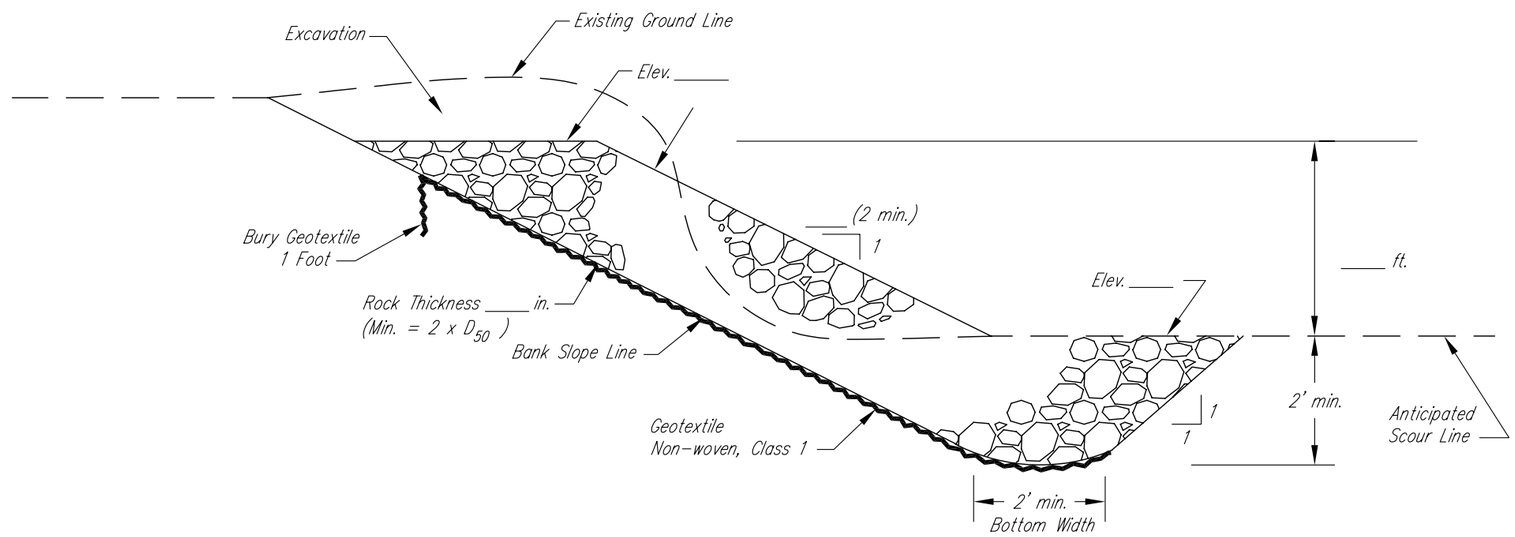

CROSS SECTION

RIPRAP DATA	
D_{50} Rock Size	in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.
ROCK GRADATION	
Rock Size Inches Lbs.	% Smaller (by weight)

* Weight of rock pieces based on 50% cubical and 50% spherical pieces. Specific gravity = 2.65

ESTIMATED QUANTITIES

Length of Bank to be Protected _____ Lin. Ft.

Excavation (Const. Spec. MI-152) _____ Cu. Yds.

Rock Riprap (Const. Spec. MI-164) _____ Cu. Yds.

Geotextile (Const. Spec. MI-165) _____ Sq. Yds.

Engineering Job Class _____

MICHIGAN ENGINEERING STANDARD DRAWING	
FILE NAME MI-720-B 11-08.dwg	
STANDARD DWG. NO. MI-720-B	
DATE 11-08	SHEET 1 OF 1

Date

Designed

Drawn

Checked

Approved

STREAMBANK PROTECTION WITH TOE ROCK RIPRAP D_{50} = ____"

Township, T. ____ -R. ____, Sec. ____ Co., Michigan

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File Name

Drawing Name

Sheet of

Layer Name: 2.Tabl.4 inch

RIPRAP DATA	
D_{50} Rock Size	4 in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.

ROCK GRADATION		
Rock Size Inches	Lbs.	% Smaller (by weight)
8	37	100
6	16	60 – 100
4	5	30 – 50
1	0.1	5 – 25
NO. 4 Sieve		0 – 5

Layer Name: 2.Tabl.6 inch

RIPRAP DATA	
D_{50} Rock Size	6 in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.

ROCK GRADATION		
Rock Size Inches	Lbs.	% Smaller (by weight)
12	125	100
9	50	60 – 100
6	16	30 – 50
1.5	0.2	5 – 25
NO. 4 Sieve		0 – 5

Layer Name: 2.Tabl.8 inch

RIPRAP DATA	
D_{50} Rock Size	8 in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.

ROCK GRADATION		
Rock Size Inches	Lbs.	% Smaller (by weight)
16	300	100
12	125	60 – 100
8	37	30 – 50
2	0.6	5 – 25
NO. 4 Sieve		0 – 5

Layer Name: 2.Tabl.10 inch

RIPRAP DATA	
D_{50} Rock Size	10 in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.

ROCK GRADATION		
Rock Size Inches	Lbs.	% Smaller (by weight)
20	580	100
15	245	60 – 100
10	70	30 – 50
2	0.6	5 – 25
NO. 4 Sieve		0 – 5

Layer Name: 2.Tabl.12 inch

RIPRAP DATA	
D_{50} Rock Size	12 in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.

ROCK GRADATION		
Rock Size Inches	Lbs.	% Smaller (by weight)
24	1,000	100
18	425	60 – 100
12	125	30 – 50
3	2.0	5 – 25
NO. 4 Sieve		0 – 5

Layer Name: 2.Tabl.Blank

RIPRAP DATA	
D_{50} Rock Size	in.
Rock Shape (circle one)	cubical or spherical
Maximum Diameter	in.

ROCK GRADATION		
Rock Size Inches	Lbs.	% Smaller (by weight)

MICHIGAN ENGINEERING STANDARD DRAWING	
FILE NAME MI–720–B 11–08.dwg	
STANDARD DWG. NO. MI–720–B	
DATE 11–08	SHEET 2 OF 1

Date

Designed

Drawn

Checked

Approved

STREAMBANK PROTECTION WITH TOE ROCK RIPRAP D_{50} = ___"

Township, ___ Co., Michigan

T. ___ –R. ___ , Sec. ___

NRCS

Natural Resources Conservation Service
United States Department of Agriculture

File Name

Drawing Name

Sheet of