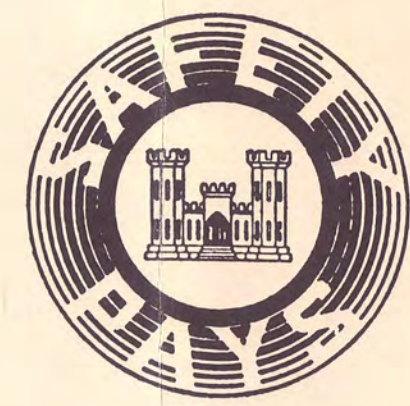


General Notes

- Penetration resistance in blows per foot unless noted otherwise. Required to drive a 2 inch O.D. (STD) sampler with a 140 lb. hammer falling 30 inches is shown to the left of the boring log.
- Natural moisture content in percent dry weight is shown to the left of the boring log. (MC)
- Atterberg limits are shown to the right of the boring logs. Liquid Limit (LL) and Plastic Limit (PL)
- Fine, medium and coarse soils are designated by the letters F, M, and C to the right of the boring logs.
- Where soil is considered to be on the border line of two or more groups, a double symbol is used, i.e. (SP-SM).
- All elevations shown in feet (N.G.M.D. - 1929 Adj)
- Field logs contain additional information not shown on the drawing and are available for inspection at the St. Paul District office.
- D-10, the grain size in millimeters of which 10% of the soil sample is finer, is shown to the right of the boring log.
- The unified soil classification system is used to identify basic soil type.
- Penetration resistance in blows per foot, unless noted otherwise, required to drive a 2 1/2 inch O.D. sampler with a 140 lb hammer falling 30 inches is shown to the left of the boring.
- 81-11M Machine boring

Boring Legend

- GP Poorly graded gravels, little or no fines
- SP Poorly graded sands, little or no fines
- SM Silty sands, sand-silt mixtures
- ML Inorganic silts, liquid limit less than 50
- MA Organic silts, liquid limit greater than 50
- CL Inorganic clay, liquid limit less than 50
- CH Inorganic clay, liquid limit greater than 50
- OL Organic silts-clays, liquid limit less than 50
- OH Organic clays, liquid limits greater than 50
- PT Peat
- W610870 Water level at date of boring
- FL10480 Elevation of bottom of boring
- DK Dark
- Blk Black
- Br Brown
- Gr Gray
- Grn Green
- Lt Light



DESIGNED BY: PDM	ZIPPEN BAY, MINNESOTA: SMALL BOAT CHANNEL PROJECT	
DRAWN BY: PDM	BORING LOGS	
CHECKED BY: LHB	81-1M thru 81-12M	
SUBMITTED BY:	DATE: DEC 82	
CHIEF: _____	BRANCH: _____	
APPROVED: _____	CHIEF ENGR. DIVISION: _____	
SCALE: _____	SPEC. NO. _____	
DRAWING NUMBER		
SHEET 1 OF 2		