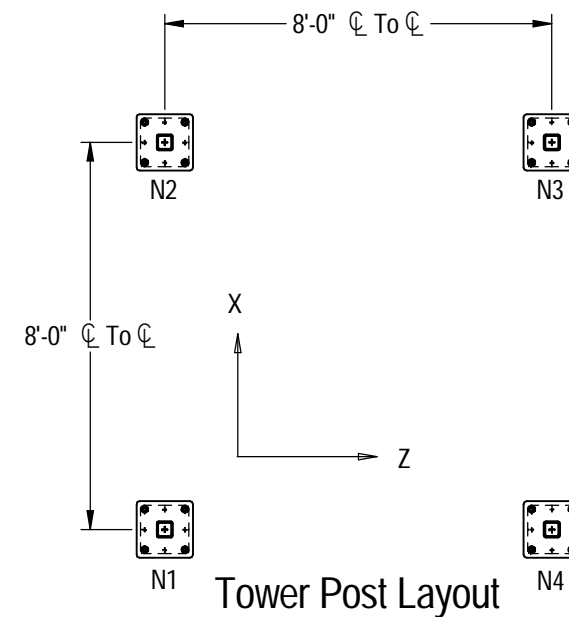


REACTIONS				
LC	Joint Label	X (Kips)	Y (Kips)	Z (Kips)
1	N1	0	2	0
1	N2	0	2	0
1	N3	0	2	0
1	N4	0	2	0
2	N1	-3	-28	0
2	N2	-3	29	3
2	N3	-3	29	-3
2	N4	-3	-28	0
3	N1	-4	-42	-5
3	N2	4	-37	-3
3	N3	-4	37	-3
3	N4	4	42	-5
4	N1	0	4	0
4	N2	0	5	0
4	N3	0	5	0
4	N4	0	4	0
5	N1	0	4	0
5	N2	0	5	0
5	N3	0	5	0
5	N4	0	4	0
6	N1	0	4	0
6	N2	0	5	0
6	N3	0	5	0
6	N4	0	4	0
7	N1	-1	-12	0
7	N2	-1	12	1
7	N3	-1	12	-1
7	N4	-1	-12	0
8	N1	-1	-14	-1
8	N2	1	-12	-1
8	N3	-1	12	-1
8	N4	1	14	-1

LC (Load Case)	
1	Dead Load
2	Wind X
3	Wind Z
4*	Snow Load
5*	Live Load
6	Ice Weight
7	Wind On Ice X
8	Wind On Ice Z

* Only applicable on towers that include stairs, conveyor or catwalk, supports



Design Criteria

Wind
 Speed 105 MPH for Risk Category 1
 Exposure C
 Topographic Factor (Kzt) 1.0
 Gust Effect Factor (G) 0.85

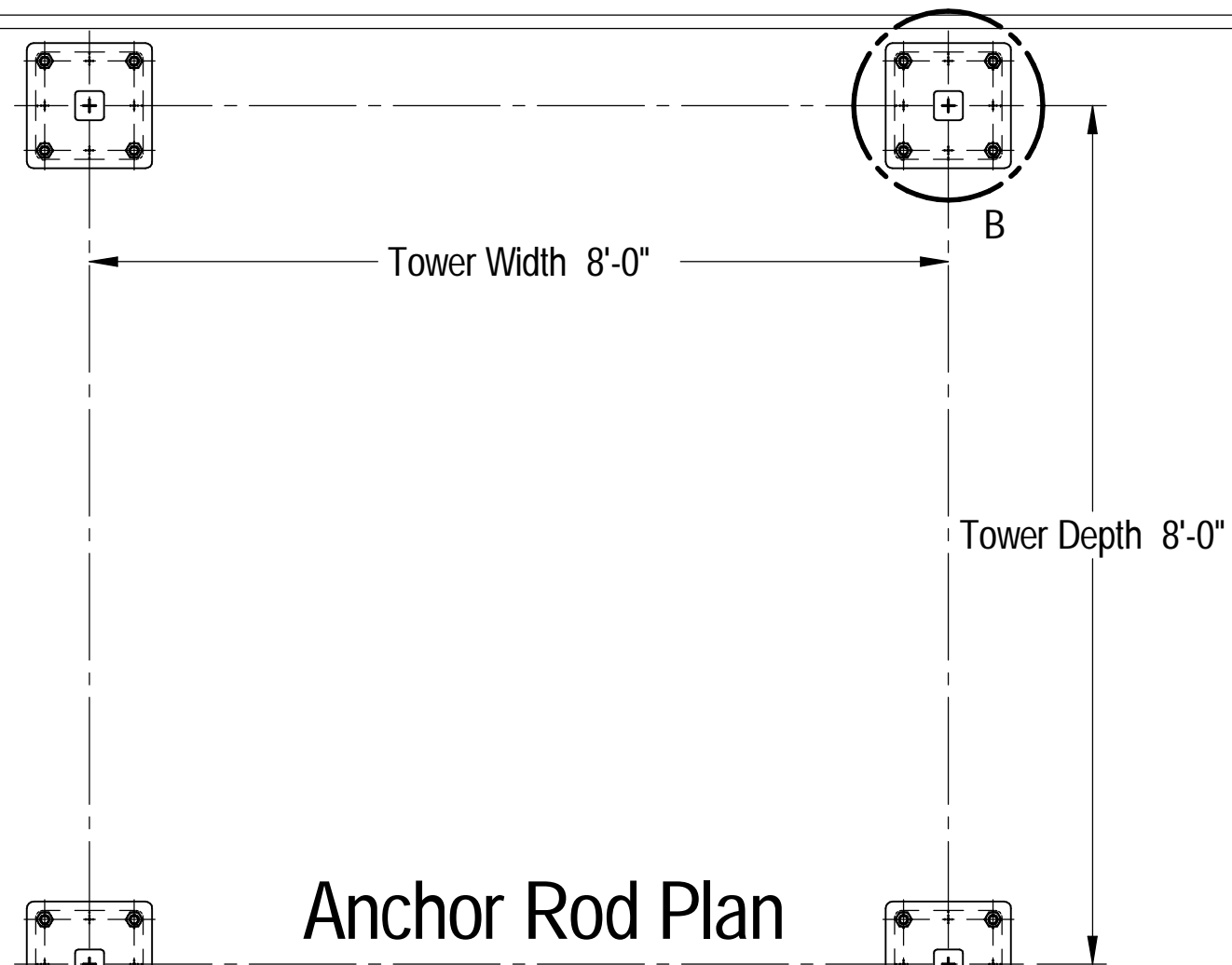
Snow
 Ground Snow Load (Pg) 40 PSF
 Importance Factor (I) 0.8
 Thermal Factor (Ct) 1.2
 Exposure Factor (Ce) 1.0
 Design Snow Load (Pf) 26.9 PSF

Ice
 Design Ice Thickness (td) 1"
 Wind on Ice 40 MPH

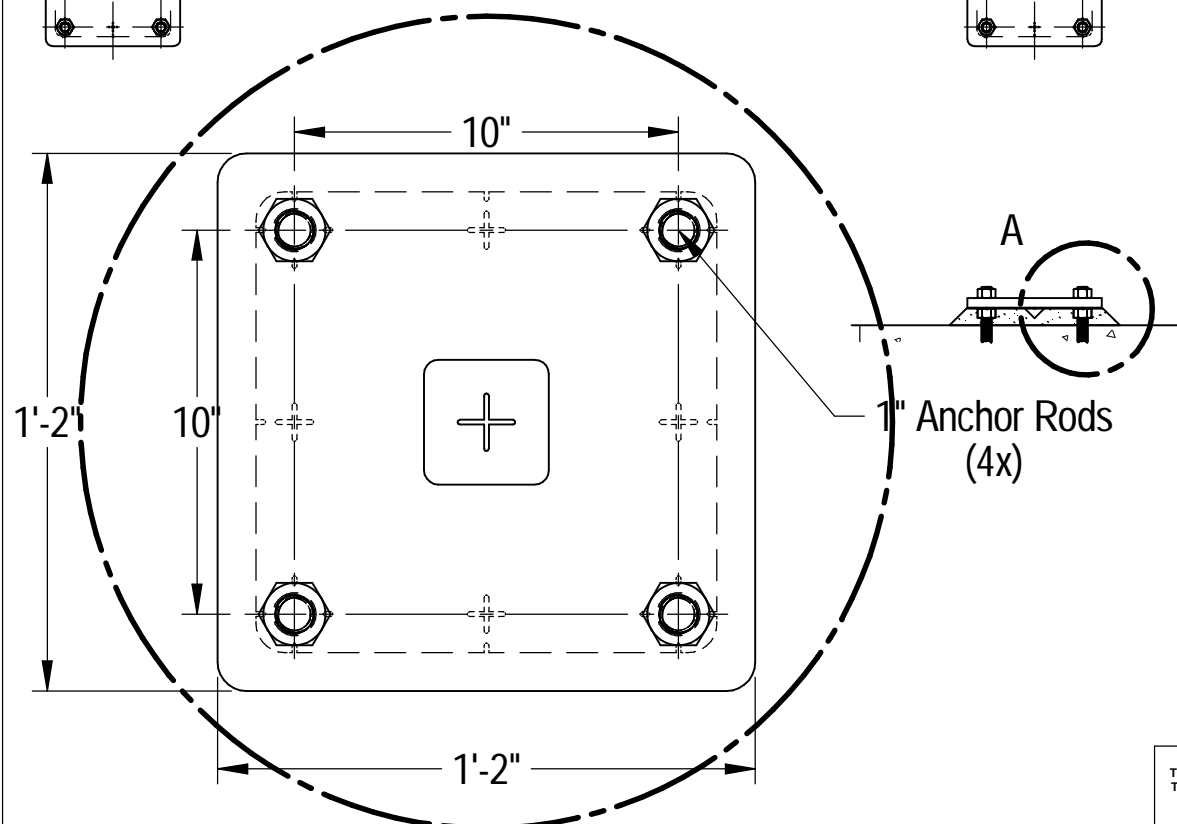
Foundation Notes:

1. Loads based on ASCE 7-10
2. Loads are unfactored
3. Loads shown are maximum tower leg reactions based on the equipment configuration provided to Honeyville Metal Inc.
4. Honeyville Metal is not responsible for the design, materials and workmanship of the foundation
5. The anchor rod plan is intended to show only location, diameter and projection of the anchor rods required to attach the tower to the foundation.
6. It is the responsibility of the of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values tie rods and other associated items embedded in the concrete foundation
7. The foundation design shall be designed for the loads imposed by the tower, other imposed loads and the bearing capacity of the soil and conditions of the site.
8. The foundation designer shall be responsible to apply the appropriate load factors as required by the applicable building code in the foundation design.

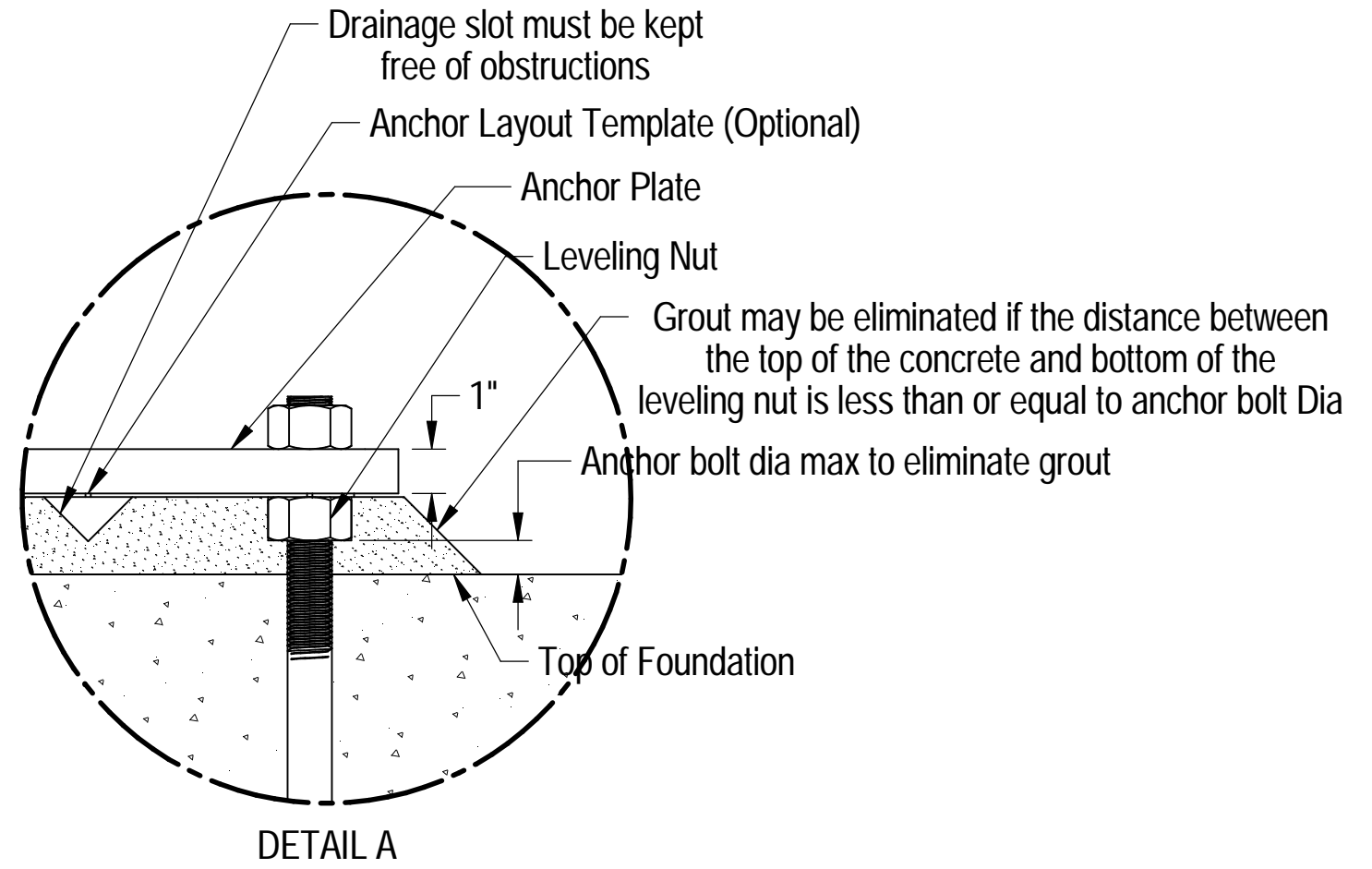
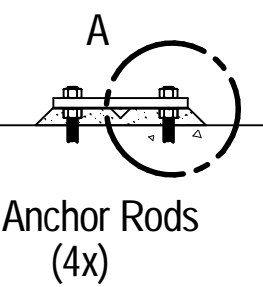
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	Scale:	---					Project Name:				
Size:	Drawn By:	Checked By:	Sheet:	Sheet Name:	Drawing No:	Order No:	Job No:	Catalog No:	Model No:		
B	RandyL	QuinnS	1 of 2	Sheet1	HM00-254-417/01	O-11098					



Anchor Rod Plan



DETAIL B



DETAIL A

Notes:

1. Grout to be structural 5000 PSI minimum ultimate strength non-shrink & non-metallic
2. All anchor bolts to meet or exceed ASTM A36 or A307
3. Anchor rod spacing tolerance is + or - 1/16"
4. Maximum difference between any 2 tower leg elevations is 1/4"
5. Nuts, threads and all nut contact surfaces must be cleaned after concrete installation and immediately before installation of leveling and top nuts. Nuts must be free to move throughout the entire length of the anchor rod threaded projection.
6. After leveling the leveling nuts and setting the 1st tower leg, top nuts must be installed to a snug tight condition followed by tightening the leveling nuts.
7. After all top ad leveling nuts are tightened to a snug condition, top nuts shall be further tightened with the leveling nuts secured to result in a 1/3 top nut rotation.
8. A drainage slot must be created in grout to allow drainage moisture from the tube section. Failure to provide drainage may result in damage to the tube section.

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				Scale:	---			Project Name:		Mike Ecker Farm									
Size:	B	Drawn By:	RandyL	Checked By:	QuinnS	Sheet:	2 of 2	Sheet Name:	Sheet2	Drawing No:	HM00-254-417/01	Order No:	O-11098	Job No:		Catalog No:		Model No:	

