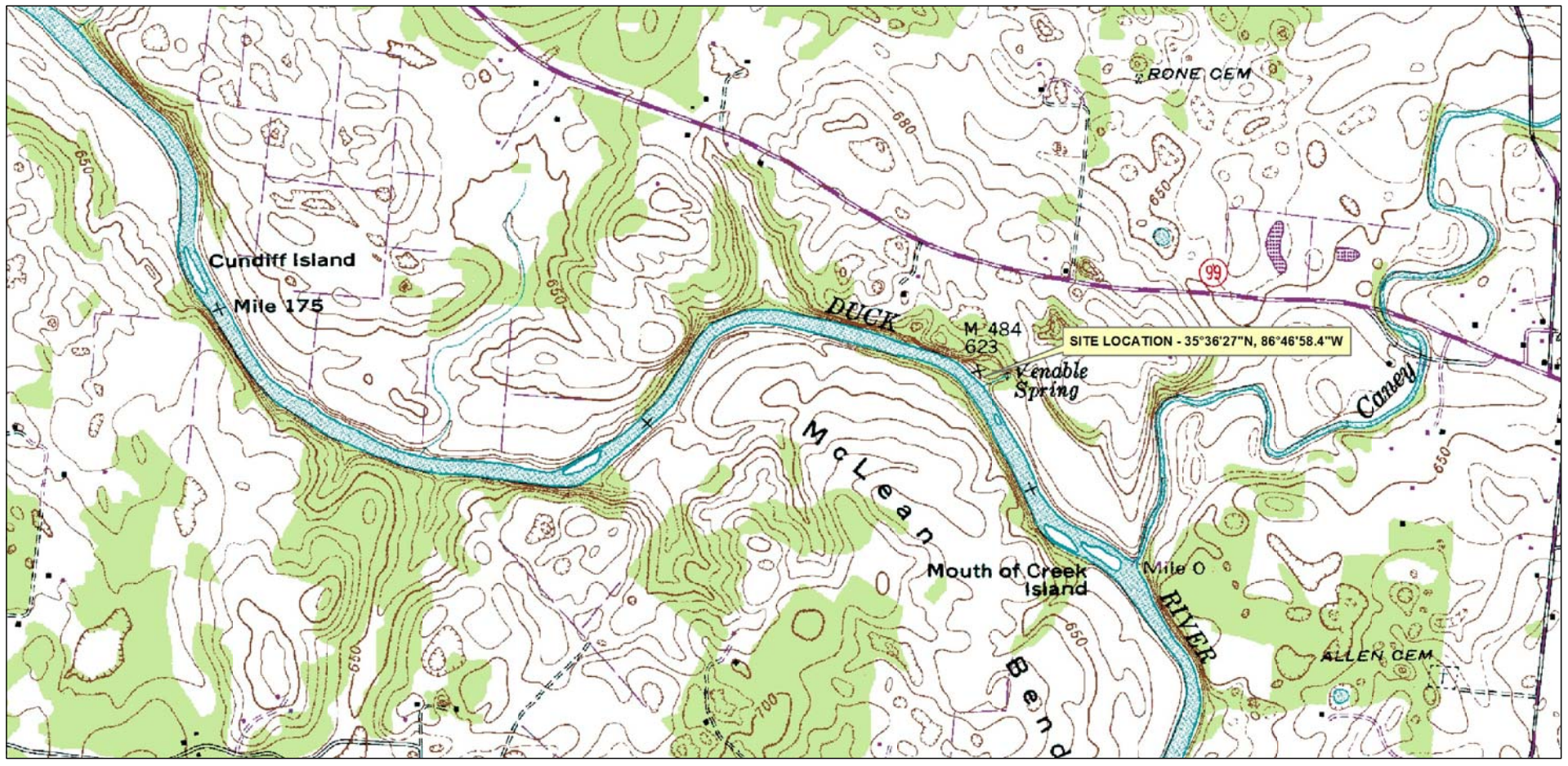
ALLEN DAIRY
STREAMBANK & GRADE STABILIZATION PROJECT
DUCK RIVER WATERSHED
MARSHALL CO., TN



INDEX

811 Know what's **below.** **Call** before you dig.

NOTE:
IMPORTANT: UTILITY OWNERS MUST BE NOTIFIED OF THE DATE AND TIME CONSTRUCTION IS SCHEDULED TO APPROACH THE UTILITY (PIPELINES, TELEPHONE LINES, ELECTRIC LINES, ETC.). CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL UTILITY COMPANIES HAVE BEEN NOTIFIED AND HAVE THEIR UTILITIES LOCATED ON THE GROUND. THE TENNESSEE ONE CALL NUMBER IS 1-800-351-1111.

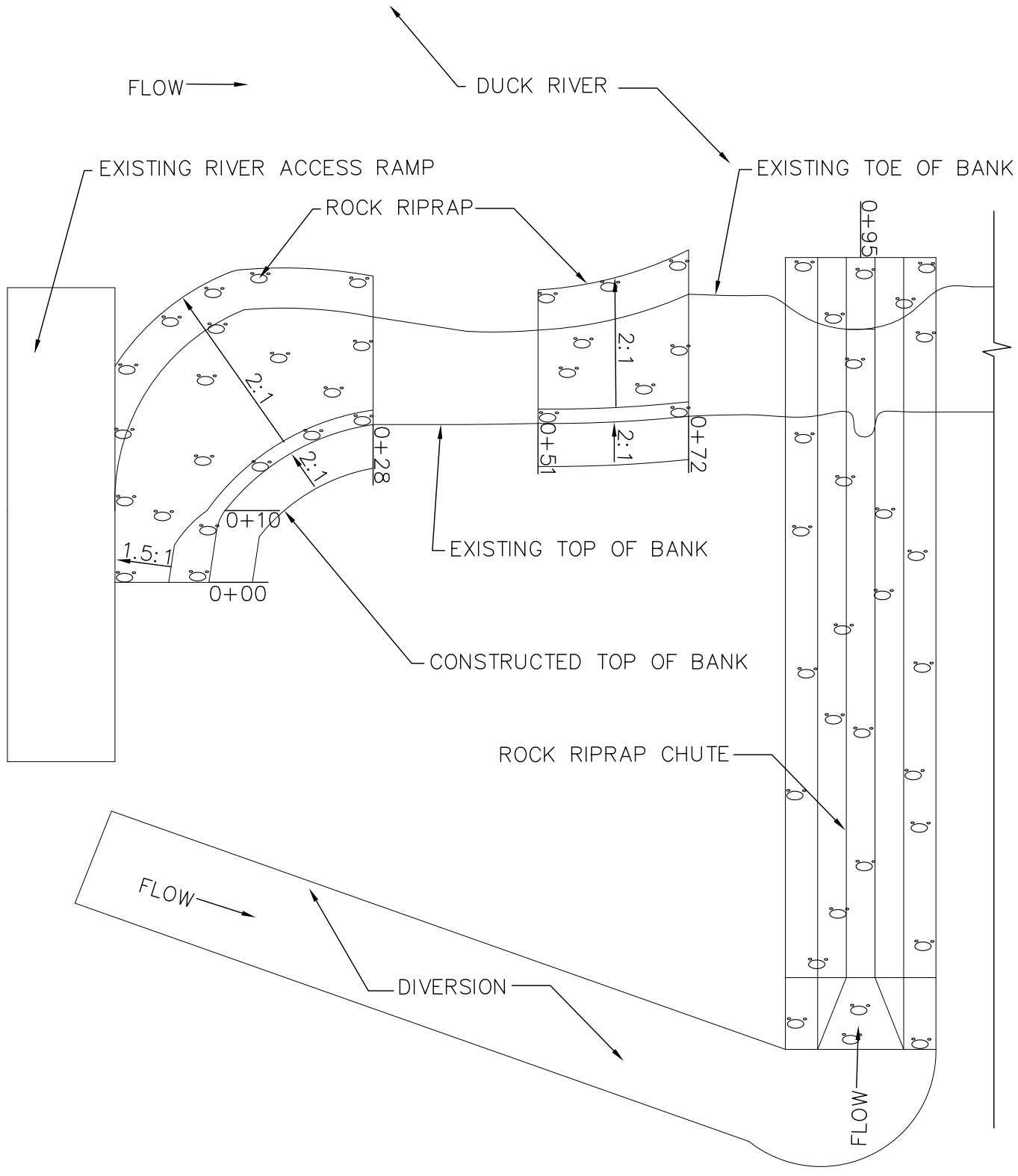
		Date
Designed	TAH	01/14
Drawn	TAH	01/14
Checked	TAH	01/14
Approved		

ALLEN DAIRY
STREAMBANK & GRADE STABILIZATION STRUCTURES
MARSHALL CO., TENNESSEE
COVER SHEET

NRCS Natural Resources Conservation Service
United States Department of Agriculture

FILE NAME
XXX

DRAWING NUMBER
AD1



PLAN VIEW

20 0 20 40 60

SCALE IN FEET

NOTES:

1. SEE SHEET 3 OF 6 FOR ROCK RIPRAP REVETMENT DETAILS.
2. SEE SHEET 4 OF 6 FOR PLAN AND PROFILE VIEW OF ROCK RIPRAP CHUTE.
3. SEE SHEET 5 OF 6 FOR ROCK RIPRAP CHUTE SECTION VIEWS.
4. SEE SHEET 6 OF 6 FOR TYPICAL DIVERSION DETAILS.
5. THE ROCK RIPRAP REVETMENT SHALL HAVE A 1.5:1 SLOPE FROM STA. 0+00 TO 0+10 ADJACENT TO THE ACCESS RAMP. AS THE STREAMBANK SWINGS AWAY FROM THE ACCESS RAMP, THE SLOPE OF THE ROCK RIPRAP REVETMENT SHALL TRANSITION TO A 2:1 SLOPE FOR THE REST OF THE SITE.

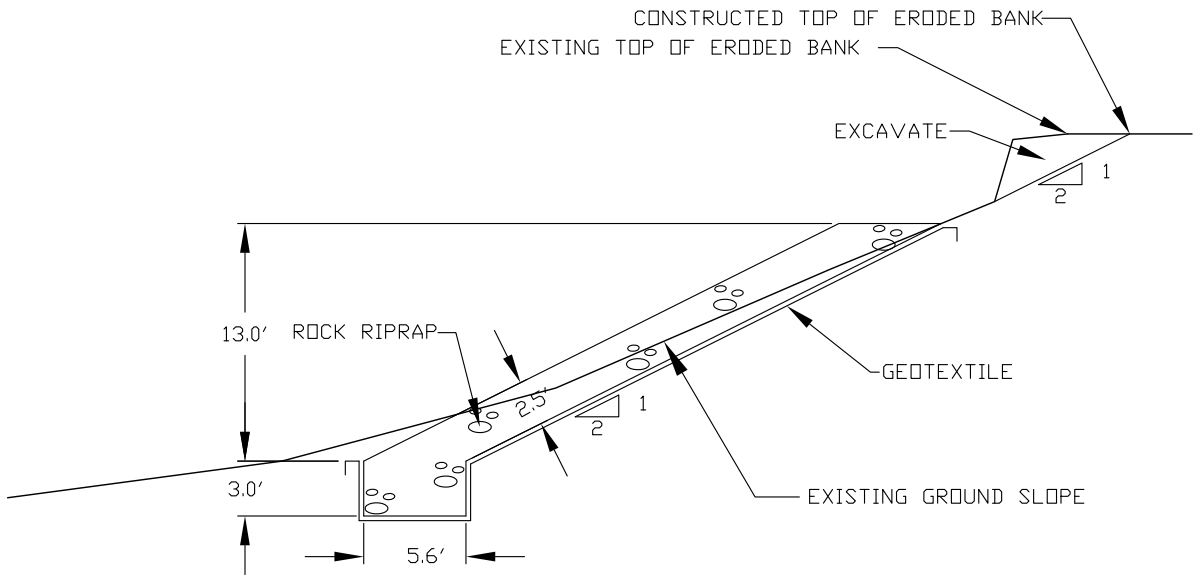
		Date
Designed	TAH	01/14
Drawn	TAH	01/14
Checked	TAH	01/14
Approved		

ALLEN DAIRY
STREAMBANK & GRADE STABILIZATION PROJECT
MARSHALL CO., TN
PLAN VIEW

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

FILE NAME
XXX

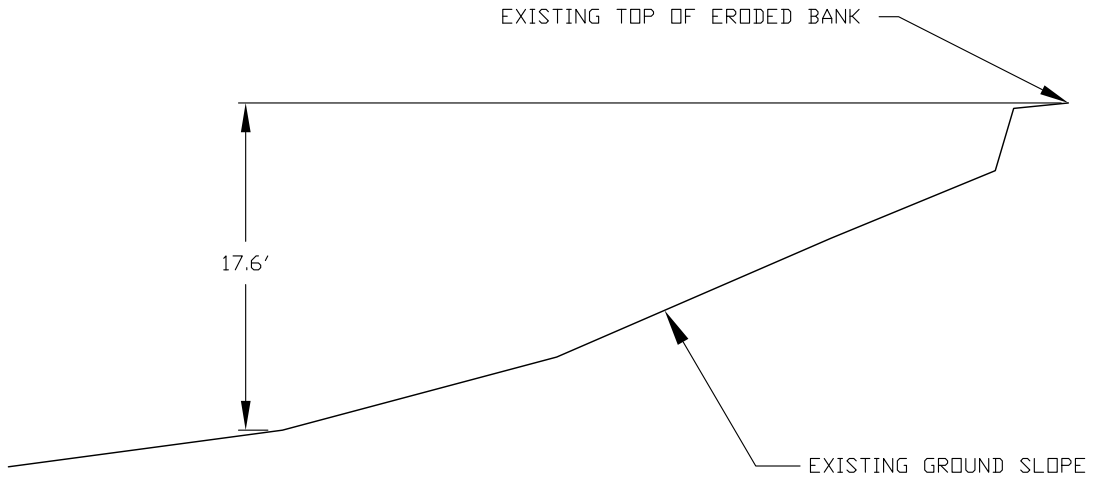
DRAWING NUMBER
AD2



TYPICAL SECTION VIEW @ STA 0+28

PROPOSED FINISHED CONDITIONS

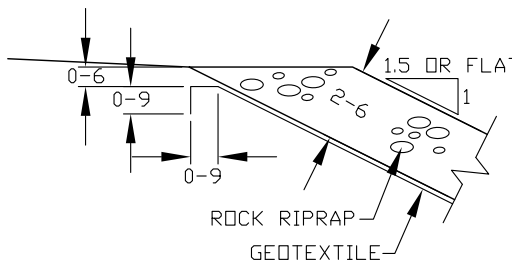
NOT TO SCALE

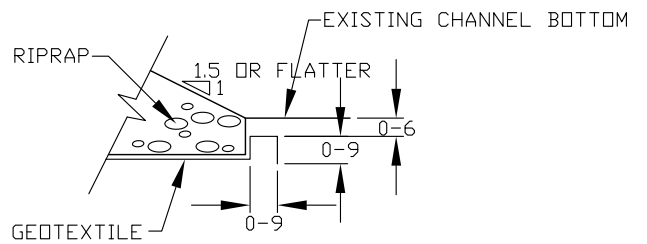


TYPICAL SECTION VIEW @ STA 0+28

EXISTING CONDITIONS

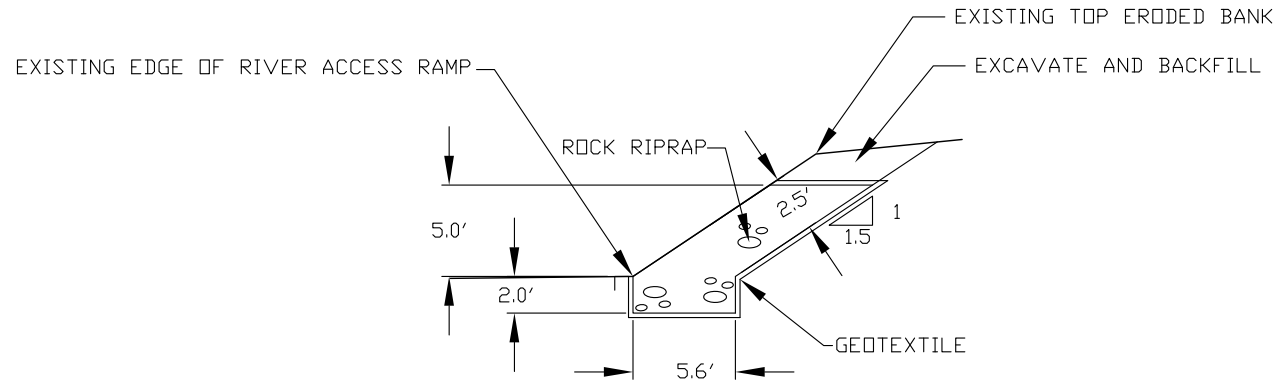
NOT TO SCALE





GEOTEXTILE EMBEDMENT DETAILS

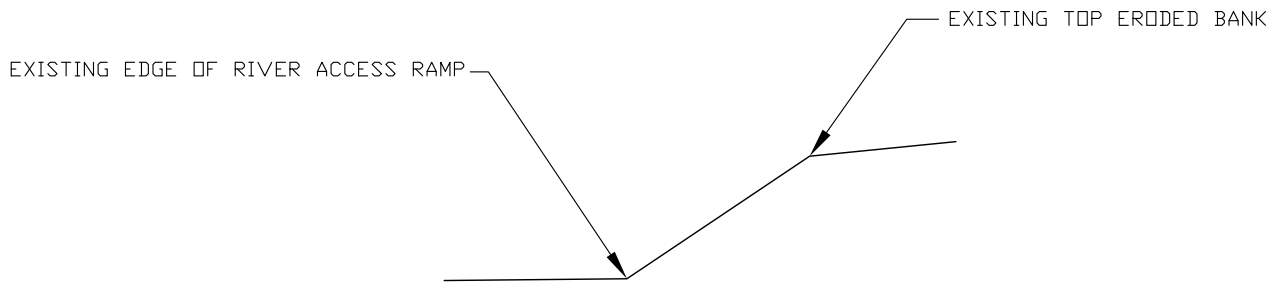
NOT TO SCALE



TYPICAL SECTION VIEW @ STA 0+00

PROPOSED FINISHED CONDITIONS

NOT TO SCALE



TYPICAL SECTION VIEW @ STA 0+00

EXISTING CONDITIONS

NOT TO SCALE

NOTES:
1. THE ROCK RIPRAP IN THE ROCK RIPRAP REVETMENT SHALL HAVE A D50 OF 15 INCHES. IT SHALL HAVE A RANGE IN SIZE FROM 7 INCHES TO 24 INCHES.
2. THE GEOTEXTILE SHALL BE CLASS I, NONWOVEN, NEEDLE PUCHED, MINIMUM OF 8.0 OUNCES PER SQUARE YARD, MINIMUM OF 150 PSI TENSILE STRENGTH, AND ULTRAVIOLET RESISTANT.

		Date
Designed	TAH	01/14
Drawn	TAH	01/14
Checked	TAH	01/14
Approved		

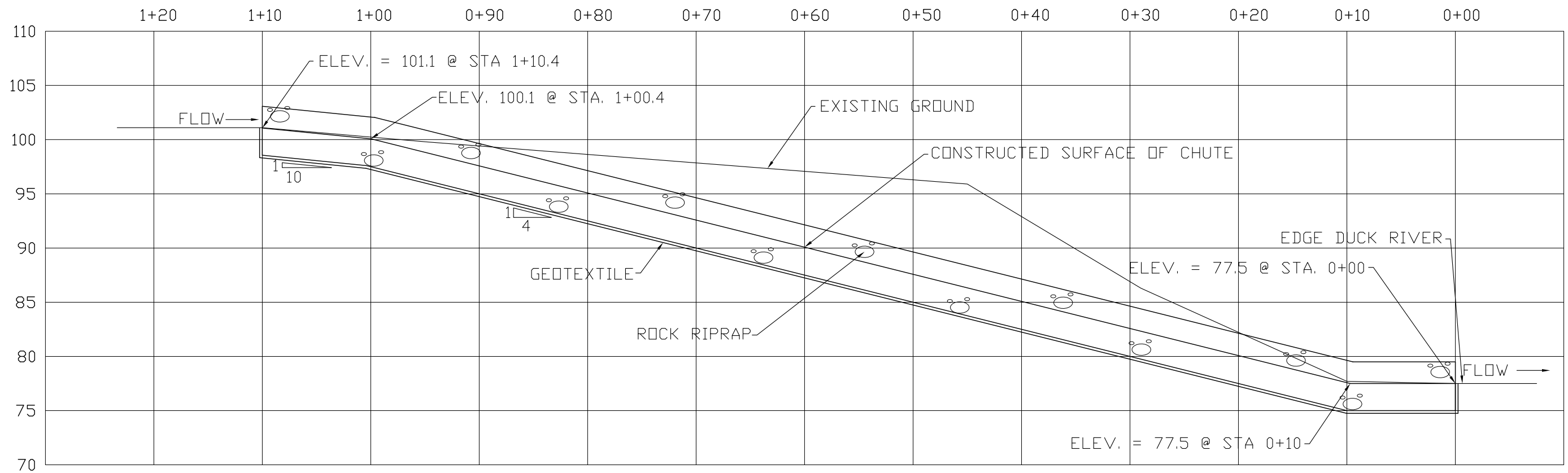
ALLEN DAIRY
STREAMBANK & GRADE STABILIZATION PROJECT
MARSHALL CO., TN
ROCK RIPRAP SECTION VIEWS

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

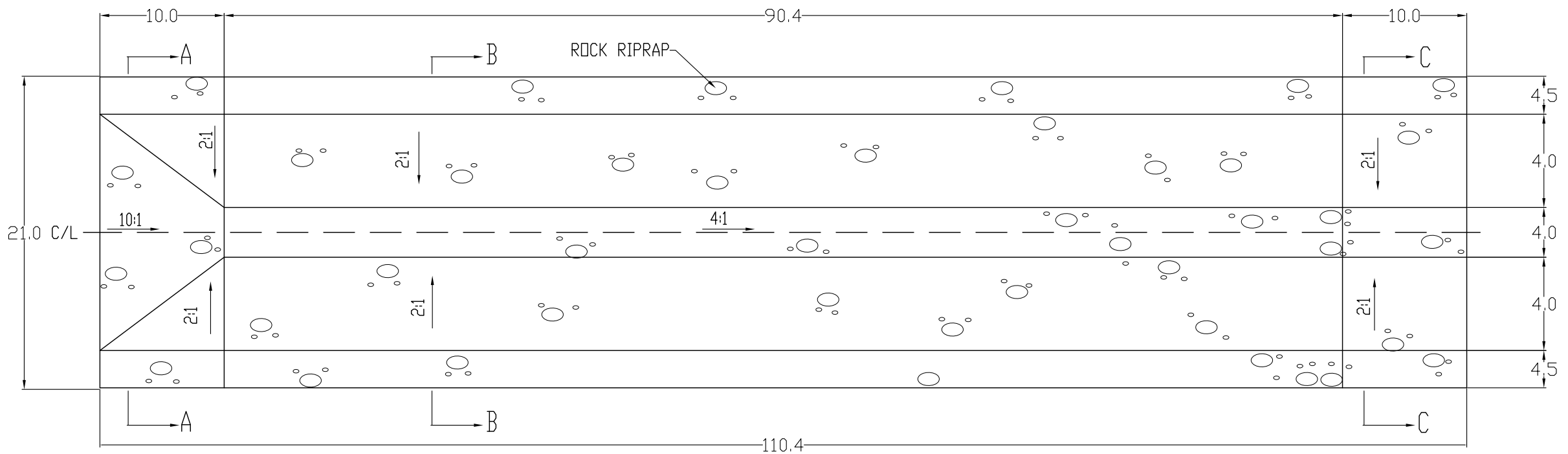
FILE NAME
XXX

DRAWING NUMBER
AD3

Sheet 3 of 6



PROFILE VIEW
ROCK RIPRAP CHUTE



PLAN VIEW
ROCK RIPRAP CHUTE

NOTES:
1. SEE SHEET 5 OF 6 FOR ROCK RIPRAP CHUTE SECTION VIEWS
2. THERE SHALL BE A SMOOTH TRANSITION BETWEEN THE OUTLET OF THE DIVERSION AND THE ENTRANCE OF THE ROCK RIPRAP CHUTE.

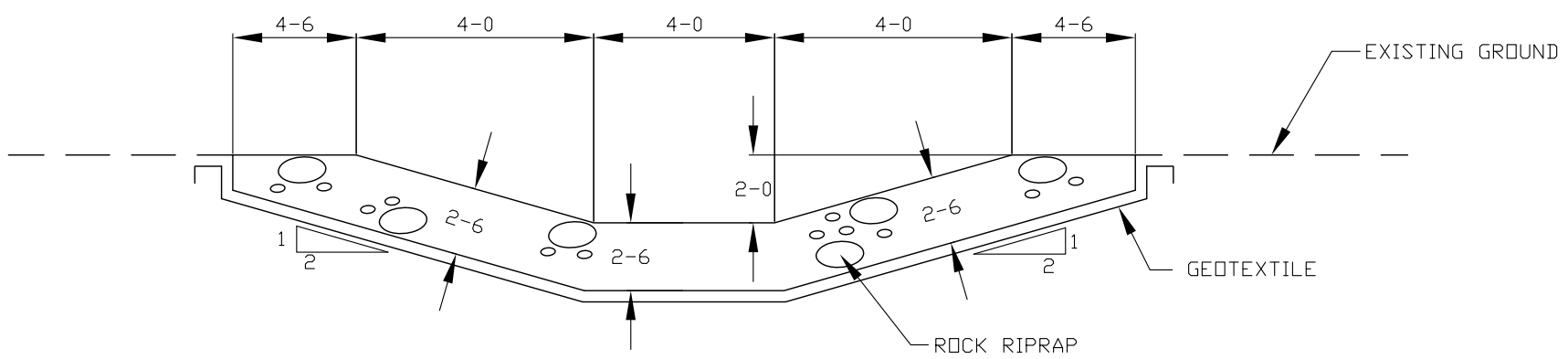
Date	
Designed TAH	01/14
Drawn TAH	01/14
Checked TAH	01/14
Approved	

ALLEN DAIRY
ROCK RIPRAP CHUTE
MARSHALL CO., TN
PLAN VIEW AND PROFILE VIEWS OF ROCK CHUTE

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

FILE NAME
XXX

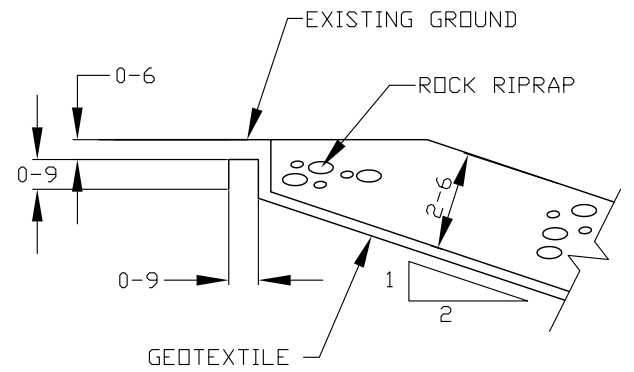
DRAWING NUMBER
AD4



TYPICAL SECTION VIEW B-B & C-C

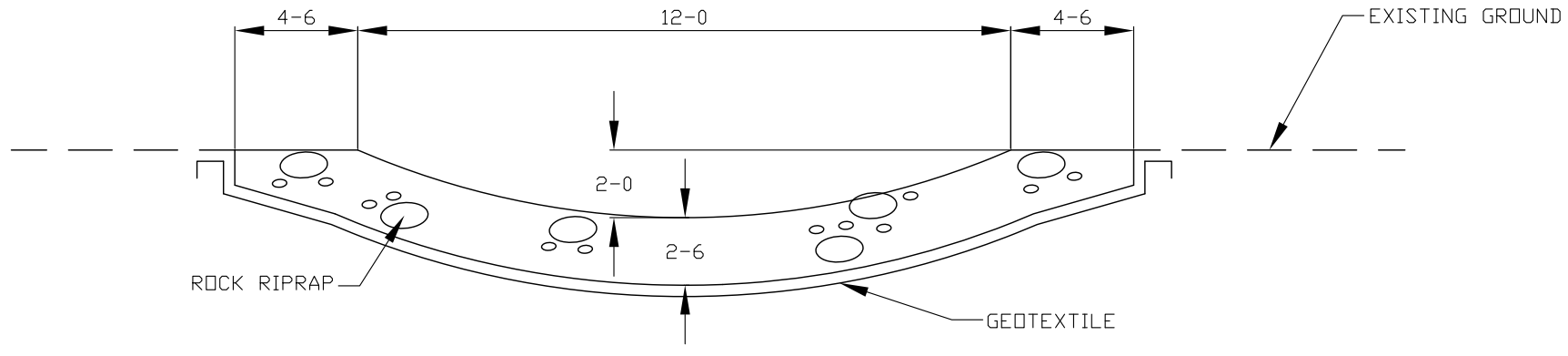
PROPOSED FINISHED CONDTIONS

NOT TO SCALE



GEOTEXTILE EMBEDMENT DETAILS

NOT TO SCALE



TYPICAL SECTION VIEW A-A

PROPOSED FINISHED CONDITIONS

NOT TO SCALE

NOTES:
1. THE ROCK RIPRAP SHALL HAVE A D50 OF 15 INCHES, AND A RANGE IN SIZE FROM 7 INCHES TO 24 INCHES IN DIAMETER.
2. THE GEOTEXTILE SHALL BE CLASS I, NONWOVEN, NEEDLE PUNCHED, ULTRAVIOLET RESISTANT, MINIMUM OF 8 OUNCES PER SQUARE YARD, AND MINIMUM OF 150 PSI TENSILE STRENGTH.

Date 01/14
Designed TAH
Drawn TAH
Checked TAH
Approved

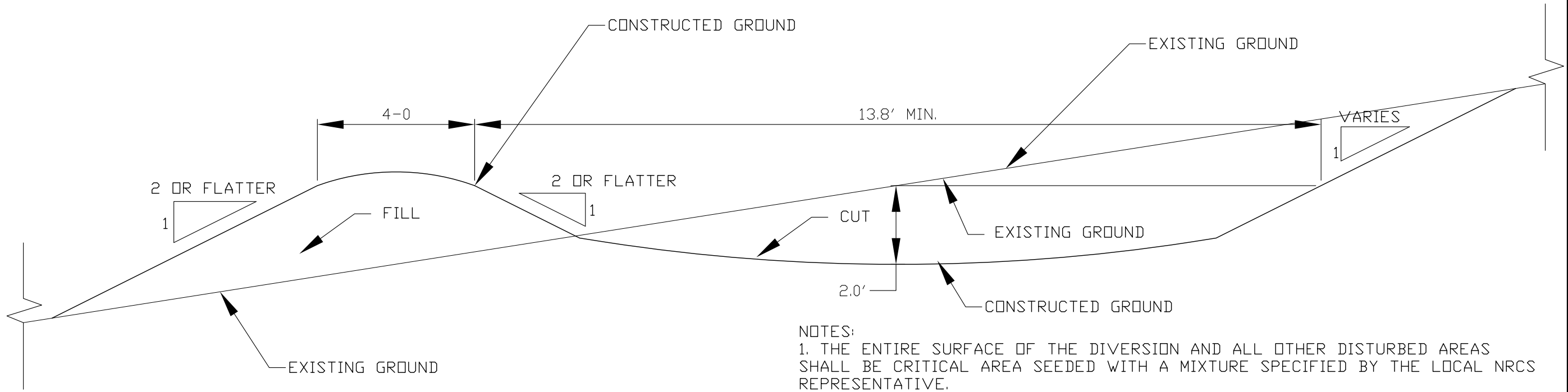
ALLEN DAIRY
ROCK RIPRAP CHUTE
MARSHALL CO., TN
ROCK RIPRAP CHUTE SECTION VIEW

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

FILE NAME
XXX

DRAWING NUMBER
AD5

Sheet 5 of 6



TYPICAL SECTION VIEW

DIVERSION

NOT TO SCALE

NOTES:

1. THE ENTIRE SURFACE OF THE DIVERSION AND ALL OTHER DISTURBED AREAS SHALL BE CRITICAL AREA SEEDED WITH A MIXTURE SPECIFIED BY THE LOCAL NRCS REPRESENTATIVE.
2. THE FILL MATERIAL USED TO CONSTRUCT THE DIVERSION SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 1' IN THICKNESS. EACH LIFT SHALL BE COMPACTED BY TRACK TYPE EQUIPMENT WALKING OVER THE ENTIRE SURFACE AREA A MINIMUM OF 2 TIMES PER LIFT.
3. THE DIVERSION AND ADJACENT AREAS SHALL BE FINISHED IN A RELATIVELY SMOOTH CONDITION READY FOR SEEDING. ALL ROCKS AND ROOTS 3" IN DIAMETER OR LARGER SHALL BE REMOVED FROM THE DIVERSION.
4. AFTER CONSTRUCTION, CARE SHALL BE TAKEN TO PROTECT THE DIVERSION FROM DAMAGE BY FARM EQUIPMENT, VEHICLES, AND LIVESTOCK UNTIL VEGETATION BECOMES PERMANENTLY ESTABLISHED. DO NOT USE THE DIVERSION AS A ROAD, A WALKWAY FOR LIVESTOCK, AND BE CAREFUL WHEN CROSSING TO PREVENT WHEEL TRACKS.
5. FERTILIZE DIVERSION ACCORDING TO SOIL TESTS THE FIRST SPRING OR FALL AFTER SEEDING, AND AS NECESSARY THEREAFTER TO MAINTAIN A VIGOROUS STAND OF GRASS.
6. ALL DISTURBED AREAS WITHIN THE DIVERSION CHANNEL AND BERM SHALL BE STABILIZED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKET S75, OR EQUIVALENT. ALL OTHER DISTURBED AREA SHALL BE MULCHED BY INSTALLING SMALL GRAIN STRAW MULCH AT A RATE OF 2.5 TONS PER ACRE (APPROXIMATELY 125 BALES PER ACRE). .
7. THE DIMENSIONS ON THE DRAWING ARE THE MINIMUM TO MEET NRCS STANDARDS. THERE WILL PROBABLY BE AN AREA CLOSE TO THE ACCESS ROAD THAT WILL NEED TO BE BROADER AND FLATTER TO ALLOW FOR VEHICLE TRAFFIC. ALTHOUGH NOT REQUIRED, THE DIVERSION MAY NEED TO BE 25' TO 30' OF TOP WIDTH IN THE AREAS THAT REQUIRE VEHICLE CROSSINGS.
8. THE DIVERSION CHANNEL SLOPE SHALL BE 1%.
9. THE DIVERSION SHALL TRANSITION SMOOTHLY INTO THE ENTRANCE TO THE ROCK RIPRAP CHUTE.
10. I'VE ATTACHED NORTH AMERICAN GREEN MATERIAL SPECIFICATIONS FOR THE ECB, AND I'VE INCLUDED STAPLE PATTERN DRAWINGS AND ANCHORING DRAWINGS TO ASSIST WITH CONTRUCTION.

		Date
Designed	TAH	1/14
Drawn	TAH	1/14
Checked	TAH	1/14
Approved		

ALLEN DAIRY
DIVERSION
MARSHALL CO., TN
TYPICAL SECTION VIEW DETAILS

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

FILE NAME
XXX

DRAWING NUMBER
AD6