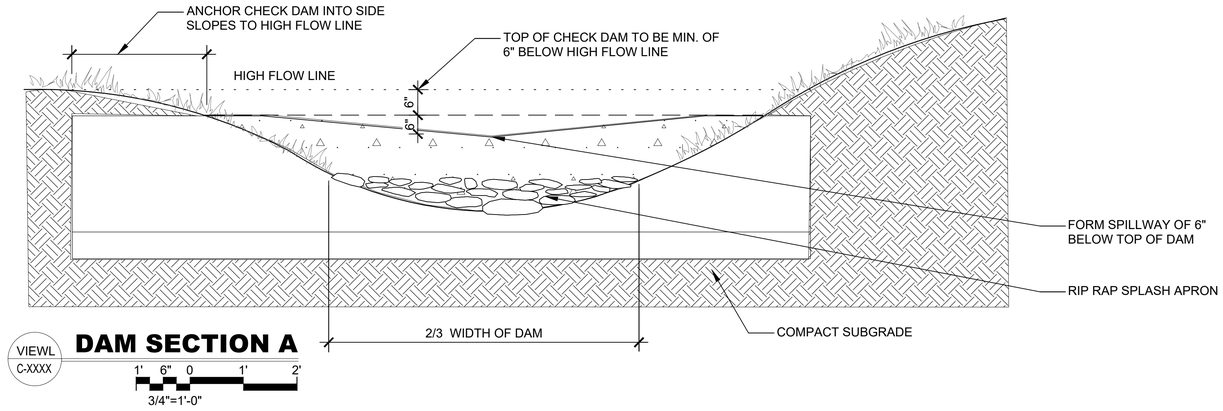
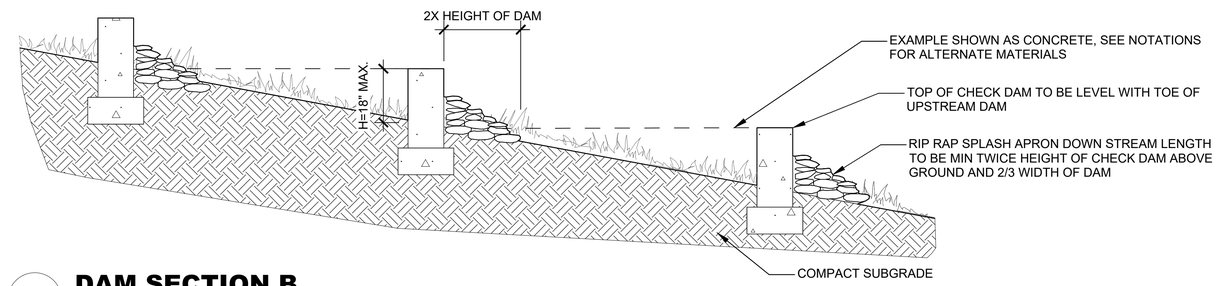
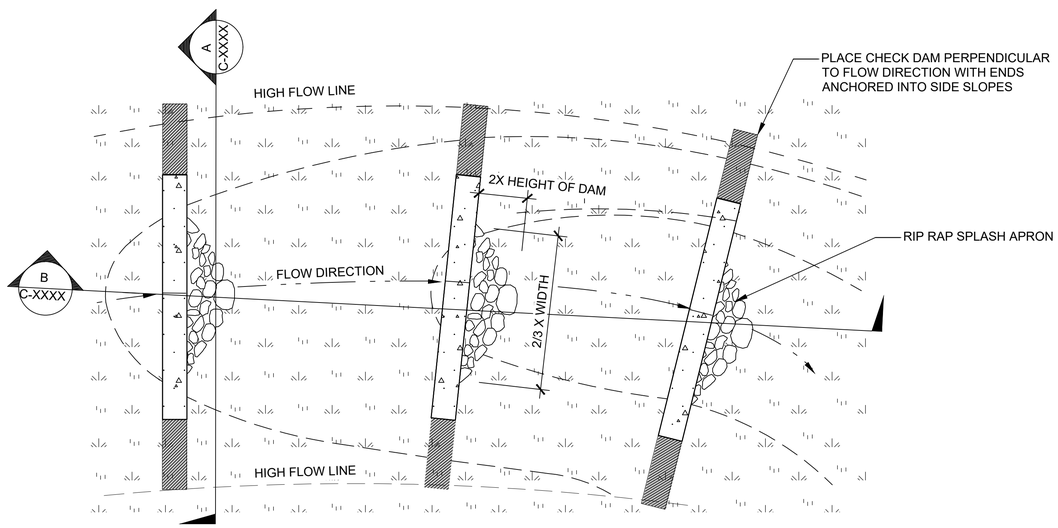


DAM SECTION A



DAM SECTION B



DAM PLAN

GENERAL NOTES:

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.

NOTES FOR DESIGNER:

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

DESIGN LIMITATIONS:

1. TO BE USED WHEN DETAINED WATER HEIGHT IS 18" OR LESS.
2. LONGITUDINAL CHANNEL SLOPE SHOULD BE LESS THAN 8%.

SITING CRITERIA:

1. BEST WHEN PART OF A SERIES OF CHECK DAMS.

DESIGN CRITERIA:

1. CHECK DAM HEIGHT AND SPILLWAY DIMENSIONS TO BE SIZED BASED ON THE VELOCITIES IN THE CHANNEL.
2. CHANNEL VELOCITY SHALL NOT EXCEED MANUFACTURER SPECIFICATIONS FOR ANY MATERIAL USED IN THE CHANNEL.
3. RIP RAP CLASS SIZE SHALL BE MINIMUM NMDOT CLASS A OR DETERMINED BASED ON CHANNEL VELOCITIES.
4. MOST EFFECTIVE WHEN REGULARLY SPACED.
5. NON-WOVEN 8 OZ. MINIMUM, WEIGHT GEOTEXTILE UNDER RIP RAP APRON.
6. CHECK DAM MATERIAL OPTIONS:
   - STONE
   - CONCRETE
   - METAL PLATE
7. IF CONCRETE IS UTILIZED IT SHALL CONFORM WITH LANL REQUIREMENTS. IF STONE IS UTILIZED IT SHALL BE SIZED BASED ON CHANNEL VELOCITIES AND VERTICAL/ HORIZONTAL SHEER CONSIDERATIONS.

CONSTRUCTION CRITERIA:

1. SOILS IN BOTTOM OF SWALE SHOULD NOT BE OVER COMPACTED TO PROMOTE INFILTRATION.
2. IDENTIFY APPROPRIATE MATERIALS AND HOLD POINTS FOR INSPECTION AND APPROVAL DURING CONSTRUCTION.
3. PROVIDE ACCESS FOR MAINTENANCE.

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
				REVISIONS PER [DCF] [DRN] [FCR]					
0				INITIAL ISSUE FOR [DCF-XYZ]					

00% REVIEW
NOT FOR CONSTRUCTION

ENGINEERING STANDARDS

CIVIL
LOW IMPACT DEVELOPMENT
CHECK DAM + V-WEIR

TA-XX BLDG XXXX

DRAWN	E. ATENCIO
DESIGN	T. LEMKE
CHECKED	S. RAEL
DATE	02-10-20

SUBMITTED
DISCIPLINE POC:JOHN O' BRIEN

APPROVED FOR RELEASE
STANDARDS MANAGER: TOBIN ORUCH

Los Alamos NATIONAL LABORATORY
PO Box 1663
Los Alamos, New Mexico 87545

SHEET 1
7 OF 16

D.C.: UNCLASSIFIED | REVIEWER: DONALD YARDMAN | DATE:

PROJECT ID | DRAWING NO ST-G20GEN-1.7 | REV 0