

#### CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. 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.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO TIED CONCRETE EROSION CONTROL MAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL TIED CONCRETE EROSION CONTROL MAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDER WIDTHS, INSTALL MATS ADJACENT TO EACH OTHER. (CONTACT MANUFACTURER FOR DETAIL ADDRESSING LONGITUDINAL SEAMS.)
4. AT THE TOP OF THE CHANNEL, THE INITIAL LEADING EDGE OF TIED CONCRETE EROSION CONTROL MAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
5. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
6. INSTALL 18" "U" ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
7. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL. (DETERMINED BY EOR)

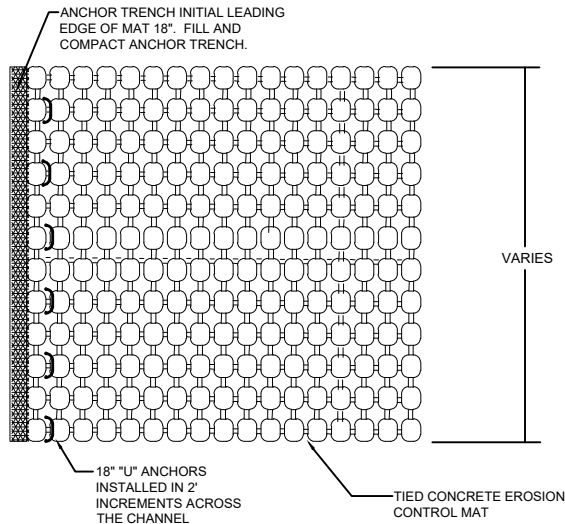
## TIED CONCRETE EROSION CONTROL MAT CHANNEL DETAIL

SEPTEMBER 2022

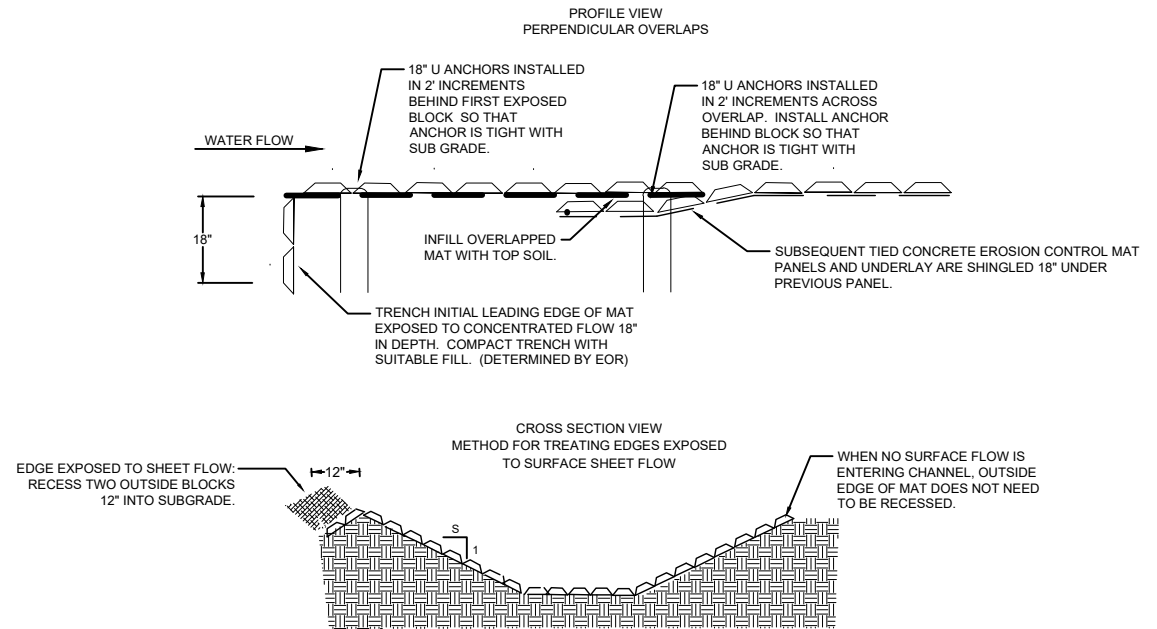


TOWN OF WESTLAKE  
1500 SOLANA BOULEVARD  
BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

CHANNEL  
DETAIL  
WTC-01



## TIED CONCRETE EROSION CONTROL MAT LETDOWN CHANNEL DETAIL



### CONSTRUCTION NOTES:

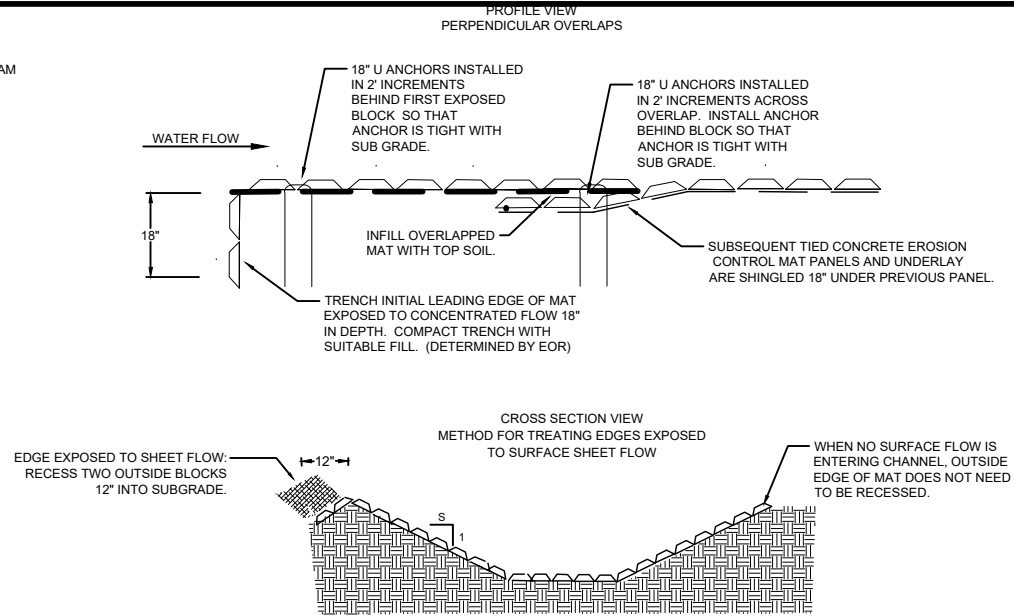
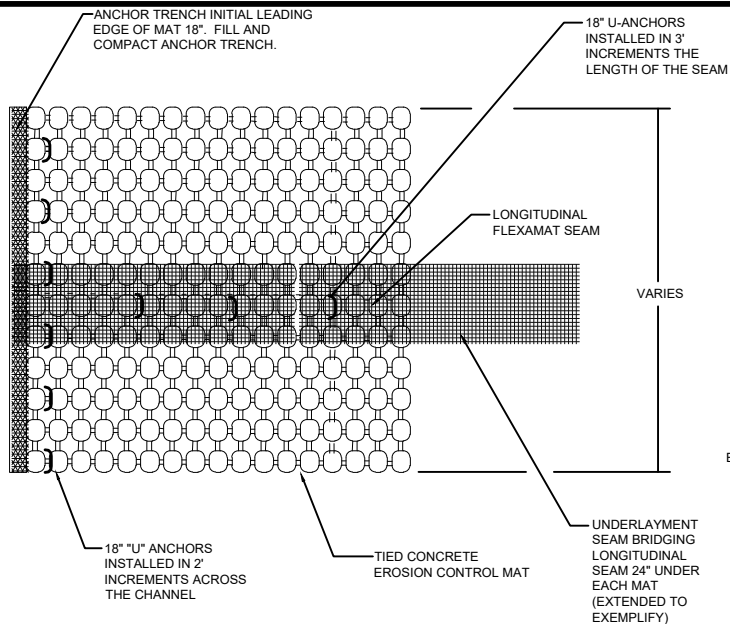
1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO TIED CONCRETE EROSION CONTROL MAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL TIED CONCRETE EROSION CONTROL MAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDER WIDTHS, INSTALL MATS ADJACENT TO EACH OTHER. (CONTACT MANUFACTURER FOR DETAIL ADDRESSING LONGITUDINAL SEAMS.)
4. AT THE TOP OF THE CHANNEL, THE INITIAL LEADING EDGE OF TIED CONCRETE EROSION CONTROL MAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
5. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
6. INSTALL 18" "U" ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
7. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL.
8. FOR APPLICATIONS WHERE TERRACES DIRECT WATER FLOW INTO THE MAIN TIED CONCRETE EROSION CONTROL MAT CHANNEL, THE EARTHEN BERMS MUST BE ARMORED WITH TIED CONCRETE EROSION CONTROL MAT TO THE TOP OF THE BERM.

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TOWN OF WESTLAKE  
1500 SOLANA BOULEVARD  
BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

CHANNEL  
DETAIL  
WTC-02



## TIED CONCRETE EROSION CONTROL MAT LETDOWN DETAIL WIDER THAN 16'

### CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. 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 WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO TIED CONCRETE EROSION CONTROL MAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL TIED CONCRETE EROSION CONTROL MAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS.
  - 3.1. FOR WIDTHS WIDER THAN 16', INSTALL MATS ADJACENT TO ONE ANOTHER. BRIDGE LONGITUDINAL SEAM WITH 48" UNDERLAYMENT. 24" OF UNDERLAYMENT SHALL BE UNDER EACH MAT AND DIRECTLY AGAINST THE SUBGRADE.
  - 3.2. INSTALL 48" WIDE GEOGRID SEAM OVER 48" UNDERLAYMENT SEAM.
  - 3.3. FLIP TIED CONCRETE EROSION CONTROL MAT SECTIONS BACK INTO PLACE SO THAT THEY FIT TIGHTLY.
4. SECURE TIED CONCRETE EROSION CONTROL MAT TO SEAM BY INSTALLING 18" U-ANCHORS IN 3' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. U-ANCHORS CONSIST OF #3 REBAR SHAPED INTO A U WITH 18" LEGS.
5. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF TIED CONCRETE EROSION CONTROL MAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR). INSTALL 18" U-ANCHORS DIRECTLY BEHIND FIRST ROW OF BLOCKS EXTENDING FROM ANCHOR TRENCH.
6. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
7. INSTALL 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS.
8. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL.
9. FOR APPLICATIONS WHERE TERRACES DIRECT WATER FLOW INTO THE MAIN TIED CONCRETE EROSION CONTROL MAT CHANNEL, THE EARTHEN BERMS MUST BE ARMORED WITH FLEXAMAT TO THE TOP OF THE BERM.

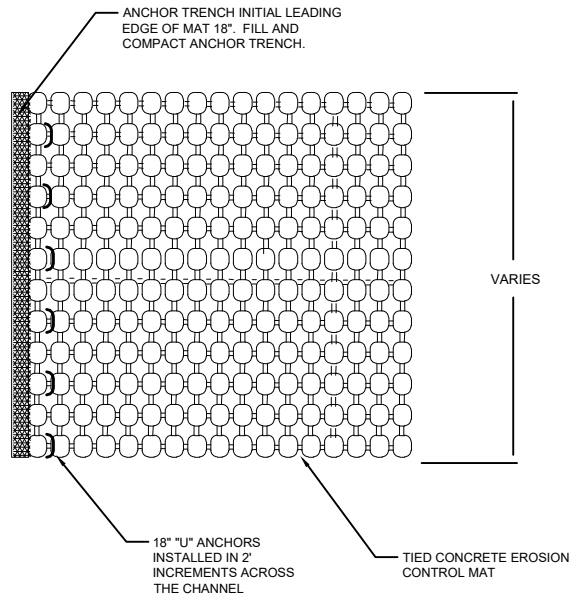
SEPTEMBER 2022



TOWN OF WESTLAKE  
1500 SOLANA BOULEVARD  
BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

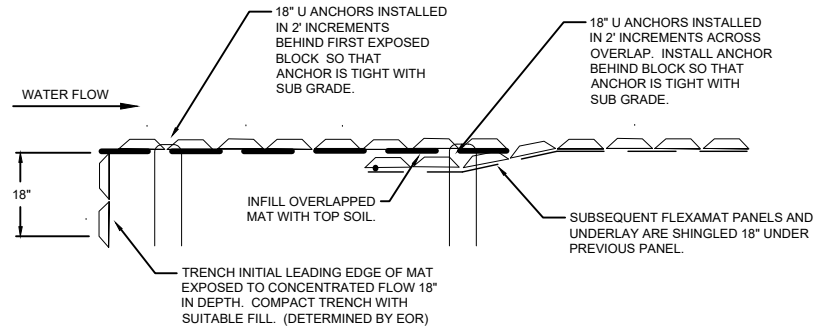
CHANNEL  
DETAIL  
WTC-03

**INITIAL PERPENDICULAR EDGE  
EXPOSED TO CONCENTRATED FLOW**

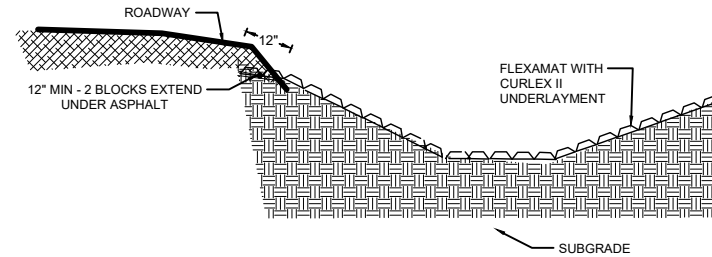


**TIED CONCRETE  
EROSION CONTROL MAT  
ROADSIDE CHANNEL  
DETAIL**

**PERPENDICULAR SEAM OVERLAPS**



**LONGITUDINAL EDGE ADJACENT WITH ROADWAY**



**CONSTRUCTION NOTES:**

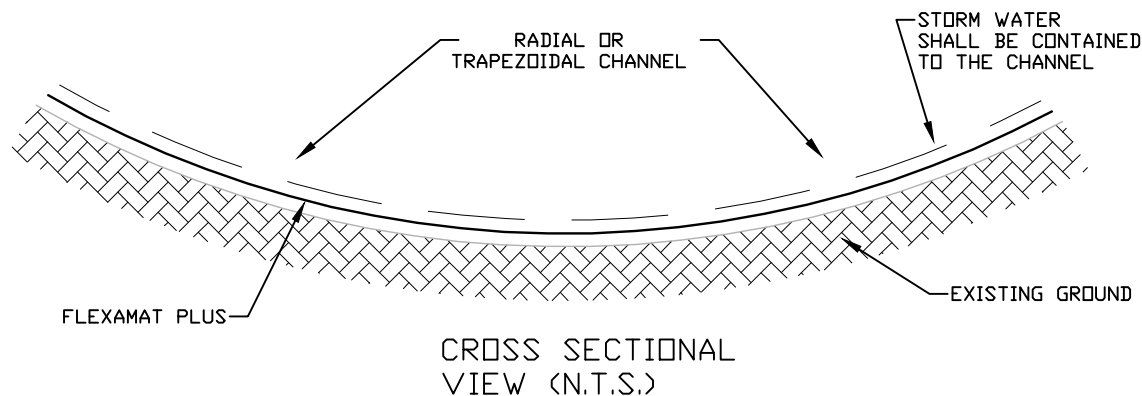
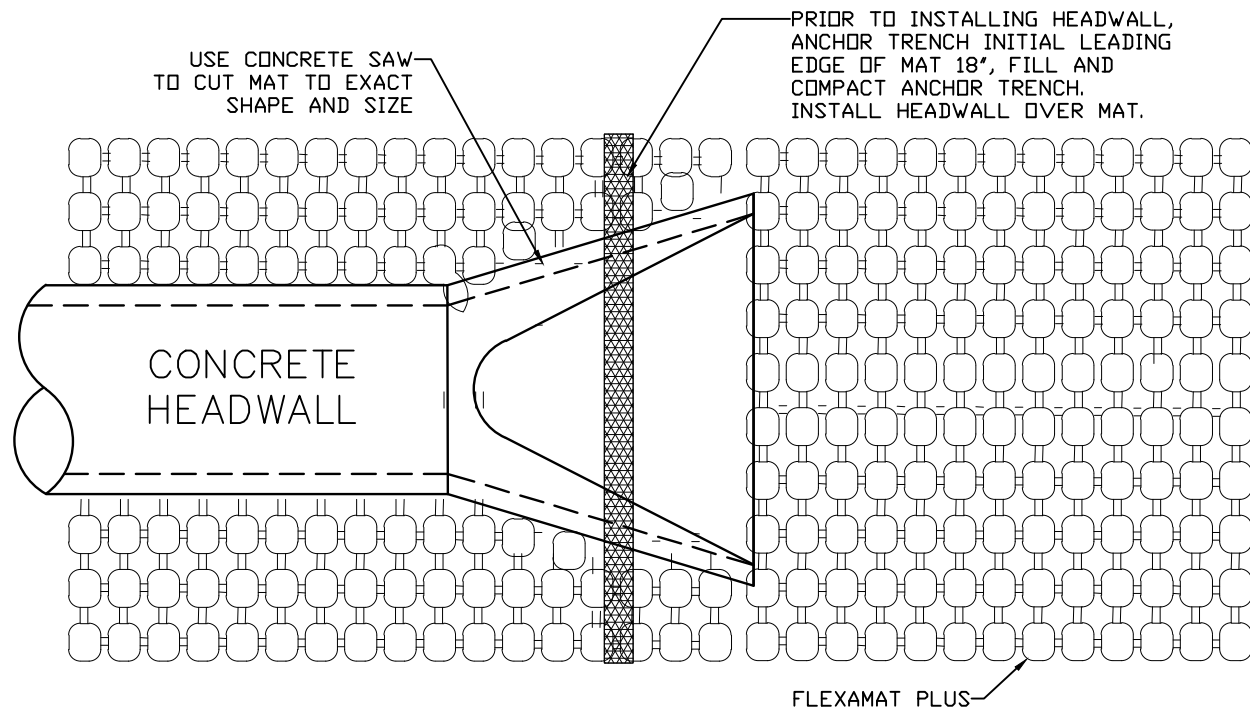
1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDER WIDTHS, INSTALL MATS ADJACENT TO EACH OTHER. (CONTACT MANUFACTURER FOR DETAIL ADDRESSING LONGITUDINAL SEAMS.)
4. AT THE TOP OF THE CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
5. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
6. INSTALL 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
7. EXTEND ASPHALT OVER 12" OF MAT DIRECTLY ADJACENT TO ROADWAY. ASPHALT SHALL BE MINIMUM OF 2" THICK OVER TOP OF FLEXAMAT BLOCKS. FINISHED ASPHALT SPREAD SHALL BE FLUSH WITH ROADWAY.
8. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL.

SEPTEMBER 2022



TOWN OF WESTLAKE  
1500 SOLANA BOULEVARD  
BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

ROADSIDE  
CHANNEL  
DETAIL  
WTC-04



#### CONSTRUCTION NOTES:

1. GRADE OUTFALL AREA SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. 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 WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE .
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. PRIOR TO INSTALLING HEADWALL, ANCHOR TRENCH INITIAL LEADING EDGE OF MAT 18", FILL AND COMPACT ANCHOR TRENCH. INSTALL HEADWALL OVER MAT.
4. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS. A CONCRETE SAW SHALL BE USED TO CUT THE MAT TO EXACT SIZE AND SHAPE.
5. APPLICATIONS WHERE OUTFALLS FLOW INTO RETENTION PONDS, EXTEND FLEXAMAT A MINIMUM OF 3' BELOW LOW WATER ELEVATION.

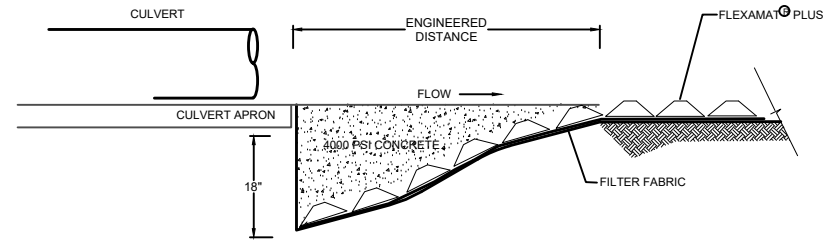
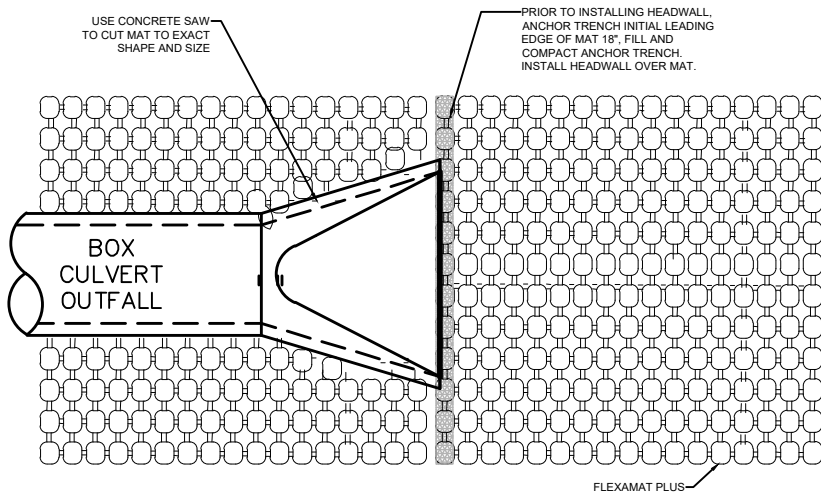
TIED CONCRETE EROSION  
CONTROL MAT  
NEW OUTLET INSTALLATION  
DETAILS

SEPTEMBER 2022

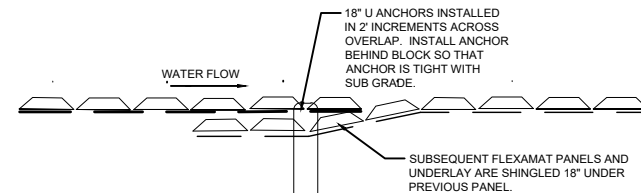


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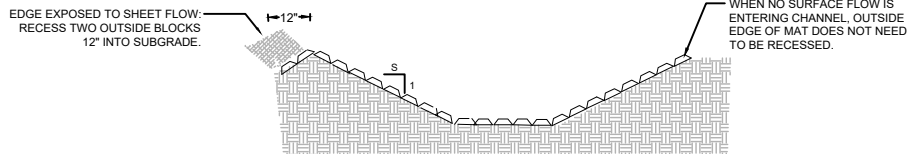
NEW OUTLET  
DETAIL  
WTC-05



(B) OVERLAP DETAIL



(C) UPSTREAM OR DOWNSTREAM ANCHOR TRENCH



#### FLEXAMAT INFORMATION

Manufacturer: Motz Enterprises, Inc.  
 Product Name: Flexamat®  
 Address: 3153 Madison Road  
 Cincinnati, Ohio 45209  
 Telephone: 513-772-MOTZ (6689)  
 Fax: 513-772-6690  
 Contact: Matt Motz  
 Email: Matt@Flexamat.com  
 Website: [www.Flexamat.com](http://www.Flexamat.com)

#### CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN THE CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. 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.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO FLEXAMAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', & 16' AVAILABLE IN CUSTOM LENGTHS.
4. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOWS SHALL BE EMBEDDED 18" VERTICALLY INTO THE SUB GRADE TO SERVE AS AN ANCHOR TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
5. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
6. INSTALL 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR U-ANCHOR WITH 18" LEGS.
7. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SOIL.

TIED CONCRETE  
 EXISTING OUTLET  
 DETAIL

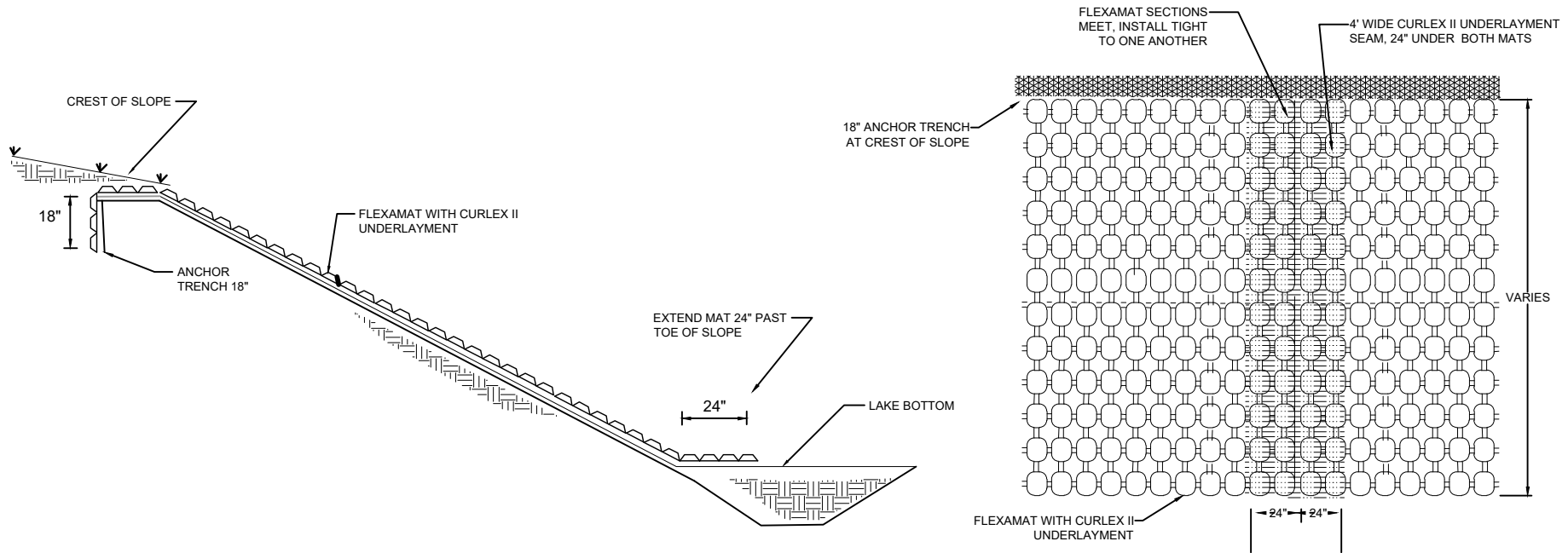
SEPTEMBER 2022



TOWN OF WESTLAKE  
 1500 SOLANA BOULEVARD  
 BLDG. 7, SUITE 7200  
 WESTLAKE, TEXAS 76262

EXISTING  
 OUTLET  
 DETAIL  
 WTC-06





#### **CONSTRUCTION NOTES:**

1. GRADE A UNIFORM SLOPE. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF FLEXAMAT 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 WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
2. APPLY SEED DIRECTLY TO THE PREPARED SOIL PRIOR TO INSTALLATION OF MATS. USE SEED AND /OR TOPSOIL PER PROJECT SPECIFICATIONS.
3. INSTALL FLEXAMAT TO THE LINE AND GRADE SHOWN ON THE PLANS. ROLL WIDTHS ARE 4', 5.5' 8', 10', 12', & 16' OF VARIOUS LENGTHS. MATS SHALL BE INSTALLED SO THAT THE FLEXAMAT EXTENDS 2' PAST THE TOE OF THE SLOPE. TOP OF MAT AT CREST OF SLOPE SHALL BE BURIED IN AN 18" ANCHOR TRENCH.
4. AT ALL SEAMS IN MAT, INSTALL A 4' SECTION OF THE CURLEX II UNDERLAYMENT. IT SHALL BE INSTALLED UNDER SEAMS, WITH 2' OF THE UNDERLAYMENT UNDER EITHER SIDE OF THE SEAM.
5. FLEXAMAT SECTIONS MUST FIT TIGHTLY NEXT TO EACH OTHER WITH NO GAPS OR VOIDS BETWEEN SECTIONS OF MAT. A CONCRETE SAW MAY BE NECESSARY TO CUT MAT TO FIT TIGHTLY TO ADJACENT SECTION OF MAT FOR SHARP CURVES.

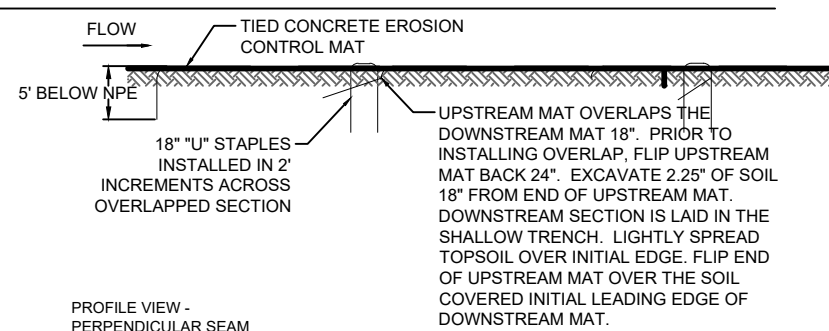
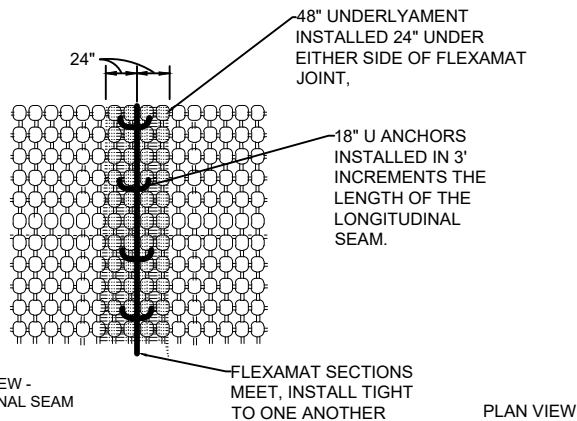
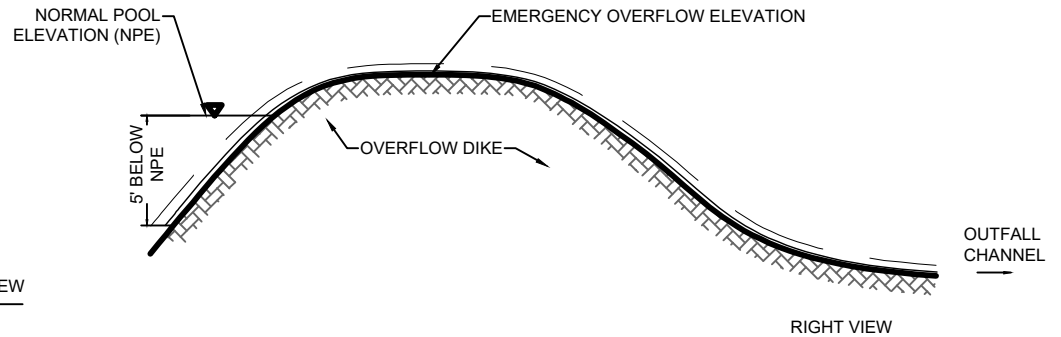
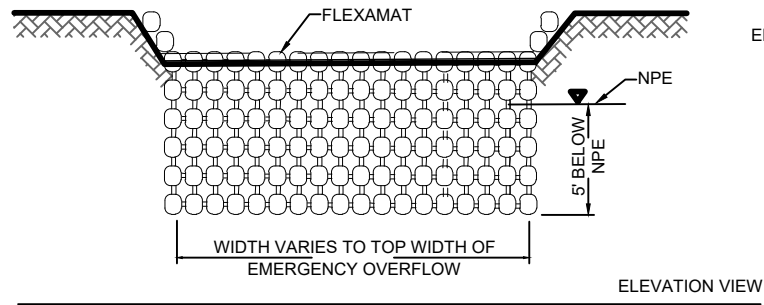
### **FLEXAMAT DETENTION BASIN DETAIL NTS**

SEPTEMBER 2022



TOWN OF WESTLAKE  
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BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

DETENTION  
BASIN  
DETAIL  
WTC-07



#### CONSTRUCTION NOTES

1. 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 WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
2. APPLY SEED DIRECTLY TO PREPARED SOIL PRIOR TO TIED CONCRETE EROSION CONTROL MAT INSTALLATION. USE SEED PER PROJECT SPECIFICATIONS.
3. INSTALL TIED CONCRET EROSION CONTROL MAT ROLLS. MAT SHALL EXTEND 5' BELOW NORMAL POND ELEVATION.
  - 3.1. FOR WIDTHS WIDER THAN 16', INSTALL MATS ADJACENT TO ONE ANOTHER. BRIDGE LONGITUDINAL SEAM WITH 48" UNDERLAYMENT. 24" OF TRM SHALL BE UNDER EACH MAT AND DIRECTLY AGAINST THE SUBGRADE.
  - 3.2. FLIP TIED CONCRETE EROSION CONTROL MAT SECTIONS BACK INTO PLACE SO THAT THEY FIT TIGHTLY.
  - 3.3. SECURE SEAM BY INSTALLING 18" U-ANCHORS IN 3' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. U-ANCHORS CONSIST OF #3 REBAR, SHAPED INTO A U WITH 18" LEGS.
4. IF ADDITIONAL SECTIONS ARE REQUIRED FOR LENGTH OF CHANNEL, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
5. INSTALL 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP.
6. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL.

### TIED CONCRETE EROSION CONTROL MAT OVERFLOW PLAN AND PROFILE DETAIL

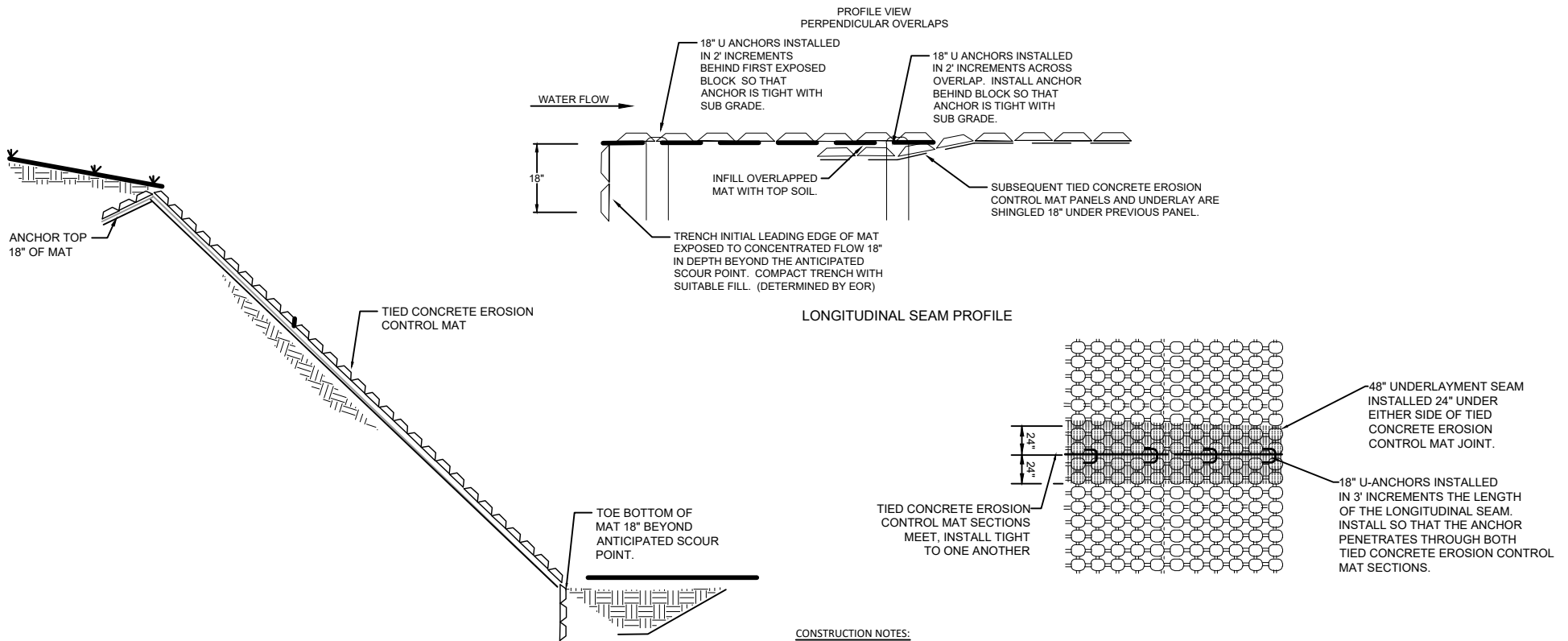
SEPTEMBER 2022



TOWN OF WESTLAKE  
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BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

OVERFLOW  
DETAIL  
WTC-08





## TIED CONCRETE EROSION CONTROL MAT RIVER BANK DETAIL

### CONSTRUCTION NOTES:

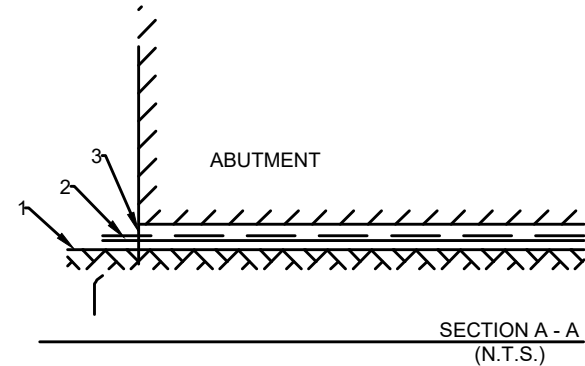
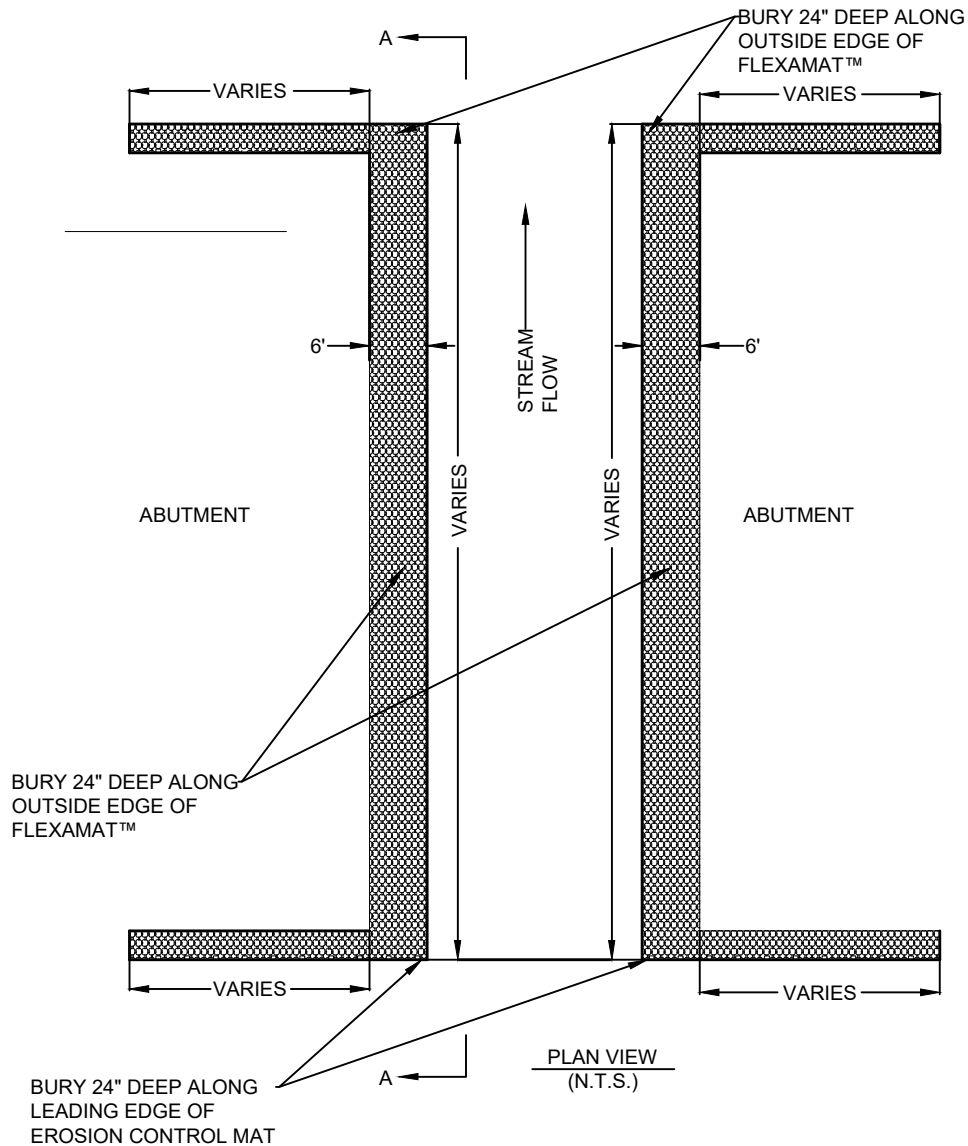
1. THE RIVER BANK SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS.
2. SITE SPECIFIC SEED MIXES, INCLUDING NATIVE GRASSES, SHOULD BE INSTALLED ON THE PREPARED SUB GRADE PRIOR TO INSTALLING THE TIED CONCRETE EROSION CONTROL MAT EROSION CONTROL MATERIALS.
3. THE TOP EDGE OF THE TIED CONCRETE EROSION CONTROL MAT SHOULD BE A MINIMUM OF 3' ABOVE THE EXPECTED HIGH WATER ELEVATION OF THE RIVER AND THE BOTTOM EDGE SHOULD BE A MINIMUM OF 4' BELOW THE EXPECTED LOW WATER ELEVATION. FOR APPLICATIONS WHERE WATER DEPTH IS BELOW 4', MAT SHALL EXTEND 2' PAST THE TOE.
4. TIED CONCRETE EROSION CONTROL MAT IS AVAILABLE IN WIDTHS OF 4', 5.5', 8', 10', 12', AND 16'.
  - 4.1. FOR WIDTHS WIDER THAN 16', INSTALL MATS ADJACENT TO ONE ANOTHER. BRIDGE LONGITUDINAL SEAM WITH 48\" UNDERLAYMENT. 24\" OF UNDERLAYMENT SHALL BE UNDER EACH MAT AND DIRECTLY AGAINST THE SUBGRADE.
  - 4.2. FLIP TIED CONCRETE EROSION CONTROL MAT SECTIONS BACK INTO PLACE SO THAT THEY FIT TIGHTLY.
  - 4.3. SECURE TIED CONCRETE EROSION CONTROL MAT TO SEAM BY INSTALLING U-ANCHORS IN 3' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. U-ANCHORS CONSIST OF #3 REBAR BENT INTO A U WITH 18\" LEGS.
5. THE INITIAL LEADING EDGE OF TIED CONCRETE EROSION CONTROL MAT EXPOSED TO FLOW SHALL BE EMBEDDED 24\" VERTICALLY BEYOND THE ANTICIPATED SCOUR POINT. THE ANCHOR TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
6. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18\" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24\". EXCAVATE 2.25\" OF SOIL 18\" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
7. INSTALL 18\" \"U\" ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. \"U\" ANCHORS CONSIST OF #3 REBAR \"U\" ANCHOR WITH 18\" LEGS.
8. AT THE END OF THE ARMORED STREAM BANK, EMBED THE MAT 24\" PAST THE ANTICIPATED SCOUR POINT IN A TERMINATION TRENCH. THE ANCHOR TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).

SEPTEMBER 2022



TOWN OF WESTLAKE  
1500 SOLANA BOULEVARD  
BLDG. 7, SUITE 7200  
WESTLAKE, TEXAS 76262

RIVER BANK  
DETAIL  
WTC-09



#### CONSTRUCTION NOTES:

1. THE SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES, PRIOR TO INSTALLING THE EROSION CONTROL MAT.
2. SITE SPECIFIC SEED MIXES, INCLUDING NATIVE GRASSES, SHOULD BE INSTALLED ON THE PREPARED SUBGRADE PRIOR TO INSTALLING THE EROSION CONTROL MAT.
3. EROSION CONTROL MAT IS AVAILABLE IN WIDTHS OF 5.5', 8', 10', 12', AND 16'. WHENEVER POSSIBLE, USE MATS THAT WILL COVER THE FULL LENGTH AND WIDTH TO REDUCE SEAMS. WHERE SEAMS ARE NECESSARY, FOLLOW MANUFACTURER SEAM RECOMMENDATIONS.
4. THE OUTSIDE EDGES OF EROSION CONTROL MAT SHALL BE ANCHORED IN A 24" ANCHOR TRENCH, FILLED WITH COMPACTED SOILS.

### TIED CONCRETE EROSION CONTROL MAT BRIDGE ABUTMENT PLAN AND PROFILE DETAIL (N.T.S.)

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