

**LEGEND**

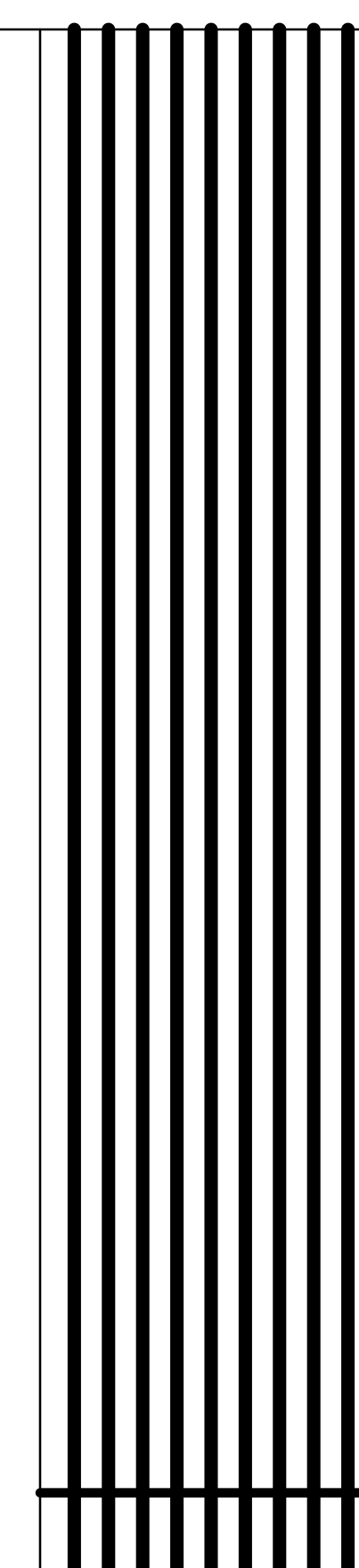
- EX. INDEX LIDAR CONTOUR ELEVATION
- EX. INTERVAL LIDAR CONTOUR ELEVATION
- PROPERTY/LOT LINE
- ROAD RIGHT-OF-WAY LINE
- WETLAND LIMIT LINE
- ORDINARY HIGH WATER MARK (OHM)
- EXISTING STREAM CENTER LINE
- BATHYMETRIC MINOR CONTOUR
- BATHYMETRIC MAJOR CONTOUR
- EXISTING SMALL BOULDER
- EXISTING LARGE BOULDER

**EXISTING CONDITIONS INFORMATION**

1. THE BATHYMETRIC SURVEY WAS PERFORMED USING SONAR AND MANUAL MEASUREMENTS WITH GPS DEVICES BY F.X. BROWNE/BOGIA ENGINEERING, INC. DURING THE MONTHS OF JUNE 2020 THROUGH AUGUST 2020. EXISTING UPLAND LIDAR TOPOGRAPHY WAS OBTAINED FROM PASDA PENNSYLVANIA STATE GIS.
2. EXISTING SURROUNDING SURFACE FEATURES WERE OBTAINED FROM FIELD SURVEY, AERIALS, GPS, SITE OBSERVATION AND FIELD MEASUREMENTS PERFORMED BY F.X. BROWNE/BOGIA ENGINEERING, INC.
3. HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: FROM WSE (WATER/SEDIMENT DEPTHS)
4. WATER SURFACE ELEVATION (WSE) VARIES. THE MEASURED MEAN LOW WATER SURFACE ELEVATION (WSE) DURING BATHYMETRIC SURVEY WAS APPROXIMATELY 0.17' ABOVE DAM LOCATED AT: 41° 09'12.90"N 75° 34'38.72"W
5. ALL EXISTING UTILITIES WITHIN THE PROJECT AREAS ARE TO BE FIELD VERIFIED AND MARKED PRIOR TO MOBILIZATION OF DEWATERING SITES, LAKE DREDGING AND OTHER ACTIVITIES WITHIN THE LAKE BOUNDARIES.
6. PROPERTY OWNERS:  
  
ARROWHEAD COMMUNITY ASSOCIATION  
961 ARROWHEAD DR.  
POCONO LAKE, PA 18347
7. LAKE AREA (OPEN WATERS) = 225 ACRES (APPROXIMATELY)
8. TOTAL VOLUME OF SEDIMENT = 156,177 CUBIC YARDS (APPROXIMATELY)
9. SEDIMENT LEVELS MAY VARY THROUGHOUT THE LAKE OVER TIME, AND WILL VARY AT THE INLETS INTO EACH SECTION ON ARROWHEAD LAKE. DUE TO THE VARIABLE NATURE OF SEDIMENT ACCUMULATION, ESPECIALLY AT THE INLET AREAS, ELEVATIONS SHOULD BE VERIFIED PRIOR TO ANY DREDGING.

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**BATHYMETRIC SURVEY MAP  
TOP OF SEDIMENT DEPTHS**

LOCATION: TOBYHANNA & COOLBAUGH TOWNSHIPS, MONROE COUNTY, PENNSYLVANIA

ADDRESS: 961 ARROWHEAD LAKE DRIVE POCONO LAKE, PA 18347

CLIENT: ARROWHEAD LAKE COMMUNITY ASSOCIATION

CHECKED BY: JAC  
DRAWN BY: JM  
DATE: 07/22/2020  
SCALE: 1" = 200'  
DRAWING: PA 1522-12  
PROJECT: 3 OF 12  
SHEET: