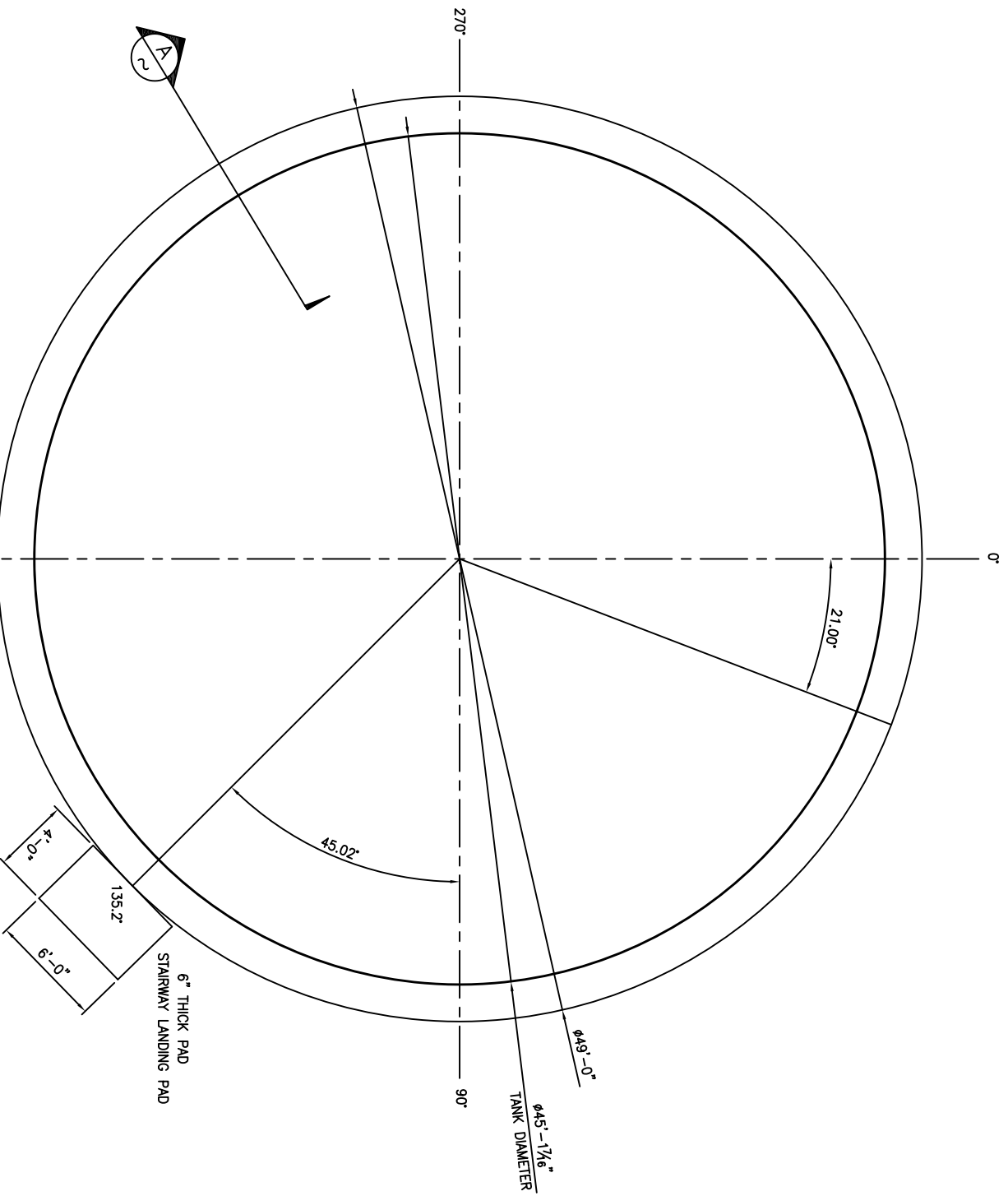
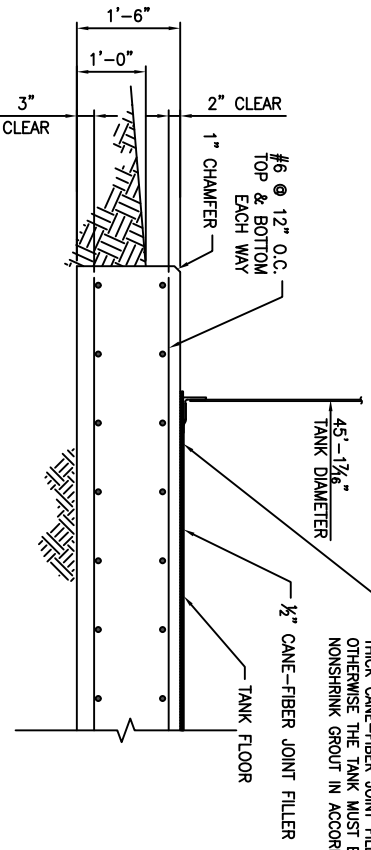


FOUNDATION FOR 45.12' DIAMETER x 24.08' TALL



TANK FOUNDATION PLAN
1/4" = 1'-0"



FOUNDATION SECTION
3/4" = 1'-0"

IF THE FOUNDATION UNDER THE SHELL MEETS THE TOLERANCES OF AWWA D103-19STD SECTION 13.6.1, THE SHELL MAY BE SUPPORTED WITH 1/2-IN. THICK CANE-FIBER JOINT FILLER MEETING THE REQUIREMENTS OF ASTM D1751, OTHERWISE THE TANK MUST BE SUPPORTED ON A MINIMUM OF HIGH-STRENGTH NONSHRINK GROUT IN ACCORDANCE WITH SECTION 13.4.2.

- DESIGN NOTES:**
- FOUNDATION DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE: ACI 318-19; AWWA D103-19 USED TO DETERMINE WIND AND SEISMIC LOADS FOR FOUNDATION DESIGN.
 - DESIGN LOADS:
 DESIGN SPECIFIC GRAVITY = 1.0
 LIVE LOAD = 30 PSF
 SNOW LOAD = 30 PSF
 WIND: 150 MPH, EXPOSURE C
 SEISMIC: $S_s=0.842$, $S_1=0.25$, SITE CLASS D, RISK CATEGORY IV, $I = 1.5$
 - ALLOWABLE SOIL BEARING PRESSURE = 2,000 PSF (PER UFG)

- GENERAL CONDITIONS:**
- ALL WORK SHALL COMPLY WITH THE 2021 INTERNATIONAL BUILDING CODE AND ANY APPLICABLE LOCAL REGULATIONS.
 - WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.
 - CONTRACTOR IS RESPONSIBLE TO REVIEW THE PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL DAMAGES WHICH MAY BE DUE TO HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
 - THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

- SITE WORK:**
- ALL TOP SOIL TO BE REMOVED FROM SITE.
 - SITE MUST BE PREPARED TO ACHIEVE THE ALLOWABLE SOIL BEARING PRESSURE USED FOR DESIGN. OVER EXCAVATE AND BACK FILL AS REQUIRED BY THE GEOTECHNICAL ENGINEER. FOUNDATION BEARING GRADES MUST BE OBSERVED AND EVALUATED BY THE GEOTECHNICAL ENGINEER TO DETERMINE IF THE SUBGRADE CONDITIONS BENEATH THE FOUNDATION ARE ADEQUATE TO ACHIEVE THE ALLOWABLE SOIL BEARING PRESSURE USED FOR DESIGN.

- CONCRETE:**
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 LATEST EDITION, STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, DETROIT, MICHIGAN, EXCEPT AS MODIFIED BELOW:
 EXPOSURE CLASS = F2, SO, PO, C1
 MINIMUM $f'_c = 4,500$ PSI
 MAXIMUM WATER/CEMENT RATIO = 0.45
 MAXIMUM AGGREGATE SIZE = 1"
 GRADE 60 REINFORCING STEEL
 - MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
 - LAP ALL CONTINUOUS BARS 40 X DIA.
 - ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATOR. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE WITHIN FORMS.
 - SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE.



Designed By:	Drawn By:	Checked By:	Job Number:	Delivery Date:
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FOUNDATION FOR 45.12' DIA. x 24.08' TALL TANK				
ISSUED FOR APPROVAL				
No.	DATE	BY	DESCRIPTION	
REVISIONS				

SCALE:	
NOTED	
Sheet Number:	1