



CROSS SECTION

NOTES:

1. TIMBER MATS SHALL BE USED FOR TEMPORARY CONSTRUCTION ACCESS TO TRAVERSE WET AND/OR MUDDY AREAS ADJACENT TO THE STREAM AND TO CROSS THE STREAM AND OTHER CONCENTRATED FLOW AREAS. THE DETAIL SHALL BE "FLIPPED" DEPENDING ON WHICH APPROACH TO THE CHANNEL IS WET AND/OR MUDDY. IF BOTH APPROACHES ARE WET AND/OR MUDDY THE TIMBER MAT APPROACH SHALL BE USED ON BOTH SIDES.
2. THE STREAM CROSSING SHALL BE INSTALLED WHEN FLOW IS LOW. THERE SHALL BE MINIMAL TO NO DISTURBANCE OF THE CHANNEL BED AND BANKS AS A RESULT OF INSTALLING THE APPROACHES OR CROSSING.
3. THE LENGTH OF TIMBER MAT REQUIRED TO CROSS THE STREAM OR CONCENTRATED FLOW AREAS SHALL BE SUCH THAT THE TIMBER MAT EXTENDS PAST THE TOP OF BANK ON EACH SIDE OF THE CROSSING A SUFFICIENT DISTANCE TO SUPPORT THE MAXIMUM EQUIPMENT SIZE USING THE CROSSING. OTHER TIMBER MAT DIMENSIONS AND SPECIFICATIONS (INDIVIDUAL TIMBER SIZE, BOLT SPACING, ETC.) SHALL BE PER THE MANUFACTURERS SPECIFICATIONS WITH RESPECT TO THE MAXIMUM EQUIPMENT SIZE USING THE CROSSING.
4. STREAM CROSSINGS SHALL BE INSTALLED WITH THE TIMBER MAT LENGTHS ORIENTED PERPENDICULAR TO THE TOPS OF THE STREAM BANKS. TIMBER MAT STREAM APPROACHES SHALL BE INSTALLED WITH THE TIMBER MAT LENGTHS ORIENTED PARALLEL TO THE TOPS OF THE STREAM BANKS.
5. STREAM CROSSING APPROACHES FROM DRY AREAS SHALL BE CONSTRUCTED USING CLASS B RIP RAP PLACED OVER FILTER FABRIC.
6. ALL TIMBER MATS, FILTER FABRIC, AND RIP RAP SHALL BE COMPLETELY REMOVED FROM THE SITE WHEN THE CROSSING IS REMOVED.

DIMENSION (VALUES TO BE PROVIDED BY DESIGNER)			
VARIABLE	VALUES	TYPICAL UNIT	DESCRIPTION
X1		FT.	TIMBER MAT LENGTH
X2		FT.	TIMBER MAT EXTENSION PAST TOP OF BANK
X3		FT.	TIMBER MAT WIDTH
X4		FT.	WIDTH OF STREAM CROSSING
X5		FT.	TIMBER MAT CARRIAGE BOLT O.C SPACING
X6		FT.	CARRIAGE BOLT INSET
X7		FT.	TIMBER MAT THICKNESS
X8		FT.	LENGTH OF TIMBER MAT APPROACH
X9		FT.	LENGTH OF RIP RAP APPROACH

THIS FIGURE IS ONLY MEANT TO DEFINE THE MINIMUM INFORMATION REQUIRED BY THE CITY OF CHARLOTTE TO BE INCLUDED IN A DETAIL FOR THIS TYPE OF TECHNIQUE. THIS FIGURE IS NOT MEANT TO REPRESENT A STANDARD DESIGN METHOD FOR THIS TYPE OF TECHNIQUE AND SHALL NOT BE USED AS SUCH.

NOT TO SCALE



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

**TIMBER MAT TEMPORARY ACCESS &
STREAM CROSSING**
DRAFT - NOT TO BE USED FOR CONSTRUCTION

SHEET NUMBER	
2 OF 2	
REV. DATE	REV. #