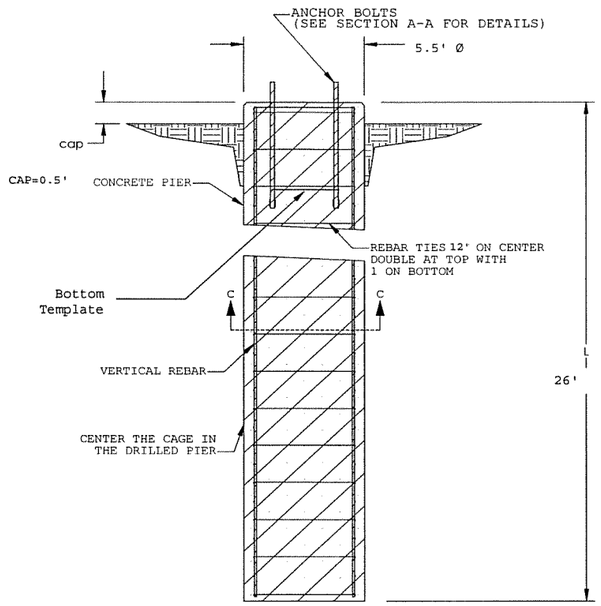
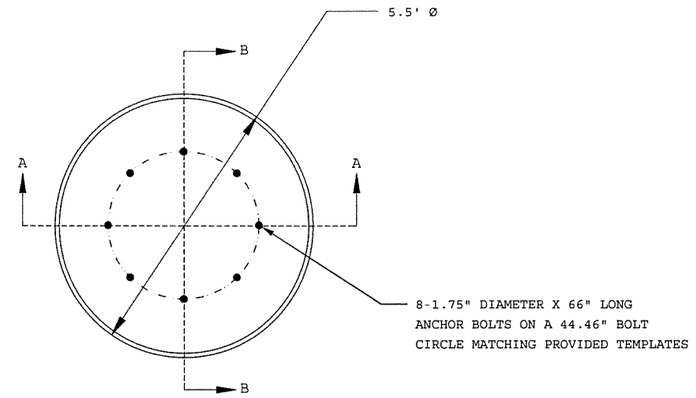
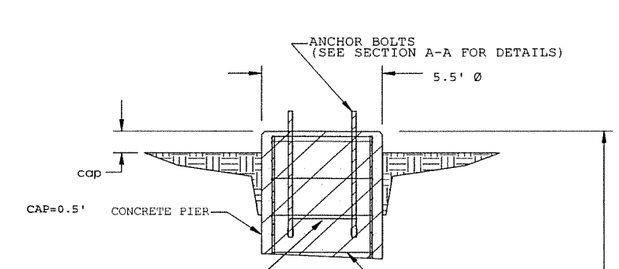


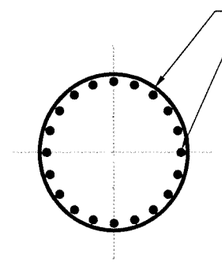
SECTION B-B
PIER ELEVATION
(NO SCALE)



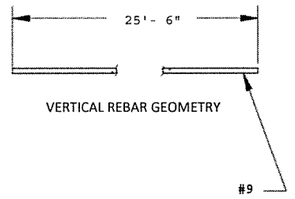
FOUNDATION & ANCHOR BOLT LAYOUT PLAN
(NO SCALE)



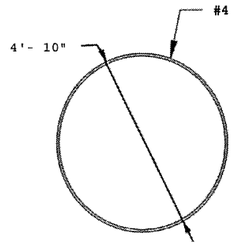
SECTION A-A TYP
ANCHOR BOLT ELEVATION
(NO SCALE)
Note: EXTREME CARE SHOULD BE TAKEN TO ENSURE THAT ALL BOLTS ARE LEVEL WITH RESPECT TO EACH OTHER TO ENSURE ADEQUATE NUT ENGAGEMENT



SECTION C-C
PIER REBAR LAYOUT
(NO SCALE)



VERTICAL REBAR GEOMETRY



REBAR TIE GEOMETRY

GENERAL NOTES: DRILLED PIER

1. Prior to excavation, check the area for underground facilities.
2. All reinforcing shall be deformed bars conforming to ASTM A615 Grade 60 (60,000 psi min. yield) and shall be provided by the foundation contractor.
3. All concrete shall have a minimum compressive strength of 4000 psi @ 28 days. The requirement for the concrete shall be as given in the ACI "Building Code Requirements for Reinforced Concrete", ACI 318, the latest edition.
4. Trowel top of pedestal smooth.
5. Steel reinforcement and concrete should be placed immediately upon completion of the pier excavations. Contractor shall not allow a cold joint to form in the pier. Portion above grade should be formed. Temporary casing may be required to prevent caving prior to concrete placement.
6. The ground water was encountered at 3.5' below grade during boring.
7. Concrete is assumed to weigh 150 pcf.
8. Estimated concrete volume = **22.9 cubic yards total.**
9. Design Based on the following loads from installation drawing for order No: 334229.

Factored Moment =	**466.8 FT-KIPS**
Factored Download =	**12.8 KIPS**
Factored Shear =	**8.5 KIPS**

10. Reference: HDG REPORT FOR PORTLAND 3, ME DATED 08/13/2015
11. Concrete shall be placed using a tremie to the depth indicated on the foundation drawing.
12. Anchor bolts to be ASTM A615, Gr. 75 ksi.
13. Ref Soils Report for installation recommendations.
14. Auger refusal encountered at 20.5' below grade during boring.

Reinforcement Steel Schedule					Total	Total
-	Type	Rebar size	Rebar Spacing	Bar Weight lb/ft	Weight (lb)	BAR Qty
1	Vertical	#9	EQUAL	3.4	1734	20
2	Ties	#4	12"	0.67	308	28

TOTAL STEEL WEIGHT FOR COMPLETE FOUNDATION INSTALLATION = **2042#**

REBAR LAP SPLICE TABLE			Ref. ACI 318
Rebar Size	Rebar Grade	CONCRETE STRENGTH PSI	REBAR OVERLAP INCHES
#9	60	4000	42
#4	60	4000	15

NOTES: Where vertical bars are to be spliced, splices should be staggered.

GRADE 60 REBAR TIES		HOOK GEOMETRY***	
Rebar Size	ASK #	6db* **	4db*
		Min Length	Nominal Diameter
	Seismic Hook Not Reqd	N/A	N/A

* db = Bar Diameter
** Refers to ACI Stirrup hook detail 6db 3in min.

Rev	Description	Date	By/Ck

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

valmont MICROFLECT
3575 25TH STREET SE
SALEM, OR 97302
MAIN (503) 363-9267
FAX (503) 316-2040

By:	NAR	**DRILLED PIER FOUNDATION LAYOUT**
Check:	NAR	CUSTOMER: VERIZON
Date:	07/15/16	SITE: PORTLAND 3

ANALYSIS VERSION: 1.15 | S.O.#334229 | SIZE - B | **DWG NO.B-144243** | Sheet 1 of 1