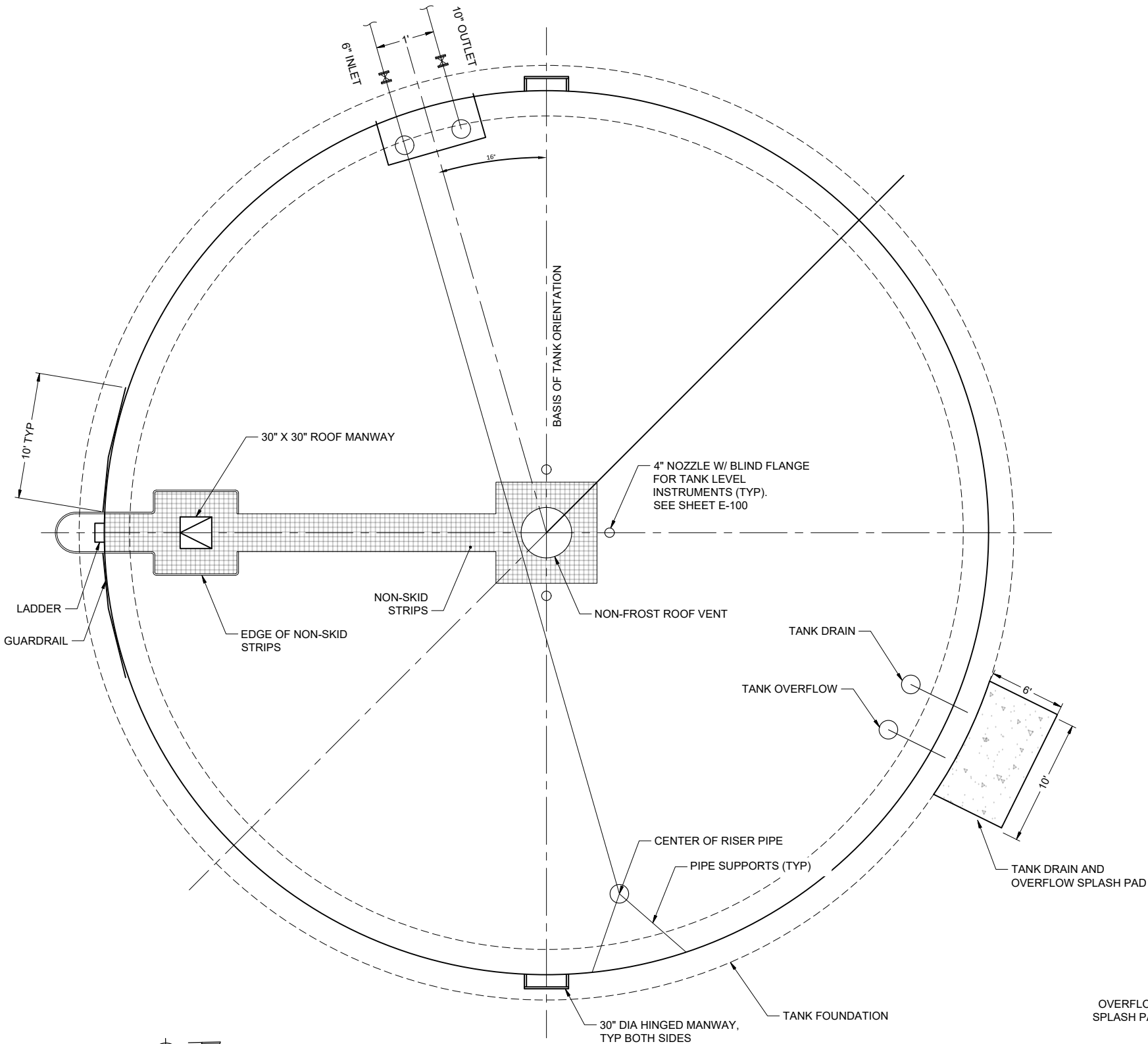


1" IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

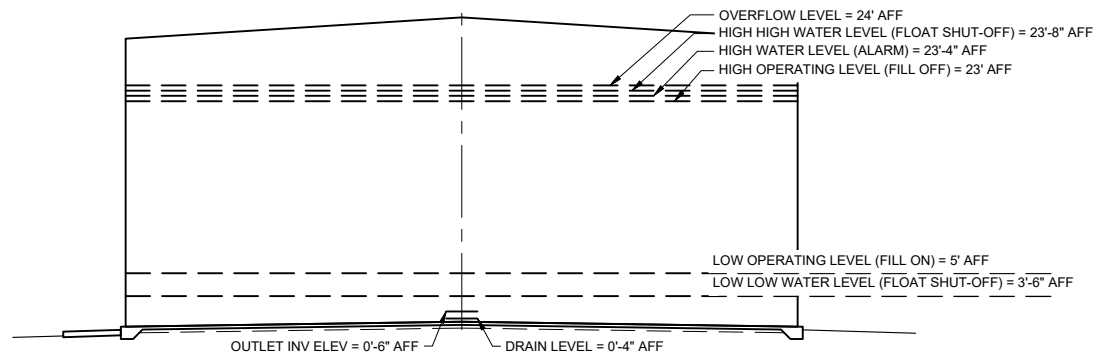
N:\Projects\10297.24002\DWG\_Alpert\_Wtr\_Ext\10297.24002-C-DETAILS-C-506.dwg Apr 18, 2025 9:15 AM



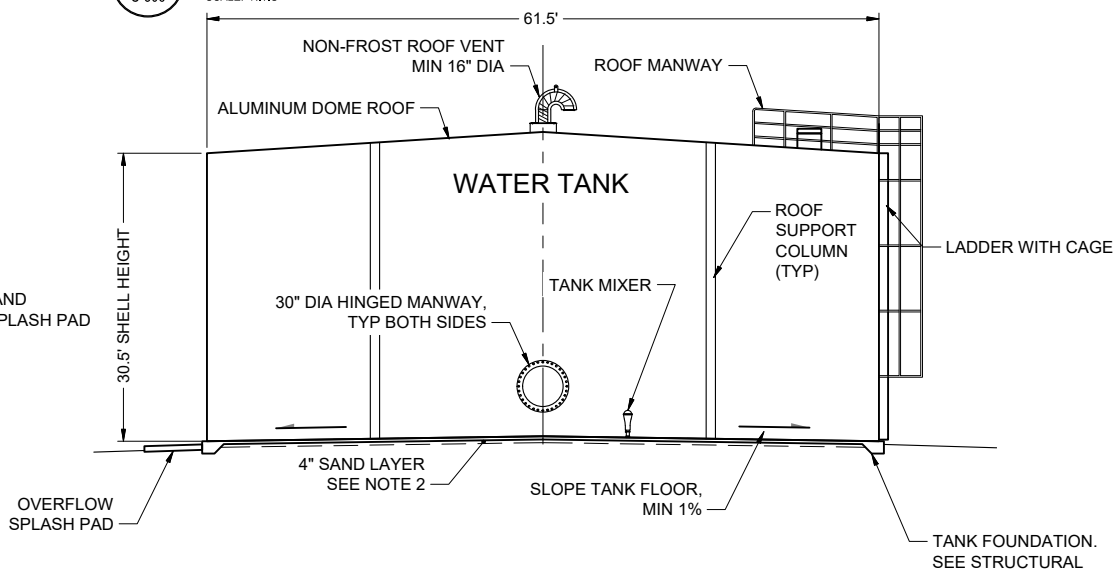
1 DETAIL: BOLTED STEEL TANK PLAN  
SCALE: N.T.S.

| BOLTED STEEL WATER STORAGE TANK DESIGN CRITERIA |                                                                                                        |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| SIZE                                            | 61'-6.5" DIAMETER +/- & 30'-6" TALL AT SHELL                                                           |
| CATHODIC PROTECTION                             | ACTIVE SYSTEM REQUIRED<br>DESIGNED BY TANK MANUFACTURER, SEE SPECIFICATIONS                            |
| COATING SYSTEM                                  | FACTORY APPLIED EPOXY COATING                                                                          |
| SEISMIC                                         | AS INDICATED, SEE SPECIFICATIONS                                                                       |
| ROOF DESIGN                                     | BALANCED SNOW LOAD = $p_g=186$ , $l_e=1.2$ , $C_e=1.0$ , $C_r=1.2$ , $P_f=188$ psf, SEE SPECIFICATIONS |
| WIND                                            | WIND SPEED = 161 MPH, ASCE 07-16                                                                       |
| FOUNDATION                                      | SHALLOW FROST PROTECTED MAT FOUNDATION                                                                 |
| WORKING CAPACITY <sup>1</sup>                   | 500,000 U.S. GALLONS                                                                                   |

- NOTES:**
- NORMAL WORKING CAPACITY IS FROM 0.5' TO 23.5' FROM FINISHED FLOOR. MAXIMUM FLUID AND OVERFLOW LEVEL IS 24'.
  - TANK BEDDING TO BE MADE FROM CLEAN SAND MIXED WITH HYDRATED LIME TO OBTAIN A pH OF AT LEAST 10.5. THE RESISTIVITY OF THE SAND BEFORE HYDRATED LIME IS ADDED SHOULD BE GREATER THAN 3,000 OHM-CM WHEN SATURATED WITH DISTILLED WATER.
  - WATER TANK STANDARDS:
    - AWWA D103-19 FACTORY-COATED BOLTED CARBON STEEL TANKS FOR WATER STORAGE
  - TANK LEAK TESTING, CLEANING, DISINFECTION, TESTING, AND COMMISSIONING PER AWWA STANDARDS.
  - A CORROSION ALLOWANCE OF 1/8" IS TO BE PROVIDED ON ALL PLATE STEEL OF TANK
  - INTERIOR COATINGS OF TANK ARE TO BE NSF/ANSI 61 COMPLIANT. ALL MATERIAL TO BE PREPPED AND COATED PER MANUFACTURER'S RECOMMENDATIONS.
  - EXTERIOR OF TANK TO BE PAINTED WITH EPOXY PAINT. ALL MATERIALS / WELDS TO BE PREPPED AND COATED PER MANUFACTURE'S RECOMMENDATIONS.
  - TANK AIR VENT SHALL BE A PRESSURE VACUUMED SCREENED VENT, SIZED FOR MAKEUP AIR, AND TO PREVENT INFILTRATION OF INSECTS AND BIRDS.



2 DETAIL: BOLTED STEEL TANK LEVEL ELEVATION  
SCALE: N.T.S.



3 DETAIL: BOLTED STEEL TANK EAST ELEVATION  
SCALE: N.T.S.

CONSULTANT :



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PROJECT :  
CITY & BOROUGH OF YAKUTAT  
WATER SYSTEM EXTENSION

YAKUTAT, ALASKA

SHEET TITLE :  
WATER STORAGE TANK  
DETAILS (1 OF 2)

DESIGN AMN  
DRAWN HRB  
CHECKED KAB  
DATE 04-16-2025

PROJECT No.  
10297.24002

SHEET NUMBER

C-506