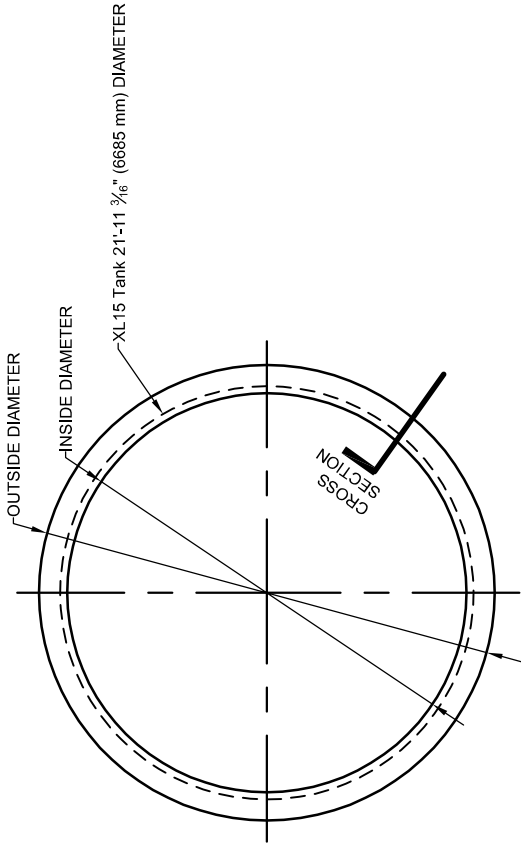


PIONEER WATER TANKS RING BEAM DRAWING

FOR INSTALLATION IN CALIFORNIA

XL15-02



NOTE: NO SCOUR HAS BEEN SPECIFIED FOR THIS RING BEAM

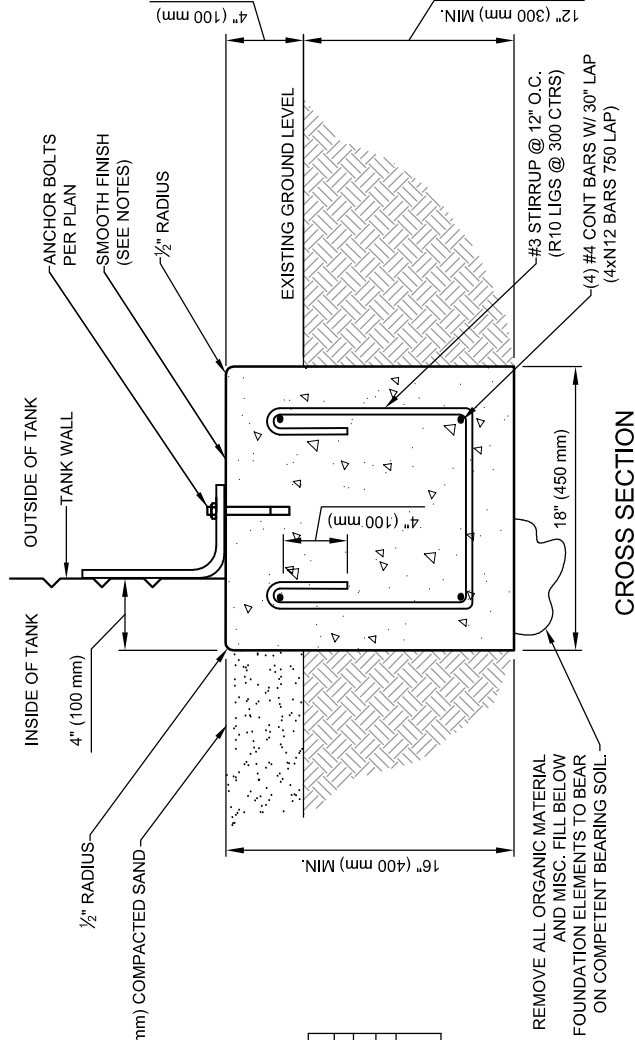
DRAWING NTS

INSIDE DIAMETER = 21'-3" (6485 mm)
 OUTSIDE DIAMETER = 24'-3" (7385 mm)
 EST RING BEAM CONCRETE VOLUME = 5.29 CY (3.9 m³)

| CONSTRUCTION TOLERANCES | |
|-------------------------|--|
| Dimension | Tolerance |
| Inside Diameter | -3/4" + 0 (-20 mm + 0) |
| Outside Diameter | -0 + 3/4" (-0 + 20 mm) |
| Level of top surface | +/- 1/16" over any 5'-0" (+/- 2mm over any 2m) of circumference at tank wall |
| | +/- 1/8" (+/- 4mm) over entire ring beam |

NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2013 CALIFORNIA BUILDING CODE, ASCE 7-10 AND ACI 318-14.
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI (INCREASED STRENGTH OPTIONAL FOR SMOOTHER FINISH).
- PROVIDE 3 INCH MINIMUM COVER OF ALL REBAR.
- REINFORCEMENT SHALL CONSIST OF DEFORMED REINFORCING BARS CONFORMING TO ASTM A612, GRADE 40.
- MINIMUM ALLOWABLE BEARING CAPACITY IS 1,500 psf. THE FOUNDATION MUST BE EMBEDDED A MINIMUM 12" BELOW EXISTING GRADE TO BEAR UPON UNDISTURBED NATIVE SOILS. IF TOPSOIL, ORGANIC MATERIALS, OR UNCONTROLLED FILL SOILS ARE ENCOUNTERED, THEN THE FOOTING TRENCH SHALL BE OVER-EXCAVATED TO REMOVE THOSE MATERIALS UNTIL UNDISTURBED NATIVE SOILS ARE ENCOUNTERED. THE TRENCH CAN THEN BE BACKFILLED WITH CONCRETE OR ENGINEERED STRUCTURAL FILL.
- SHOULD THERE BE ANY DOUBT ABOUT THE STABILITY OR STRENGTH OF THE BEARING SOILS, OR IF CORROSIVE SOIL CONDITIONS ARE SUSPECTED, SITE-SPECIFIC PROFESSIONAL ENGINEERING ADVICE SHOULD BE SOUGHT.
- DRAINAGE AND ANTI-EROSION MEASURES ON SITE - BY OTHERS.
- THESE RING BEAM DETAILS SHALL BE USED WITH THIS TANK ONLY. DIFFERENT SIZE TANKS MAY REQUIRE RING BEAMS OF DIFFERENT CROSS SECTION.
- FORMWORK FOR THE RING BEAM SIDES SHALL CONFORM WITH ACI 318-14. CONCRETE MUST MEET REQUIRED STRENGTH BEFORE CONSTRUCTION AND FINAL LOADS CAN BE APPLIED.
- SIDE FACES OF RING BEAM SHALL BE FORMED AND NOT CAST AGAINST EARTH.



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| | <p>611 1st Street, Eureka, CA 95501, tel: (707)444-3900, fax: (707)444-3900, www.manhard.com Civil Engineers - Surveyors - Water Resources Engineers - Water & Wastewater Engineers Construction Managers - Environmental Scientists - Landscape Architects - Planners</p> |
| <p>ACER WATER TANKS</p> | <p>Manhard CONSULTING LTD</p> |
| <p>JOB NUMBER: S03219 CLIENT: ACER WATER TANKS DRAWING NO: CA_RINGBEAMDET_XL15-02 TANK: XL15-02 DATE: Wednesday, 13 July 2016 RING BEAM: 18" (450 mm) WIDE X 16" (400 mm) DEEP</p> | <p>© 2016 ALL RIGHTS RESERVED</p> |