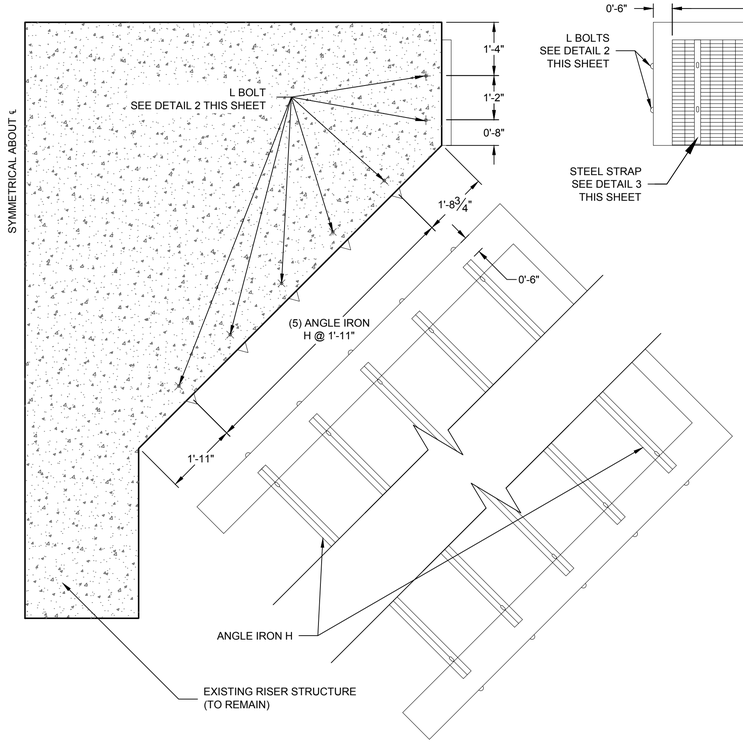
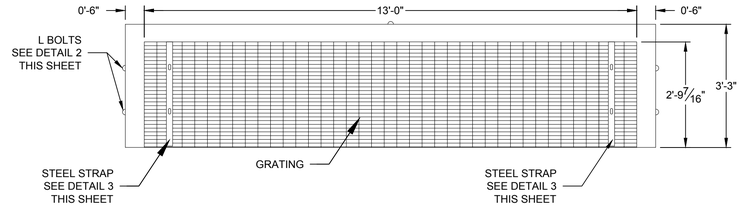


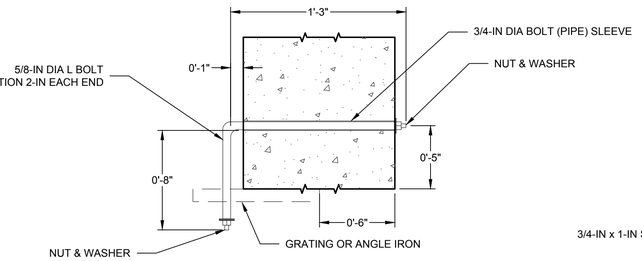
1 HIGH STAGE TRASH RACK DETAIL

SCALE: 1"=2'



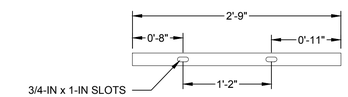
NOTES:

1. HIGH STAGE TRASH RACK COMPONENTS TO BE REPLACED AS SHOWN AND AS SPECIFIED IN CONSTRUCTION SPECIFICATION 81. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS AND PROVIDE SUBMITTAL TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS.
2. REPLACEMENT GRATING TO BE TYPE W/B STEEL GRATING WITH HORIZONTAL BEARING BARS MANUFACTURED BY BORDEN OR APPROVED EQUIVALENT. SIZE TO BE AS SHOWN IN THE TABLE ON THIS SHEET.
3. HIGH STAGE TRASH RACK COMPONENTS TO BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF CONSTRUCTION SPECIFICATION 81.
4. EXISTING L-BOLT HOLES SHOULD BE USED FOR ATTACHMENT OF THE TRASH RACK. EXISTING BOLT (PIPE) SLEEVES MAY BE USED, SUBJECT TO APPROVAL BY THE ENGINEER, IF CAST IN EXISTING CONCRETE.



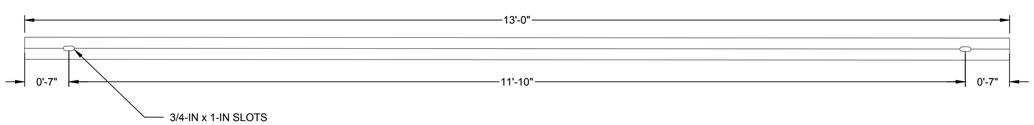
2 GALVANIZED L BOLT DETAIL

SCALE: 1"=6"



3 STEEL STRAP DETAIL

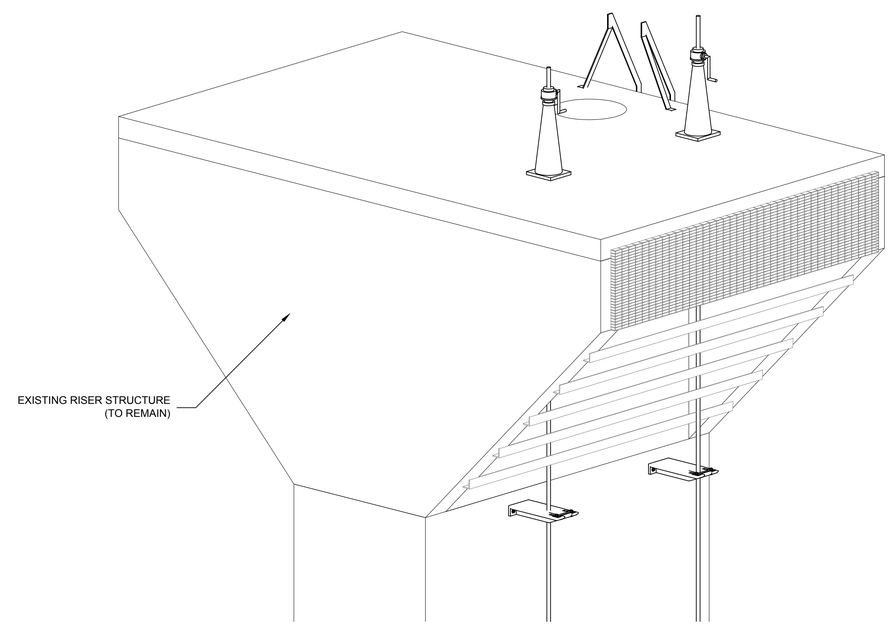
SCALE: 1"=1'0"



4 ANGLE IRON H DETAIL

SCALE: 1"=1'0"

HIGH STAGE TRASH RACK MATERIALS			
ITEM	SIZE	LENGTH	QTY
ANGLE IRON H	$3\frac{1}{2}$" x $3\frac{1}{2}$" x $\frac{3}{8}$"	13'-0"	10
STANDARD GALV BOLT (PIPE) SLEEVE	$\frac{3}{4}$" DIA	9"	2
STANDARD GALV BOLT (PIPE) SLEEVE	$\frac{3}{4}$" DIA	12"	28
L BOLT GAVL. WITH NUTS & WASHERS	$\frac{5}{8}$" DIA	8" x 15"	30
GRATING	1 ~~No. 11~~ $2\frac{1}{4}$" x $\frac{3}{16}$"	$33\frac{7}{16}$" x 13'-0"	2
STEEL STRAP	$\frac{1}{4}$" x 2"	2'-9"	4



NOTE: GATE COMPONENTS, MANHOLE COVER, AND LADDER TO BE REPLACED AS SHOWN ON DWG S-01.

5 HIGH STAGE TRASH RACK ISOMETRIC VIEW

N.T.S.

REV.	DESCRIPTION	DATE
A	REVISED GRATING SIZE	10/2018

DESIGNED BY: NRCS/MD
DRAWN BY: NRCS/NM
CHECKED BY: JMP

JONATHAN M. PITTMAN, P.E.

DATE:

VIRGINIA PROFESSIONAL ENGINEER 041420

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HEARTHSTONE LAKE DAM REHABILITATION
UPPER NORTH RIVER SITE NO. 77
COUNTY OF AUGUSTA, VIRGINIA

RISER RETROFIT - HIGH STAGE TRASH RACK

PROJECT: 17C21026.00
DATE: MAY 2018
DRAWING NO. S-05
SHEET 34 OF 36

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