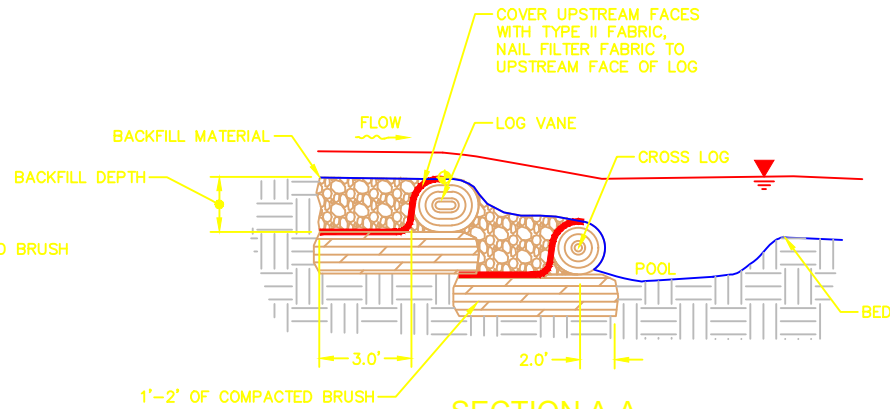


PLAN VIEW



SECTION A-A

NOTES:

1. DEEPEST PART OF POOL TO BE IN LINE WITH WHERE VANE ARM TIES INTO BANKFULL.
2. WELL GRADED MIX OF MATERIALS SHOULD BE USED TO REDUCE VOIDS BETWEEN LOGS.
3. POOL DEPTH SHOULD BE PER THE PROFILE.
4. LOGS SHALL BE 8"-12" IN DIAMETER.

DESIGN VARIABLES

	EXAMPLE	REACH	REACH
BACKFILL MATERIAL ¹	B, 57, E	--	--
BACKFILL DEPTH	12"	--	--
CUT OFF SILL, EMBEDDED LENGTH INTO BANK	4'	--	--
CROSS LOG, EMBEDDED LENGTH INTO TOE OF SLOPE	3'	--	--
VANE LENGTH	8'	--	--
VANE SLOPE ²	1%	--	--
VANE ANGLE	20°	--	--
HEIGHT ABOVE HEADER	0.08'	--	--
MAX. DROP ³	0.1'	--	--

1 WELL MIXED GRADATION (APPROXIMATELY 80% STONE, 20% EARTH) STONE MIX TO BE COMPRISED OF THE SPECIFIED MATERIALS: A = CLASS A RIP-RAP, B = CLASS B RIP-RAP, 57 = #57 STONE E = EARTH. #57 STONE NOT TO EXCEED 10% OF THE STONE MIX. THE REMAINDER OF THE MIX SHALL BE EQUAL PARTS CLASS A AND CLASS B RIP-RAP IF BOTH ARE SPECIFIED OR AS DIRECTED BY THE ENGINEER.

2 SLOPE MEASURE FROM HEADER ELEVATION OVER VANE LENGTH WHERE IT INTERSECTS THE BANK. NOT TO EXCEED 3% (1-2% IS TYPICAL).

3 NOT TO EXCEED 0.2' BASED ON HEAD OF DOWNSTREAM GRADE CONTROL.

*ENGINEER TO ADJUST AS NECESSARY, MINIMUMS CANNOT BE ADJUSTED WITHOUT CITY APPROVAL

NOT TO SCALE



**CHARLOTTE-MECKLENBURG
STORM WATER SERVICES
GENERIC DETAIL REQUIREMENTS**

LOG CROSS VANE

DRAFT - NOT TO BE USED FOR CONSTRUCTION

SHEET NUMBER

1 OF 1

STD. NO. REV.

XX.XX