

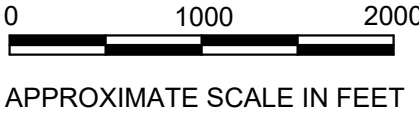


Bid Drawings

Squannacook River Dam

Town of Shirley Phase

Groton, Massachusetts
20 August 2025

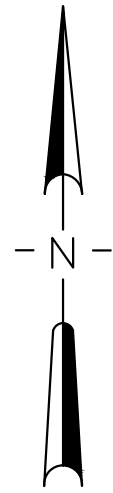


APPROXIMATE SCALE IN FEET

Index of Drawings		
Drawing	Drawing No.	Drawing Title
C-1	1	Cover Sheet and Index
C-2	2	Existing Conditions Plan
C-3	3	Erosion and Water Control Plan
C-4	4	Proposed Conditions Plan
C-5	5	Sections and Details

**HALEY
ALDRICH**

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Tel: 617.886.7400
www.haleyaldrich.com



**HALEY
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Project No.: 35078-020
Scale: AS SHOWN
Date: 20 AUGUST 2025
Autocad File: 35078-000-D027.DWG
Drawn By: BV
Designed By: BV
Checked By: DJB
Approved By: DJB

1	BID DRAWINGS	DJB	8/20/25
Rev.	Description	By	Date

**SQUANNACOOK
RIVER DAM**

Groton, Massachusetts

**EXISTING
CONDITIONS
PLAN**

C-2

2 OF 5

LUNENBURG ROAD

TOWN LINE

FLOW

STONE & MASONRY WALL
WITH CONCRETE CAP

CHAIN LINK
FENCE

TOP OF SPILLWAY
EL. 228.6

LOCATION OF
ROCK OUTCROP

OHW

OMW

OLW

SQUANNACOOK RIVER

LOW LEVEL GATE

SLUICE

6 FT DIAMETER
PIPE PLUGGED
WITH CONCRETE

0 10 20 30 40
SCALE IN FEET

TOP OF
GRANITE BLOCK
RETAINING WALL
EL. 232.2

EXISTING
TREE

CONCRETE
SHIRLEY
SPLASHPAD

WOODS

GROTON
CONCRETE
SPLASHPAD

CONCRETE SLUICE WALL

PENSTOCK

CONCRETE RETAINING WALL

Saved by: DTE
J:\GRAPHICS\35078-020\027-SHEET C2-C5.DWG
Printed: 8/21/2025 11:45 AM
Sheet: C-2

NOTE:

1. BASE DRAWING USED FOR THIS DRAWING FROM DRAWING
TITLED "EXISTING CONDITIONS, GROTON, MASSACHUSETTS",
DATED 1 FEBRUARY 2008 BY DUCHARME & DILLIS CIVIL DESIGN
GROUP, INC. OF BOLTON MASSACHUSETTS AND EMAILED TO
HALEY & ALDRICH, INC. ON 5 FEBRUARY 2008.

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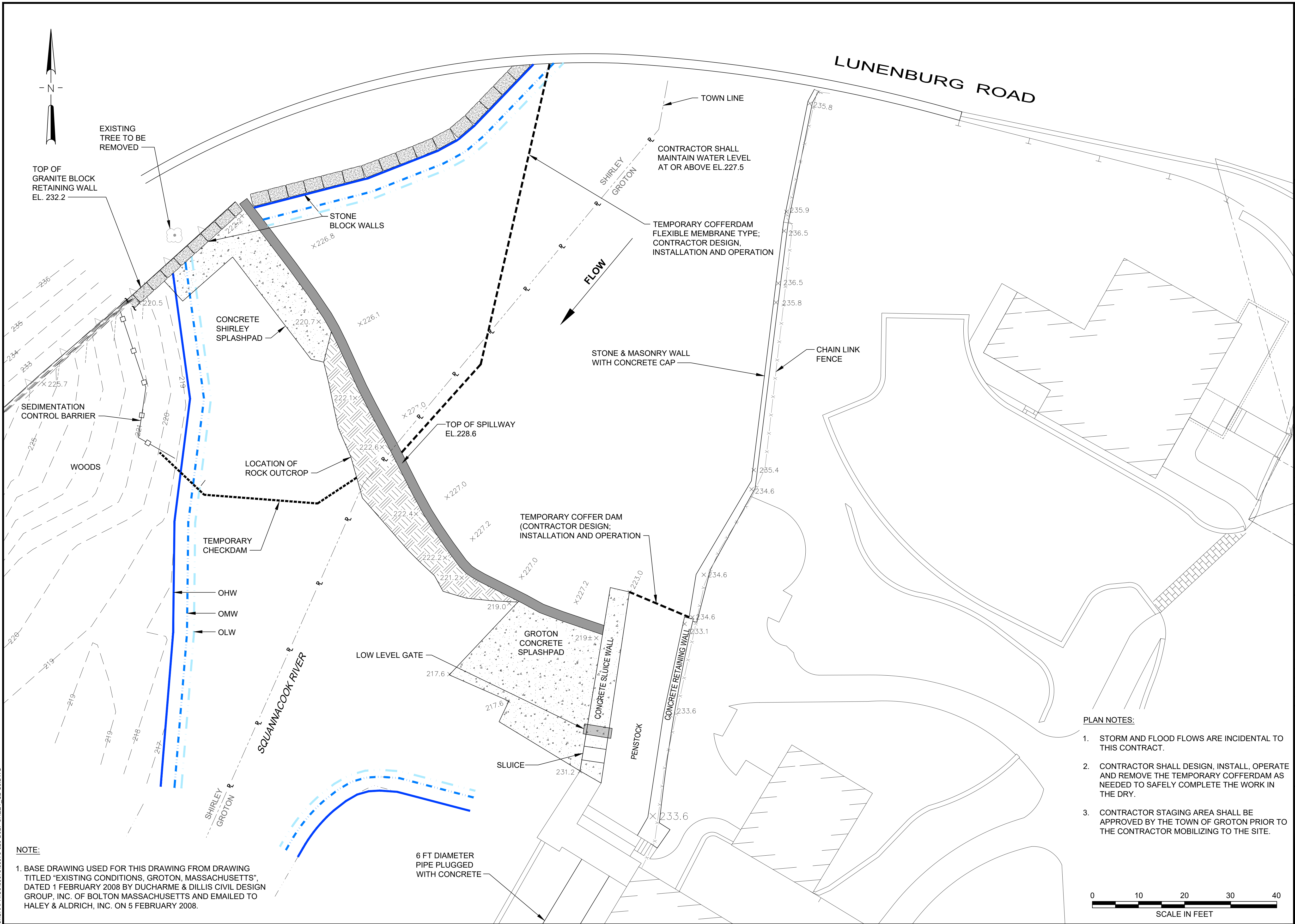
SQUANNACOOK
RIVER DAM

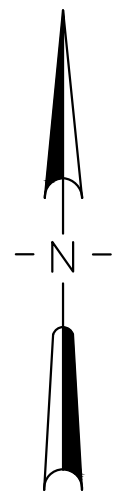
Groton, Massachusetts

EROSION AND
WATER CONTROL
PLAN

C-3

3 OF 5





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**SQUANNAHOOK
RIVER DAM**

Groton, Massachusetts

**PROPOSED
CONDITIONS
PLAN**

C-4

4 OF 5

LUNENBURG ROAD

TOWN LINE

FLOW

STONE & MASONRY WALL
WITH CONCRETE CAP

CHAIN LINK
FENCE

REMOVE
EXISTING TREE

TOP OF
GRANITE BLOCK
RETAINING WALL
EL. 232.2

REPAIR 30 FT OF WALL

REPAIR 70 FT OF WALL

A-A
C-5

B-B
C-5

C-C
C-5

D-D
C-5

CONCRETE
SHIRLEY
SPLASHPAD
DEMO TO 6 IN.
AND REPAIR

DEMO TOP OF
SPILLWAY AND
REPAIR
(SHIRLEY SIDE)

TOP OF SPILLWAY
EL. 228.6

LOCATION OF
ROCK OUTCROP

CONTRACTOR TO
REMOVE EXISTING LOGS
AND DOWNED TREES
FROM RIVER/DAM AREA

LOW LEVEL GATE

CONTRACTOR TO REMOVE
LOW LEVEL GATE AND
GEARS; INSTALL NEW
WHIPPS, INC. MODEL 945
STAINLESS GATE SYSTEM

SLUICE

6 FT DIAMETER
PIPE PLUGGED
WITH CONCRETE

WOODS

OHW

OMW

OLW

SQUANNAHOOK RIVER

SHIRLEY
GROTON

PENSTOCK

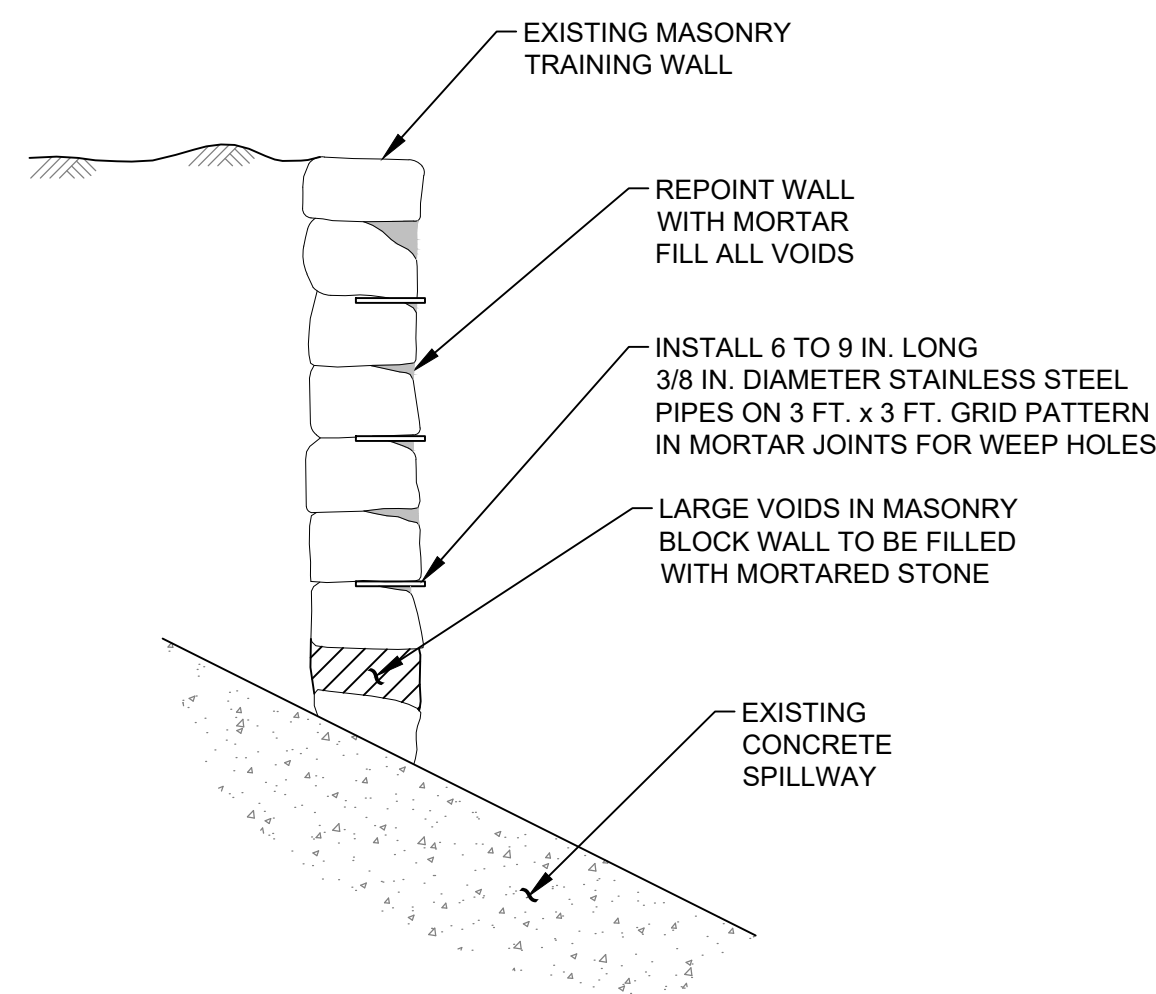
GROTON
CONCRETE
SPLASHPAD

CONCRETE RETAINING WALL

NOTE:

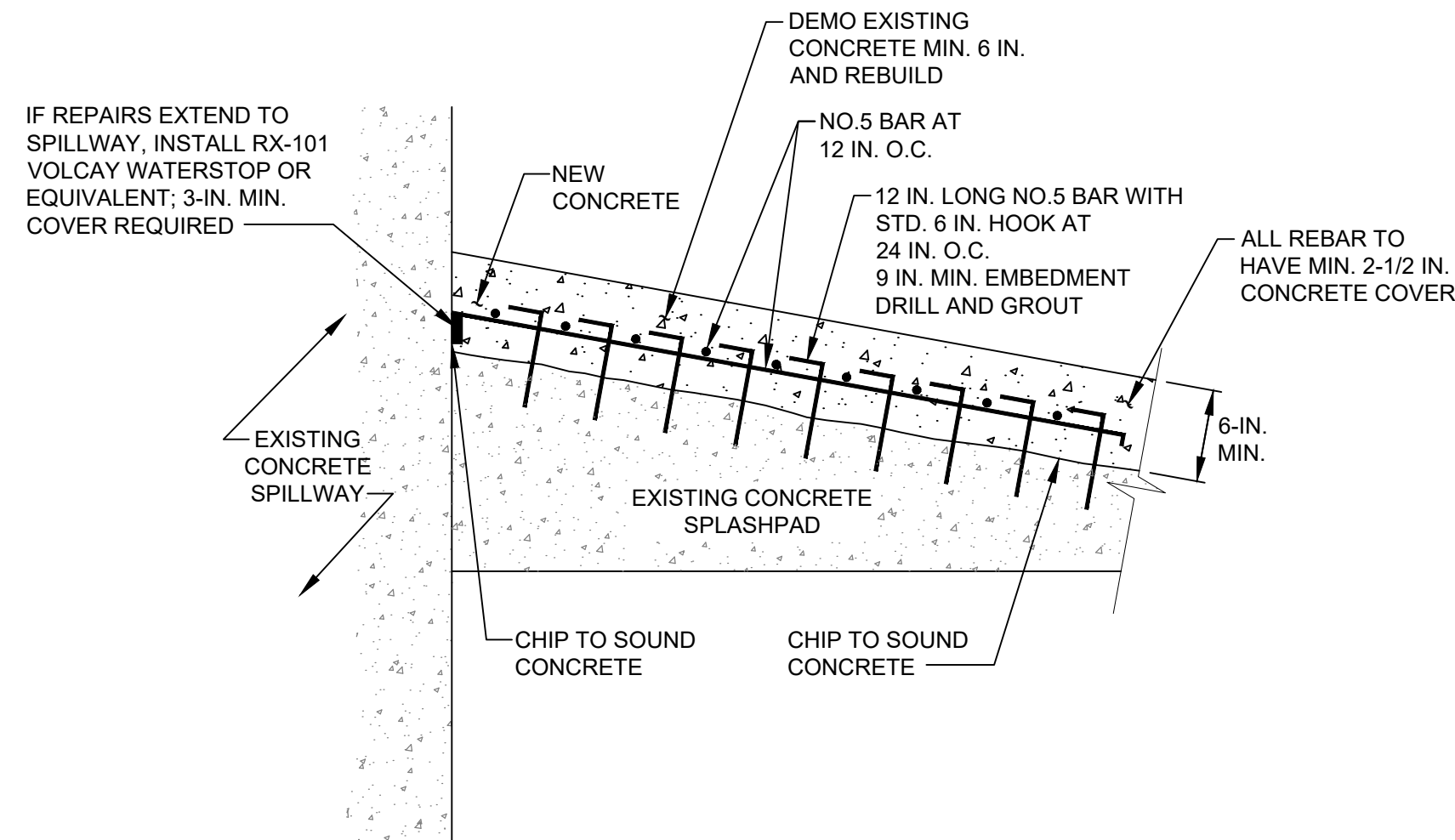
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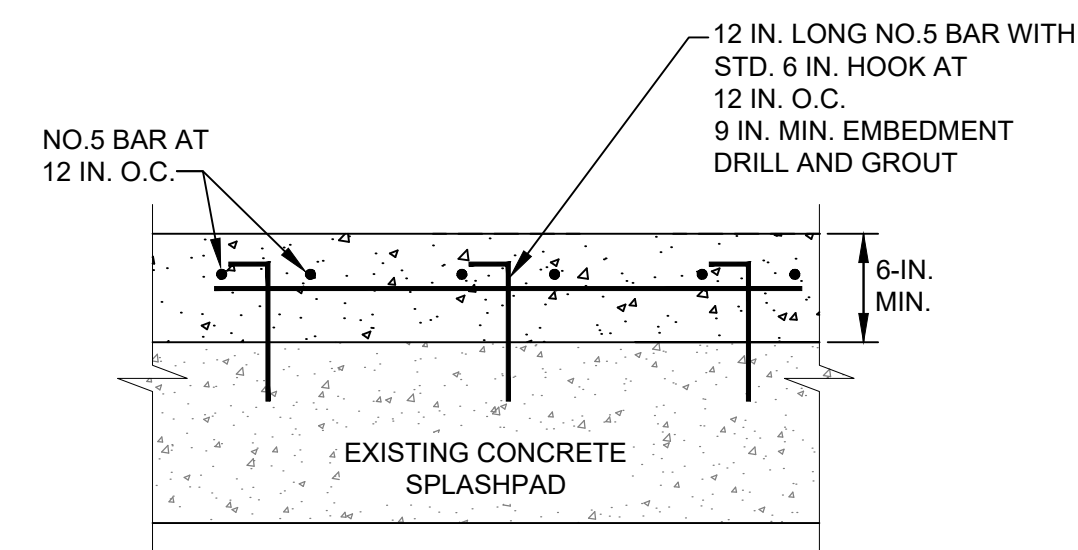
**PROPOSED REPAIRS TO STONE
MASONRY TRAINING WALL**
SECTION VIEW
NOT TO SCALE

A-A
C-4



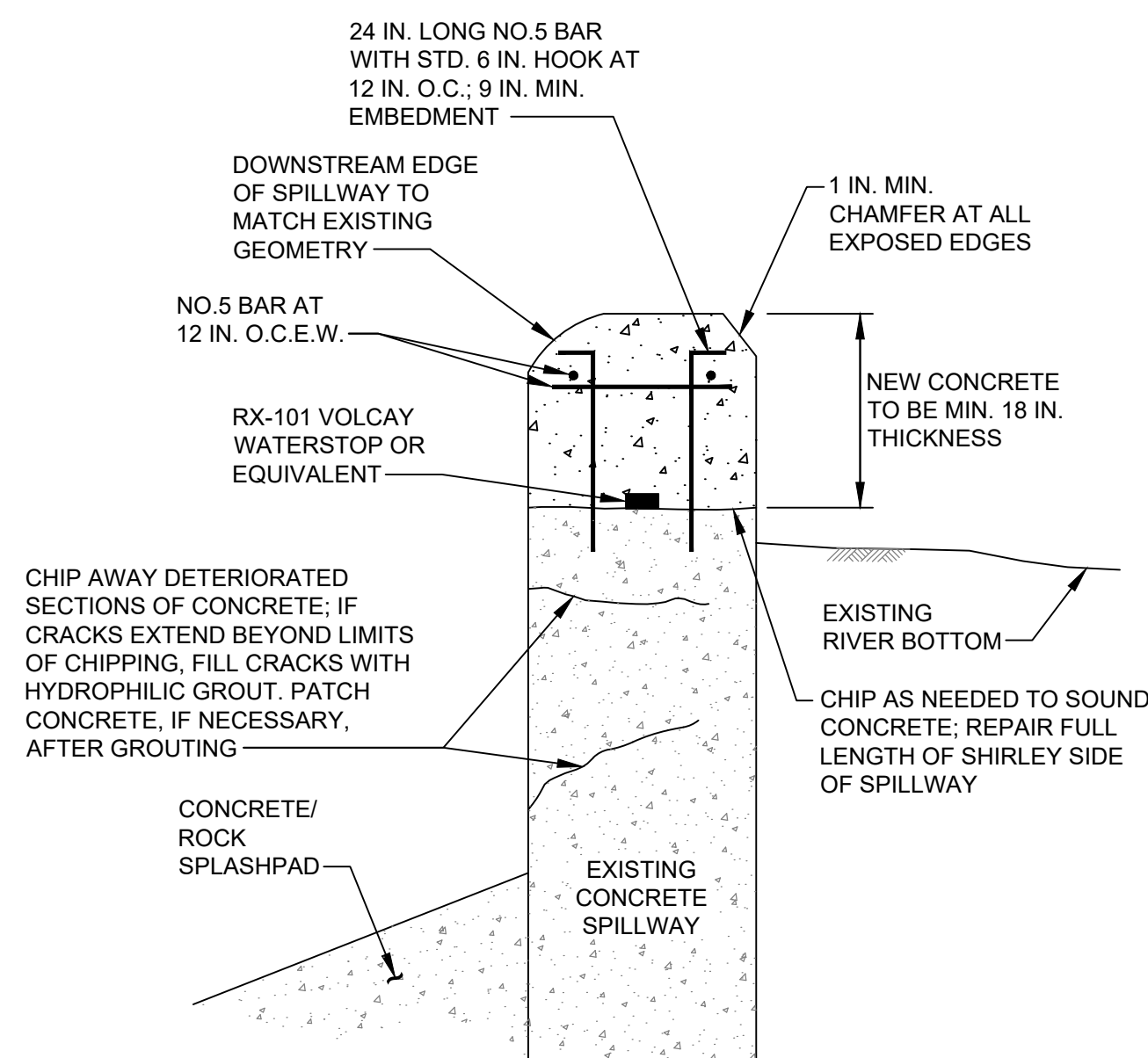
PROPOSED REPAIRS TO SPLASHPAD
SECTION VIEW
NOT TO SCALE

B-B
C-4



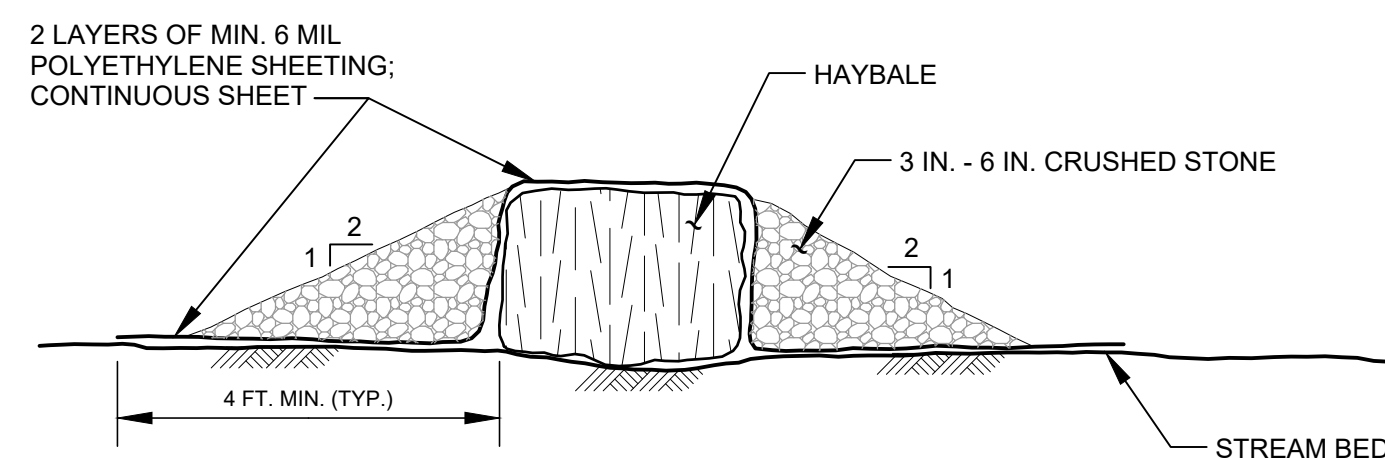
PROPOSED REPAIRS TO SHIRLEY SPLASHPAD
ELEVATION VIEW
NOT TO SCALE

C-C
C-4

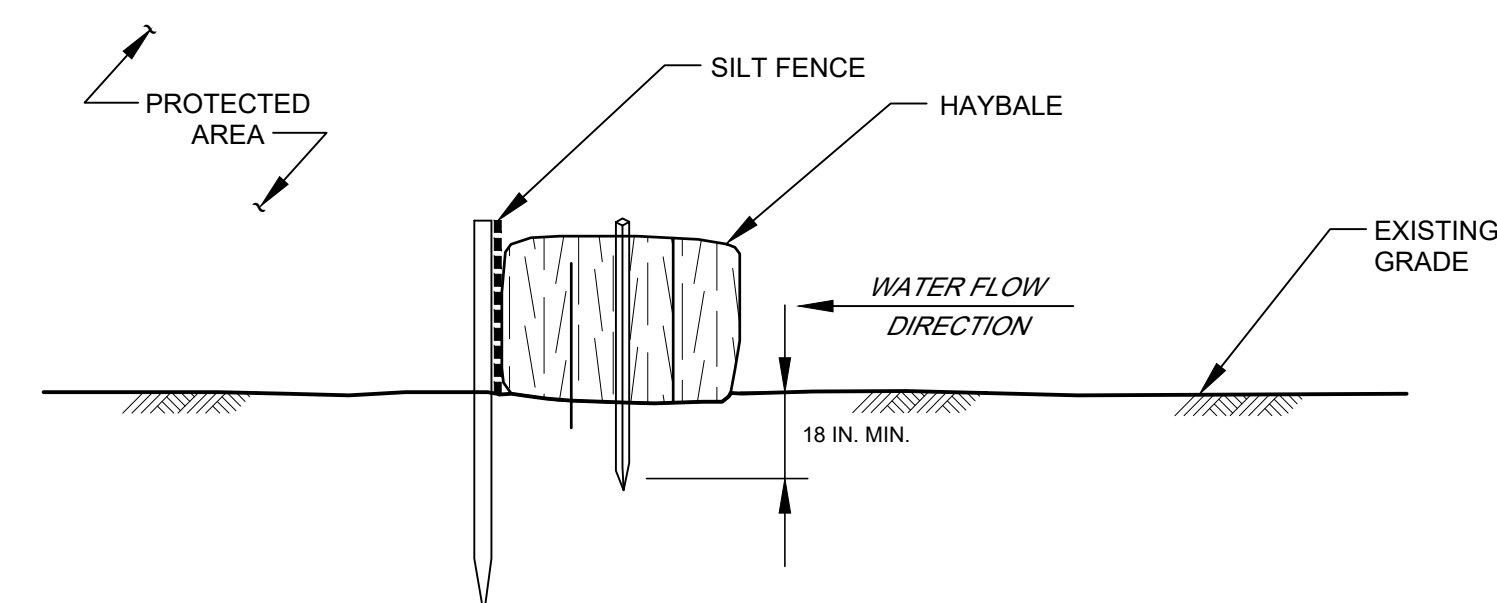


PROPOSED REPAIRS TO CONCRETE SPILLWAY
SECTION VIEW
NOT TO SCALE

D-D
C-4



TEMPORARY RIPRAP CHECK DAM
NOT TO SCALE



SEDIMENTATION CONTROL BARRIER
NOT TO SCALE

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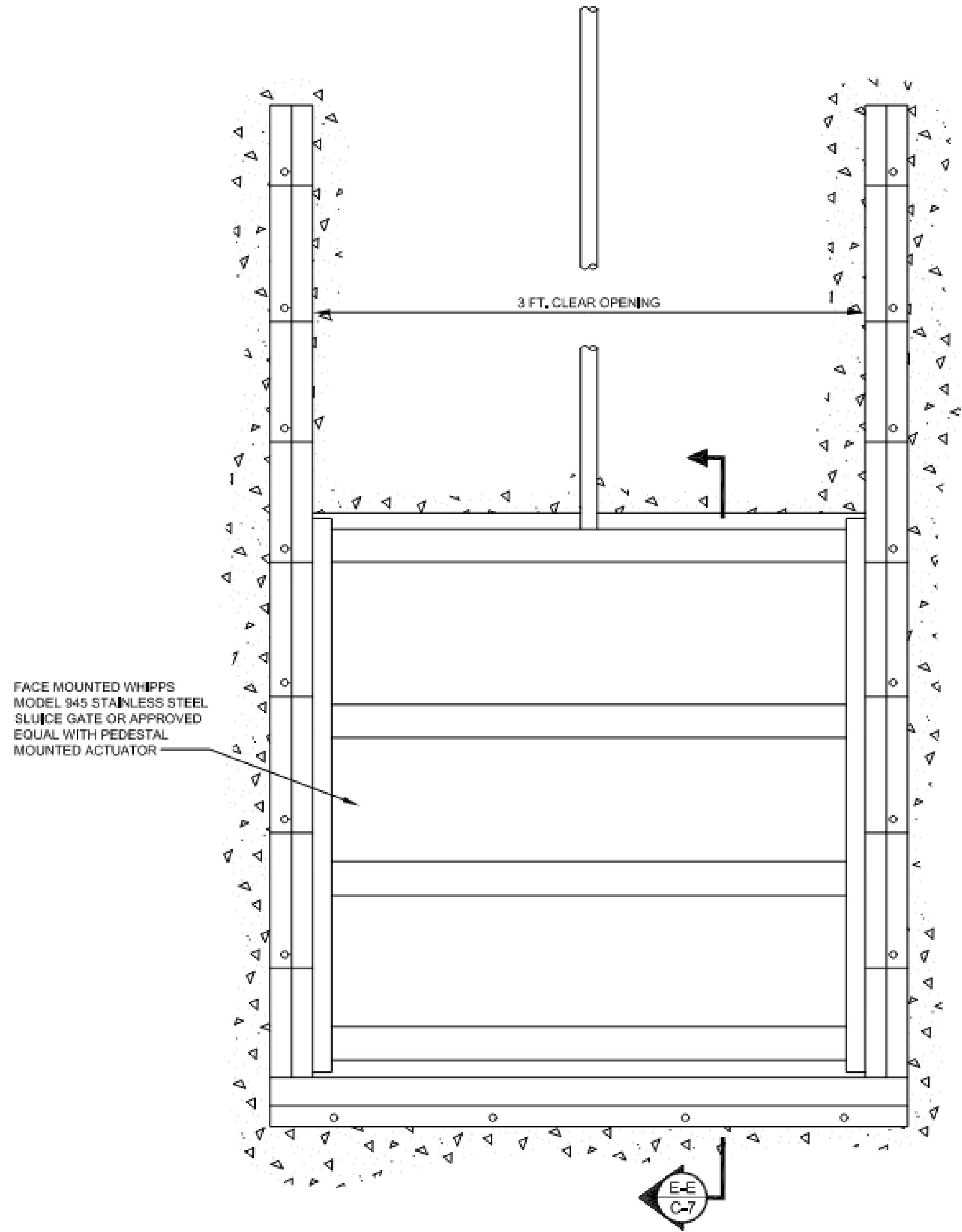
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**SQUANNACOOK
RIVER DAM**

Groton, Massachusetts

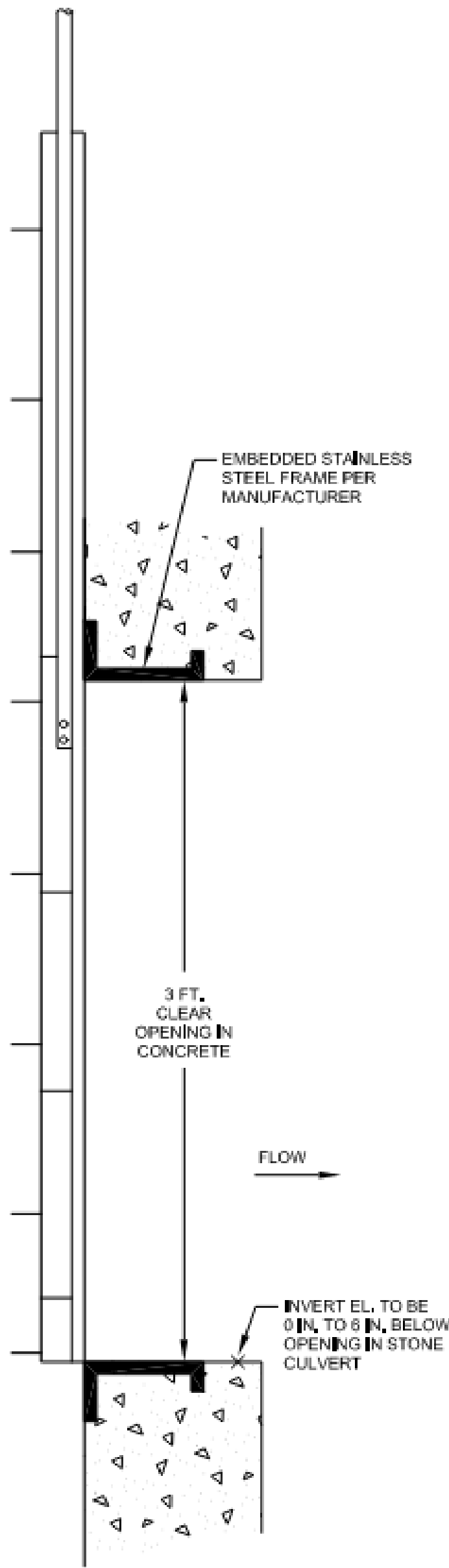
**SECTIONS
AND DETAILS**

C-5



ELEVATION VIEW

TYPICAL NEW GATE
NOT TO SCALE



SECTION VIEW E-E
C-7

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SQUANNA COOK
RIVER DAM
Groton, Massachusetts

SECTIONS
AND DETAILS

C-6