

**PLAN VIEW WITH CONDUIT DETAIL**

**30 FT TOWER  
CRADLE PAD**

**30 FOOT TOWER  
PAD**

**DCP, SENSOR, AND AC  
POWER PAD**

**LIGHTNING  
SENSOR PAD**

Weatherheads Installed on Associated  
Conduit Above Height of Concrete Pads  
(2" Weatherheads for 2" Conduit and 1"  
Weatherheads for 1" Conduit).

1in Sch 80 Conduit for  
AC Power Cables

AC Power Conduit  
to Demarcation


2in Sch 80 Conduit for  
Data Cables

- NOTES
1. ROUTE SENSOR CABLE CONDUITS (2" SCH80 PVC) FROM SENSOR PADS AND TOWER PAD TO DCP, SENSOR, AND AC POWER PAD.
  2. ROUTE POWER CONDUITS (1" SCH80 PVC) FROM PADS TO DCP, SENSOR, AND AC POWER PAD.
  3. ROUTE CONDUIT OUTSIDE OF PADS. ANCHOR WITH CLIPS/MASONARY SCREWS.
  4. CONDUIT MUST BE 18" MIN. BELOW GRADE OR FROST DEPTH.
  5. LB CONDUIT BODY CTX5133665 1-IN TYPE LB PVC OR EQUIVALENT
  6. INSTALL PULL ROPE IN SENSOR CABLE CONDUIT.
  7. INSTALL THREE (3) 12 AWG THHN AC WIRES FROM EACH JUNCTION BOX TO BREAKER PANEL
  8. CONCRETE PAD DIMENSIONS TO DRAWINGS.
  9. CONCRETE PAD DEPTH TO VARY WITH SOIL AND WEATHER CONDITIONS.
  10. GROUNDING TO 10 OHMS. MAY ADD RADIALS, SECTIONAL RODS, OR SOIL ENHANCEMENT.
  11. EXOTHERMIC WELD ALL BONDS TO GROUND RODS PER LOCAL CODES
  12. MAX. LENGTH OF 13 FT FOR #6 BONDING JUMPER TO NEAREST GROUND ROD.
  13. MIN. LENGTH OF 4 FT ABOVE PAD FOR #4/0 TOWER BONDING JUMPER.

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B	REVISED CONDUIT LAYOUT	9/23/22	J.M.	
A	PRELIMINARY DESIGN	11/16/21	J.M.	
LET	REVISION	DATE	BY	

	NAME	DATE
DRAWN BY:	J.M.	11/16/21
COMMENTS:		



TITLE:  
MESOTECH, PRIMARY AWOS SITE  
PLAN

DOC 10382

REV  
B

SIZE: B

SHEET 1 OF 6

GROUNDING DETAIL

30 FT TOWER  
CRADLE PAD

30 FOOT TOWER  
PAD

LIGHTNING  
SENSOR PAD

DCP, SENSOR, AND AC  
POWER PAD

POWER REQUIREMENT: 115 VAC 60 HZ SINGLE PHASE

DEVICE	LOAD	BREAKER
DATA COLLECTION PLATFORM	500 VA MAX.	15 A
RAIN GAUGE HEATER	300 VA MAX.	15 A
CEILOMETER	1800 VA MAX.	20 A
LIGHTNING SENSOR	500 VA MAX.	15 A
FREEZING RAIN SENSOR	500 VA MAX.	15 A
OBSTRUCTION LIGHTS	500 VA MAX.	15 A

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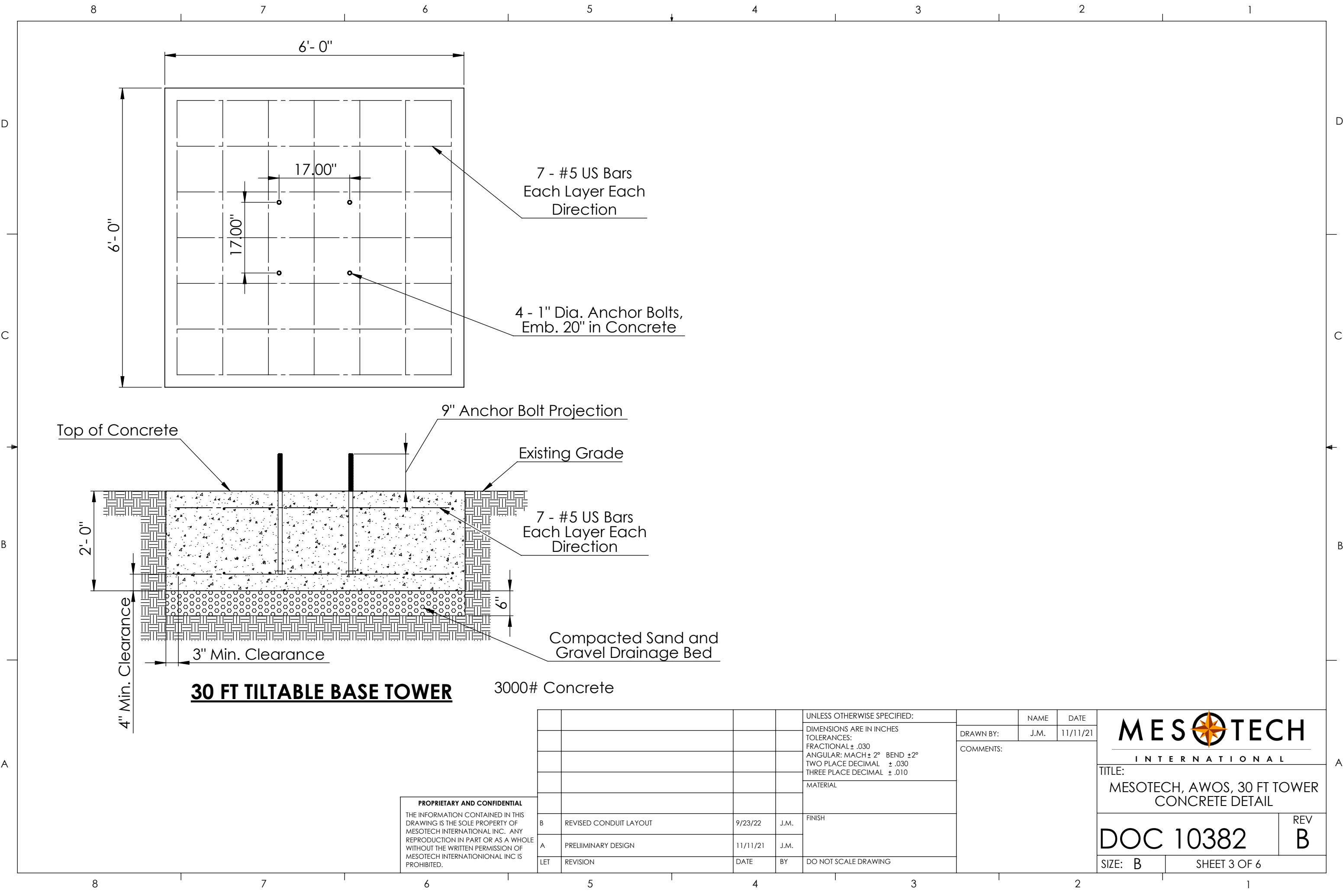
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MESOTECH, PRIMARY AWOS SITE  
PLAN, GROUNDING DETAIL

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SHEET 2 OF 6




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DIMENSIONS ARE IN INCHES	
TOLERANCES:	
FRACTIONAL ± .030	
ANGULAR: MACH ± 2° BEND ± 2°	
TWO PLACE DECIMAL ± .030	
THREE PLACE DECIMAL ± .010	
MATERIAL	
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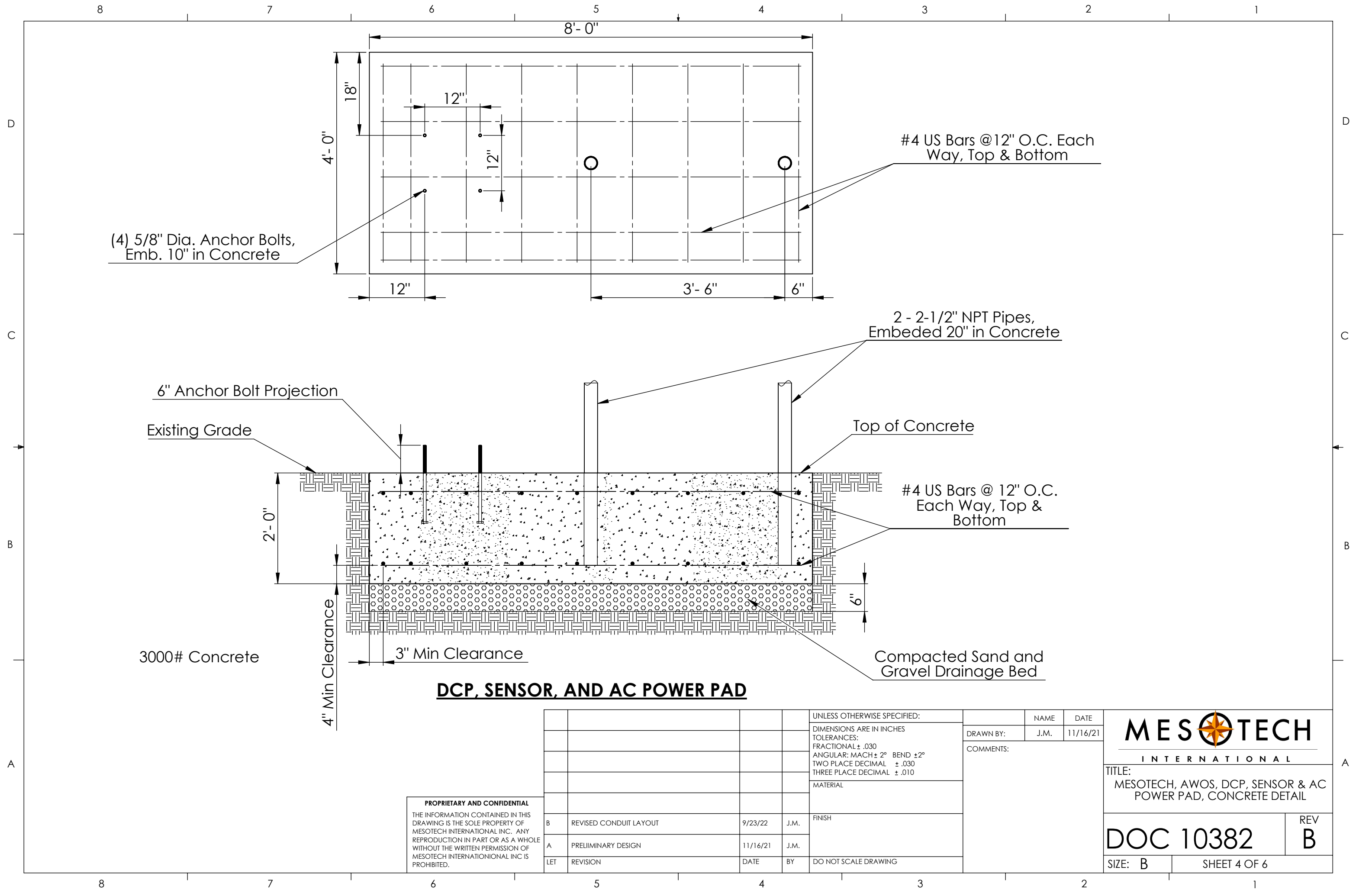
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MESOTECH, AWOS, 30 FT TOWER  
CONCRETE DETAIL

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SHEET 3 OF 6



**DCP, SENSOR, AND AC POWER PAD**

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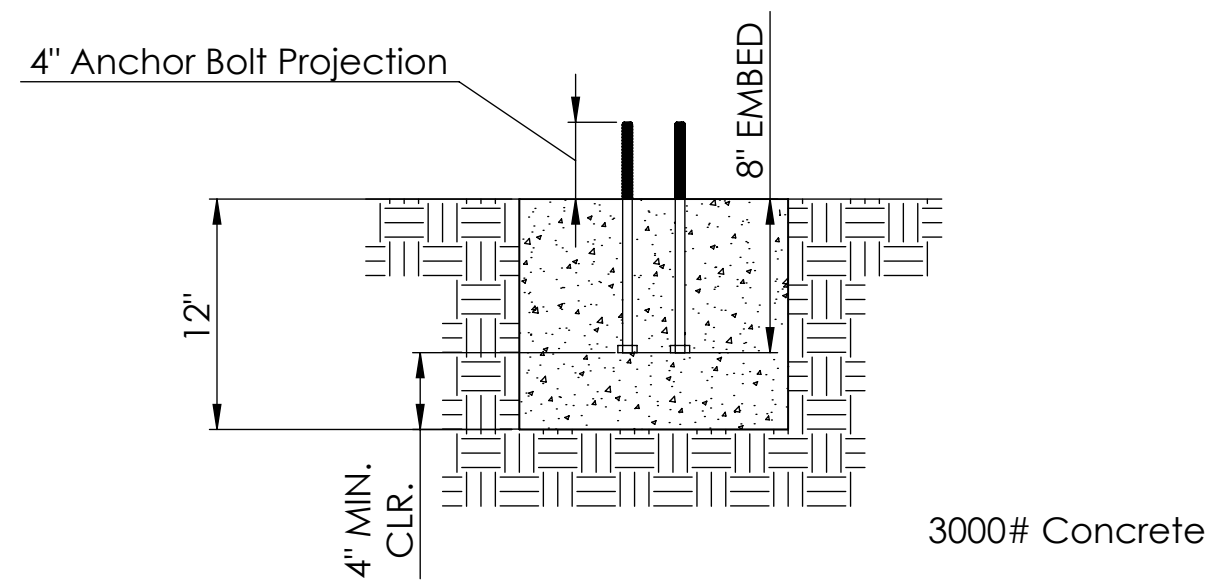
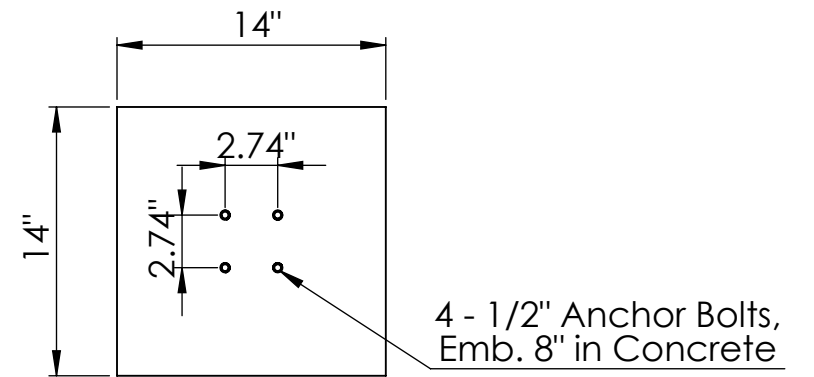
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MESOTECH, AWOS, DCP, SENSOR & AC  
POWER PAD, CONCRETE DETAIL

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SHEET 4 OF 6



### 30 FOOT TOWER CRADLE PAD

## SENSOR PEDESTAL PAD

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				DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± .030 ANGULAR: MACH ± 2° BEND ±2° TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .010	DRAWN BY:	J.M.	11/16/21	
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