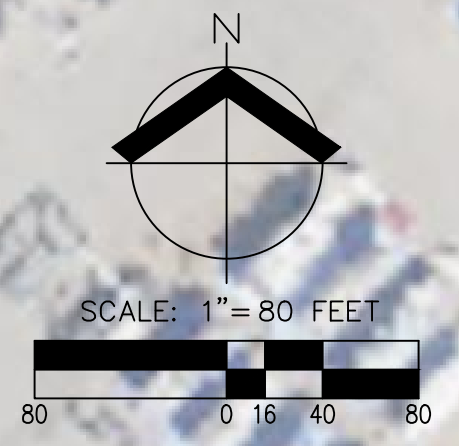


NOTES:

1. THIS DRAWING PRESENTS THE RESULTS OF A MULTI-BEAM BATHYMETRIC SURVEY CONDUCTED BY AKS MARCH 17, 2026.
2. THE DATA ARE REPRESENTATIVE OF THE BOTTOM ELEVATIONS AT THE TIME OF THE SURVEY AND MAY CHANGE AT ANY TIME FOLLOWING THE SURVEY.
3. THE HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECTION OF A NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) CERTIFIED HYDROGRAPHER, AN OREGON-REGISTERED PROFESSIONAL ENGINEER, AND AN OREGON-REGISTERED PROFESSIONAL LAND SURVEYOR.
4. HYDROGRAPHIC DATA WERE COLLECTED IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003 (NOVEMBER 2013).
5. SURVEY DATA ARE REPRESENTED AT A 1-FT GRID RESOLUTION, 1-FT CONTOUR INTERVAL, AND 50-FT SHOAL BIASED SPOT SOUNDINGS.
6. HYDROGRAPHIC DATA WERE COLLECTED WITH AN R2SONIC 2024 MULTI-BEAM ECHOSOUNDER OPERATING AT 400 KHZ.
7. EQUIPMENT USED TO DERIVE HORIZONTAL AND VERTICAL POSITIONS WERE AN APPLANIX POS/MV WAVEMASTER II AND TRIMBLE R10 RTK-GNSS HEADS.
8. WATER SURFACE ELEVATIONS WERE DERIVED USING RTK AND PPK GNSS AND THE GEOID18 SEPARATION MODEL.
9. PROJECT HORIZONTAL COORDINATE SYSTEM: STATE PLANE OREGON NORTH 3602, US FOOT, NAD83(2011) EPOCH:2010.0000. STATE PLANE COORDINATES WERE DERIVED FROM THE ORGN NETWORK.
10. PROJECT VERTICAL DATUM: ELEVATIONS ARE BASED ON ASTORIA STAFF GAUGE NO. ACY541. LOCATED ON WOOD STRUCTURE AT ASTORIA BRIDGE PIER. ELEVATION = 0.00 FEET (MLLW). ELEVATIONS WERE DERIVED FROM THE ORGN NETWORK.
11. AERIAL IMAGERY PROVIDED VIA GIS AND IS FOR REFERENCE ONLY. DMMU AREAS PROVIDED BY OTHERS.



AKS DRAWING FILE: 14496-RECORD.DWG | LAYOUT: LAYOUT1