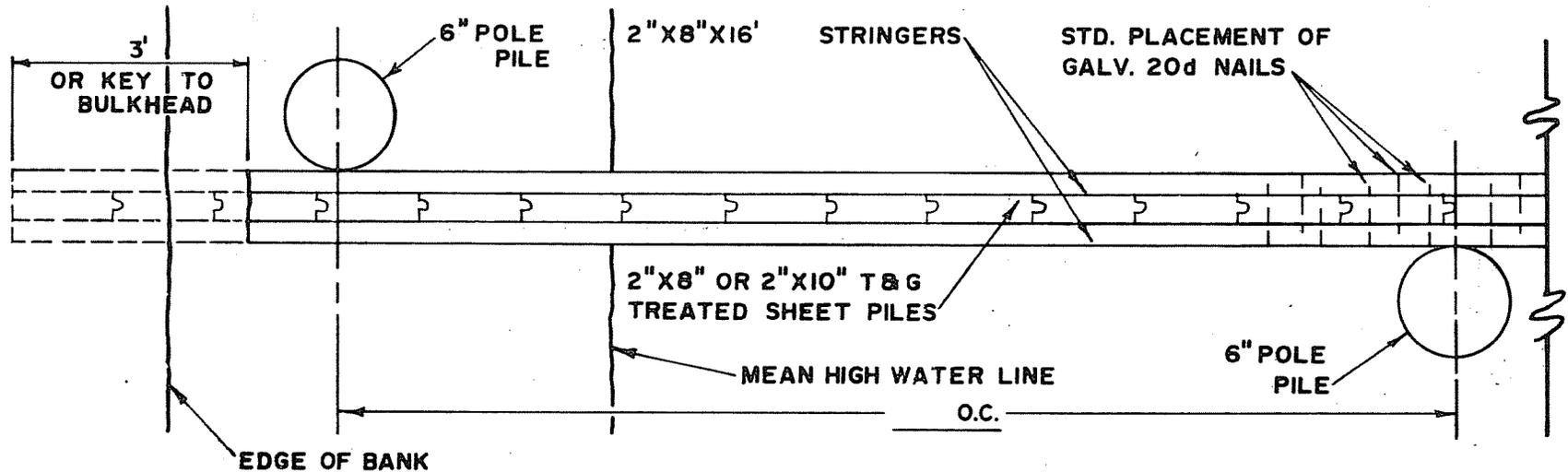


# SHORE EROSION CONTROL GROIN SYSTEM

## TOP VIEW DETAIL



- NOTES: 1. 7/16" DIA. GALV. BOLTS SHALL BE PLACED THROUGH STRINGERS AND SHEET PILES AT EACH BUTT JOINT AND AT EACH POLE PILE. BOLTS SHALL NOT BE PLACED MORE THAN 8 FEET APART.
2. AT NO TIME SHALL POLE PILES BE INSTALLED OPPOSITE BREAK IN STRINGER.

SOIL CONSERVATION SERVICE  
TENTATIVE STANDARD DESIGN

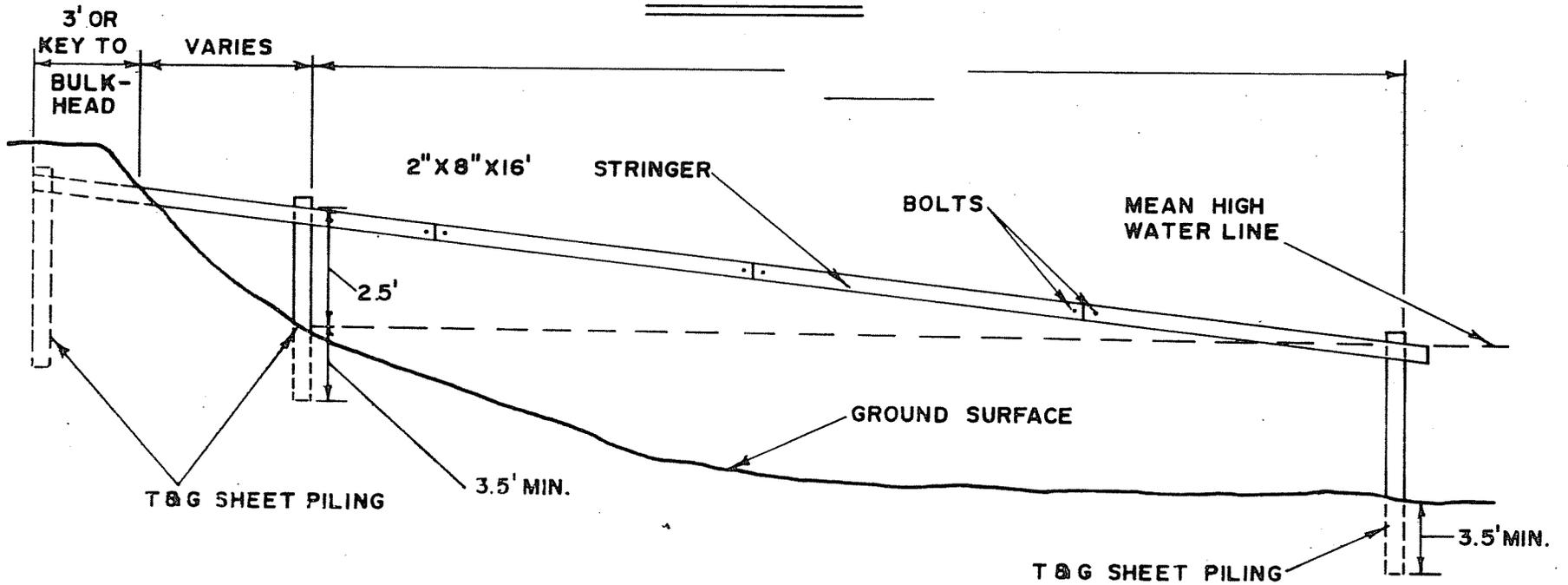
NO SCALE

Approved By \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

# SHORE EROSION CONTROL GROIN SYSTEM

## SIDE VIEW



SOIL CONSERVATION SERVICE  
TENTATIVE STANDARD DESIGN

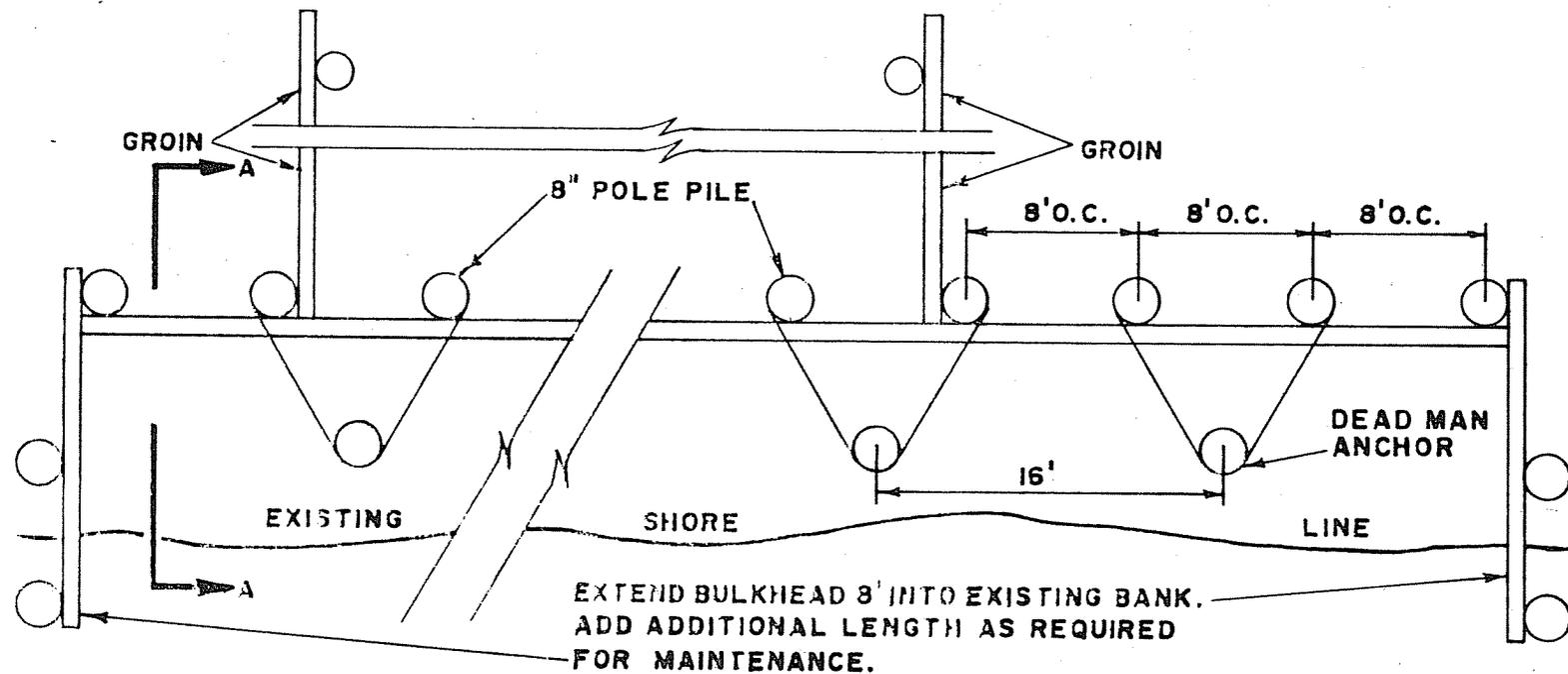
NO SCALE

Approved By \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

Sheet 3 of 3

# SHORE EROSION CONTROL BULKHEAD SYSTEM PLAN VIEW



SOIL CONSERVATION SERVICE  
TENTATIVE STANDARD DESIGN

NO SCALE

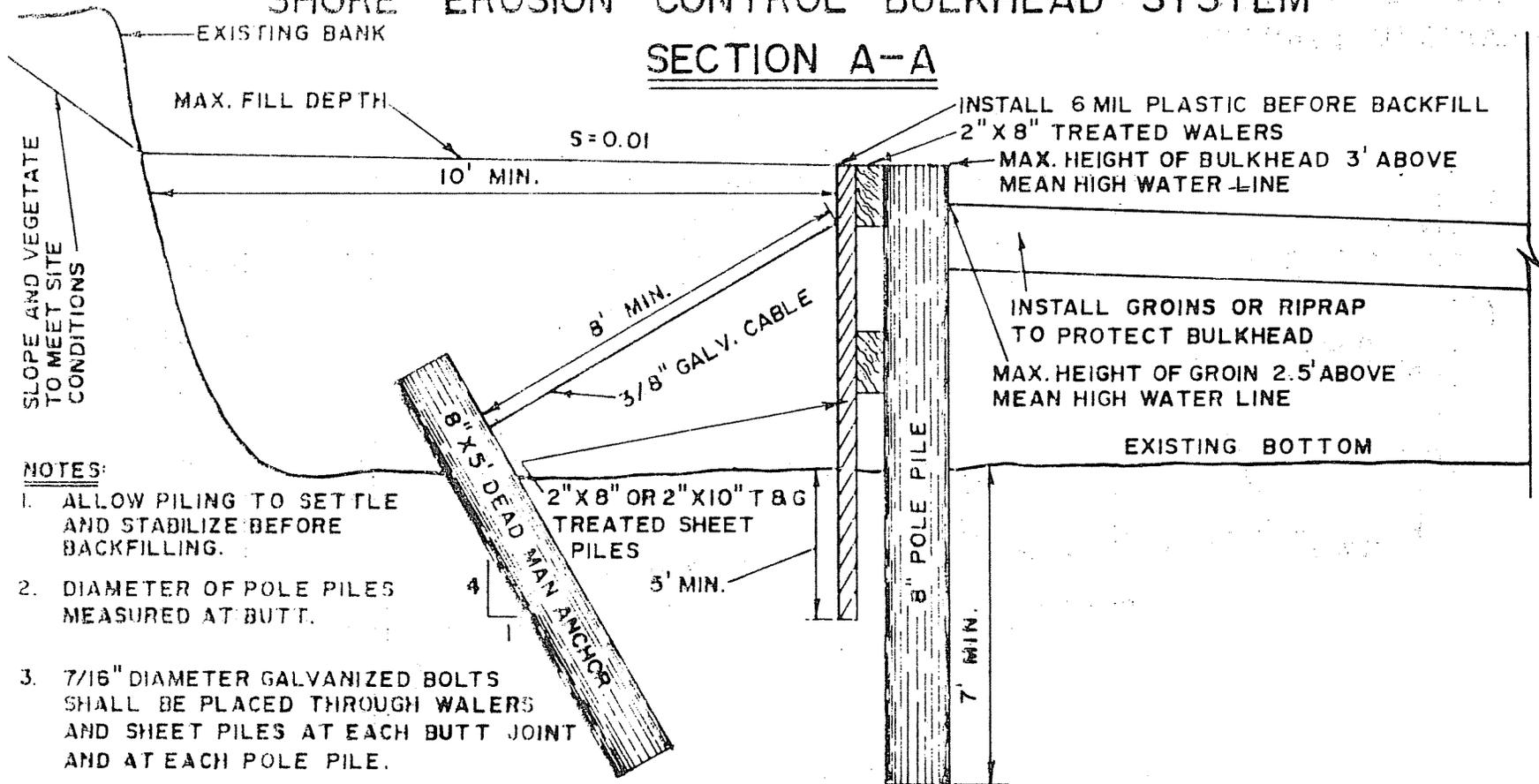
Approved By \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

Sheet 1 of 2

# SHORE EROSION CONTROL BULKHEAD SYSTEM

## SECTION A-A



**NOTES:**

1. ALLOW PILING TO SETTLE AND STABILIZE BEFORE BACKFILLING.
2. DIAMETER OF POLE PILES MEASURED AT BUTT.
3. 7/16" DIAMETER GALVANIZED BOLTS SHALL BE PLACED THROUGH WALERS AND SHEET PILES AT EACH BUTT JOINT AND AT EACH POLE PILE.
4. THIS DESIGN IS LIMITED TO SITES WHERE THE SOIL BACKFILL IS A SANDY MATERIAL HAVING AN ANGLE OF INTERNAL FRICTION GREATER THAN 20°. CLAY SOIL BACKFILL MATERIAL WILL REQUIRE A SPECIAL DESIGN.

SOIL CONSERVATION SERVICE  
TENTATIVE STANDARD DESIGN

NO SCALE

Approved By \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_