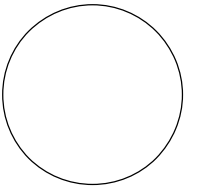






# Propwash Protection Plan Typical Cross Section

CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

ENGINEERING SERVICES - WALLACE BUILDING  
502 E. 9TH ST., DES MOINES, IA 50319-0034



TYPICAL CROSS SECTIONS AND DETAILS

RAMP EXTENSIONS FOR:

LAKE MANAWA STATE PARK

POTTAWATTAMIE COUNTY

NO. BY REVISION

DATE

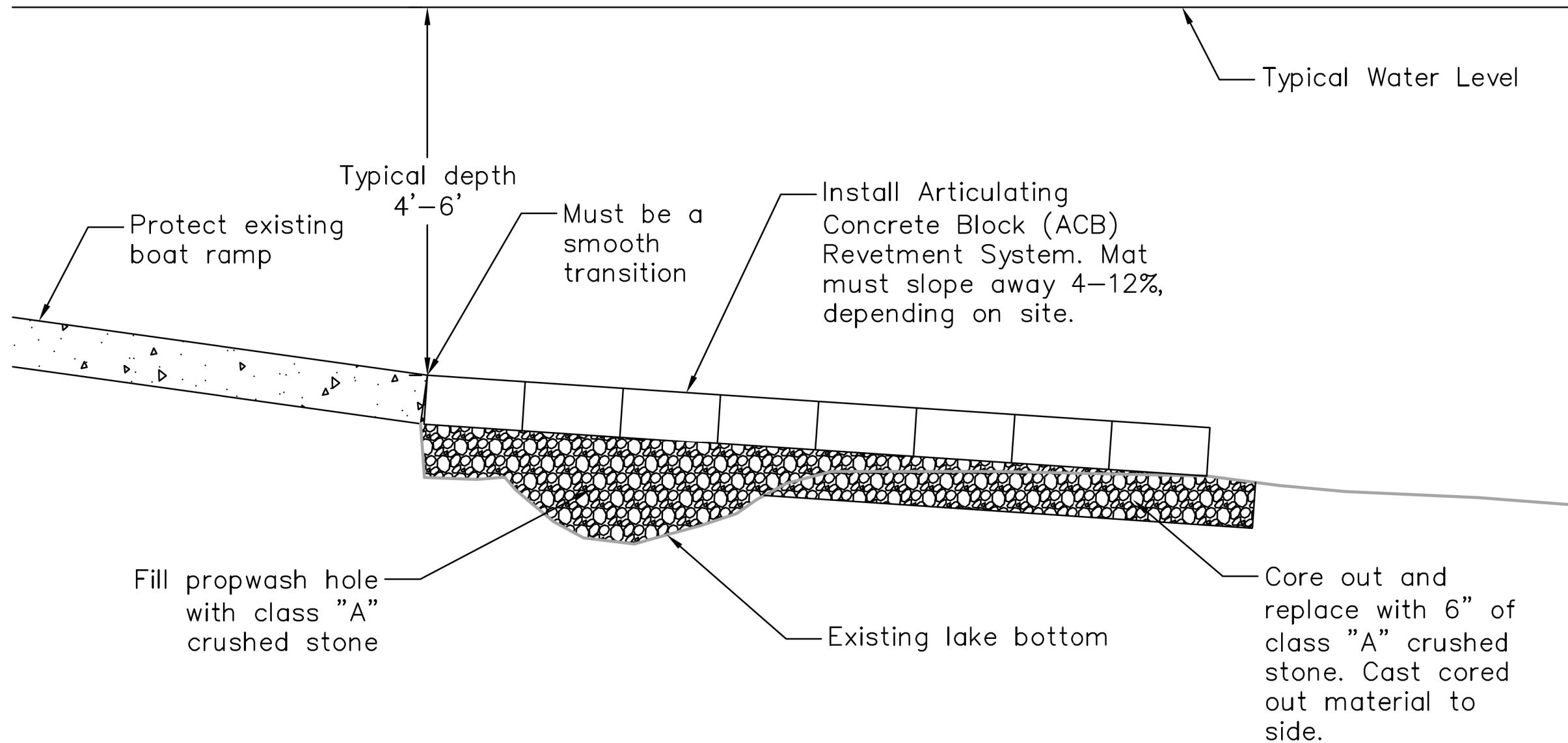
DRAWN BY: PROJECT NUMBER:

24-04-78-01

CHK'D BY: DATE:

SHEET No:

**B.01**



Fill propwash hole with class "A" crushed stone

Existing lake bottom

Core out and replace with 6" of class "A" crushed stone. Cast cored out material to side.

Install Articulating Concrete Block (ACB) Revetment System. Mat must slope away 4-12%, depending on site.

Must be a smooth transition

Typical depth 4'-6'

Protect existing boat ramp

Typical Water Level









