



MONOLITHIC DOME INSTITUTE
177 DOME PARK PLACE
ITALY, TEXAS 76651
972-483-7423

10-24

CLIENT INFORMATION:
MONOLITHIC DOME INSTITUTE
177 DOME PARK PLACE
ITALY, TEXAS 76651

DATE:
14 JULY 2007

DRAWN BY:
JC

REVIEWED BY:
JLB

SCALE:
NTS

COVER

PROJECT:
0000
PAGE:
1



10-24



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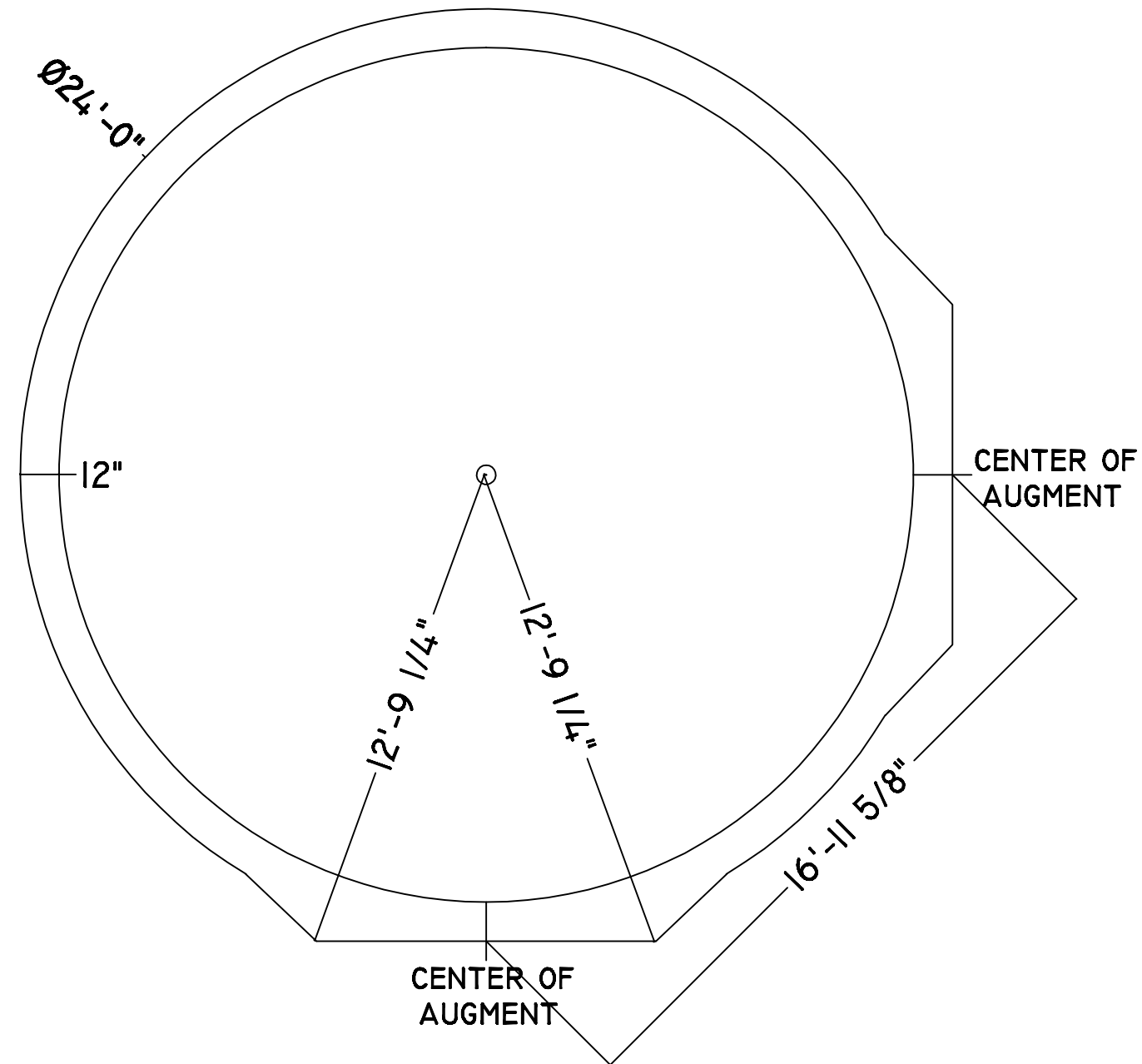
REVIEWED BY:
JLB

SCALE:
1/4" = 1'

FOUNDATION
PLAN

PROJECT:
0000

PAGE:
2





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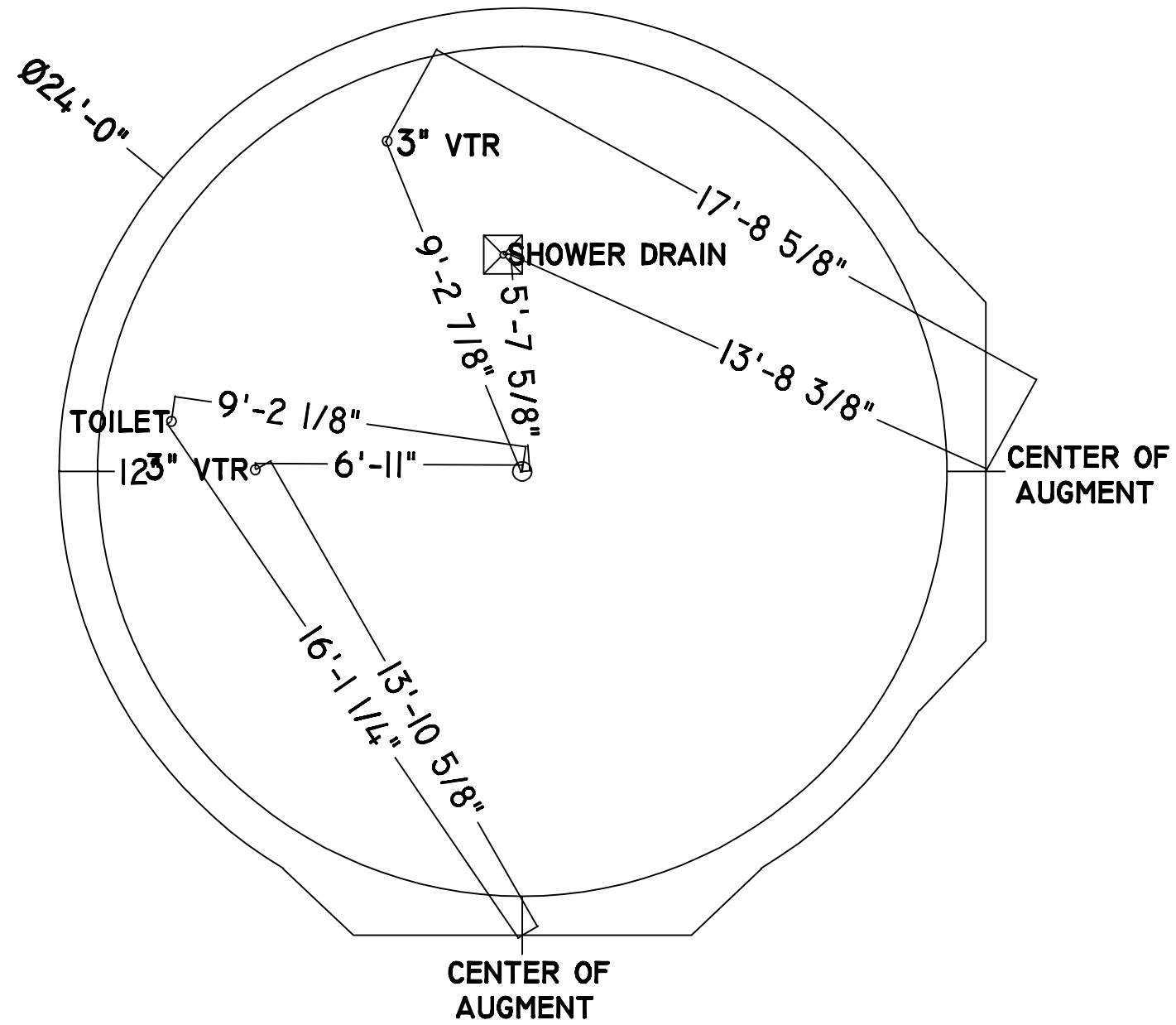
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SCALE:
 1/4" = 1'

ROUGH
 PLUMBING
 LAYOUT

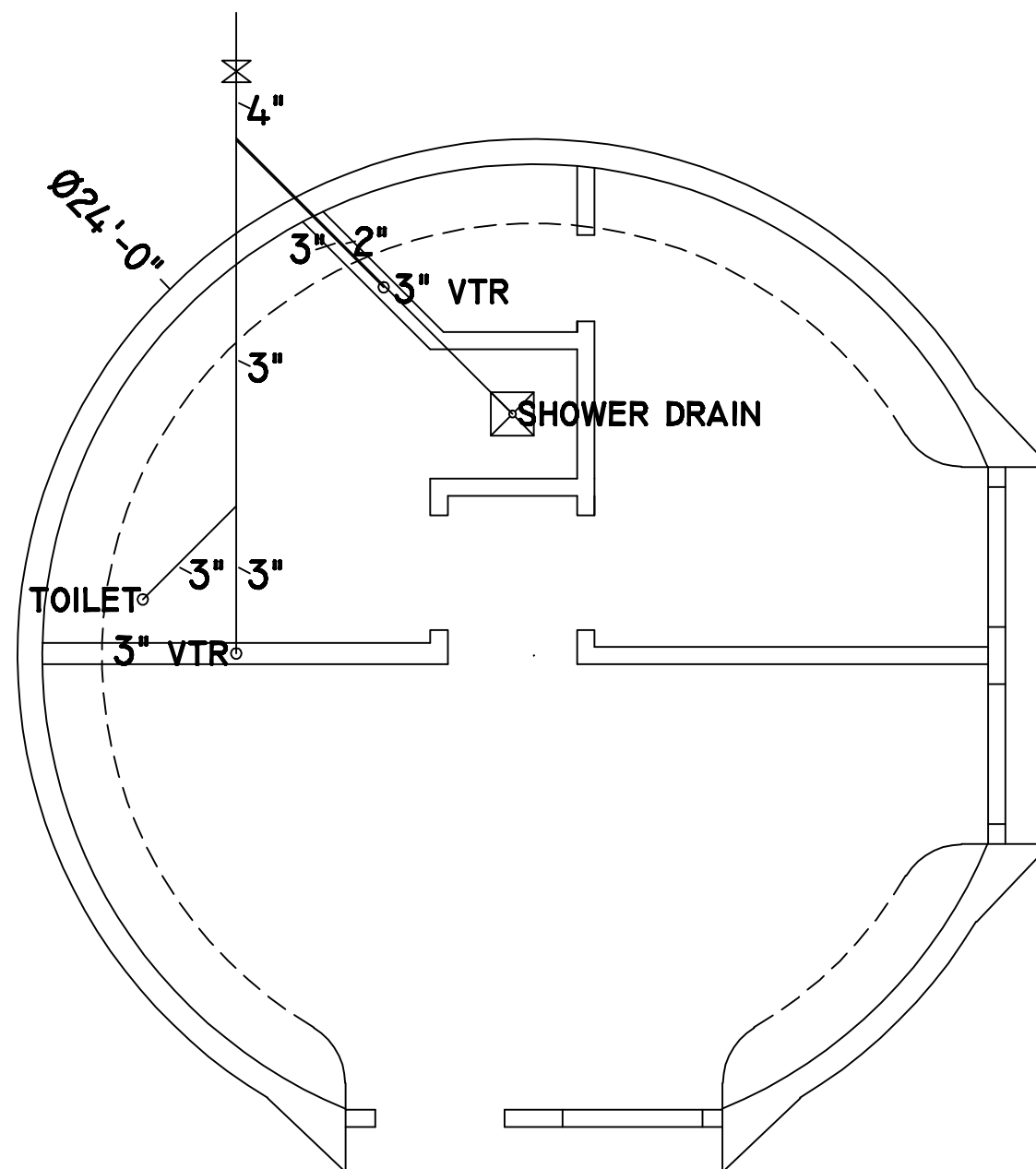
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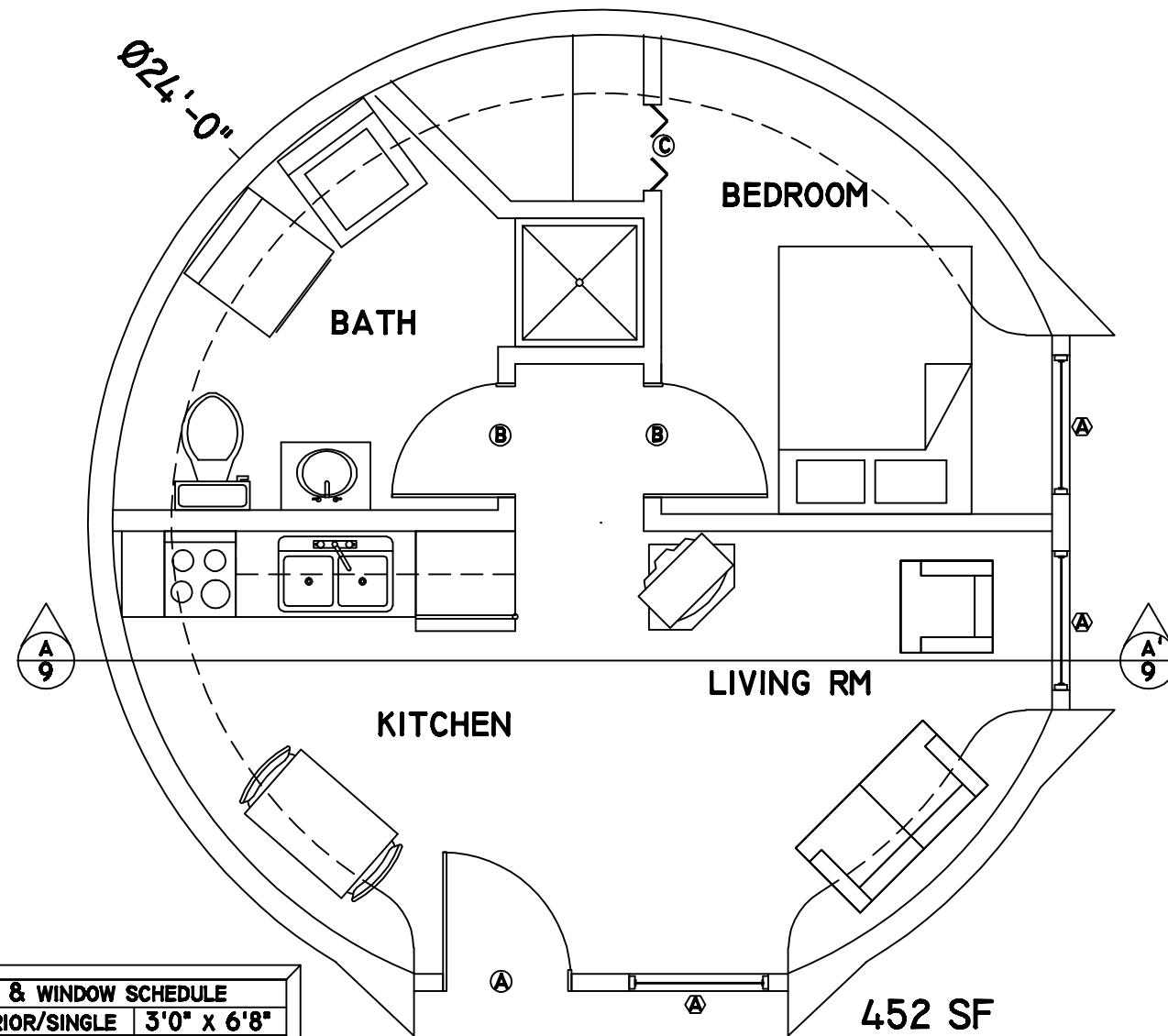
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FLOOR PLAN

PROJECT:
 0000

PAGE:
 5



DOOR & WINDOW SCHEDULE		
Ⓐ	EXTERIOR/SINGLE	3'0" x 6'8"
Ⓑ	INTERIOR/SINGLE	2'8" x 6'8"
Ⓒ	INTERIOR/BIFOLD	2'0" x 6'8"
Ⓓ	INTERIOR/BIFOLD	3'0" x 5'0"



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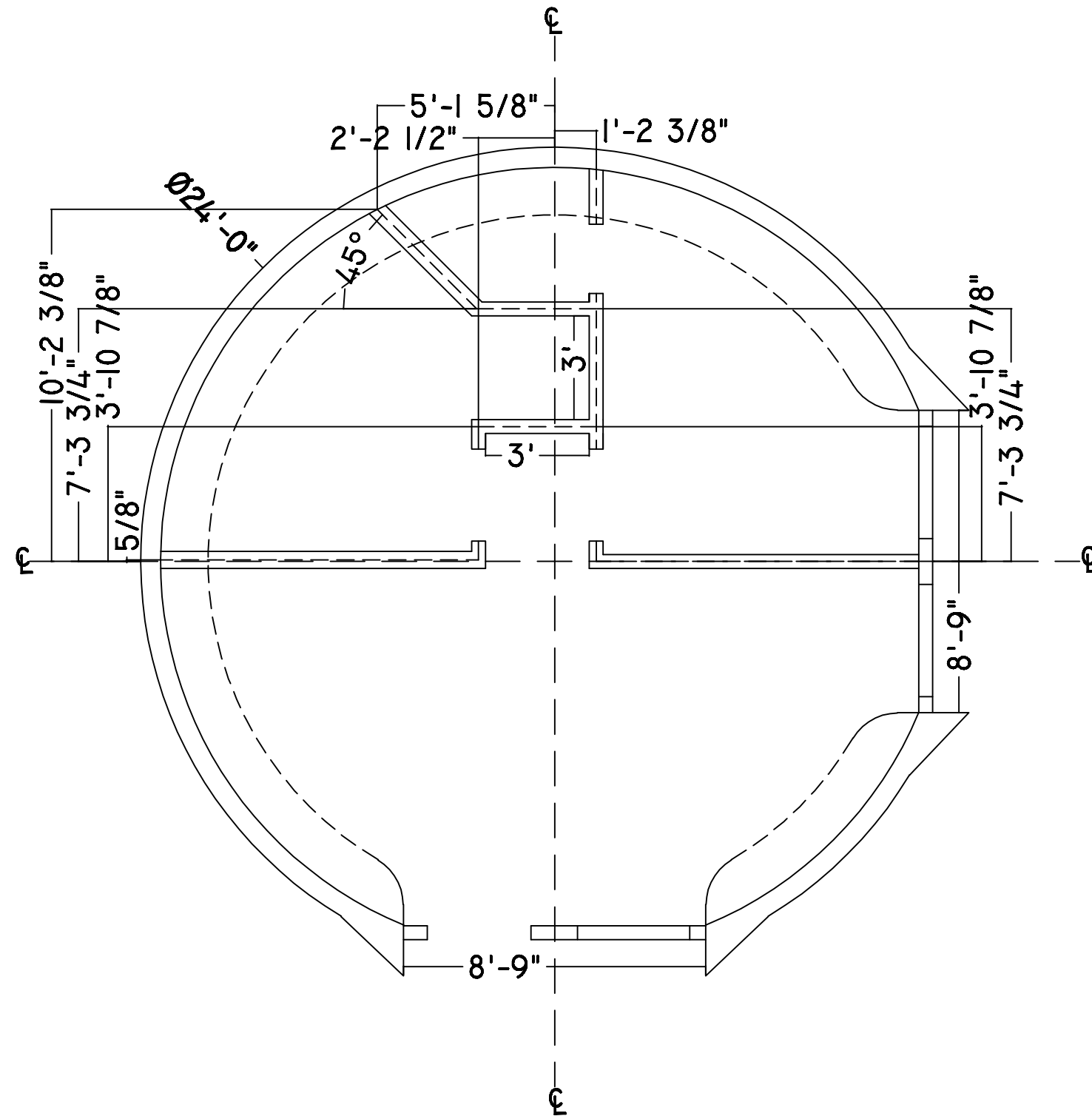
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SCALE:
1/4" = 1'

DIMENSION
PLAN

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0000

PAGE:
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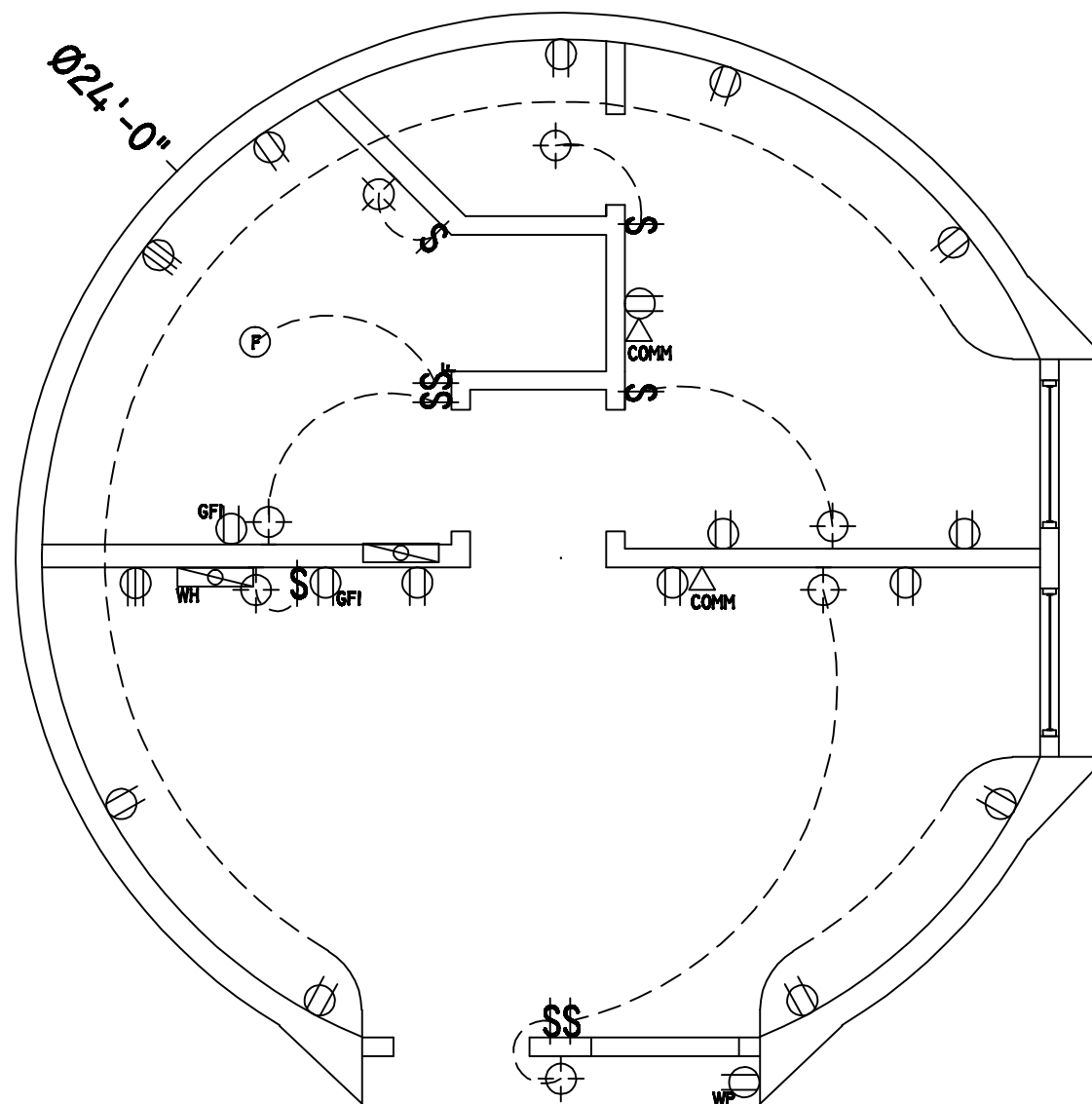
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SCALE:
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









ELECTRICAL
 PLAN

PROJECT:
 0000

PAGE:
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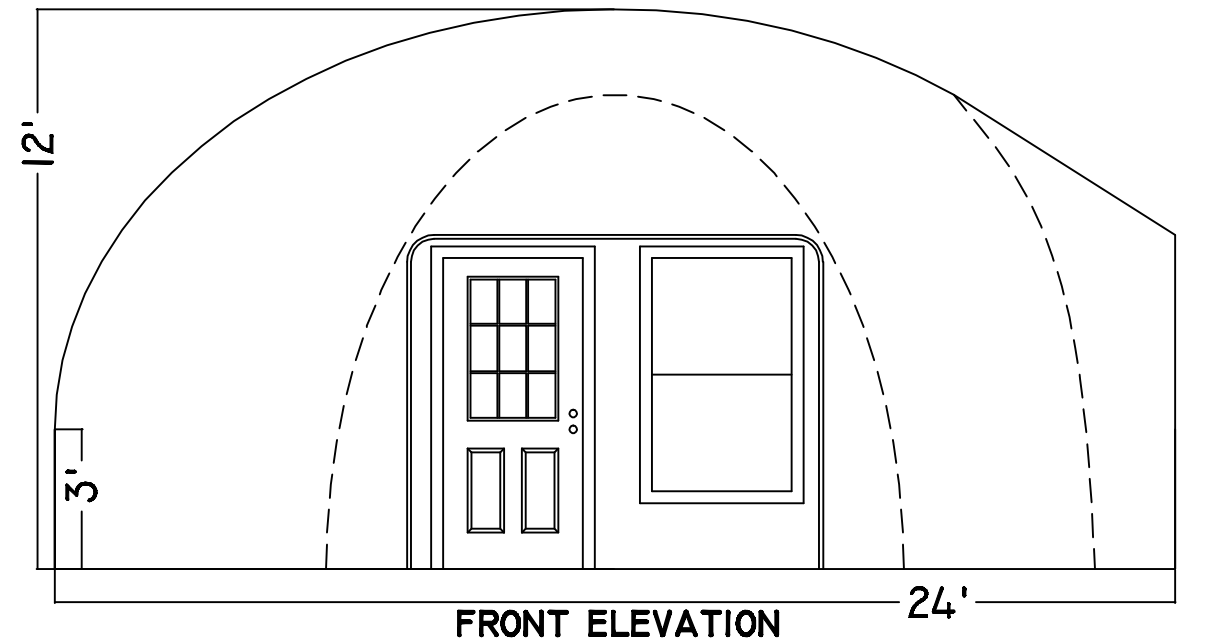


SYMBOLS

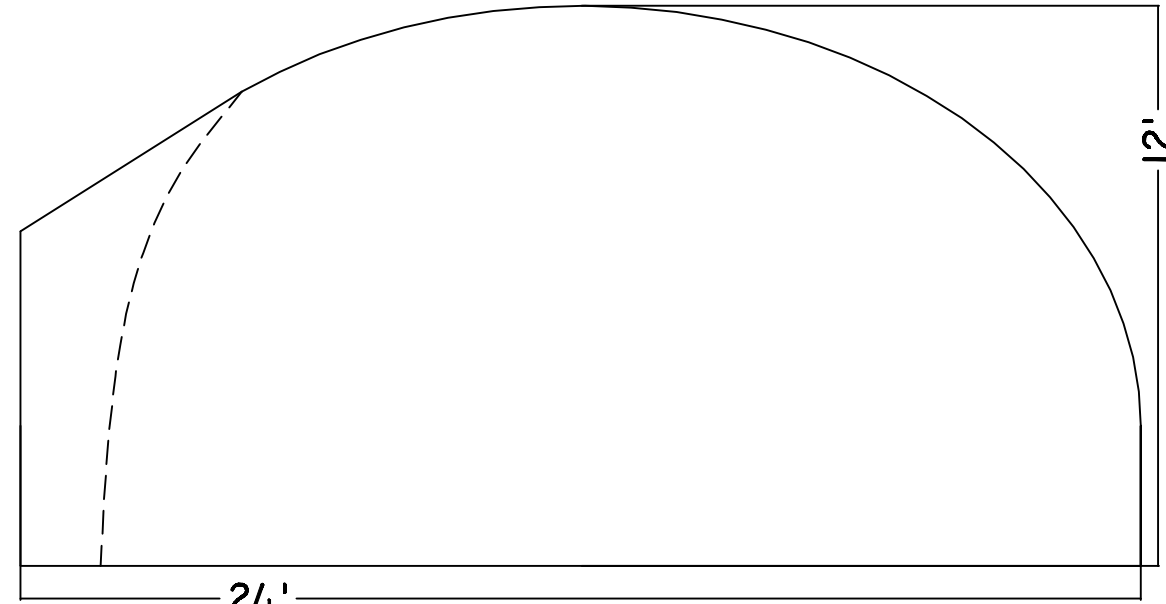
-  COMMUNICATIONS OUTLET
-  CEILING LIGHT
-  WALL LIGHT
-  BATH FAN
-  LIGHT SWITCH
-  FAN SWITCH
-  220 V OUTLET
-  120 V DUPLEX OUTLET
-  GROUND FAULT INTERRUPT OUTLET
-  WEATHER PROOF OUTLET
-  ELECTRICAL PANEL
-  ON DEMAND WATER HEATER



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FRONT ELEVATION



REAR ELEVATION

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ELEVATIONS

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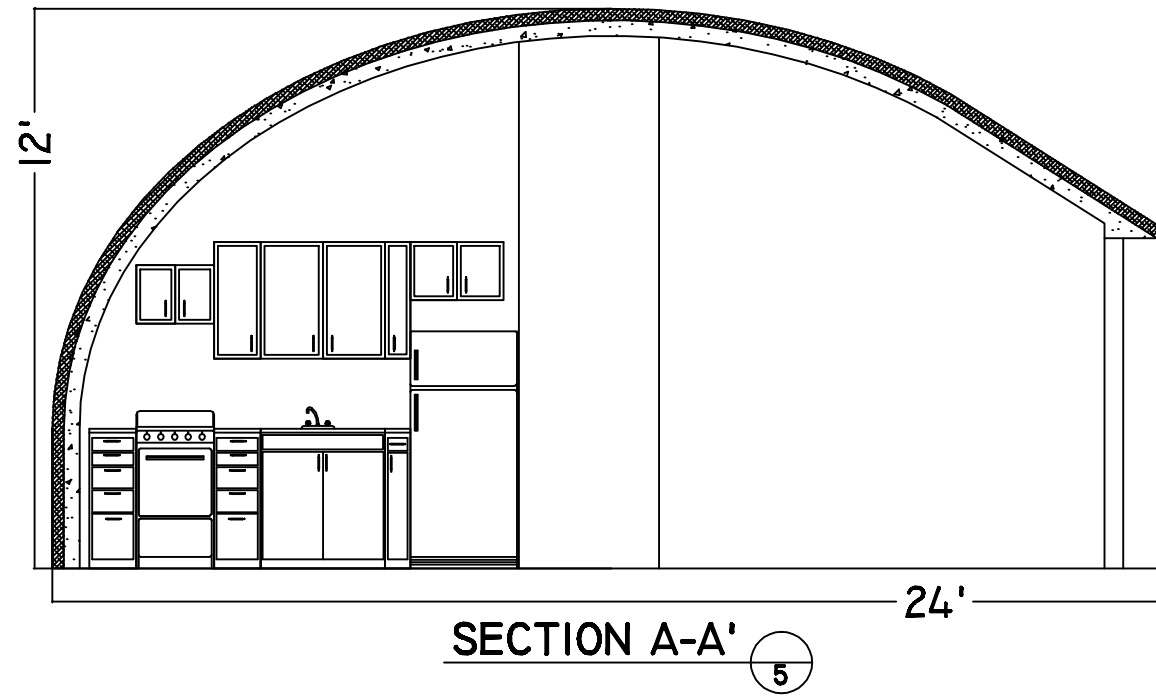
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SCALE:
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SECTION A-A'

PROJECT:
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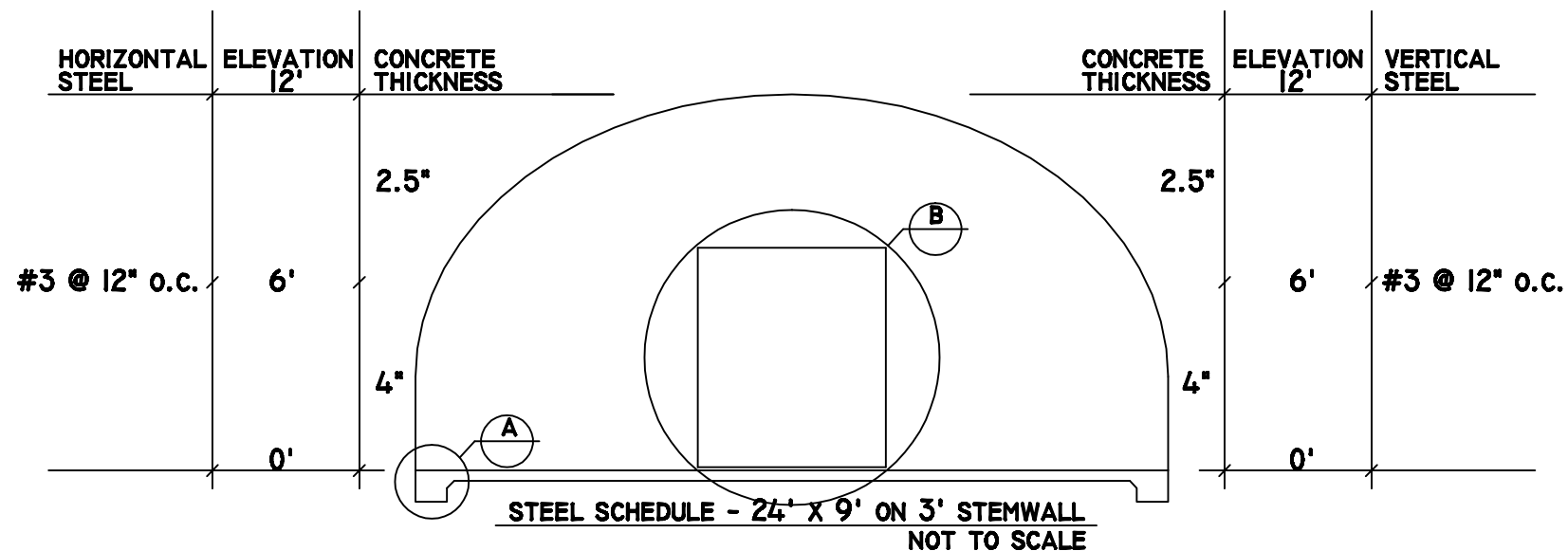
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SCALE:
NTS

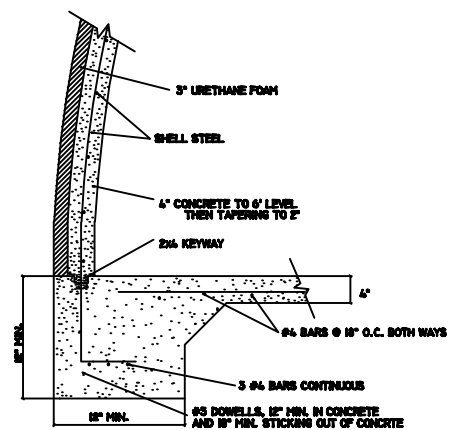
ENGINEERING

PROJECT:
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PAGE:
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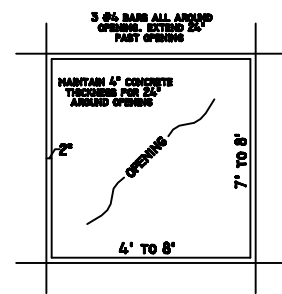


NOTES:

1. SHELL CONCRETE: F'c = 4ksi, AIR ENTRAINED 5-7%.
2. FOOTING CONCRETE: F'c = 3ksi.
3. STEEL: REINFORCING OF GRADE 60. Fy = 60ksi.
4. ADD 2 #4 REBAR AROUND 4' DIA. OR SMALLER SKYLIGHTS OR OPENINGS.
5. DESIGN LOADS: DEAD LOAD OF CONCRETE SHELL PLUS 10PSF FOAM & AIRFORM. PLUS SNOW LOAD OF 70PSF. WIND LOAD 50PSF.
6. LAP REBAR FOR TENSION SPLICE IN SHELL. CLASS B ACI 318-85. #8...47", #6...28", #5...23", #4 & #3...18". IF MORE THAN 50% OF SPLICES OCCUR WITH IN THE LAP SLICE LENGTH THEN INCREASE LAP BY 1.7 TIMES.
7. LAP REBAR FOR TENSION SPLICE IN FOOTINGS. CLASS B ACI 318-85. #8...36", #6...24", #5...18", #4 & #3...12". IF MORE THAN 50% OF SPLICES OCCUR WITH IN THE LAP SLICE LENGTH THEN INCREASE LAP BY 1.7 TIMES.
8. PROVIDE TAPERED 2" x 4" NOMINAL KEYWAY BETWEEN SHELL & FOOTING. MAY BE DONE MANUALLY BY REMOVING SOME MATERIAL & TAMPING A KEYWAY. KEYWAY MAY BE INSIDE OF VERTICAL REBAR.
9. SPACING OF REBAR: CLEAR DISTANCE BETWEEN PARALLEL BARS IN ONE LAYER SHALL NOT BE LESS THAN BAR DIAMETER NOR 1".
10. STRUCTURE MEETS OR EXCEEDS REQUIREMENTS FOR SIESMIC ZONE 2A.



DETAIL-FOOTING
NOT TO SCALE (A)



REBAR SCHEDULE AROUND OPENING
NOT TO SCALE (B)