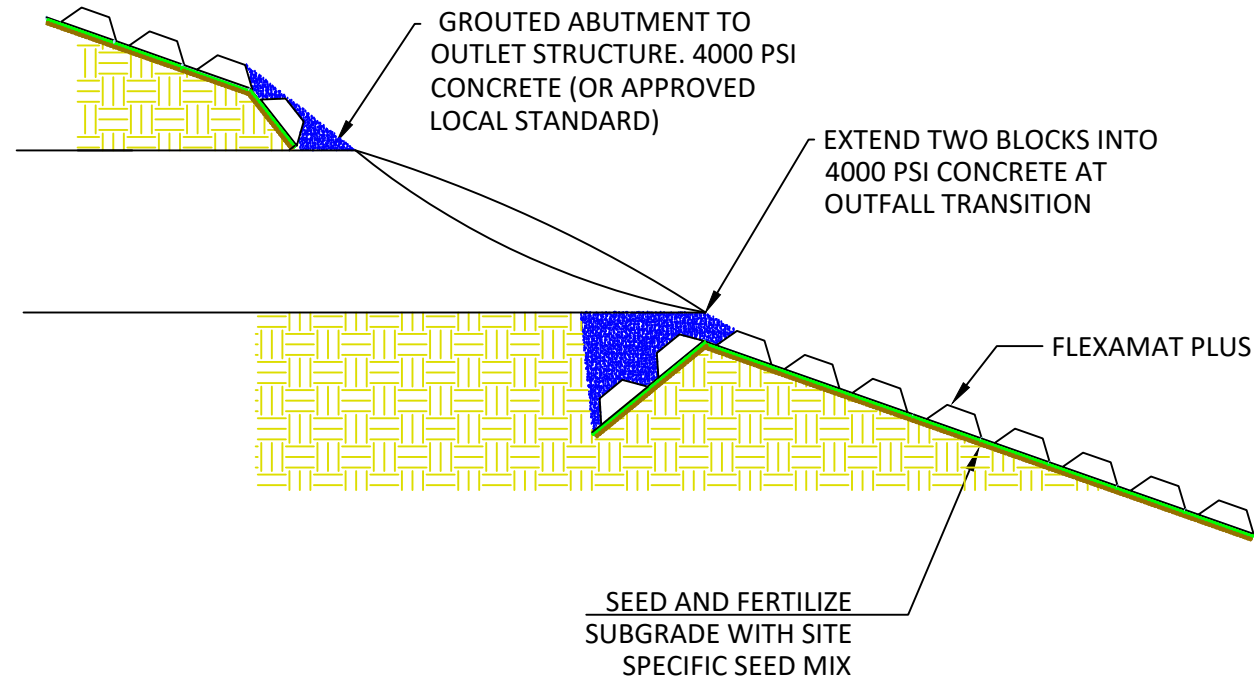
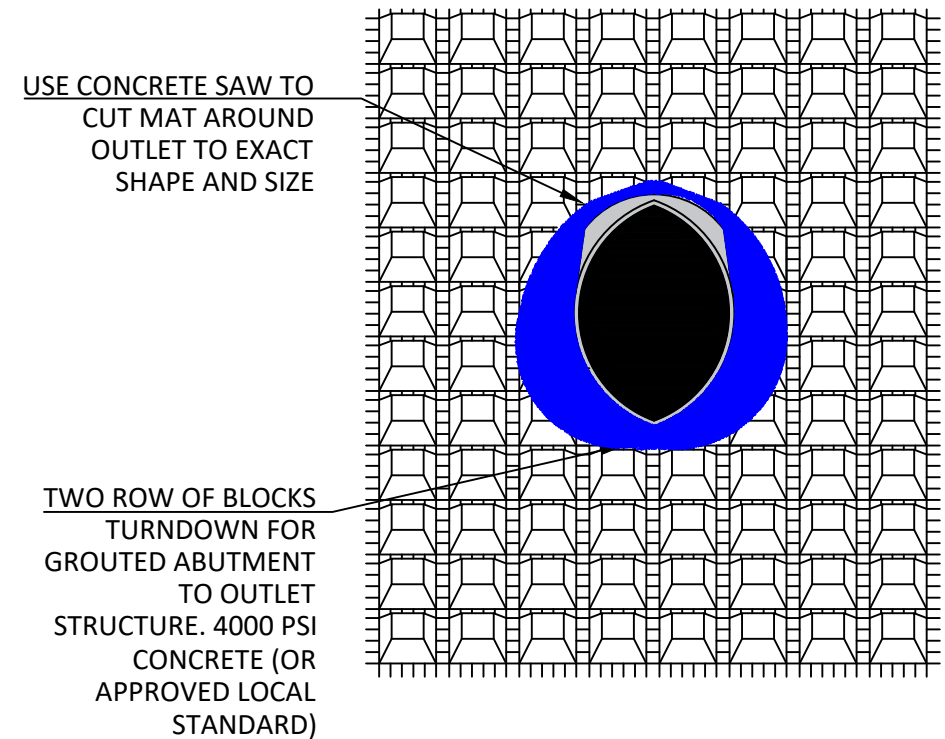


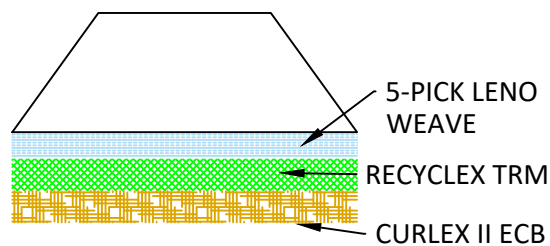
**SIDE VIEW OF OUTLET AND SLOPE PROTECTION**



**FRONT VIEW OF SPLASH PAD AND GROUTED ANCHOR TRENCHES**



**FLEXAMAT PLUS UNDERLAYMENT**



**FLEXAMAT PLUS - PIPE OUTFALL ARMORING**

**CONSTRUCTION NOTES:**

1. GRADE OUTFALL SO THAT WATER WILL FLOW DOWN CENTER OF THE ARMOR AND BE CONTAINED TO THE ARMORED AREA.
2. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
3. PRIOR TO FLEXAMAT PLUS INSTALLATION SEED AND FERTILIZER SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
4. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', AND 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDTHS WIDER THAN 16', INSTALL 15.5' WIDE MAT WITH 12" GEOGRID EXTENSION AND 6" UNDERLAYMENT EXTENSION.
  - 4.1. WHERE POSSIBLE AVOID MAT SEAMS IN ARMORED AREA.
  - 4.2. FOR OUTLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
5. INSTALL FLEXAMAT OVER PIPE OUTFALL AND USE CONCRETE SAW TO CUT MAT TO FIT TIGHTLY AROUND OUTFALL PIPE.
6. USE 4000 PSI CONCRETE (OR APPROVED LOCAL STANDARD) TO GROUT AROUND PIPE OUTFALL.
7. AT THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOW FROM PIPE OUTFALL, EMBEDDED TWO BLOCKS INTO INTO 4,000 PSI CONCRETE.
8. AT THE END OF THE ARMORED PIPE OUTFALL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH A COHESIVE FILL.

**GUIDANCE TABLE**

PIPE DIAMETER	CFS	FLEXAMAT WIDTH
12"	8 CFS	5.5'
18"	20 CFS	8'
24"	30 CFS	8'
36"	75 CFS	12'
48"	100 CFS	16'
60"	150 CFS	20'

\*CONSULT MANUFACTURER FOR GUIDANCE IF DESIGN DISCHARGE VARIES SIGNIFICANTLY FROM VALUES LISTED IN TABLE.

\*LENGTH OF PROTECTION WILL VARY ON THE LENGTH OF THE SLOPE, DEGREE OF SLOPE, OR IF IT IS DISCHARGING ONTO A FLAT AREA. OUTFALLS DISCHARGING ONTO SLOPES, IT IS RECOMMENDED TO EXTEND FLEXAMAT PLUS THE LENGTH OF THE SLOPE AND 3' PAST THE TOE.

**MOTZ ENTERPRISES, INC.**

Flexamat

(513)772-6689

Info@Flexamat.com

Flexamat.com

