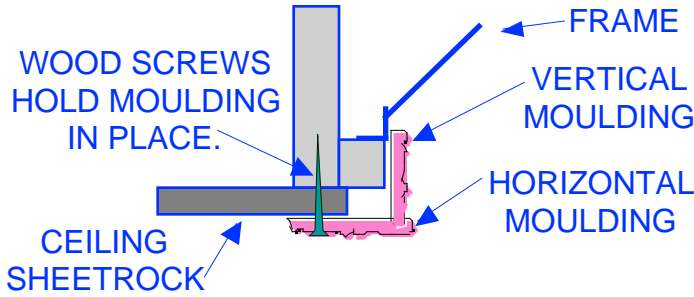
SupraDome 7200 6.7' (77.5" x 77.5" 12-sided)



\*\*Most 12-sided frames are installed over a CIRCULAR opening. Make diameter of opening 3" less than frame O.D. across paralld sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening. The vertical sheetrock trim is wet, then bent to shape.

## WOOD TRIM MOULDING DETAIL

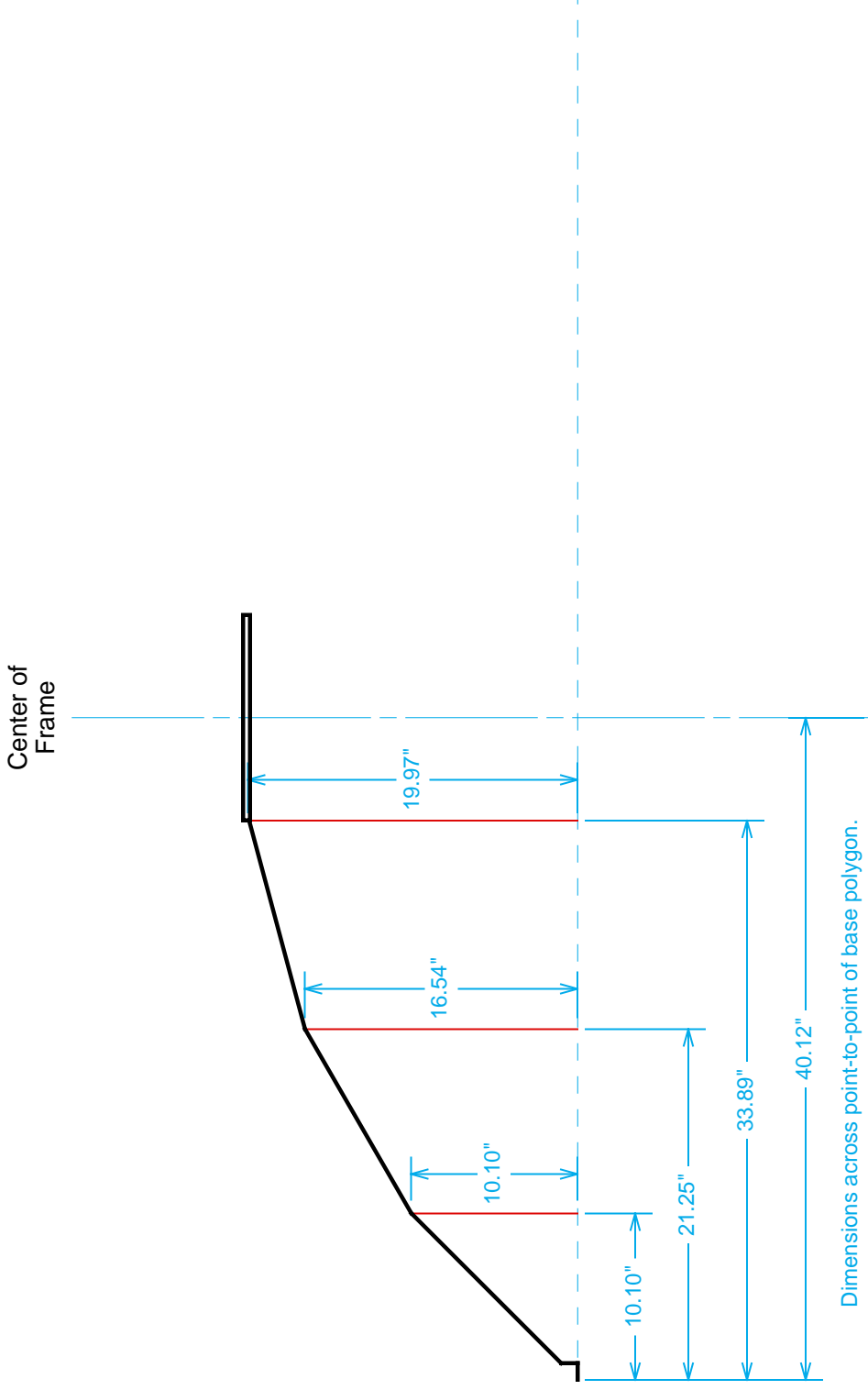
(Wood trim detail applies only to non-standard polygonal openings.)



*For 12-sided 77.5" frame Only!*

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# Elevations, 77.5" Dome, along arms. Frame #7250-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

**Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome**

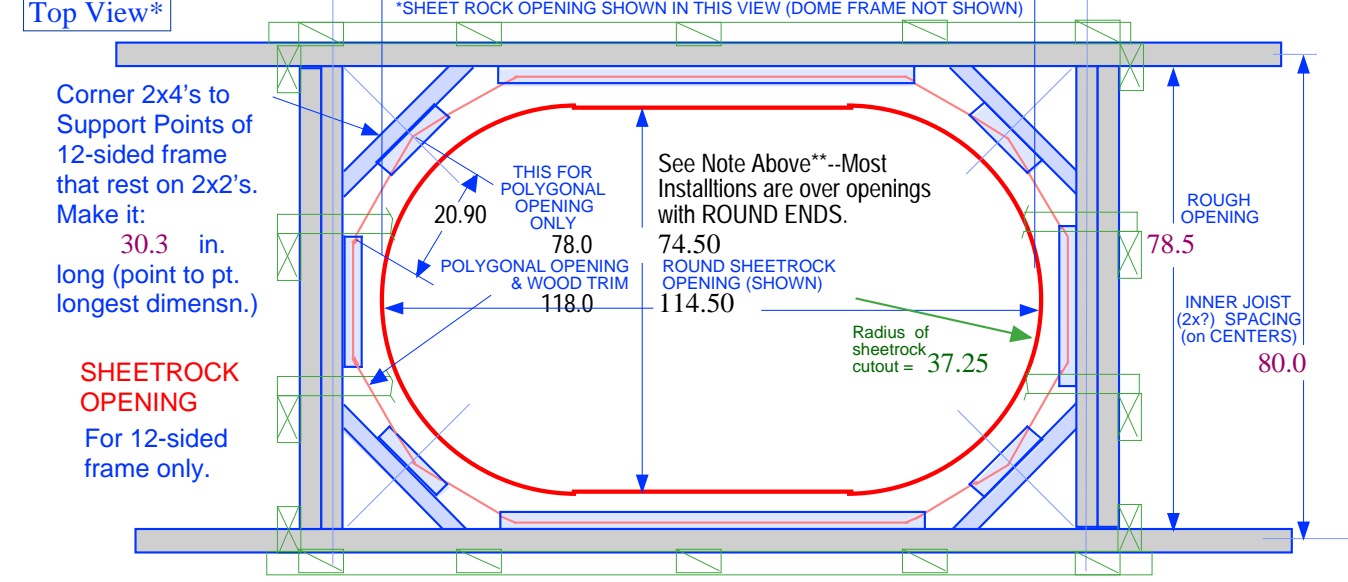
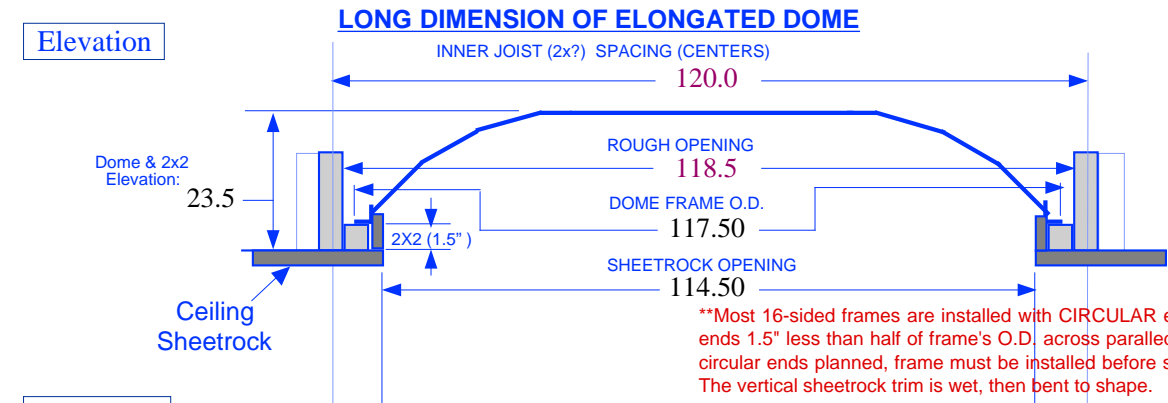
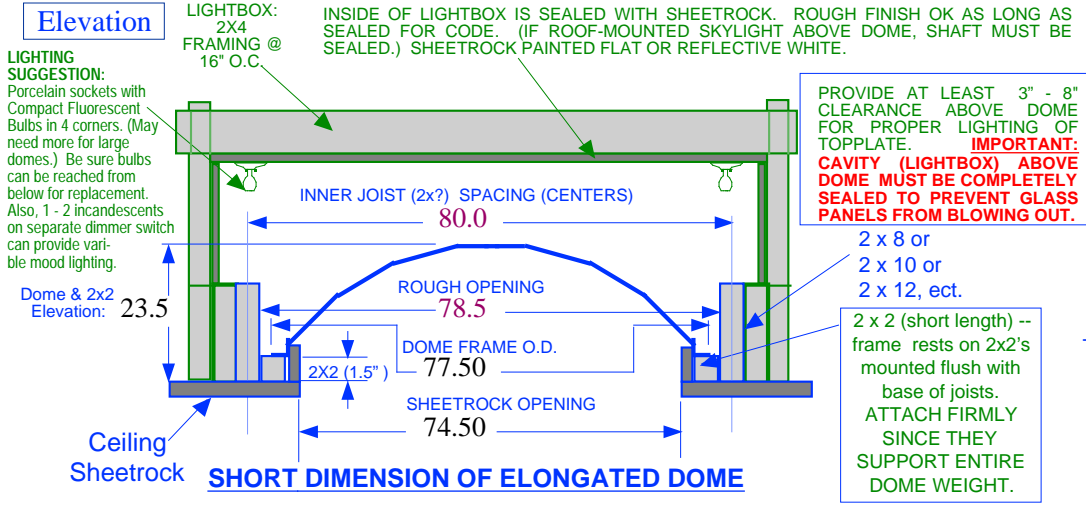
4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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For  
12  
-sided Only!  
77.5" x 117.5"



Supradome 7200X10 6.7x10" (77.5" x 117.5" 12-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome

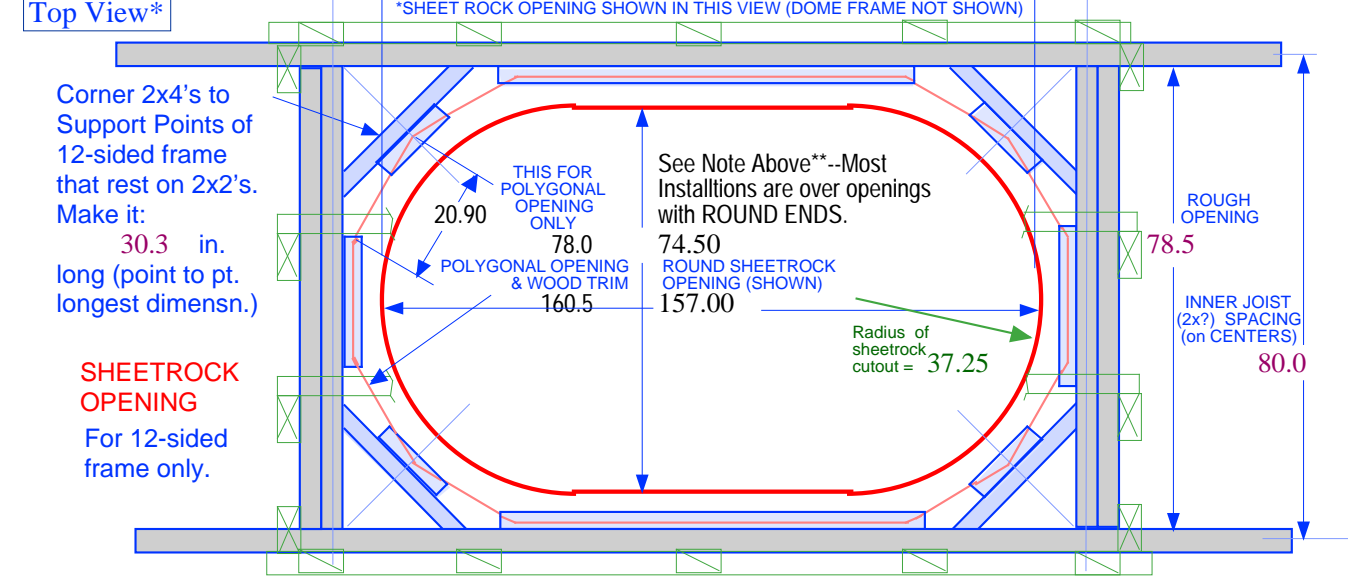
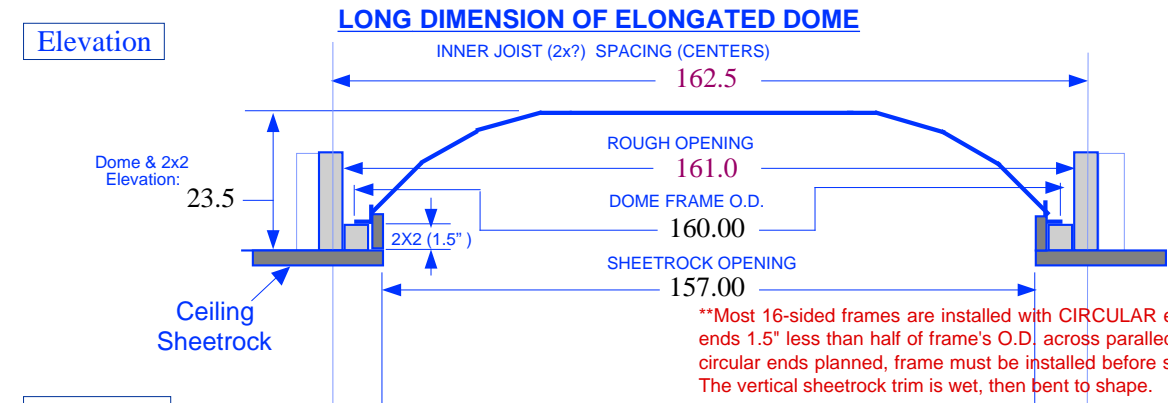
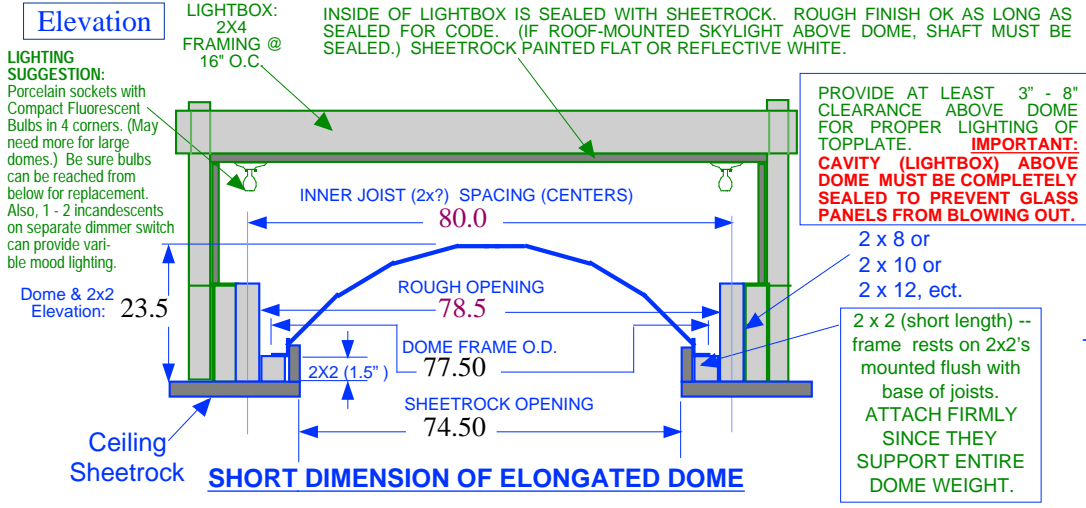
4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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For  
12  
-sided Only!  
77.5" x 160"



SupraDome 7200X13 6.7' x 13.5' (77.5" x 160.0" 12-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 12-sided frame.

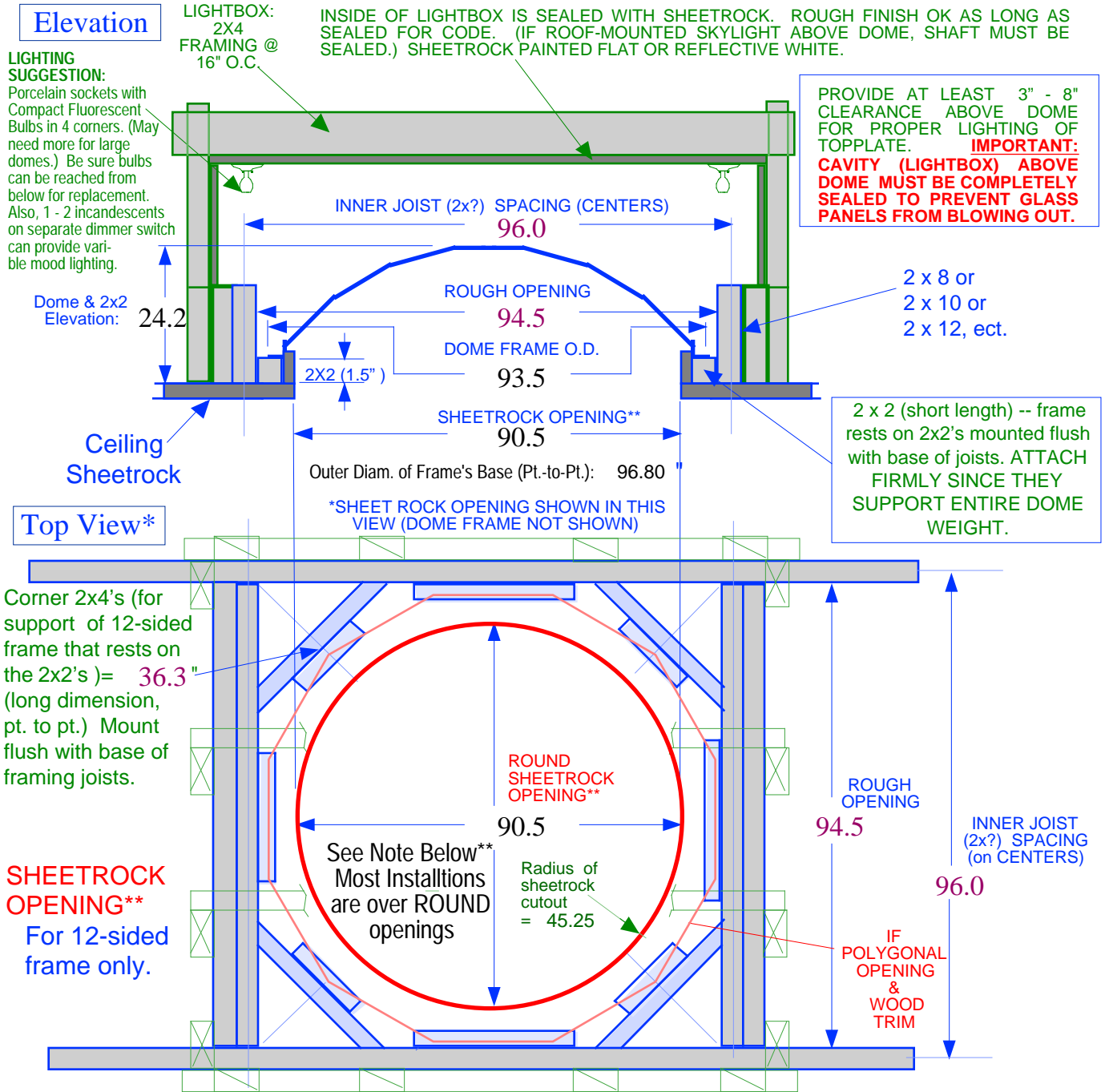
4/1/02

v2.3

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© Sierra Stained Glass Studios, Inc. 1992-2002

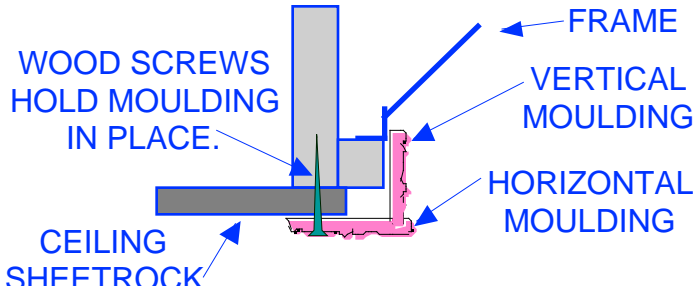
SupraDome 8200 8' (93.5" x 93.5" 12-sided)



\*\*Most 12-sided frames are installed over a CIRCULAR opening. Make diameter of opening 3" less than frame O.D. across parallel sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening. The vertical sheetrock trim is wet, then bent to shape.

## WOOD TRIM MOULDING DETAIL

(Wood trim detail applies only to non-standard polygonal openings.)

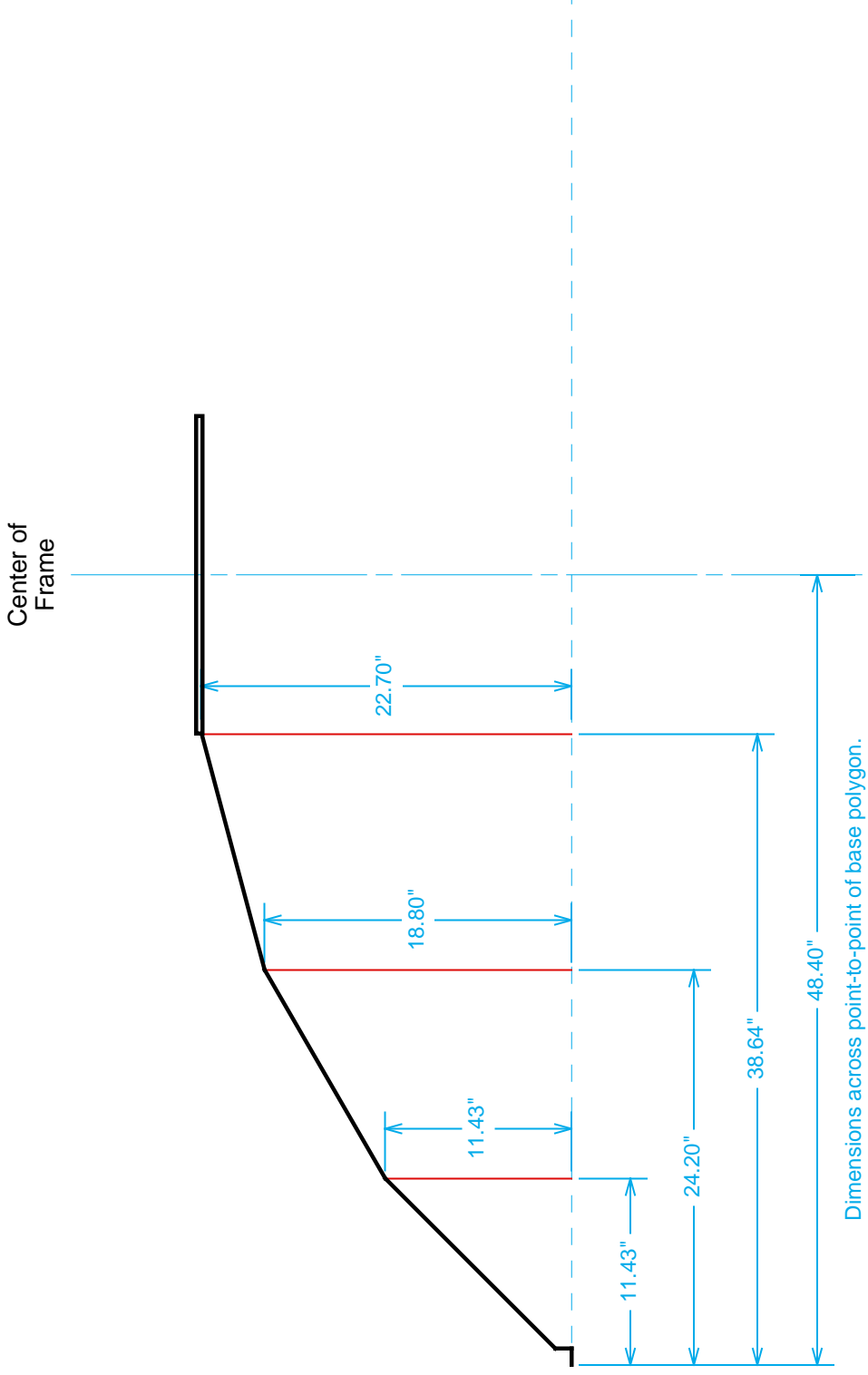


*For 12-sided 93.5" frame Only!*

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# Elevations, 8' Dome, along arms. Frame #8250-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

**Sketch of Typical Framing & Sheetrock Sizing for 12-sided Elongated Dome**

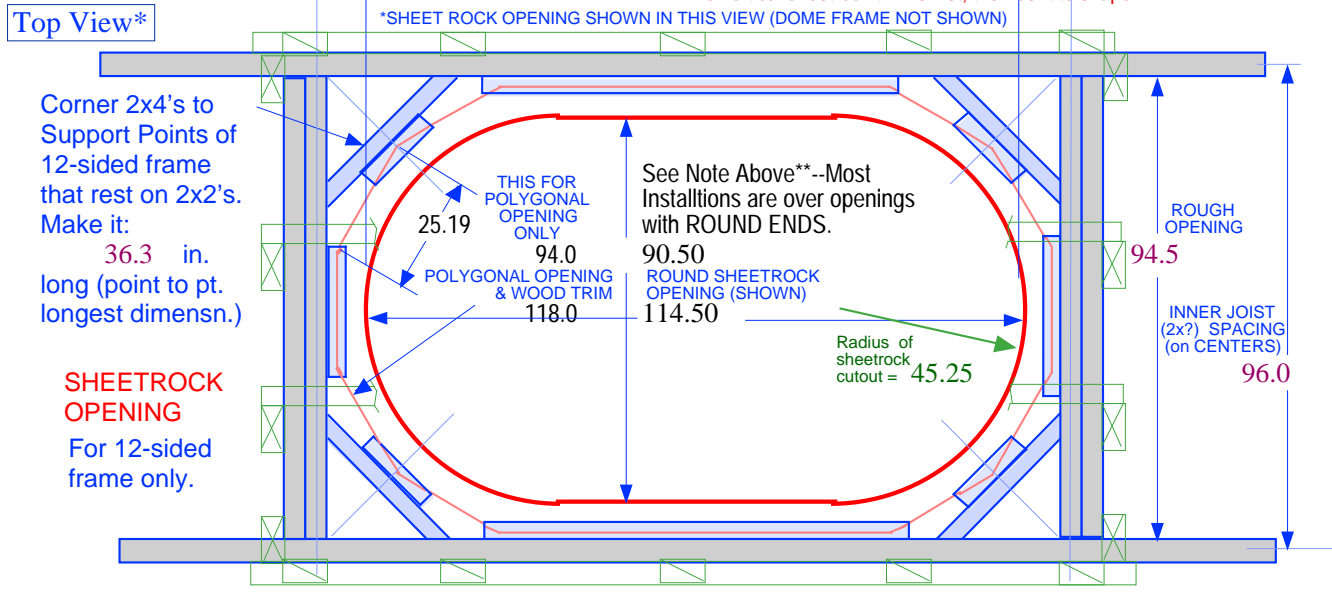
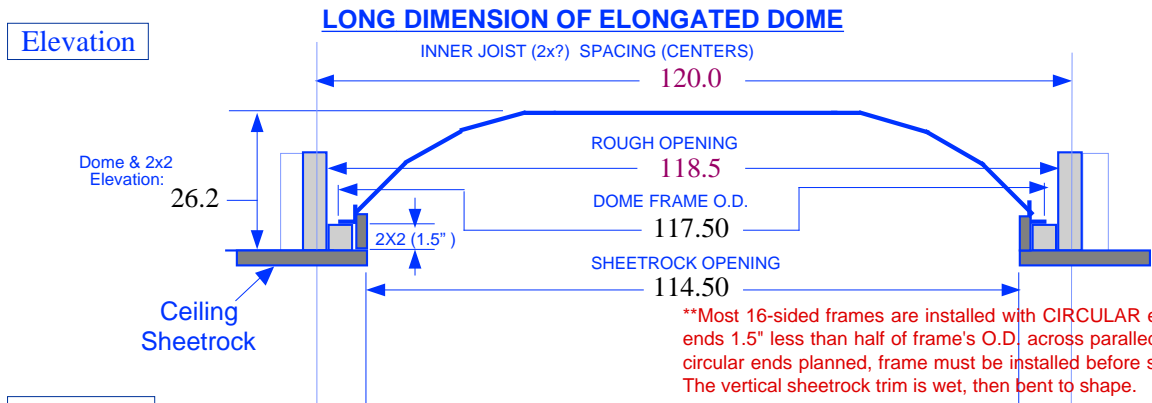
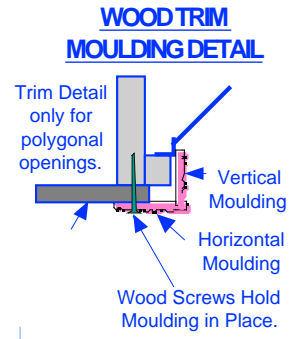
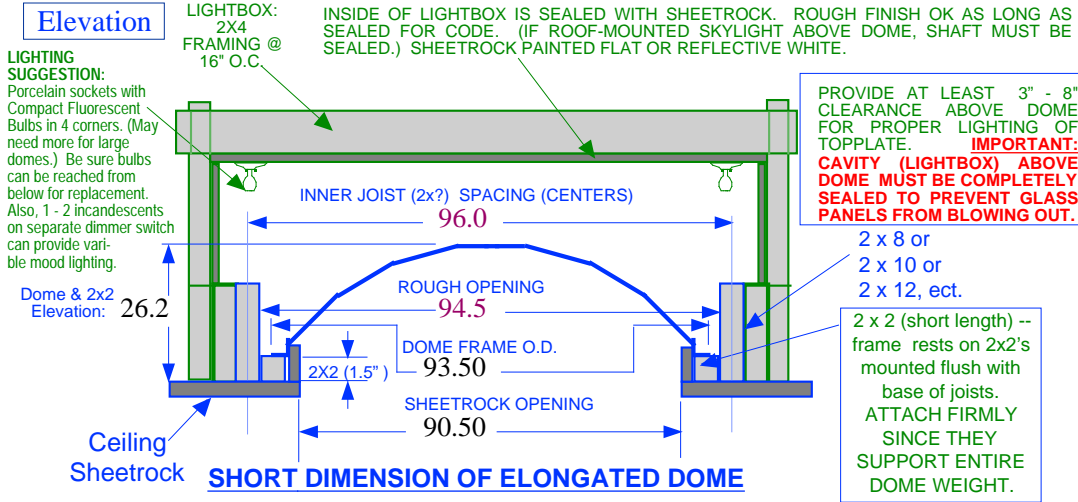
4/2/02

v2.3

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For  
12  
 -sided Only!  
 93.5" x 117.5"



SupraDome 8200X10 8'x10' (93.5" x 117.5" 12-sided)

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# Sketch of Typical Framing & Sheetrock Sizing for 16-sided frame.

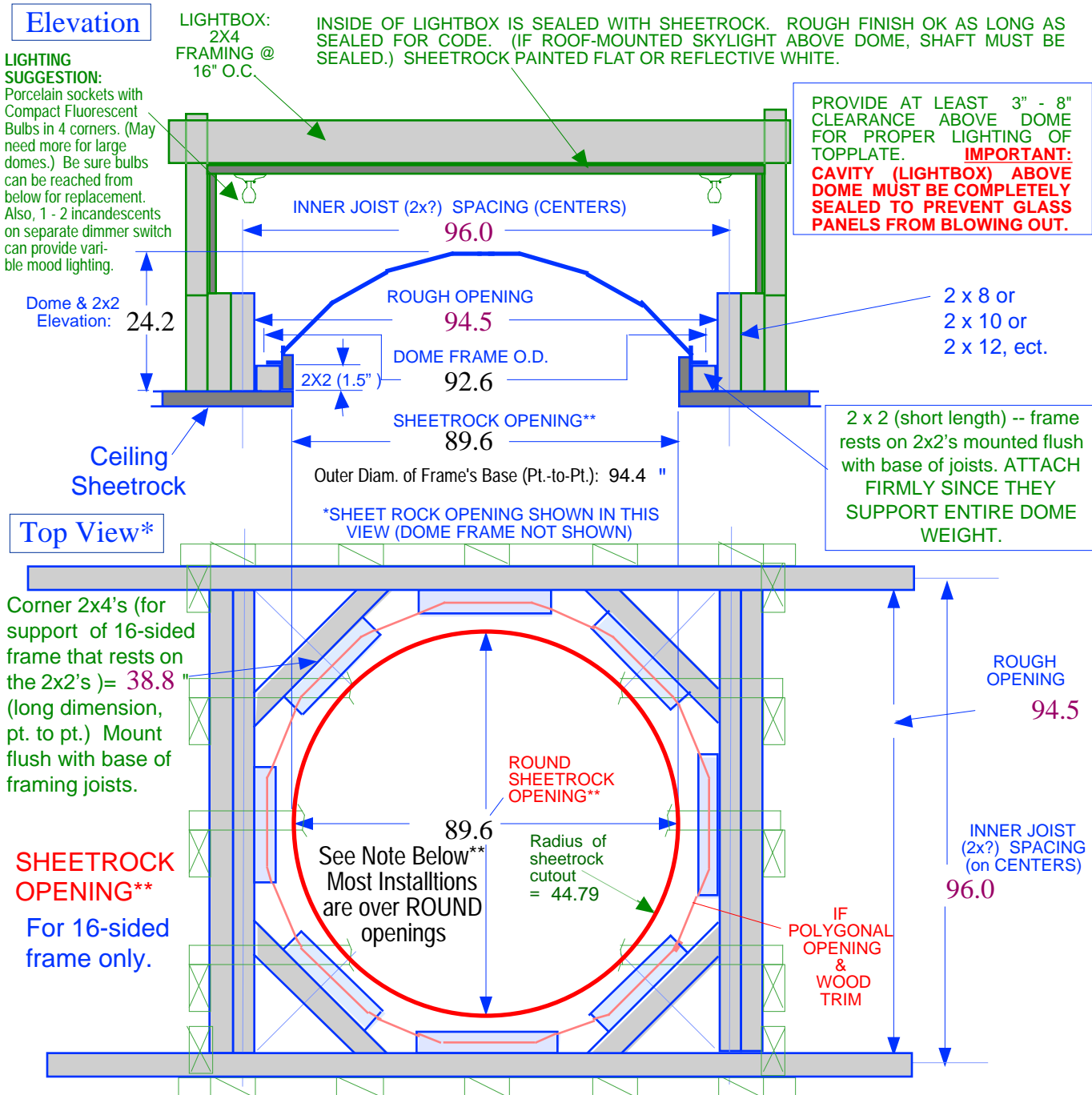
4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

© Sierra Stained Glass Studios, Inc. 1992-2002

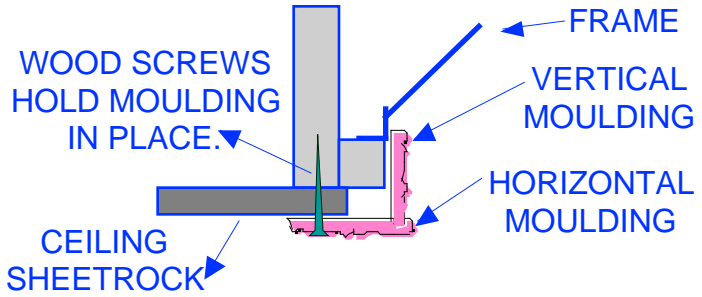
SupraDome 8600 8' (92.6" x 92.6" 16-sided)



\*\*Most 16-sided frames are installed over a CIRCULAR opening. Make diameter of opening 3" less than frame O.D. across paralled sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening. The vertical sheetrock trim is wet, then bent to shape.

## WOOD TRIM DETAIL

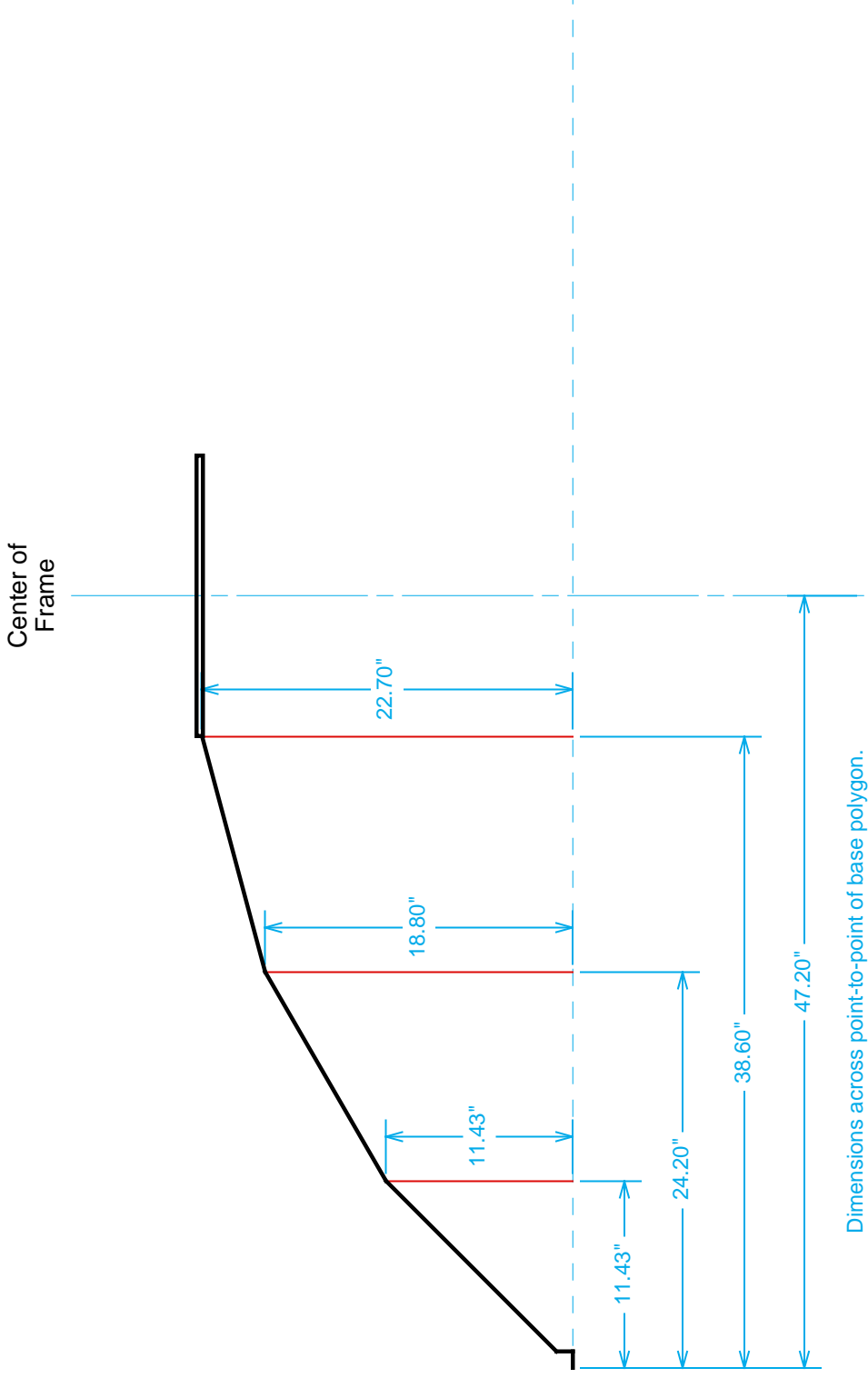
(Wood trim detail applies only to non-standard polygonal openings.)



**For 16-sided 92.6" frame Only!**

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# Elevations, 8' Dome, along arms. Frame #8650-0



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

# Sketch of Typical Framing & Sheetrock Sizing for 16-sided Elongated Dome

4/2/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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For  
16  
-sided Only!  
92.6" x 146.5"

## Elevation

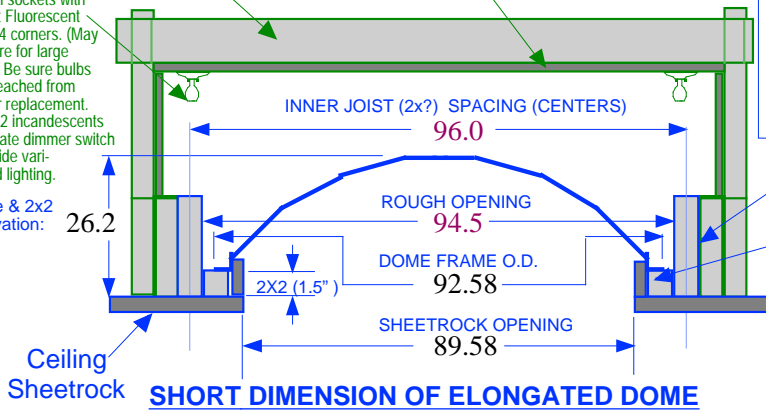
**LIGHTING SUGGESTION:**  
 Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
 2x4 FRAMING @  
 16" O.C.

INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE. **IMPORTANT:** CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.

Dome & 2x2 Elevation: 26.2

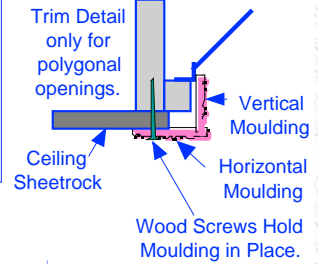


**SHORT DIMENSION OF ELONGATED DOME**

2 x 8 or  
 2 x 10 or  
 2 x 12, ect.

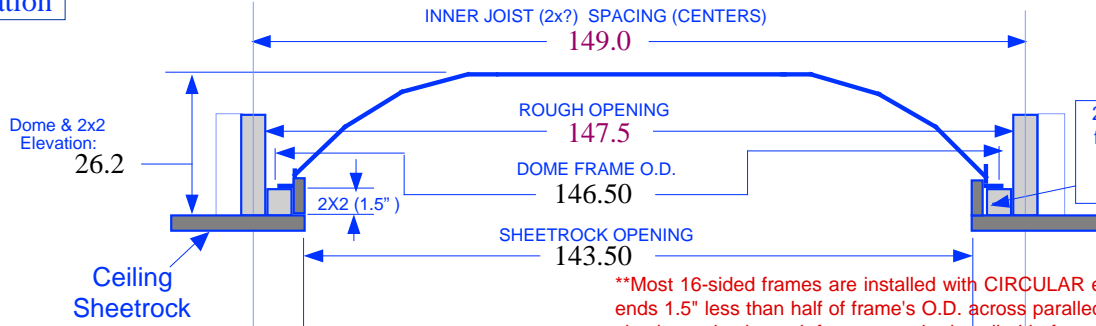
2 x 2 (short length) -- frame rests on 2x2's mounted flush with base of joists. **ATTACH FIRMLY SINCE THEY SUPPORT ENTIRE DOME WEIGHT.**

## WOOD TRIM MOULDING DETAIL



## LONG DIMENSION OF ELONGATED DOME

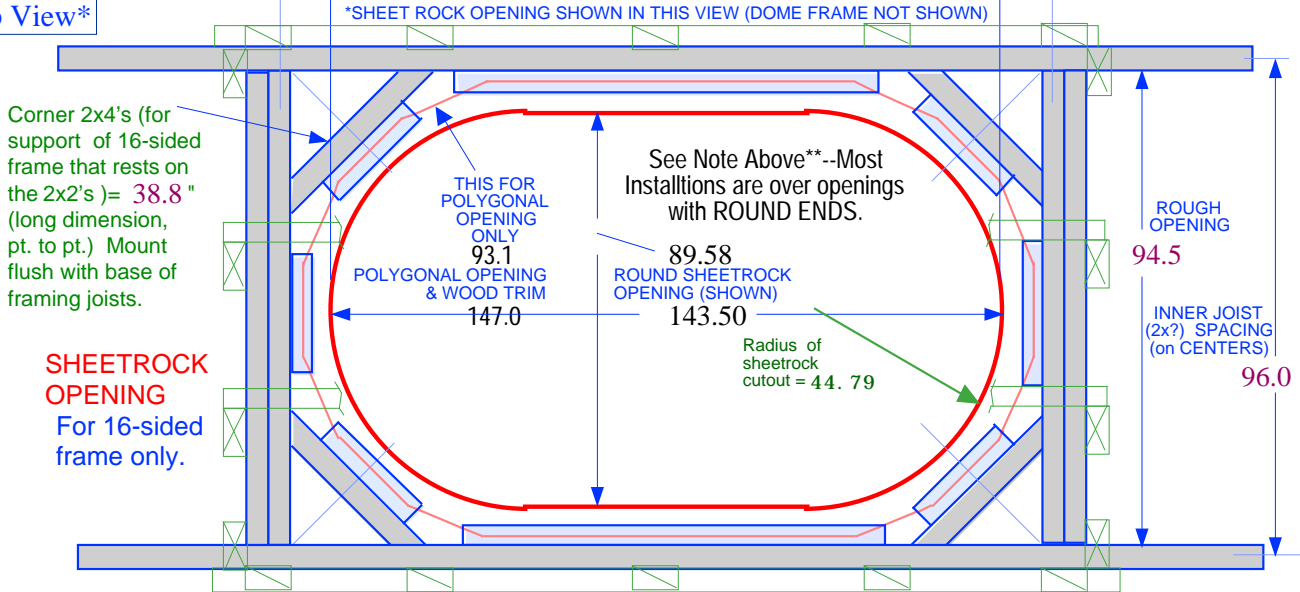
## Elevation



2 x 2 (short length) -- frame rests on 2x2's mounted flush with base of joists.

**\*\*Most 16-sided frames are installed with CIRCULAR ends. Make radius of ends 1.5" less than half of frame's O.D. across parallel sides. Note: When circular ends planned, frame must be installed before sheetrocking opening. The vertical sheetrock trim is wet, then bent to shape.**

## Top View\*



Corner 2x4's (for support of 16-sided frame that rests on the 2x2's) = 38.8" (long dimension, pt. to pt.) Mount flush with base of framing joists.

**SHEETROCK OPENING**  
 For 16-sided frame only.

See Note Above\*\*--Most Installations are over openings with ROUND ENDS.

THIS FOR POLYGONAL OPENING ONLY  
 93.1  
 POLYGONAL OPENING & WOOD TRIM  
 147.0

89.58  
 ROUND SHEETROCK OPENING (SHOWN)  
 143.50

Radius of sheetrock cutout = 44.79

ROUGH OPENING  
 94.5

INNER JOIST (2x2) SPACING (on CENTERS)  
 96.0

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Supradome 8600X12 8'x12' (92.6" x 146.5" 16-sided)

# Sketch of Typical Framing & Sheetrock Sizing for 8-sided frame.

4/3/02 v2.3

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SupraDome 8806 8'x8' (93.5"x93.5" 8-sided base, 16-sectns.)

## Elevation

**LIGHTING SUGGESTION:**  
Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
2X4  
FRAMING @  
16" O.C.

INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE.  
**IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**

Dome & 2x2  
Elevation: 25.7

Ceiling  
Sheetrock

INNER JOIST (2x?) SPACING (CENTERS)

96.0

ROUGH OPENING

94.5

DOME FRAME O.D.

93.5

SHEETROCK OPENING

94.0

Outer Diameter of Frame's Base (Pt.-to-Pt.): 101.20"

\*SHEET ROCK OPENING SHOWN IN THIS VIEW (DOME FRAME NOT SHOWN)

2 x 8 or  
2 x 10 or  
2 x 12, ect.

2 x 2 (short length) -- frame rests on 2x2's mounted flush with base of joists. ATTACH FIRMLY SINCE THEY SUPPORT ENTIRE DOME WEIGHT.

## Top View\*

Corner 2x4's (for support of >72" frames that rest on the 2x2's) = 39.1" (long dimension, pt. to pt.) Mount flush with base of framing joists. (Not needed for frames <72".)

**SHEETROCK OPENING:**

For 8-sided frame only.

38.9

See Note Below\*\*if opening will be trimmed with sheetrock instead of wood trims.

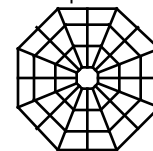
Radius to points of sheetrock cutout = 50.6

94.0 (SAME ACROSS ALL PARALLEL SIDES)

1/4" from framing

27.5

FRAME  
Top View



ROUGH OPENING  
94.5

INNER JOIST (2x?) SPACING (on CENTERS)  
96.0

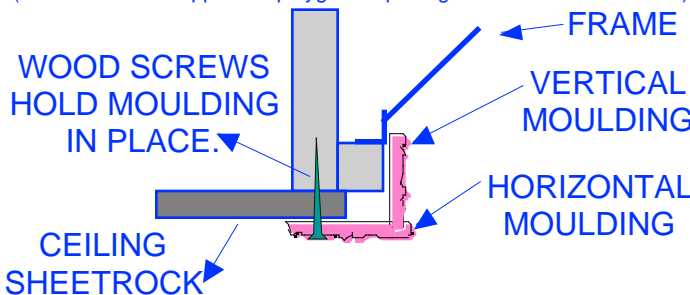
27.5

\*\*IF opening will be trimmed with sheetrock instead of wood mouldings, make polygonal opening 3" less than frame O.D. across parallel sides. Frame should be in place BEFORE sheetrocking done.

Above drawing's opening assumes wood trim used.

## WOOD TRIM MOULDING DETAIL

(Wood trim detail applies to polygonal openings sized as shown above.)

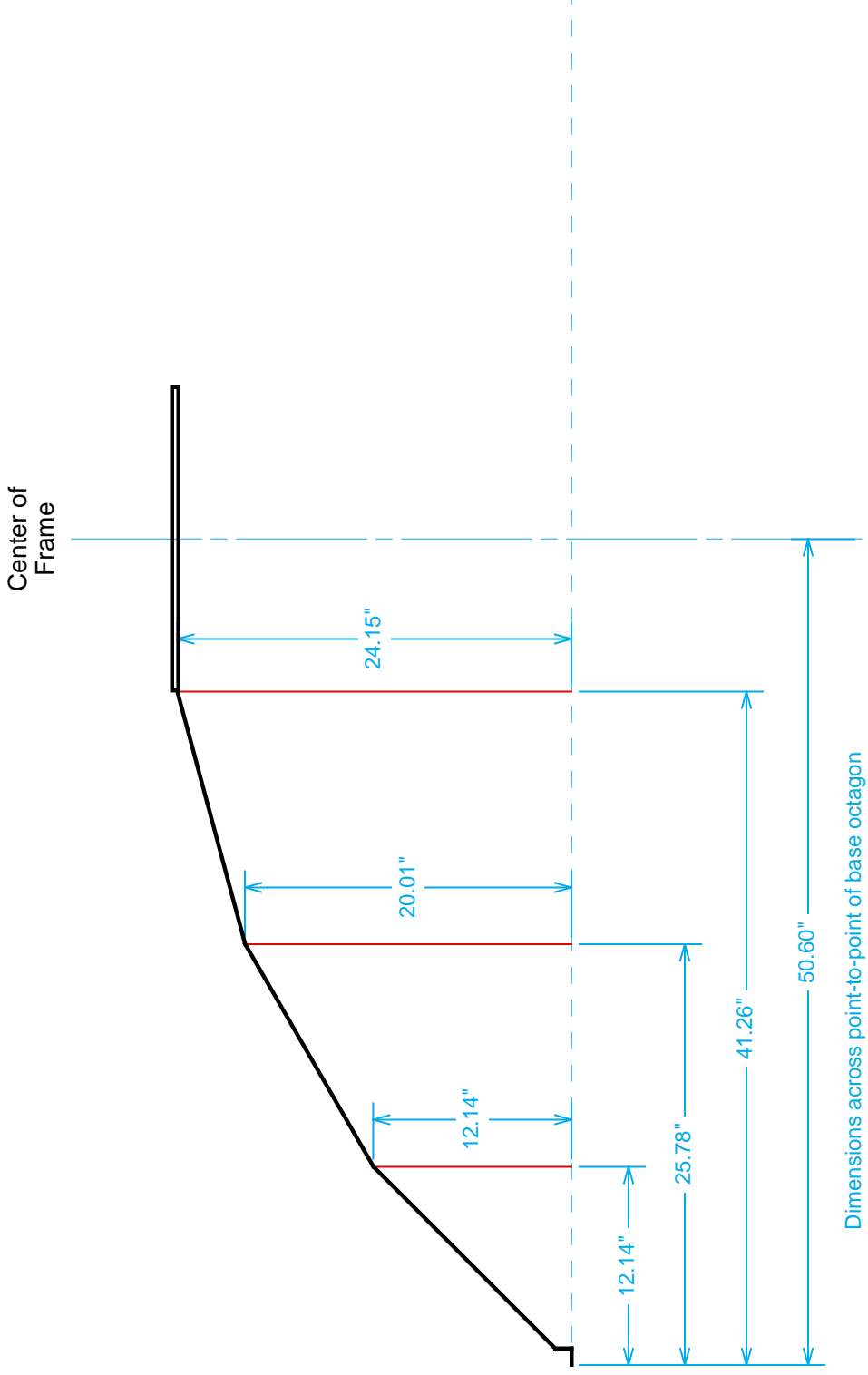


For **8-sided** 93.5" frame Only!

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# Elevations, 8' Dome, along arms. Frame #8856-0 (8-sided, 16-sections)



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

# Sketch of Typical Framing & Sheetrock Sizing for 16-sided frame.

6/9/02

v2.3

ALL DIMENSIONS IN INCHES (NOT TO SCALE)

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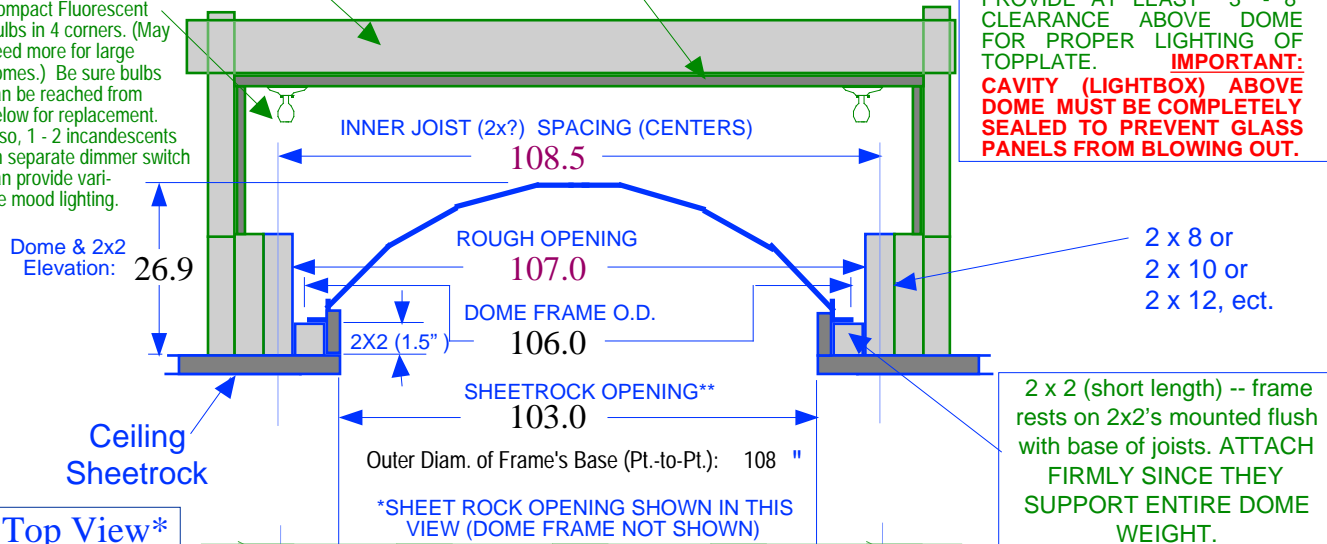
## Elevation

**LIGHTING SUGGESTION:**  
Porcelain sockets with Compact Fluorescent Bulbs in 4 corners. (May need more for large domes.) Be sure bulbs can be reached from below for replacement. Also, 1 - 2 incandescents on separate dimmer switch can provide variable mood lighting.

LIGHTBOX:  
2x4  
FRAMING @  
16" O.C.

INSIDE OF LIGHTBOX IS SEALED WITH SHEETROCK. ROUGH FINISH OK AS LONG AS SEALED FOR CODE. (IF ROOF-MOUNTED SKYLIGHT ABOVE DOME, SHAFT MUST BE SEALED.) SHEETROCK PAINTED FLAT OR REFLECTIVE WHITE.

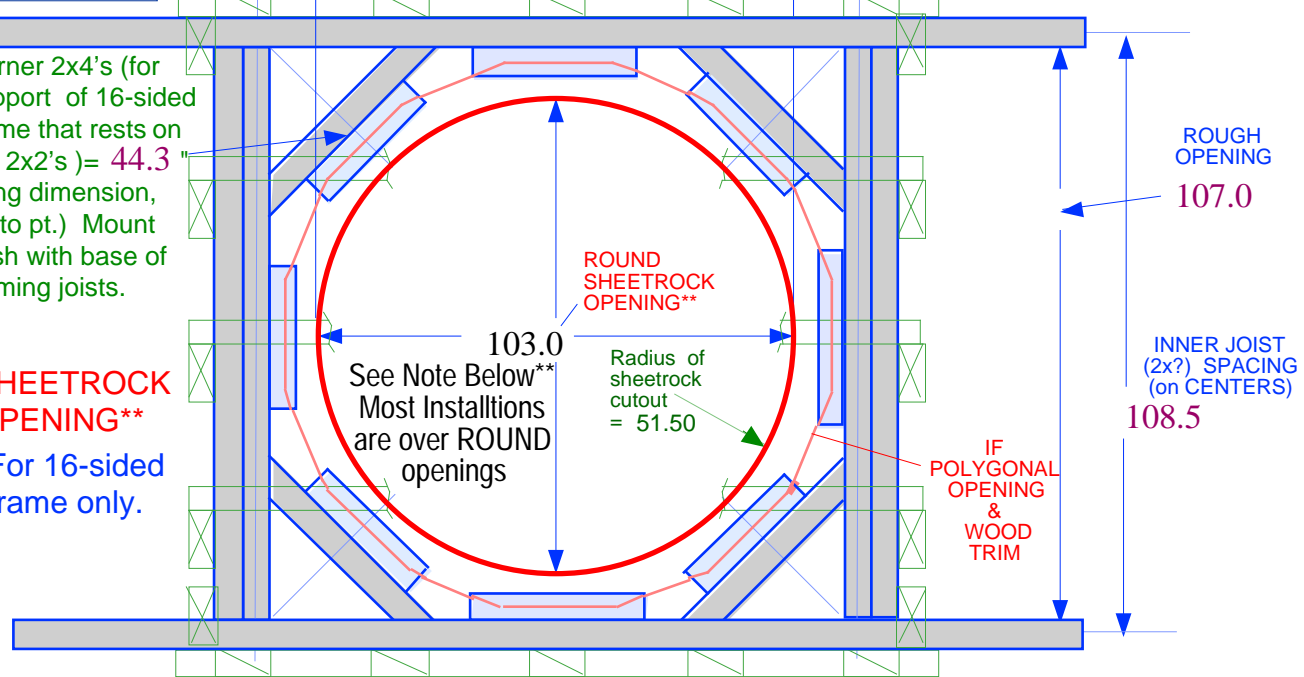
PROVIDE AT LEAST 3" - 8" CLEARANCE ABOVE DOME FOR PROPER LIGHTING OF TOPPLATE. **IMPORTANT: CAVITY (LIGHTBOX) ABOVE DOME MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM BLOWING OUT.**



## Top View\*

Corner 2x4's (for support of 16-sided frame that rests on the 2x2's) = 44.3" (long dimension, pt. to pt.) Mount flush with base of framing joists.

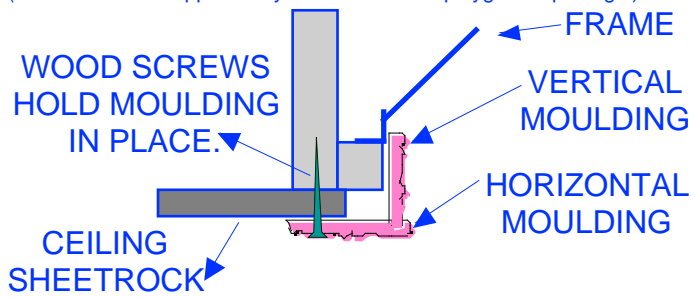
**SHEETROCK OPENING\*\***  
For 16-sided frame only.



\*\*Most 16-sided frames are installed over a CIRCULAR opening. Make diameter of opening 3" less than frame O.D. across paralld sides. Note: When circular opening planned, frame must be installed before sheetrocking circular opening. The vertical sheetrock trim is wet, then bent to shape.

## WOOD TRIM DETAIL

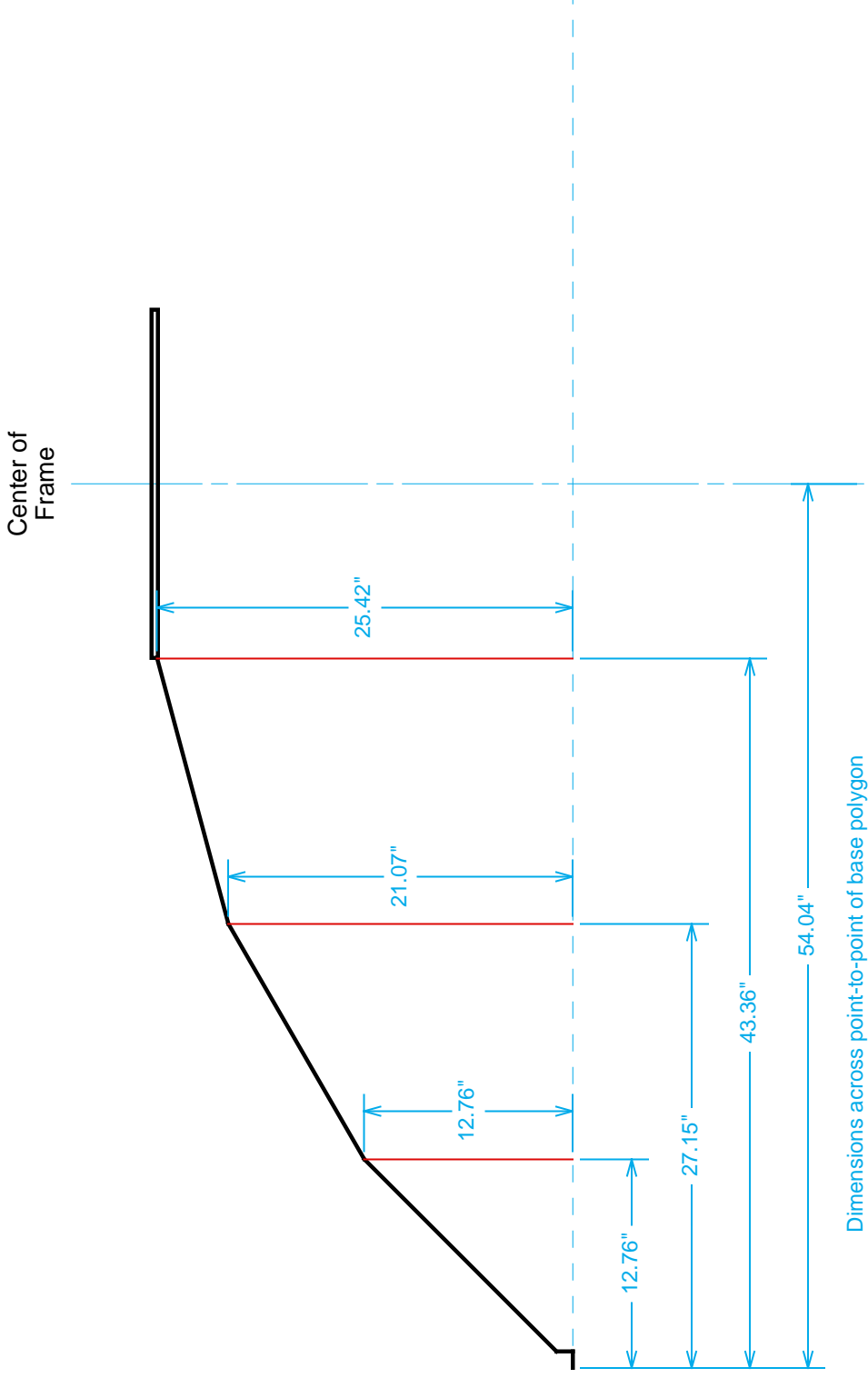
(Wood trim detail applies only to non-standard polygonal openings.)



**For 16-sided frame Only!** 106.0"

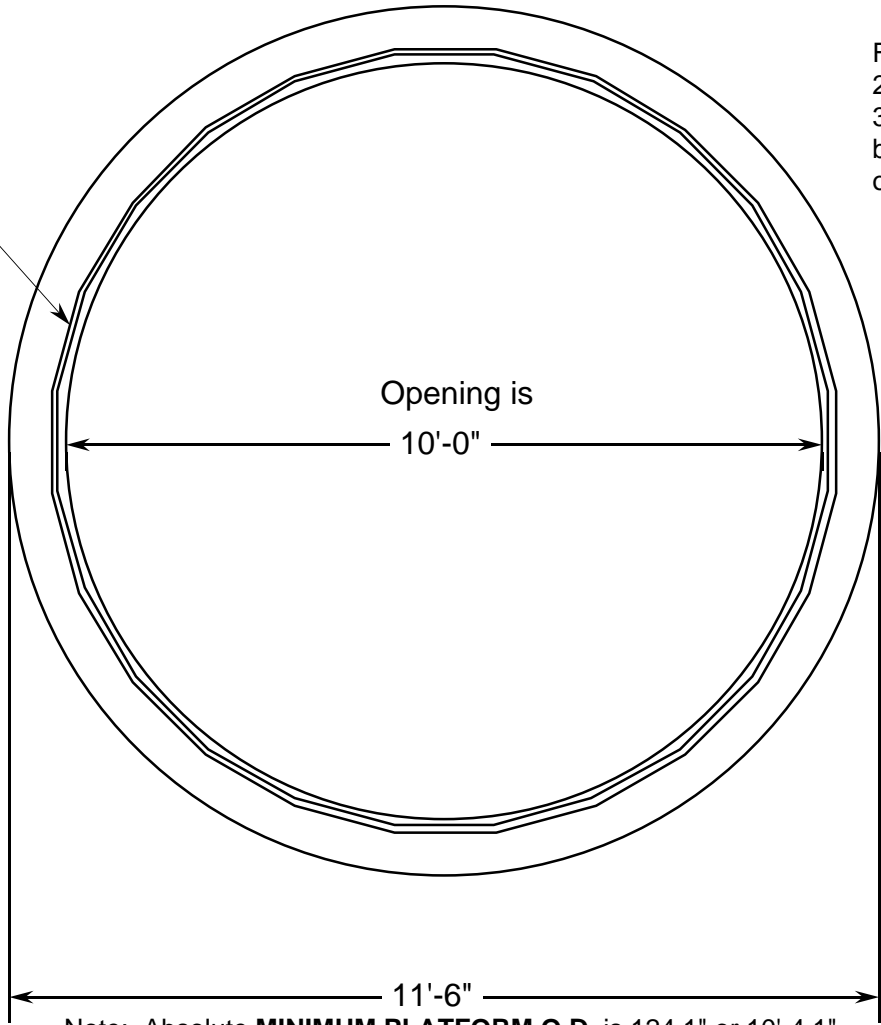
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# Elevations, 9' (106") Dome, along arms. Frame #9653-0 (16-sided)



ALLOW AN EXTRA INCH IN ELEVATIONS FOR TOP SIDE OF T-BAR

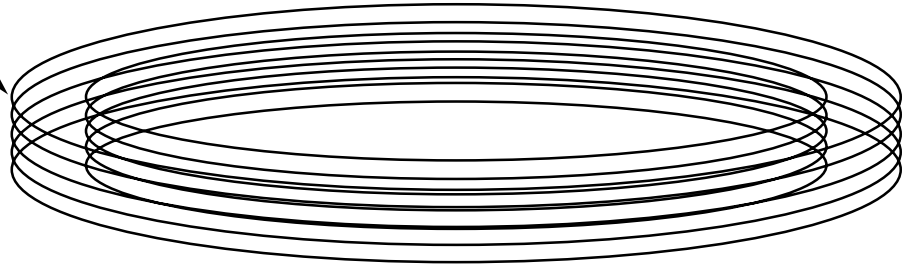
Dome Frame sits atop support "doughnut". Inside dimension of frame is 121".  
(Outer Dimension of frame at base is 123" across parallel sides, 124.1" across points of polygon.)



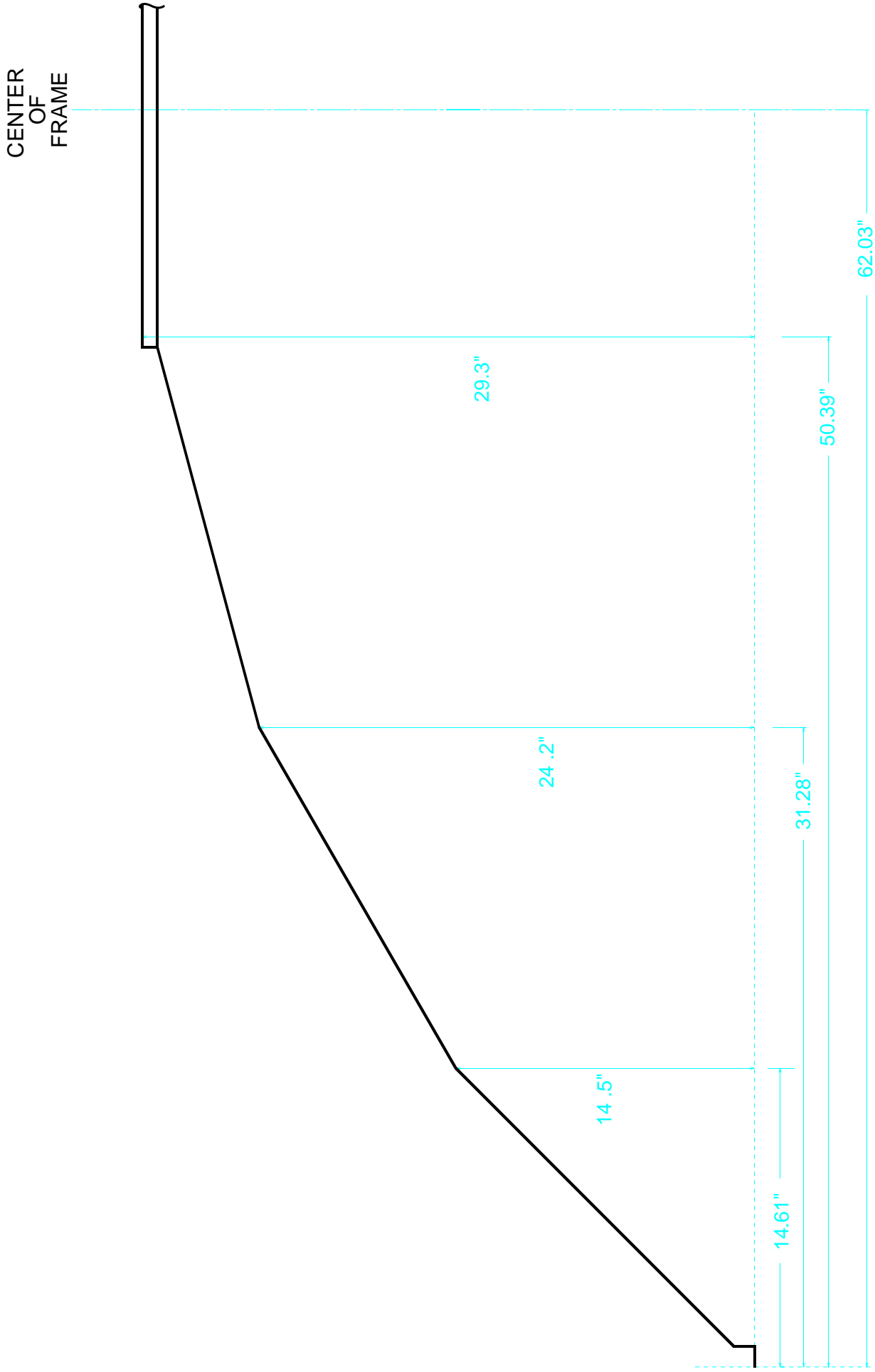
Frame Height is 29"; allow approx. 37" at center for best back-lighting of top center ring.

Note: Absolute **MINIMUM PLATFORM O.D.** is 124.1" or 10'-4.1"

Supporting "donut" typically made from glue-laminated plywood.



Typical support for 10' SupraDome (24-sided) Frame and glass weighs approx. 380 lbs.  
(Entire base of dome frame must be supported on flat surface.)

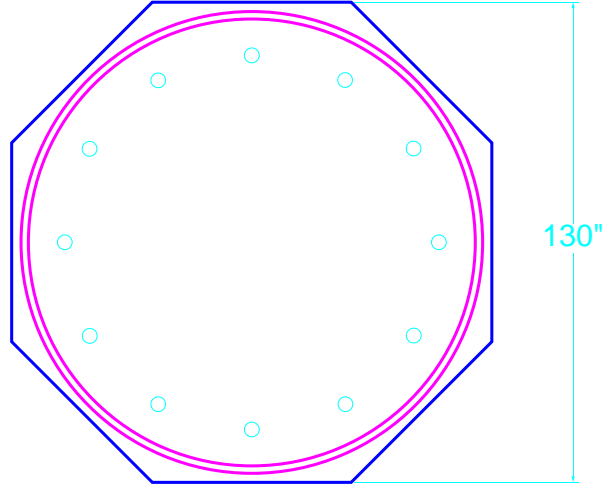
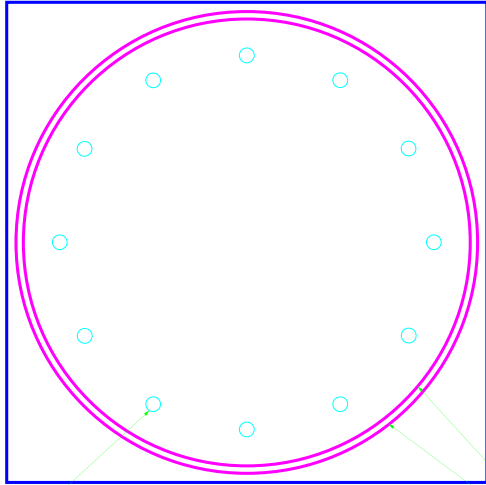


**Elevations, 10' Dome, along arms.  
Frame #10450-0**

FRAME'S BASE RESTS ON PLANE BOUNDED BY TWO CONCENTRIC CIRCLES WITH 124" AND 121" DIAMETERS.

**SOFFIT LAYOUTS FOR 10' DOME  
(SD10/24-SIDED)  
MINIMUM SIZES**

TOP VIEWS



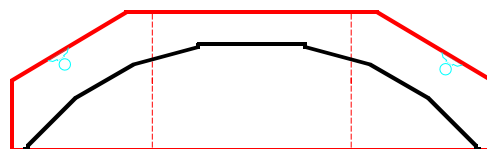
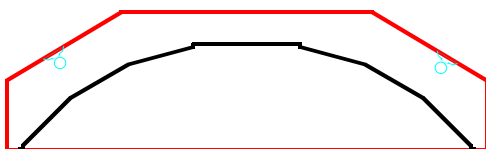
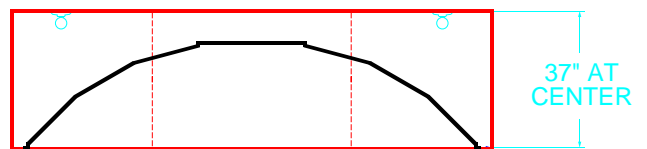
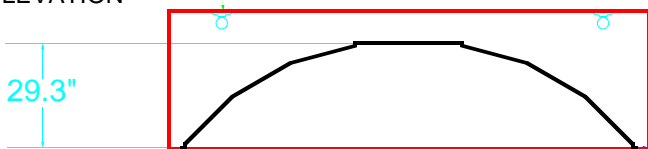
LIGHTING CAN BE ACHIEVED BY 12 TO 16 BULBS SPACED EVENLY AROUND SOFFIT. (BE SURE LIGHT IS NO CLOSER THAN 10" FROM GLASS TO AVOID UNEVEN LIGHTING OF GLASS PANELS.)

FRAME'S BASE RESTS ON PLANE BOUNDED BY TWO CONCENTRIC CIRCLES WITH 124" AND 121" DIAMETERS.

**THESE ARE MINIMUM SOFFIT SIZES  
(ASSUMES LIGHT BULB CHANGING  
DONE FROM BELOW DOME)**

BE SURE LIGHTING IS POSITIONED SUCH THAT BULBS CAN BE EASILY REACHED FROM BELOW FOR CHANGING.

ELEVATION



**CAUTION: SOFFIT MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM LIFTING OUT OF FRAME. INSIDE OF SOFFIT SHOULD BE SEALED WITH SHEETROCK AND TAPED FOR TIGHT SEAL. (ROUGH FINISH IS OK AS LONG AS COMPLETELY SEALED.) IF ROOF-MOUNTED SKYLIGHT IS PLACED ABOVE DOME, SHAFT MUST ALSO BE SEALED. THE SHEETROCK SHOULD BE PAINTED FLAT OR REFLECTIVE WHITE.**

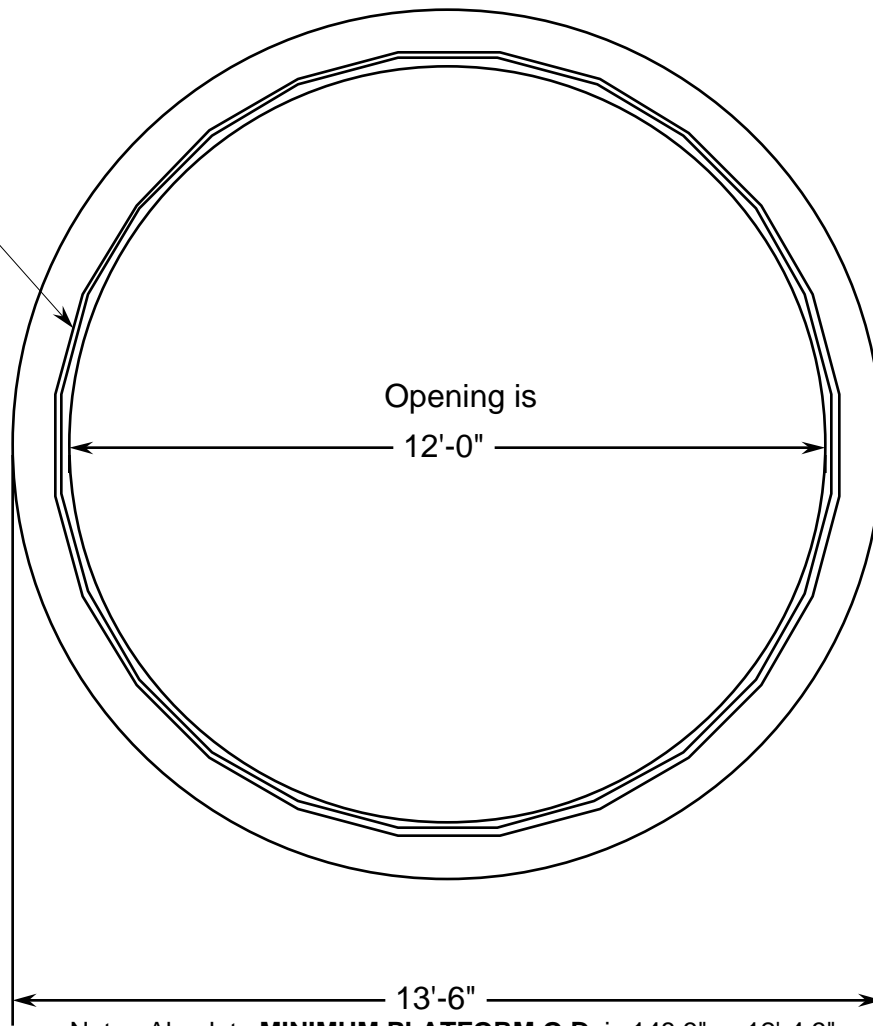
**FAILURE TO OBSERVE THIS CAUTION CAN RESULT IN GLASS PANELS LIFTING OUT OF FRAME AND FALLING. (FOR EXAMPLE, ON A WINDY DAY WHEN A WINDOW OR DOOR IS OPENED TO THE WIND, AIR PRESSURE CAN BLOW OR SUCK OUT GLASS PANELS IF THE AREA ABOVE DOME HAS ANY EXPOSURE TO BUILDING'S EXTERIOR.)**



## 12' SupraDome Installation Guidelines (Frame Series #12400)

This frame is not self-supporting -- each arm requires a 1/16" - 5/64" cable supported from structure.

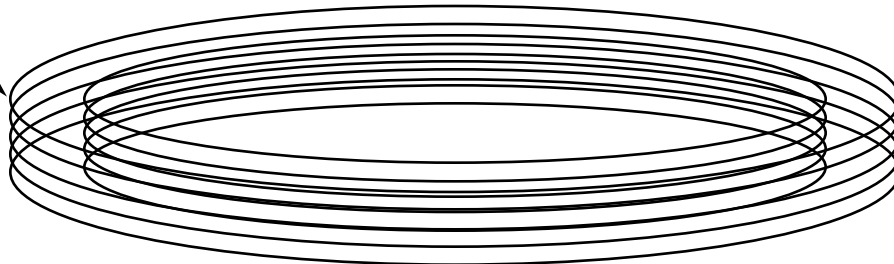
Dome Frame sits atop support "doughnut". Inside dimension of frame is 145".  
(Outer Dimension of frame at base is 147" across parallel sides, 148.3" across points of polygon.)



Frame Height is 36.5"; allow approx. 48" at center for best back-lighting of top center ring.

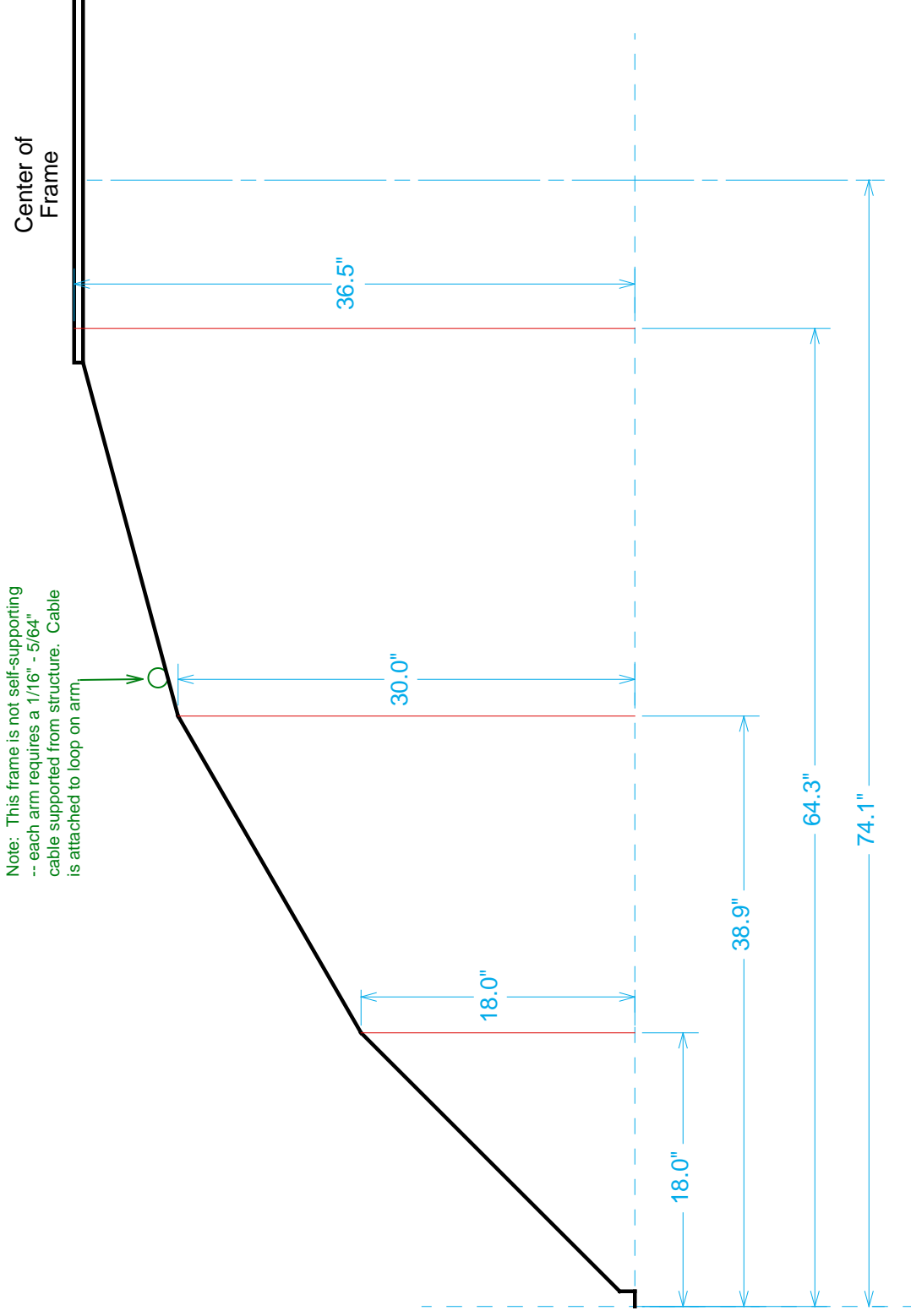
Note: Absolute **MINIMUM PLATFORM O.D.** is 148.3" or 12'-4.3"

Supporting "donut" typically made from glue-laminated plywood.



Typical support for 12' SupraDome (24-sided) Frame and glass weighs approx. 565 lbs.  
(Entire base of dome frame must be supported on flat surface.)

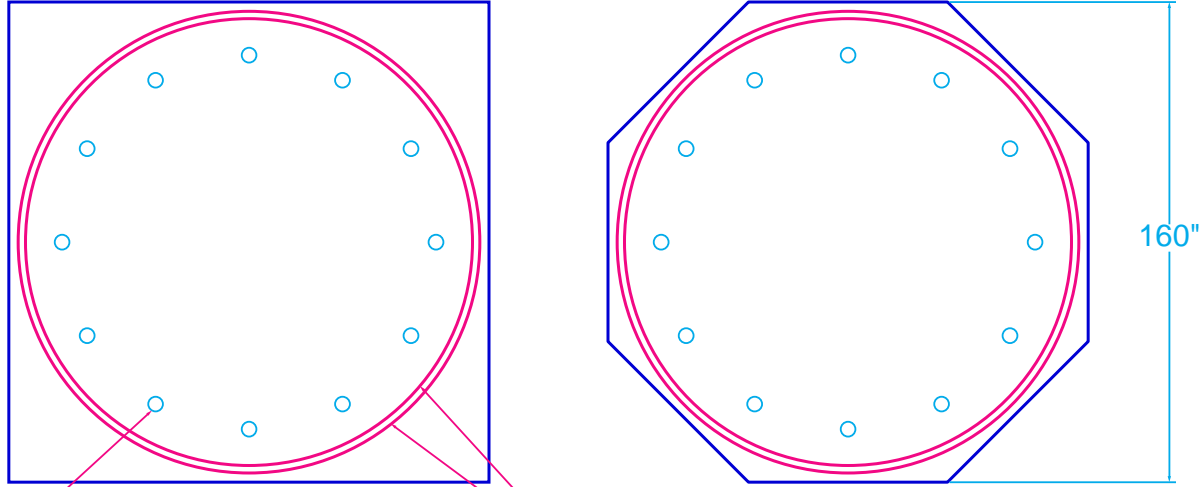
# Elevations, 12' Dome, along arms. Frame #12450-0



FRAME'S BASE RESTS ON PLANE BOUNDED BY TWO CONCENTRIC CIRCLES WITH 149" AND 145" DIAMETERS.

**SOFFIT LAYOUTS FOR 12' DOME  
(Frame Series #12400 (24-SIDED))  
MINIMUM SIZES**

TOP VIEWS



LIGHTING CAN BE ACHIEVED BY 12 TO 24 BULBS SPACED EVENLY AROUND SOFFIT. (BE SURE LIGHT IS NO CLOSER THAN 10" FROM GLASS TO AVOID UNEVEN LIGHTING OF GLASS PANELS.)

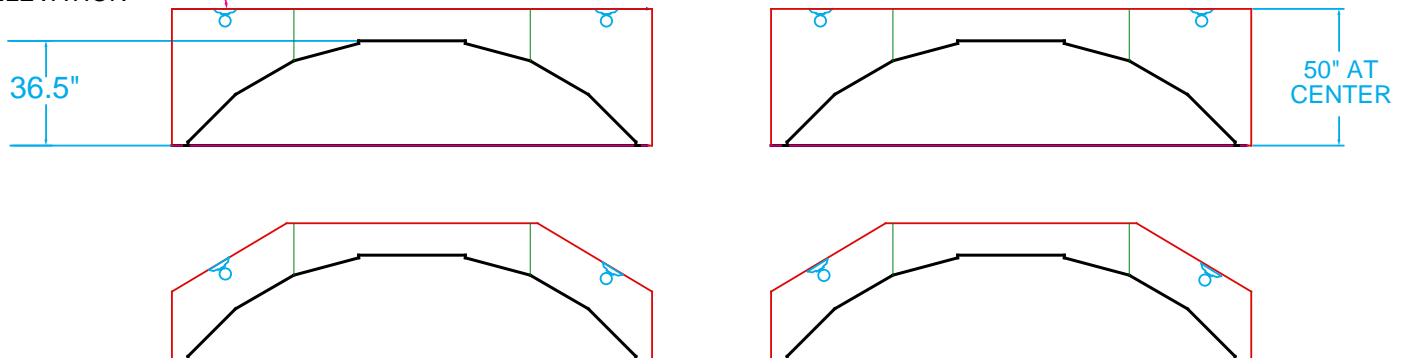
FRAME'S BASE RESTS ON PLANE BOUNDED BY TWO CONCENTRIC CIRCLES WITH 149" AND 145" DIAMETERS.

**THESE ARE MINIMUM SOFFIT SIZES  
(ASSUMES LIGHT BULB CHANGING  
DONE FROM BELOW DOME)**

Note: This frame is not self-supporting -- each arm requires a 1/16" - 5/64" cable supported from structure. Cable is attached to loop on arm.

BE SURE LIGHTING IS POSITIONED SUCH THAT BULBS CAN BE EASILY REACHED FROM BELOW FOR CHANGING.

ELEVATION



CAUTION: SOFFIT MUST BE COMPLETELY SEALED TO PREVENT GLASS PANELS FROM LIFTING OUT OF FRAME. INSIDE OF SOFFIT SHOULD BE SEALED WITH SHEETROCK AND TAPED FOR TIGHT SEAL. (ROUGH FINISH IS OK AS LONG AS COMPLETELY SEALED.) IF ROOF-MOUNTED SKYLIGHT (non-opening type) IS PLACED ABOVE DOME, SHAFT MUST ALSO BE SEALED. THE SHEETROCK SHOULD BE PAINTED FLAT OR REFLECTIVE WHITE.

FAILURE TO OBSERVE THIS CAUTION CAN RESULT IN GLASS PANELS LIFTING OUT OF FRAME AND FALLING. (FOR EXAMPLE, ON A WINDY DAY WHEN A WINDOW OR DOOR IS OPENED TO THE WIND, AIR PRESSURE CAN BLOW OR SUCK OUT GLASS PANELS IF THE AREA ABOVE DOME HAS ANY EXPOSURE TO BUILDING'S EXTERIOR.)