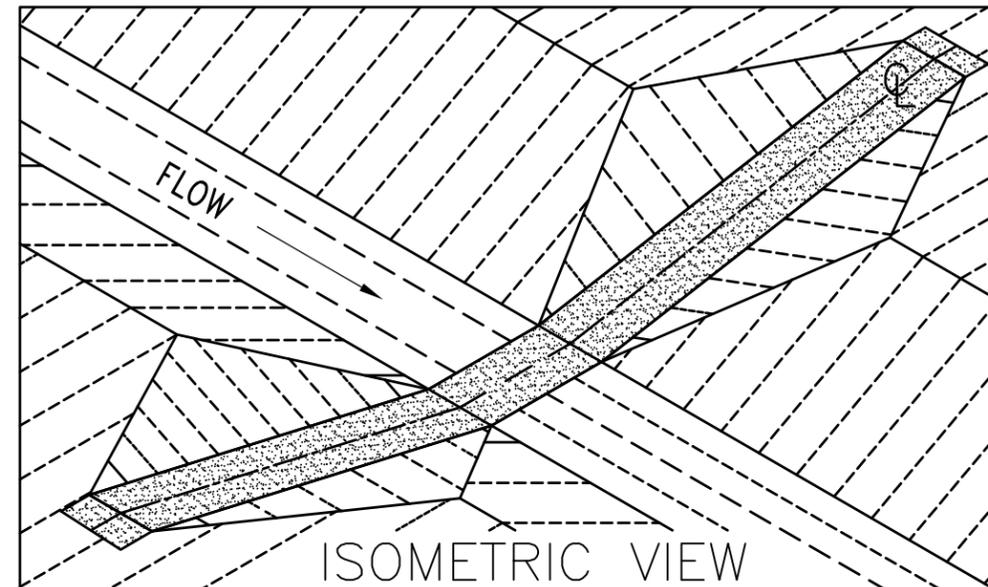


UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

GEORGIA STANDARD DRAWING – FORD TYPE STREAM CROSSING

The following drawings were prepared in accordance with Practice Standard 578 – Stream Crossing. These plans may be used for a rock lined, ford type stream crossing.



PRE-CONSTRUCTION CERTIFICATION:

THE _____ STREAM CROSSING WILL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND PRACTICE CODE 578. ALL CHANGES HAVE BEEN APPROVED BY A NRCS EMPLOYEE WITH ADEQUATE DESIGN JOB APPROVAL AUTHORITY FOR THE PRACTICE. ALL ADDITIONS HAVE BEEN APPROVED BY NRCS.

OWNER	DATE	NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
-------	------	---------------------	------	------------------------	------

AS-BUILT CERTIFICATION:

THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE TO THESE PLANS AND MEETS NRCS STANDARDS AND SPECIFICATIONS.

NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
---------------------	------	------------------------	------

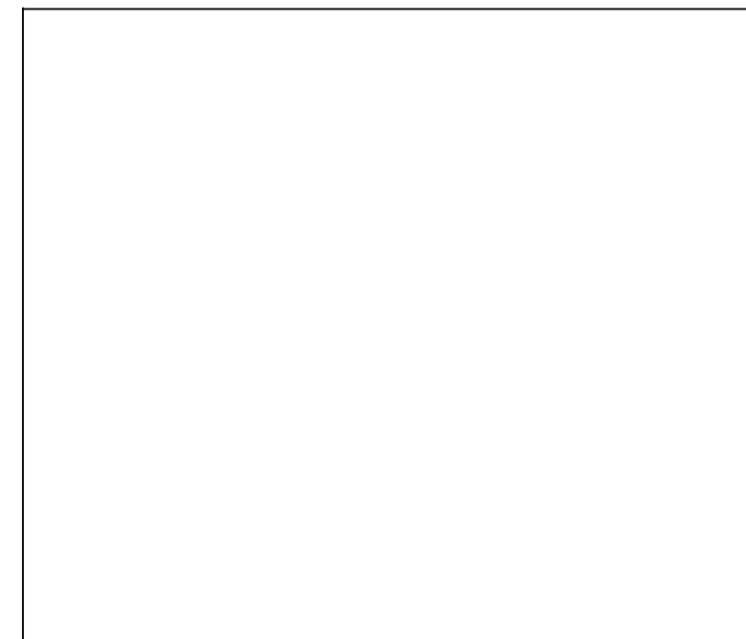


Natural Resources Conservation Service
Helping People Help the Land

_____ STREAM CROSSING
_____ COUNTY, GEORGIA

INDEX TO DRAWINGS:

- SHEET 1 – COVER SHEET
- SHEET 2 – DESIGN CHANNEL CROSS-SECTION AT CROSSING
- SHEET 3 – AS-BUILT CHANNEL CROSS-SECTION AT CROSSING
- SHEET 4 – PLAN VIEW OF CROSSING
- SHEET 5 – DETAILS



VICINITY MAP

STREAM CROSSING:
JOB CLASS: _____

REVISIONS		
DATE	APPROVED	TITLE
06/11	J HOLLOWAY	STATE ENGINEER

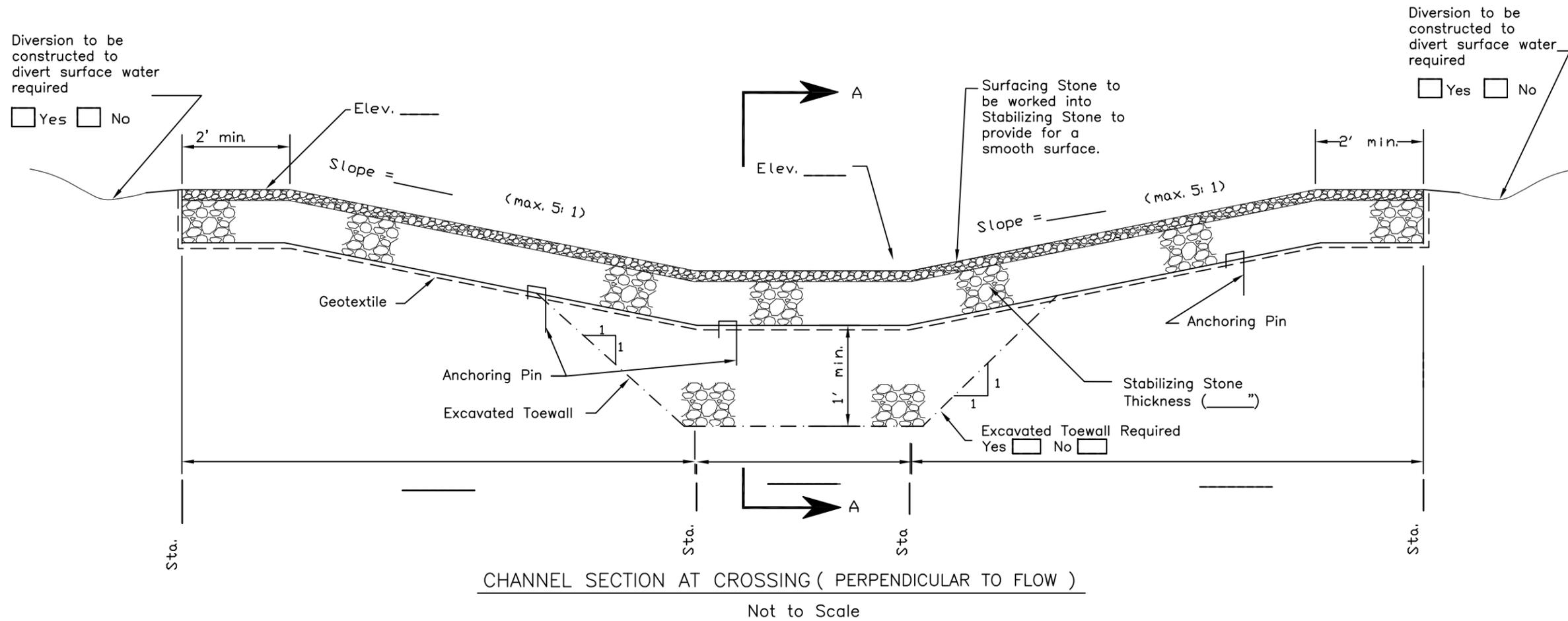
Date _____
Designed _____
Drawn S. BLACKSTON 9/19/11
Checked _____
Approved _____

GEORGIA STANDARD DRAWINGS
STREAM CROSSING
COVER SHEET



File No. _____
COVER
Drawing No. _____
GA-ENG-578-1

DESIGN FLOW IS CHANNEL CROSS-SECTION CAPACITY



Notes:

1. Crossing shall be installed perpendicular to the direction of the flow of the stream.
2. The final grade of the crossing shall be no higher than the original stream bottom.
3. All Geotextile shall be woven or non-woven needle punched fabric, with a minimum tensile strength of 180 lbs, a minimum Mullen Burst test of 320 psi, and a minimum puncture test of 80 lbs.
4. Geotextile on stream crossings shall be anchored with pins (see typical detail sheet 4).
5. Multi-use crossing shall be no less than 10 feet and no more than 20 feet wide in the upstream-downstream direction. Cattle only crossing may be as narrow as 6 feet.

6. Rock crossings for livestock may require a hoof contact zone placed over the surfacing stone.
7. Rock sizes vary by quarry. Contact local quarries to ensure proper size and availability.
8. All disturbed areas shall be vegetated by requirements set forth in GA-CPS 342 - Critical Area Planting.
9. Install fencing when required to limit cattle access to the stream
10. Fencing shall be installed in accordance with GA-CPS 382 - Fence.
11. Use "breakaway" fence, cut and loosely attached wire or electrified chain across the stream.
12. Show changes during construction in red. "As - Built" to document construction check.
13. Construct diversion(s) when required _____ft. high _____ft./ft. grade to a stable outlet.

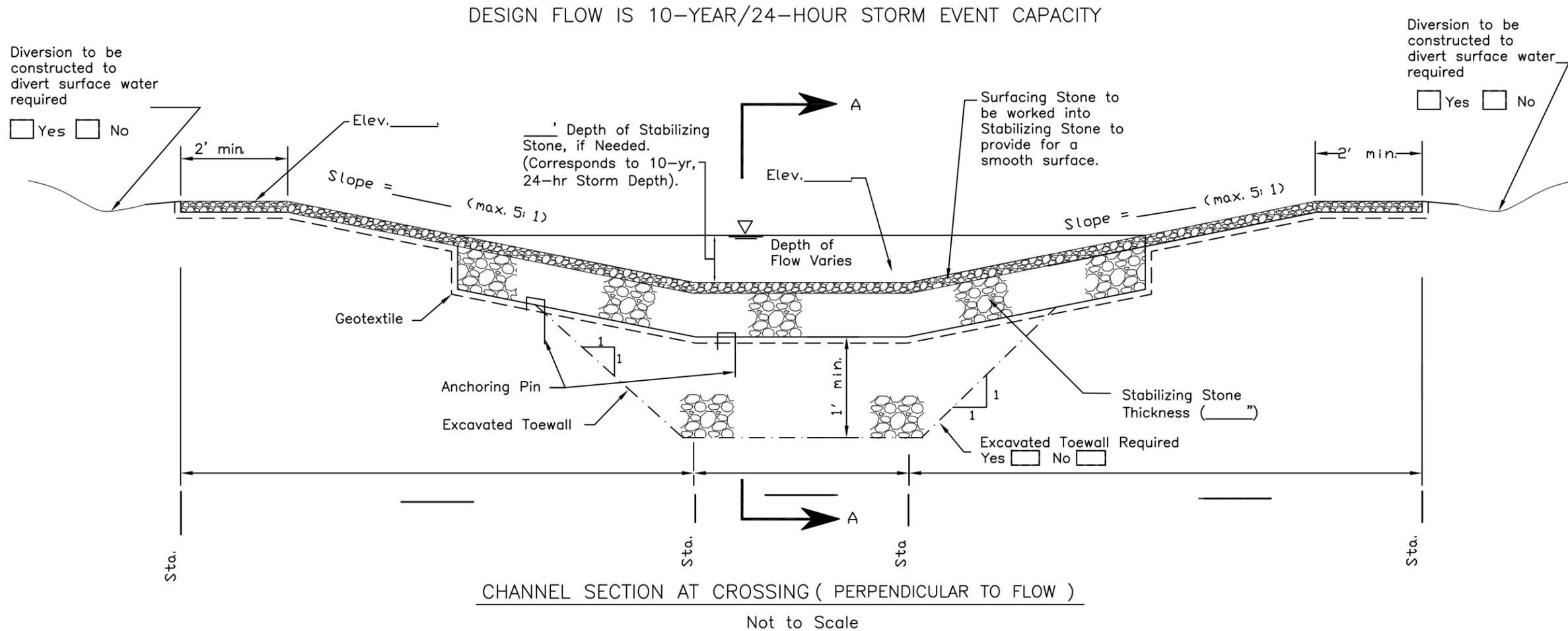
Date _____
 Designed _____
 Drawn S. BLACKSTON 9/19/11
 Checked _____
 Approved _____

GEORGIA STANDARD DRAWINGS
 STREAM CROSSING
 CHANNEL CROSS-SECTION @ CHANNEL CAPACITY SHEET

Land Owner _____ County, Georgia
 Tract No. _____



File No. CHANNEL
 Drawing No. GA-ENG-578-1
 2/25/2009
 Sheet 2.A of 5



Notes:

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12. Show changes during construction in red. "As - Built" to document construction check.
13. Construct diversion(s) when required _____ ft. high _____ ft./ft. grade to a stable outlet.

Date _____
 Designed _____
 Drawn S. BLACKSTON 9/19/11
 Checked _____
 Approved _____

GEORGIA STANDARD DRAWINGS
 STREAM CROSSING
 CHANNEL CROSS-SECTION @ 10-YR 24-HR SHEET

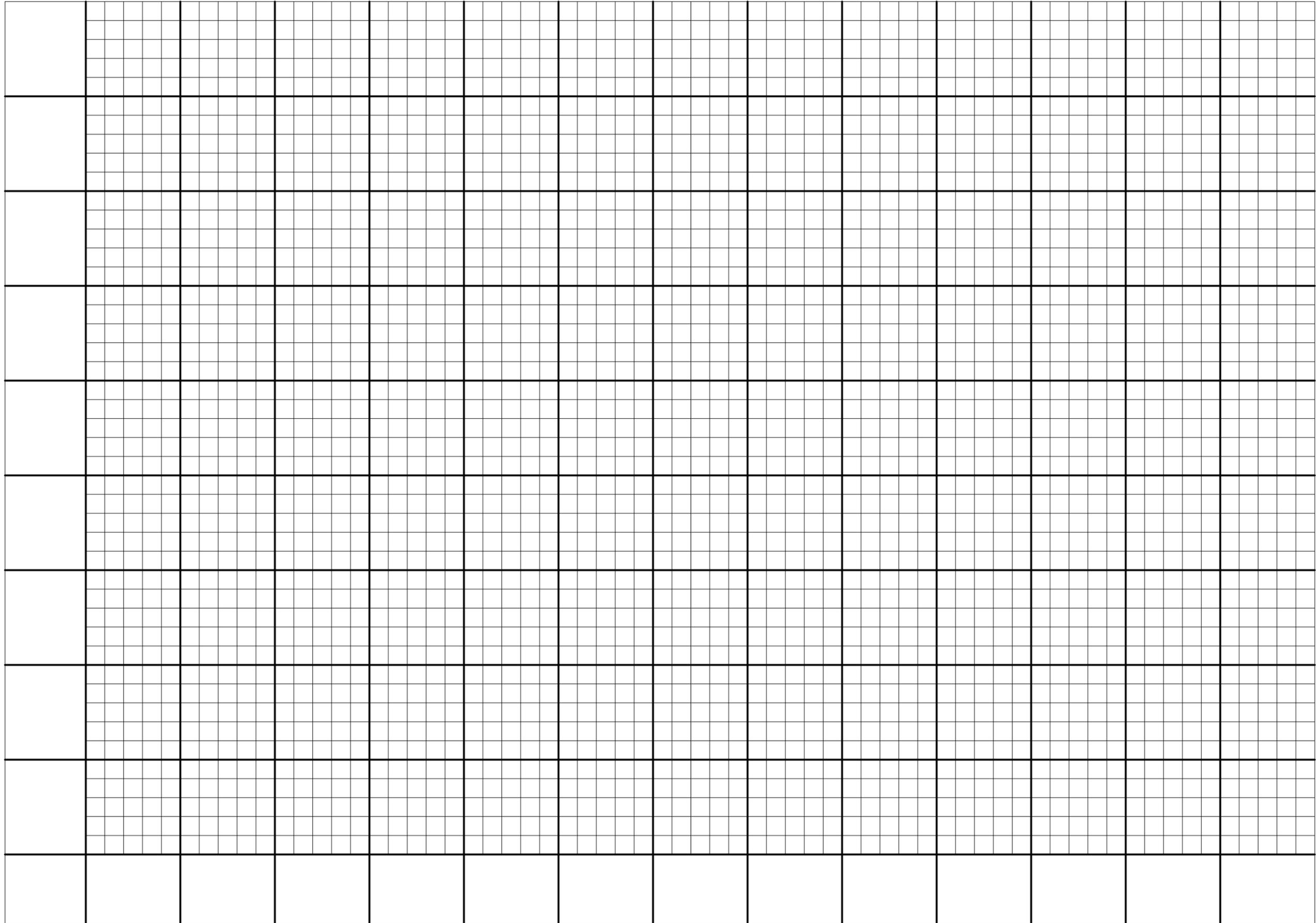
Land Owner _____ County, Georgia
 Tract No. _____



File No. CHANNEL
 Drawing No. GA-ENG-578-1
 Sheet 2 of 5

CHANNEL SECTION AT CROSSING

ELEVATION



DISTANCE

Date _____
Designed _____
Drawn S. BLACKSTON 9/19/11
Checked _____
Approved _____

GEORGIA STANDARD DRAWINGS
STREAM CROSSING
CHANNEL SECTION AT CROSSING SHEET

Land Owner _____
Tract No. _____



File No.
PROFILE VIEW

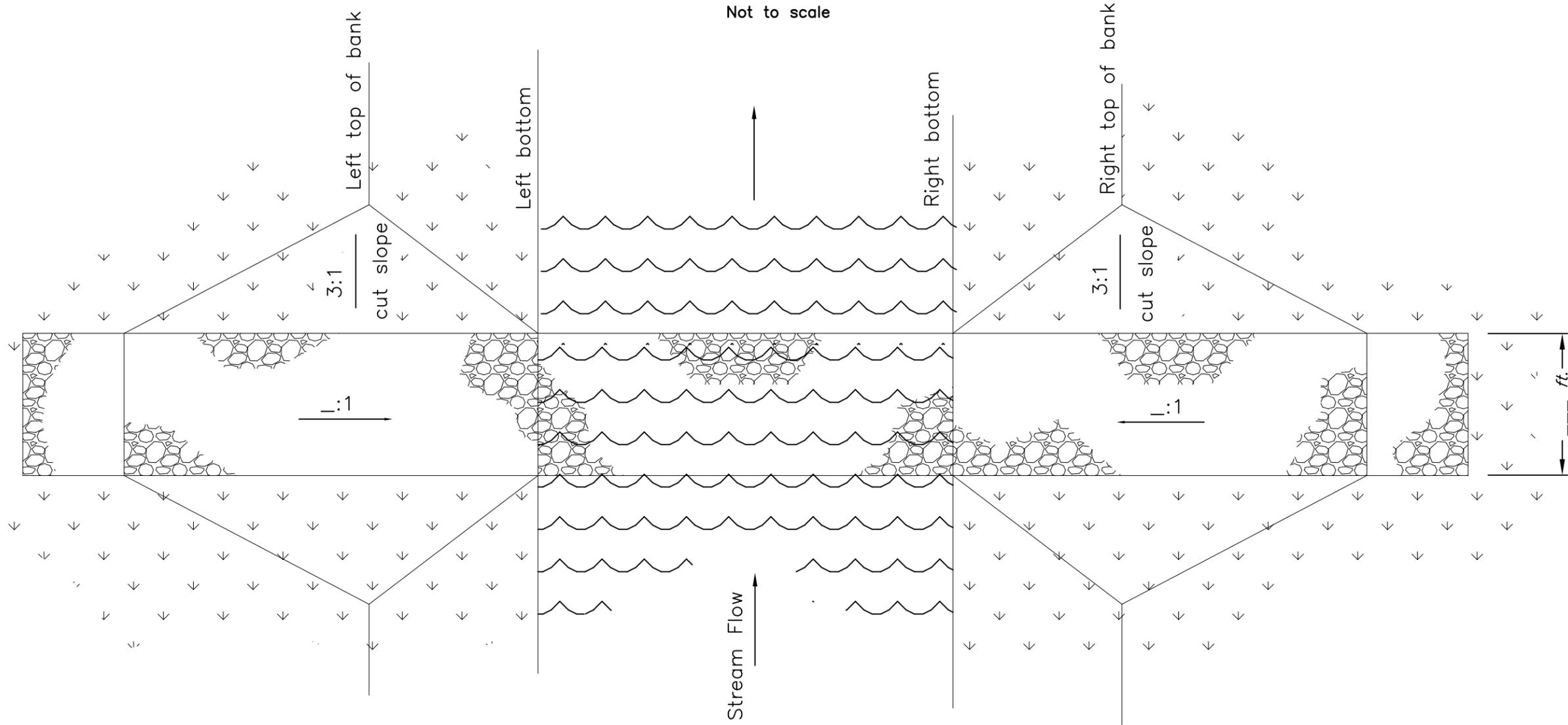
Drawing No.
GA-ENG-578-1

2/25/2009

Sheet 3 of 5

PLAN VIEW

Not to scale



BILL OF MATERIALS

CLEARING & GRADING	_____	JOB
SURFACING MATERIAL	_____	TONS
STABILIZING STONE	_____	TONS
GEOTEXTILE	_____	SQ.FT
VEGETATION	_____	SQ.FT.
ANCHOR PINS	_____	EA.
FENCE POSTS	_____	EA.

IBM

ELEVATION _____

DESCRIPTION _____

Date _____
 Designed _____
 Drawn S. BLACKSTON 9/2011
 Checked _____
 Approved J. HOLLOWAY 1/15/10

GEORGIA STANDARD DRAWINGS
 STREAM CROSSING
 PLAN VIEW SHEET

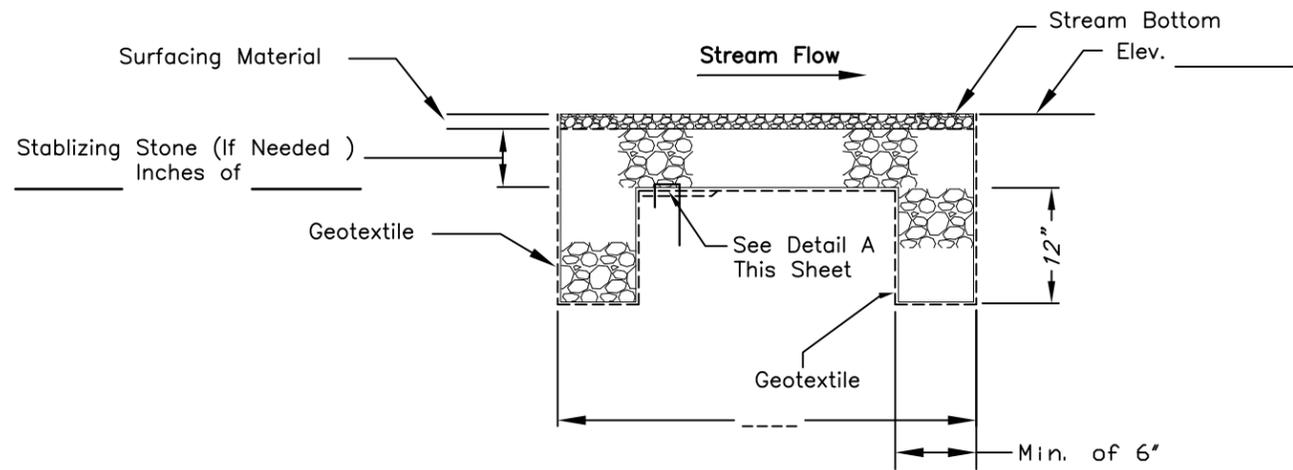
Land Owner _____ County, Georgia
 Tract No. _____



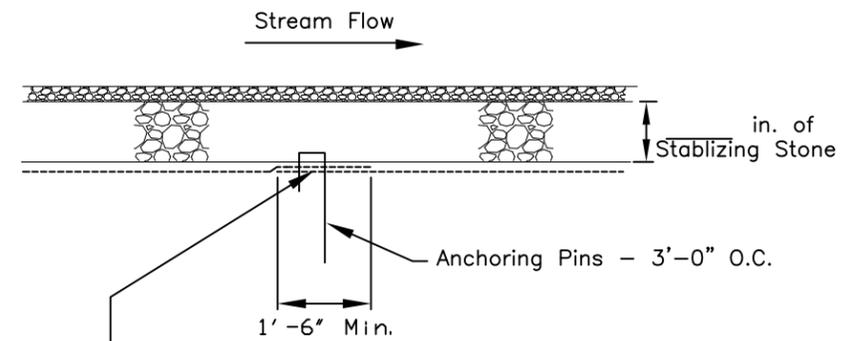
File No.
 PLAN VIEW

Drawing No.
 GA-ENG-578-1

9/9/2011
 Sheet 4 of 5

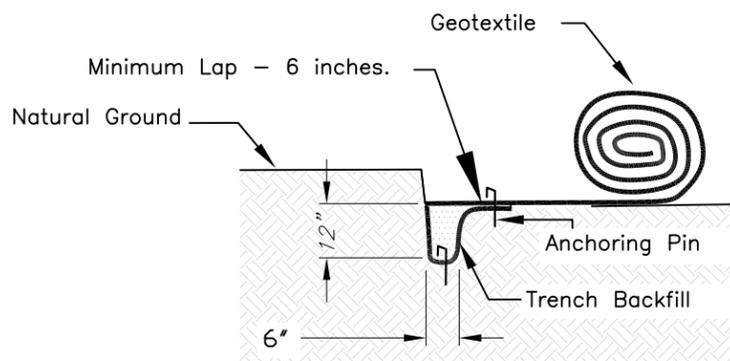


SECTION A - A (Parallel to Flow)
Not To Scale

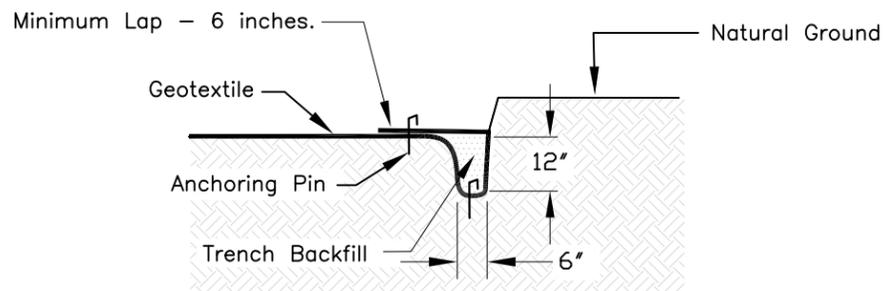


Geotextile fabric will overlap the preceding downstream geotextile by a minimum of 1'-6"

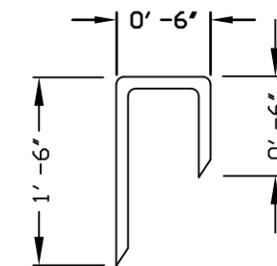
DETAIL A - GEOTEXTILE OVERLAP
Not To Scale



TYPICAL DETAIL INITIAL ANCHOR TRENCH
Not to Scale



TYPICAL DETAIL TERMINAL AND EDGE ANCHOR TRENCH
Not To Scale



Anchoring pins to be fabricated of No. 3 reinforced steel or equivalent material.

ANCHORING PIN DETAIL
Not To Scale

NOTE: ALL EDGES OF GEOTEXTILE SHALL BE ANCHORED BY AN APPROVED METHOD. THE TYPICAL TRENCH DETAILS ARE EXAMPLES OF APPROVED TRENCHING METHODS.

Date _____
Designed _____
Drawn S. BLACKSTON 9/2011
Checked _____
Approved J. HOLLOWAY 1/15/10

GEORGIA STANDARD DRAWINGS
STREAM CROSSING
DETAILS SHEET

County, Georgia _____
Land Owner _____
Tract No. _____



File No. DETAILS

Drawing No. GA-ENG-578-1

9/9/2011
Sheet 5 of 5