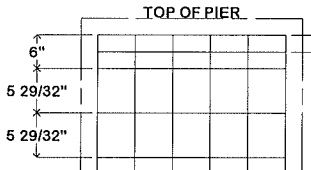


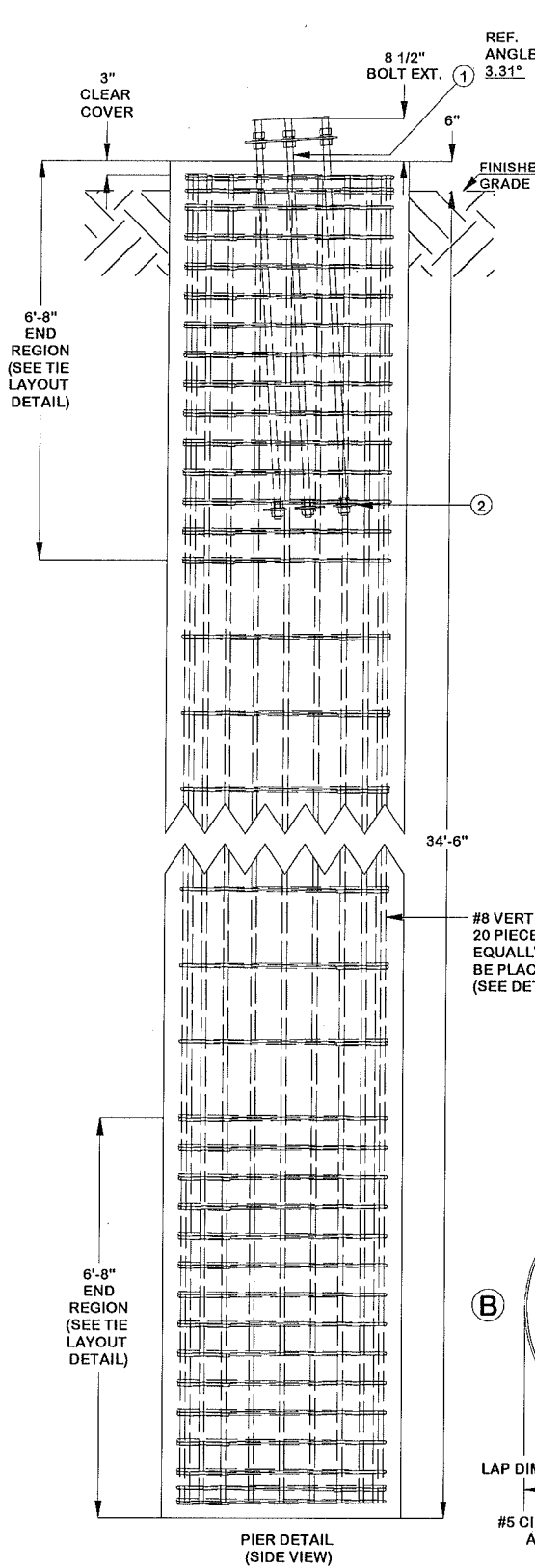
PACK NON-SHRINK STRUCTURAL GROUT UNDER FLANGE AFTER LEVELING TOWER
 NON-SHRINK GROUT TO HAVE COMPRESSIVE STRENGTH OF 5000 PSI @ 28 DAYS
 CONCRETE NOTES: 16.3 CUBIC YARDS OF CONCRETE PER PIER REQUIRED (48.9 TOTAL).
 CONCRETE TO HAVE MIN COMPRESSIVE STRENGTH OF 4500 PSI @ 28 DAYS.

ATTENTION CONTRACTOR INSTALLING ANCHOR BOLT!
 1 1/4" DIA. ANCHOR BOLTS REQUIRED.
 VERIFY THE PART NUMBER AND SIZES FOR ALL COMPONENTS ON THIS PAGE.
 IF THERE ARE ANY DISCREPANCIES, PLEASE NOTIFY VALMONT/PIROD, INC
 PRIOR TO INSTALLATION!

- TEMPLATE INSTALLATION NOTES:**
1. TEMPLATE PLACEMENT MUST BE +/- 3".
 2. TEMPLATE ASSEMBLY MUST BE LEVEL +/- 1".
 3. BASE LEG REFERENCE ANGLE 3.31°.
 4. INSTALLED TEMPLATE CLEARANCE: 2" MIN - 4" MAX
 5. MUST USE TEMPLATE ASSEMBLY #213280



CIRCULAR TIE LAYOUT
 (NOT TO SCALE)
 PLACE ONE TIE 3" FROM THE END TIE
 AT THE TOP AND BOTTOM OF PIER.
 PLACE REMAINING TIES @ 5 29/32"
 NOMINAL SPACING WITHIN END REGIONS
 & 15 9/32" NOMINAL SPACING
 IN THE REMAINDER OF PIER.
 PLACE CIRCULAR TIES SO
 LAPS ON ADJACENT TIES
 ARE 180 DEGREES APART.

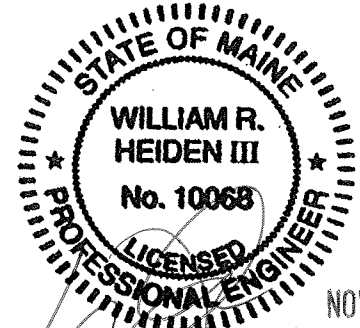
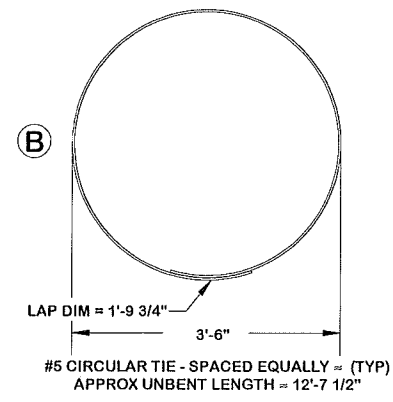
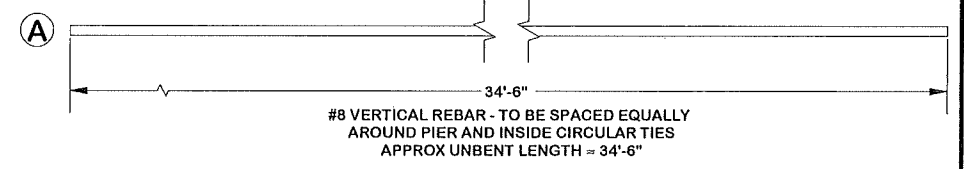


REBAR/ANCHOR STEEL TABLE				
ITEM	QTY	PART DESCRIPTION	UNIT WT.	NET WT.
1	18	1 1/4" DIA. x 80" LONG ANCHOR BOLT - 109881	27.88	501.80
2	3	EMBEDMENT PLATE - 217970	19.39	58.17
A	60	VERTICAL REBAR (#8 REBAR)	92.33	5539.87
B	138	CIRCULAR TIE (#5 REBAR)	13.20	1820.99
			APPROX TOTAL WT #	7920.83

REBAR NOTES: ALL REINFORCING BARS MUST CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS

FOUNDATION NOTES:

1. SOIL AS PER REPORT BY TERRACON, PROJECT# J3165017, DATED 10/24/16, BORING B-2A, B-2B, B-2C
2. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 (2008) BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. A COLD JOINT IS PERMISSIBLE UPON CONSULTATION WITH PIROD. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.
4. ALL REINFORCING STEEL TO BE FORMED INTO A CAGE PRIOR TO SETTING INTO POSITION IN THE EXCAVATED PIER.
5. PERMANENT STEEL CASING SHALL NOT BE USED WITHOUT CONSENT FROM FOUNDATION DESIGNERS.
6. BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.
7. CROWN TOP OF FOUNDATION FOR PROPER DRAINAGE.
8. FOUNDATION IS TO BEAR ON INSITU GNEISS BEDROCK AT APPROXIMATELY 34.5' BELOW GRADE. THE BEARING SURFACE IS TO BE FREE OF ANY LOOSE MATERIAL & SUBSEQUENTLY INSPECTED BY A QUALIFIED ON-SITE GEOTECHNICAL ENGINEER.
9. A TEMPORARY, FULL LENGTH STEEL CASING MAY BE REQUIRED DURING INSTALLATION.
10. DRILLING SLURRY AND TREMIE METHODS OF CONCRETE PLACEMENT MAY BE REQUIRED DURING INSTALLATION.
11. DIFFICULT DRILLING AND/OR ROCK CORING IS TO BE EXPECTED BELOW A DEPTH OF 30.5 FT. THE DRILLING CONTRACTOR SHOULD BE PREPARED TO REMOVE ROCK AND/OR ROCK CORES FROM THE EXCAVATION.
12. THE CAISSON MUST PENETRATE A MINIMUM OF 4' INTO THE GNEISS BEDROCK LAYER.
13. IF GNEISS BEDROCK LAYER IS ENCOUNTERED AT SHALLOWER DEPTHS OR NOT ENCOUNTERED AT ALL, VALMONT INDUSTRIES MUST BE CONTACTED FOR RE-EVALUATION. THE FINAL DESIGN MIGHT CHANGE BASED ON THE DEPTH OF BEDROCK.



William R. Heiden III, ME P.E. #10068

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@B	REVISED FOUNDATIONS FOR BORINGS B-2A, B-2B & B-2C		MS13	11/15/2016
@A	UPDATED FOUNDATION DESIGN PER REVISED SOIL REPORT		MS13	10/27/2016
REVISION HISTORY				

SITE

CITY OF PORTLAND FD, ME
 MOTOROLA SOLUTIONS
 U 19 X 180'

DESCRIPTION

DRILLED PIERS
 TOWER FOUNDATION #1

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

STRUCTURE APPROVAL	FOUNDATION APPROVAL
	MS13 11/15/2016

valmont STRUCTURES

1-877-467-4763 Plymouth, IN
 1-800-547-2151 Salem, OR

ENG. FILE NO. 324370

DWG. NO. 268614F

PAGE 1 OF 1