



11 Clearwater Drive
Little Rock, AR 72204
501.688.1400

Specification Details Index

7/22/2009 11:25:16 AM

Erosion Control Details (ECD)

Standard Details

LRW ECD 3.00	Rock Check Dam
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LRW ECD 3.03	Straw Bale Dike
LRW ECD 3.04	Straw Bale/Gravel Drop Inlet Sediment Barrier
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LRW ECD 3.27	Curb Inlet Sediment Barrier (Block & Gravel)
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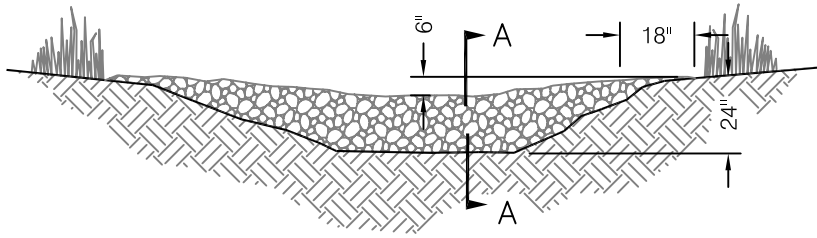
ROCK CHECK DAM



Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:38:56 AM
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Filename: LRW ECD 3.00.dwg

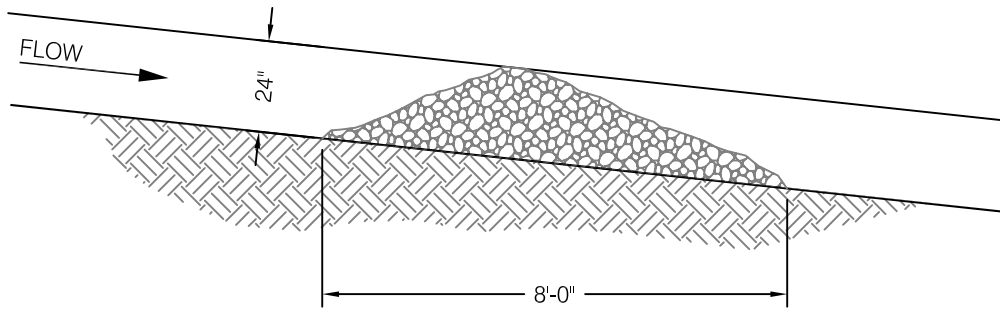
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Notes



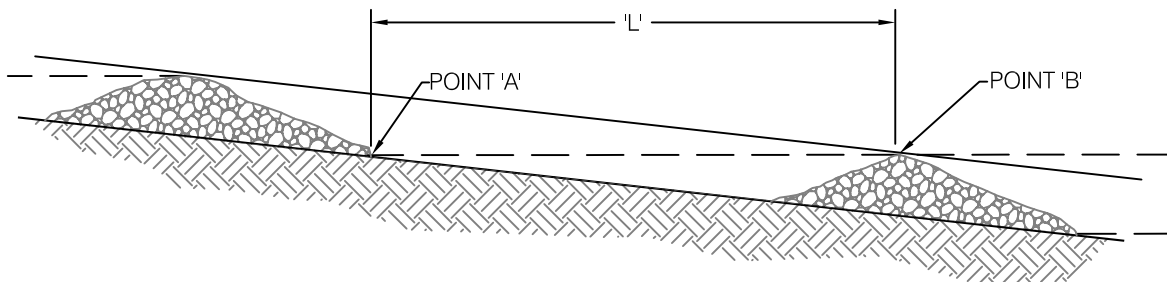
VIEW LOOKING UP STREAM

NOTE: KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT OVERFLOW AROUND DAM.



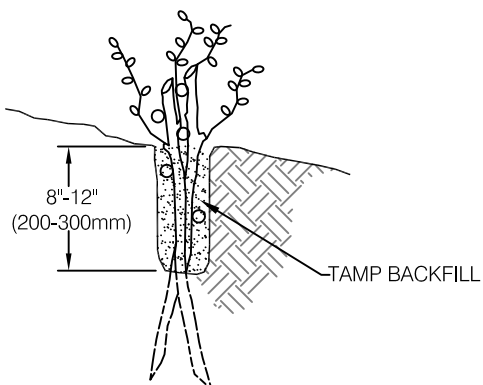
SECTION A-A

'L' = THE DISTANCE SUCH THAT POINTS 'A' AND 'B' ARE OF EQUAL ELEVATION.

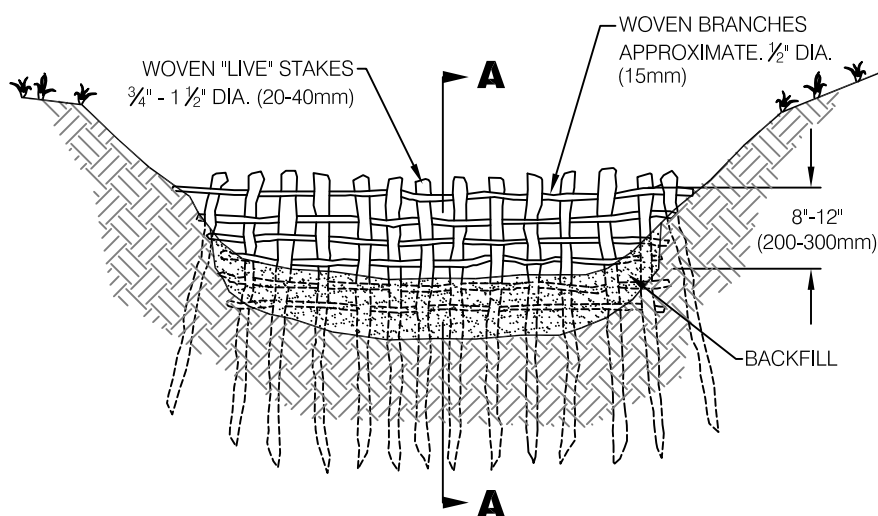


SPACING BETWEEN CHECK DAMS

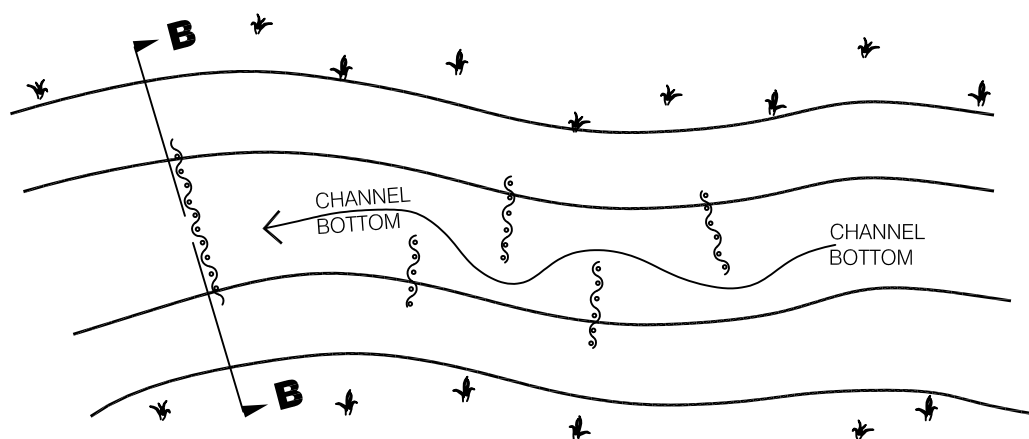
WILLOW CUTTING
AND PLANTING
SHOULD BE
PERFORMED WHEN
PLANT MATERIAL IS
DORMANT.



SECTION A - A



SECTION B - B



WOVEN WILLOW (LIVE) CHECKDAMS
ACT AS VELOCITY DISSIPATORS TO
REDUCE GULLY DOWNCUTTING

WOVEN WILLOW CHECK DAM



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Filename: LRW ECD 3.01.dwg

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1.

Notes

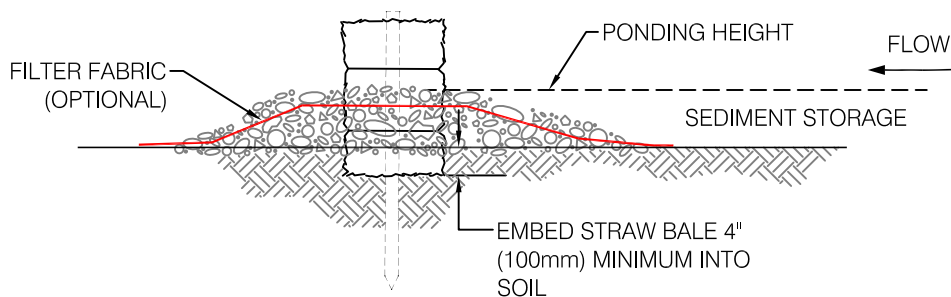
SEMI-PERVIOUS STRAW BALE SEDIMENT BARRIER



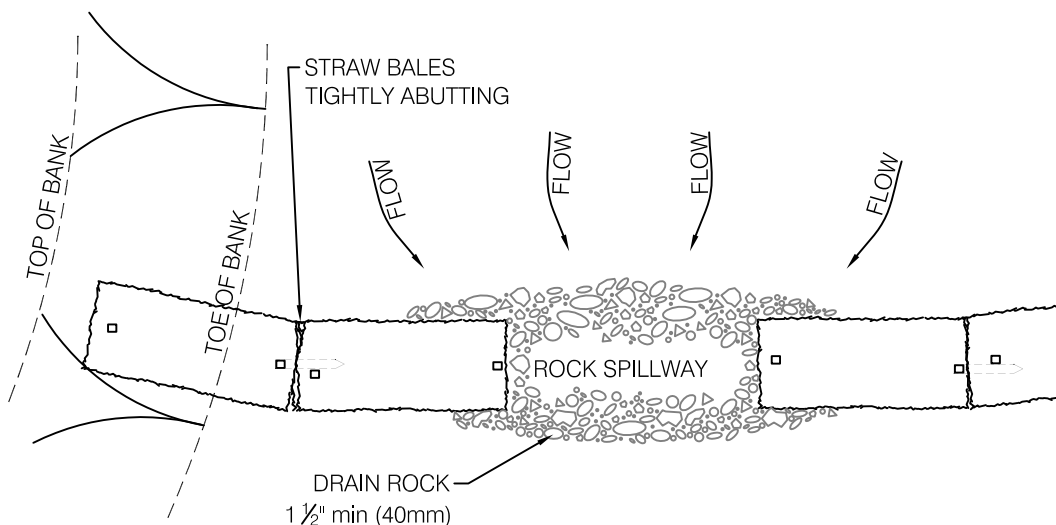
Prepared By: Evangeline O'Neal
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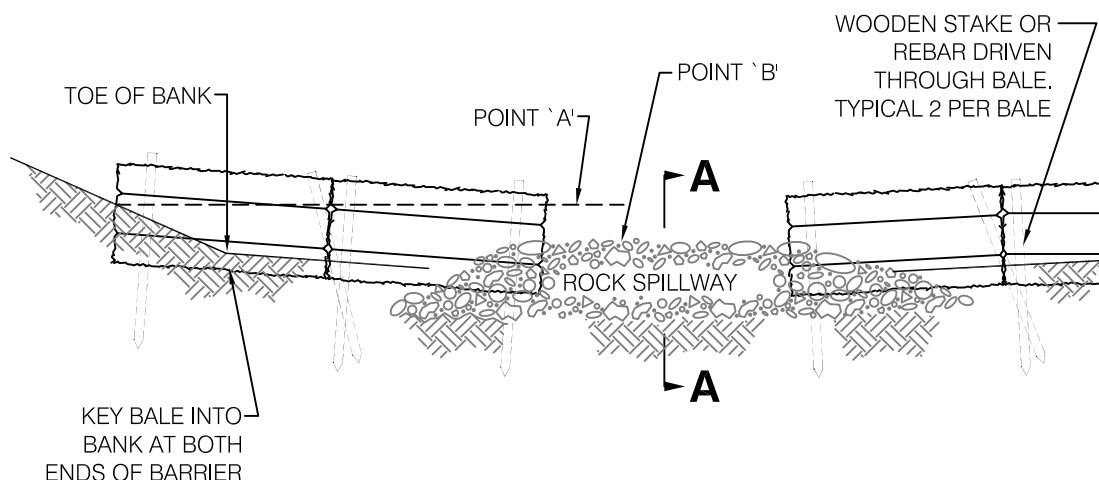
Notes



SECTION A - A



PLAN



VIEW LOOKING UPSTREAM

NOTES:

1. PLACE BALES PERPENDICULAR TO FLOW.
2. EMBED THE BALE 4" (100mm) INTO THE SOIL AND "KEY" THE END BALES INTO THE CHANNEL BANKS TO PREVENT FLOW AROUND THE BALES.
3. BALES PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
4. POINT "A" SHALL BE HIGHER THAN POINT "B".
5. SPILLWAY HEIGHT SHALL NOT EXCEED 24" (0.6m).

STRAW BALE DIKE

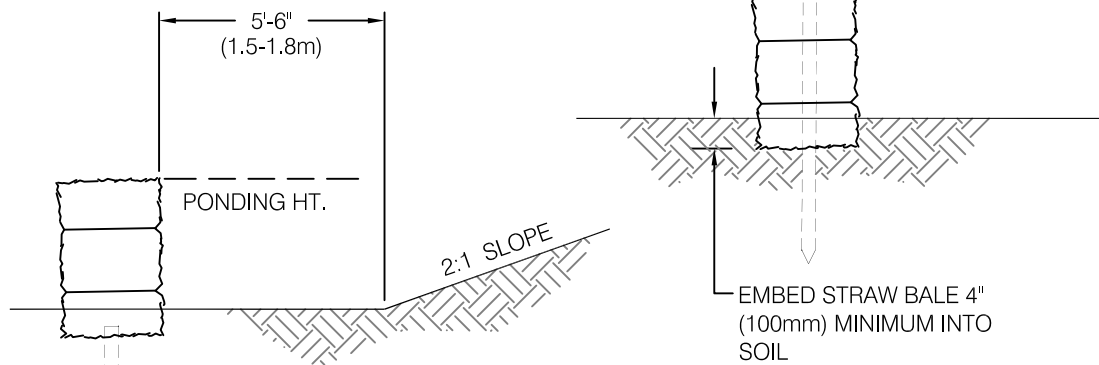


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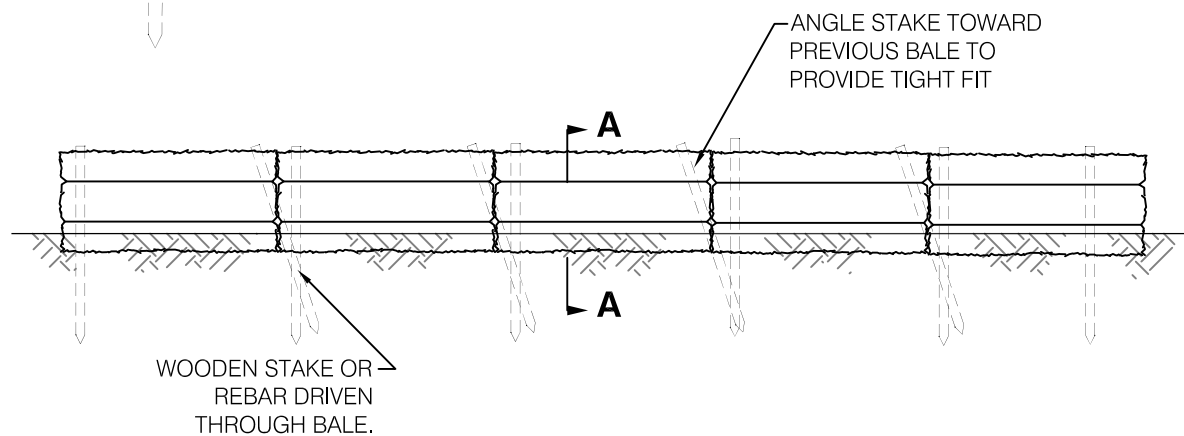
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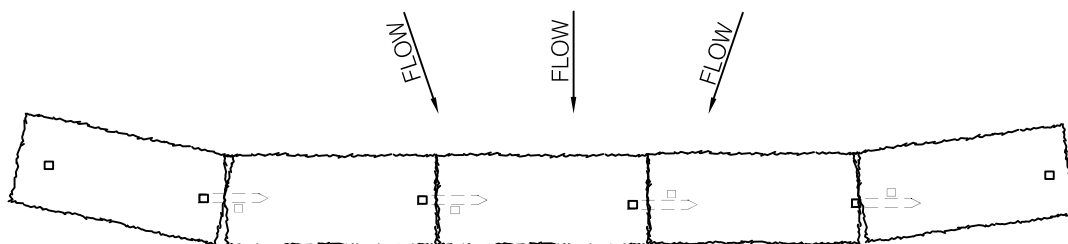
Notes



SECTION A - A



SECTION B - B



PLAN

NOTES:

1. THE STRAW BALES SHALL BE PLACED ON SLOPE CONTOUR.
2. BALES TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING.
3. KEY IN BALES TO PREVENT EROSION OR FLOW UNDER BALES.

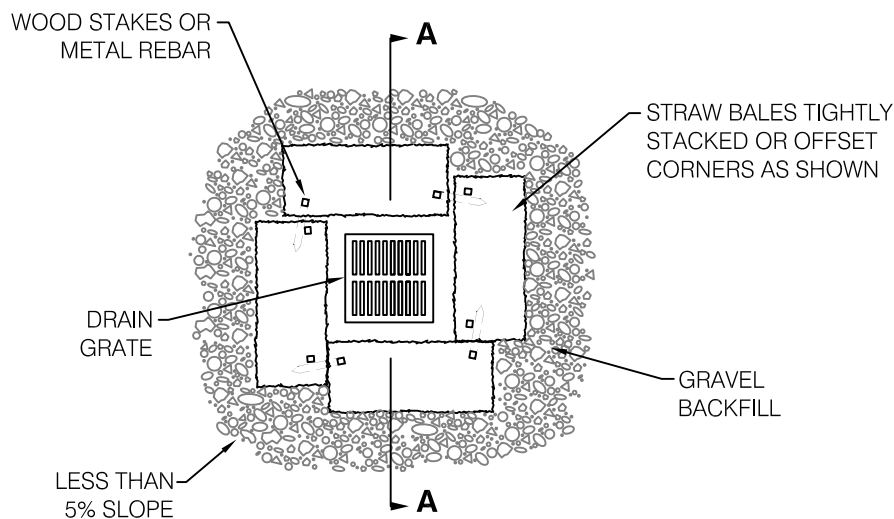
STRAW BALE/GRAVEL DROP INLET SEDIMENT BARRIER



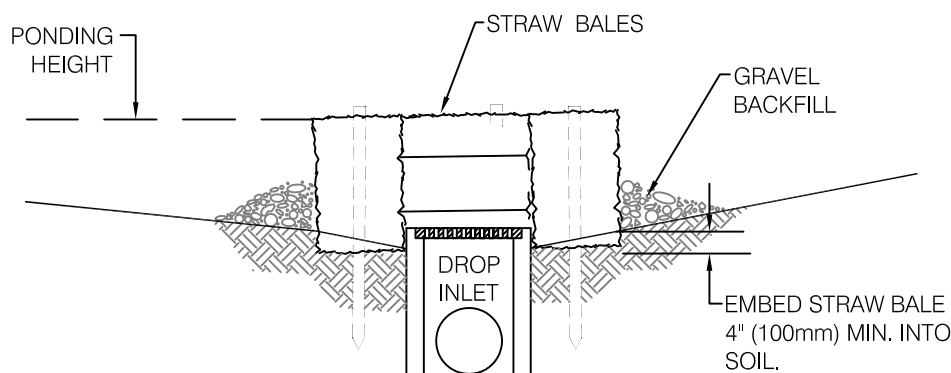
Prepared By: Evangeline O'Neal
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Notes



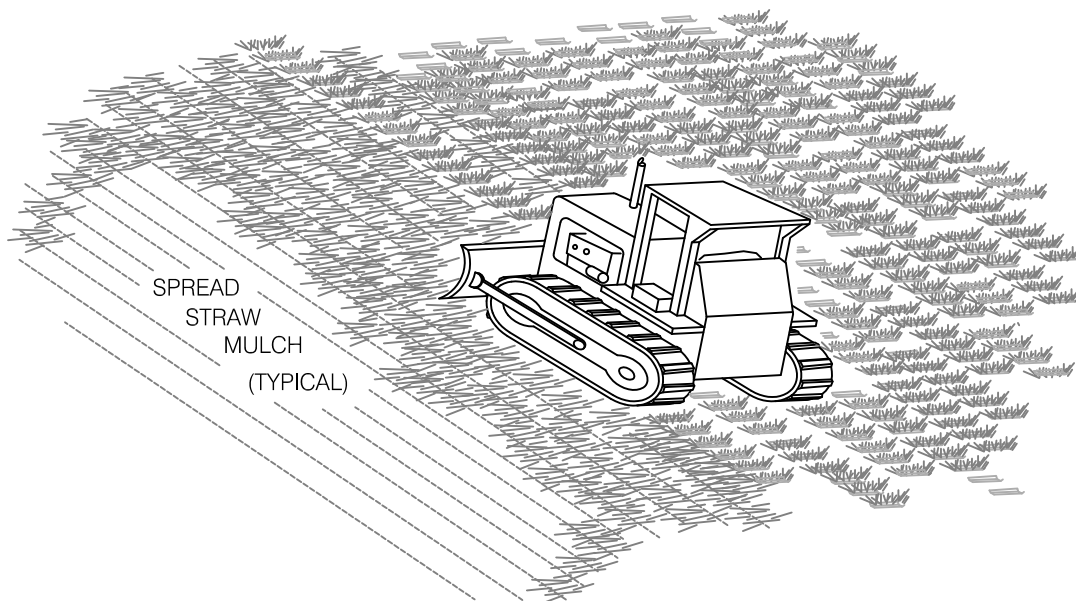
PLAN VIEW



SECTION A-A

NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EMBED THE BALES 4" (100mm) INTO THE SOIL AND OFFSET CORNERS OR PLACE BALES WITH ENDS TIGHTLY ABUTTING. GRAVEL BACKFILL WILL PREVENT EROSION OR FLOW AROUND THE BALES.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.



STRAW ANCHORING

'TRACKING' WITH MACHINERY ON SANDY SOIL PROVIDES ROUGHENING WITHOUT UNDUE COMPACTION.

NOTES:

1. ROUGHEN SLOPE WITH BULLDOZER
2. BROADCAST SEED AND FERTILIZER.
3. SPREAD STRAW MULCH 3" (76mm) THICK.
(2 ½ TONS PER ACRE)
4. PUNCH STRAW MULCH INTO SLOPE BY
RUNNING BULLDOZER UP AND DOWN SLOPE.

STRAW ANCHORING

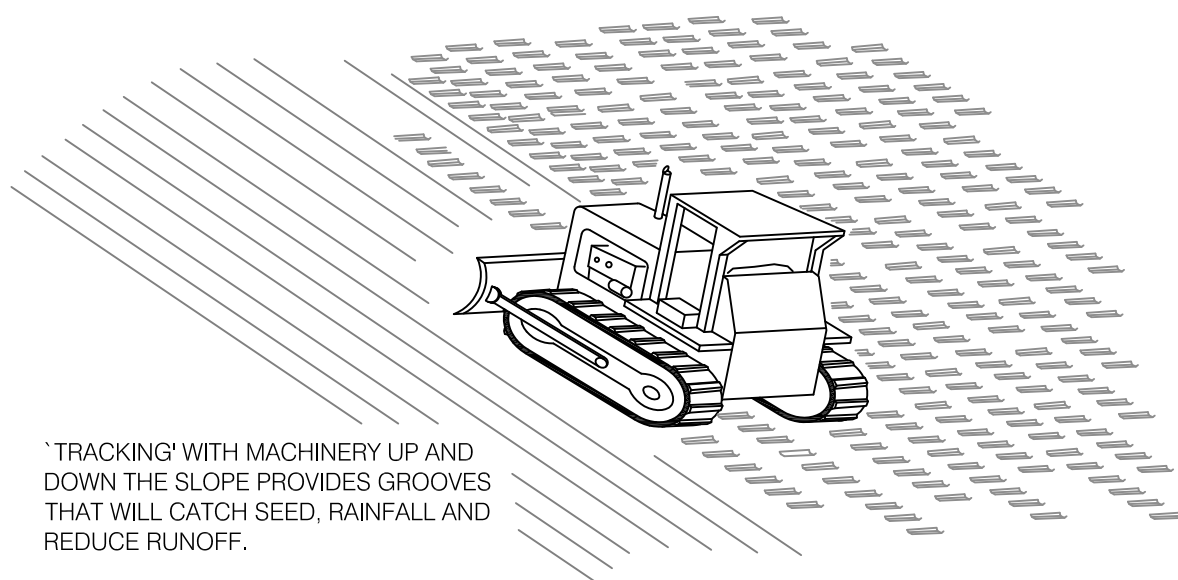
SURFACE ROUGHENING



Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:47:32 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.06.dwg

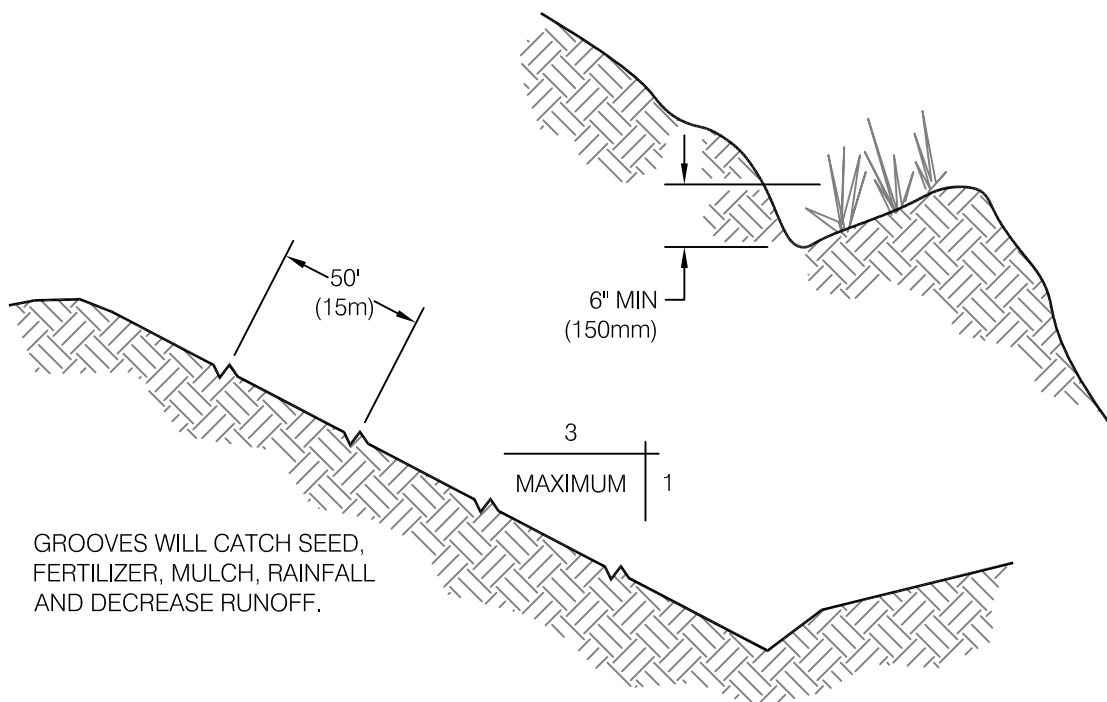
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Notes



'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, RAINFALL AND REDUCE RUNOFF.

TRACKING



GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

CONTOUR FURROWS

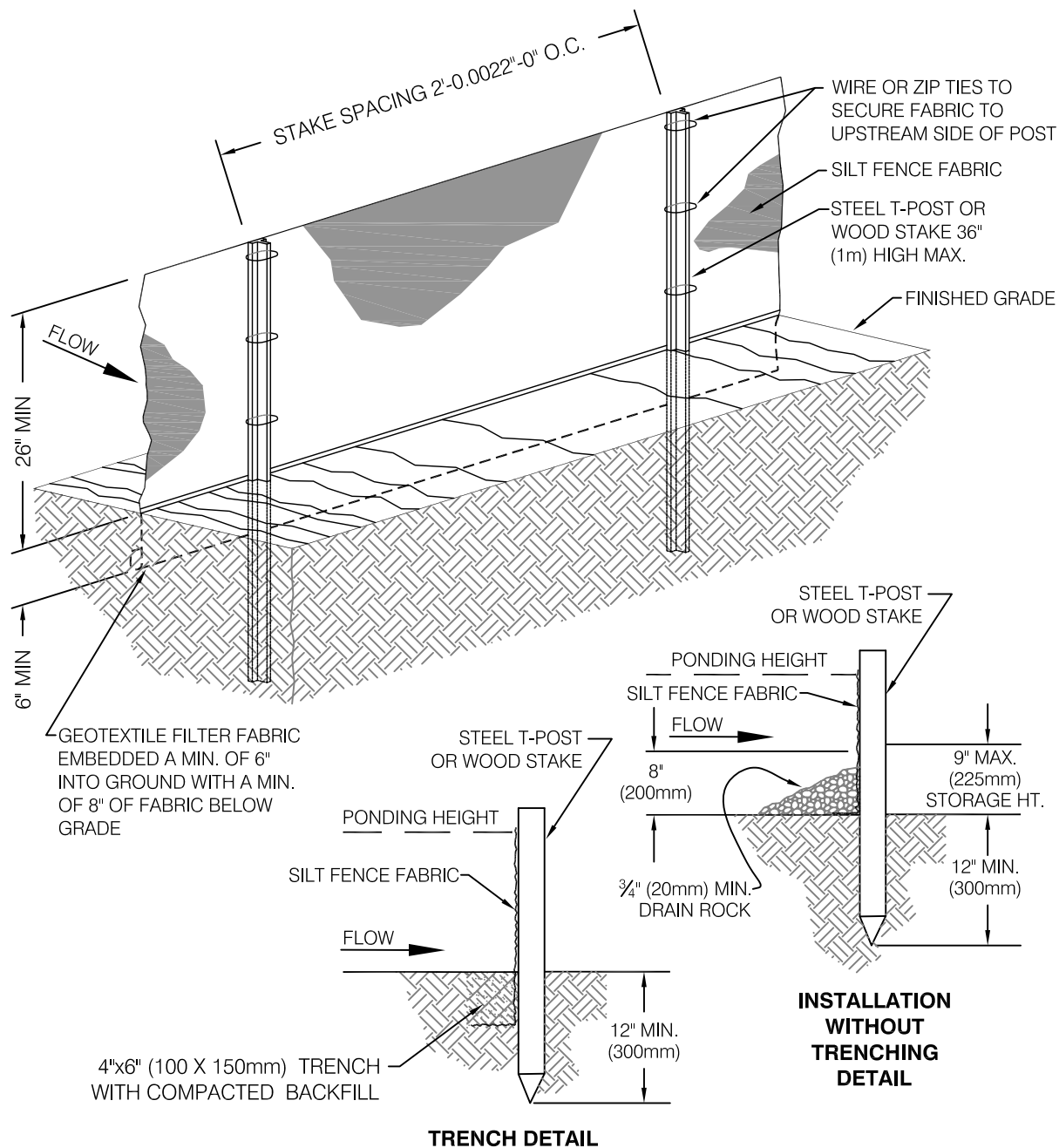
SILT FENCE



Prepared By: Evangeline O'Neal
 Updated: 7/22/2009 10:48:14 AM
 Drawing Status: **APPROVED**
 Filename: LRW ECD 3.07.dwg

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Notes



1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE GROUND COVER IS REMOVED. CLEARING, GRUBBING, AND STUMPING CAN OCCUR BEFORE SILT FENCE INSTALLATION IF GROUND COVER IS NOT REMOVED.
2. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
3. A RUN OF SILT FENCE SHOULD FOLLOW THE CONTOUR AS CLOSE AS POSSIBLE WITH THE ENDS TURNED UPSLOPE TO POND WATER BEHIND THE FENCE.
4. THE STAKES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE. THE STAKES SHALL BE A MIN. OF 2x2 NOMINAL (1-1/2" x 1-1/2" ACTUAL) HARDWOOD STAKE OF SOUND QUALITY. T-POSTS MAY BE SUBSTITUTED IF GROUND CONDITIONS REQUIRE.
5. WHERE TWO SILT FENCE SECTIONS ARE COMBINED INTO ONE RUN THE END STAKES SHALL BE CONNECTED TOGETHER, NOT SIMPLY OVERLAPPED.
6. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) AN ADDITIONAL RUN OF SILT FENCE SHALL BE PLACED UPSTREAM, 2) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 3) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 4) OTHER PRACTICES SHALL BE IMPLEMENTED.
7. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. MAX. RECOMMENDED STORAGE HEIGHT IS 9" (225mm).
8. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE TYPICAL PLACEMENT - ONE SLOPE

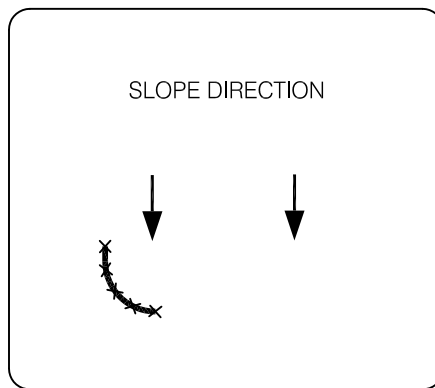
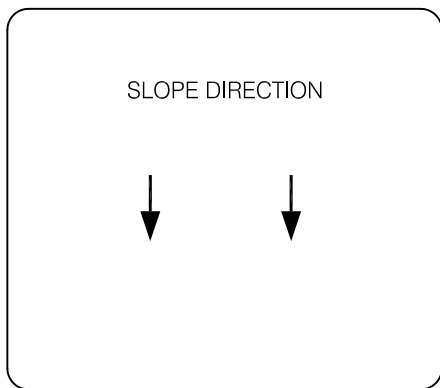


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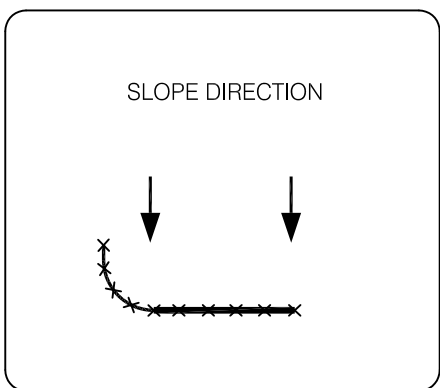
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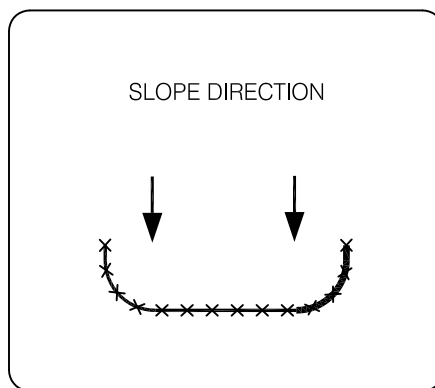
INSTALLATION WITH J-HOOKS OR 'SMILES' INCREASE SILT FENCE EFFICIENCY.



**STEP 1
CONSTRUCT LEG**



**STEP 2
CONSTRUCT DAM**



**STEP 3
CONSTRUCT LEG 2**

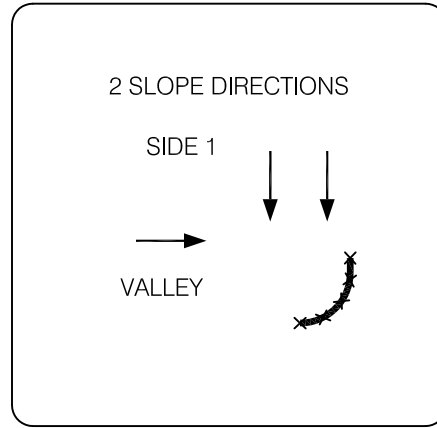
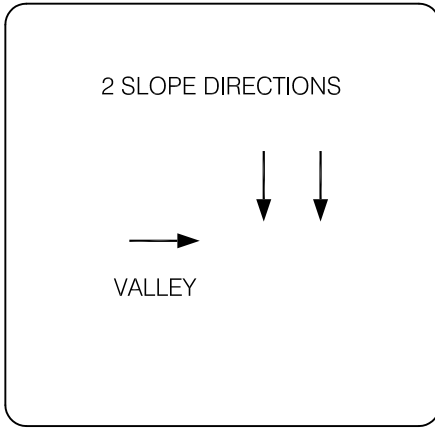
SILT FENCE TYPICAL PLACEMENT - TWO SLOPES



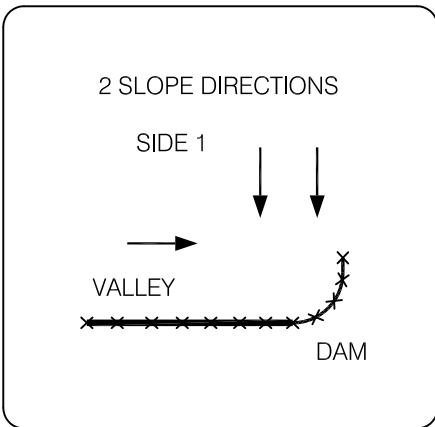
Prepared By: Evangeline O'Neal
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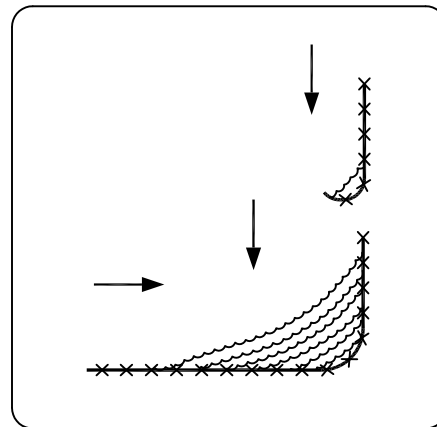
Notes



**STEP 1
CONSTRUCT A DAM**



**STEP 2
CONSTRUCT SIDE 2**



**STEP 3
CONSTRUCT J-HOOKS
AS NEEDED**

INSTALLATION WITH J-HOOKS WILL INCREASE SILT FENCE EFFICIENCY AND REDUCE EROSION-CAUSING FAILURES.

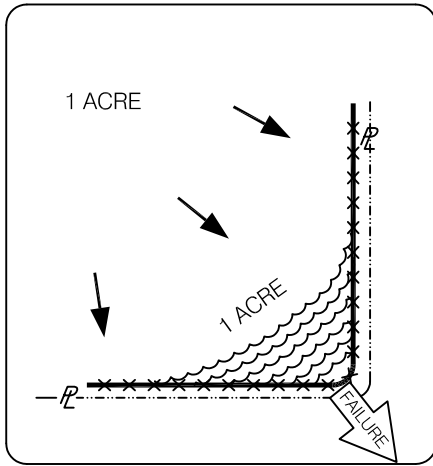
SILT FENCE PLACEMENT FOR PERIMETER CONTROL



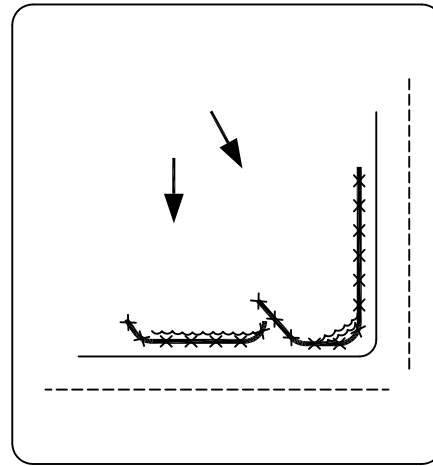
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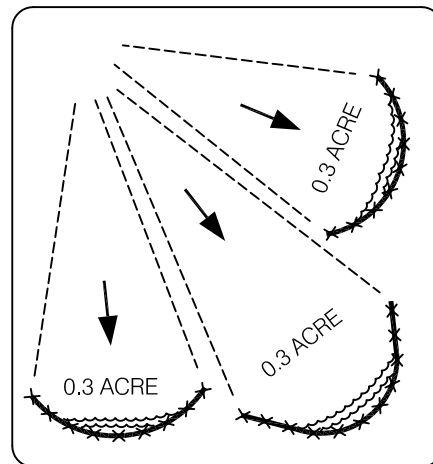
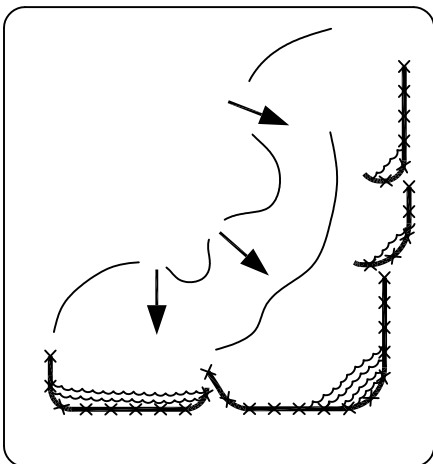
Notes



Incorrect - Do Not layout "perimeter control" silt fences along property lines. All sediment laden runoff will concentrate and overwhelm the system.



Correct - Install J-hooks



Discreet segments of silt fence, installed with J-hooks or 'smiles' will be much more effective.

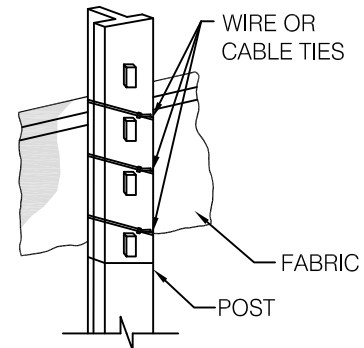
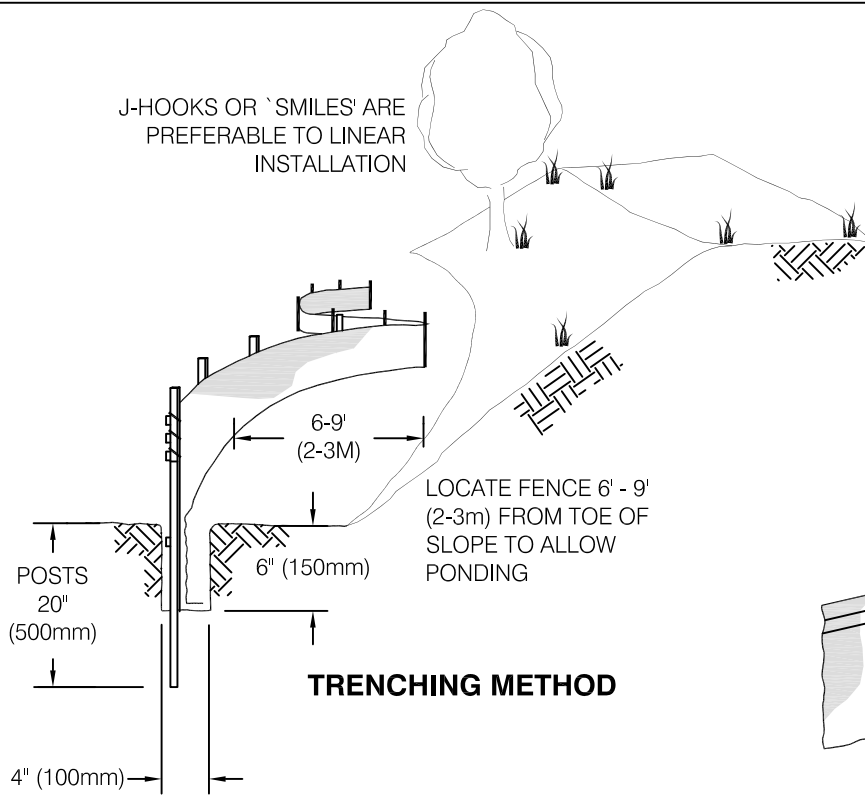
SILT FENCE INSTALLATION



Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:50:59 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.11.dwg

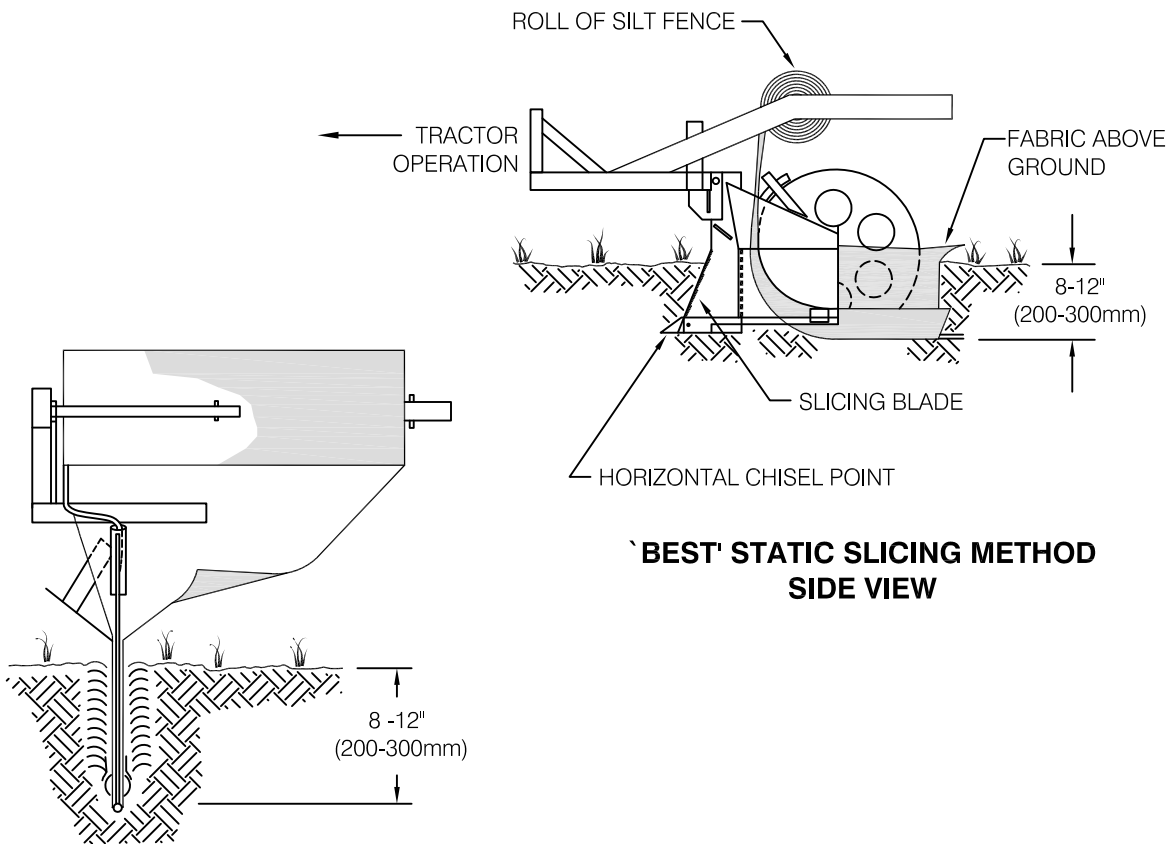
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Notes



'BEST' T-POST WITH ATTACHMENT TO POST

USE STEEL T-POST IF CANNOT ACHIEVE 500mm DEPTH WITH WOOD POSTS.



'BEST' STATIC SLICING METHOD SIDE VIEW

'BEST' STATIC SLICING METHOD BACK VIEW

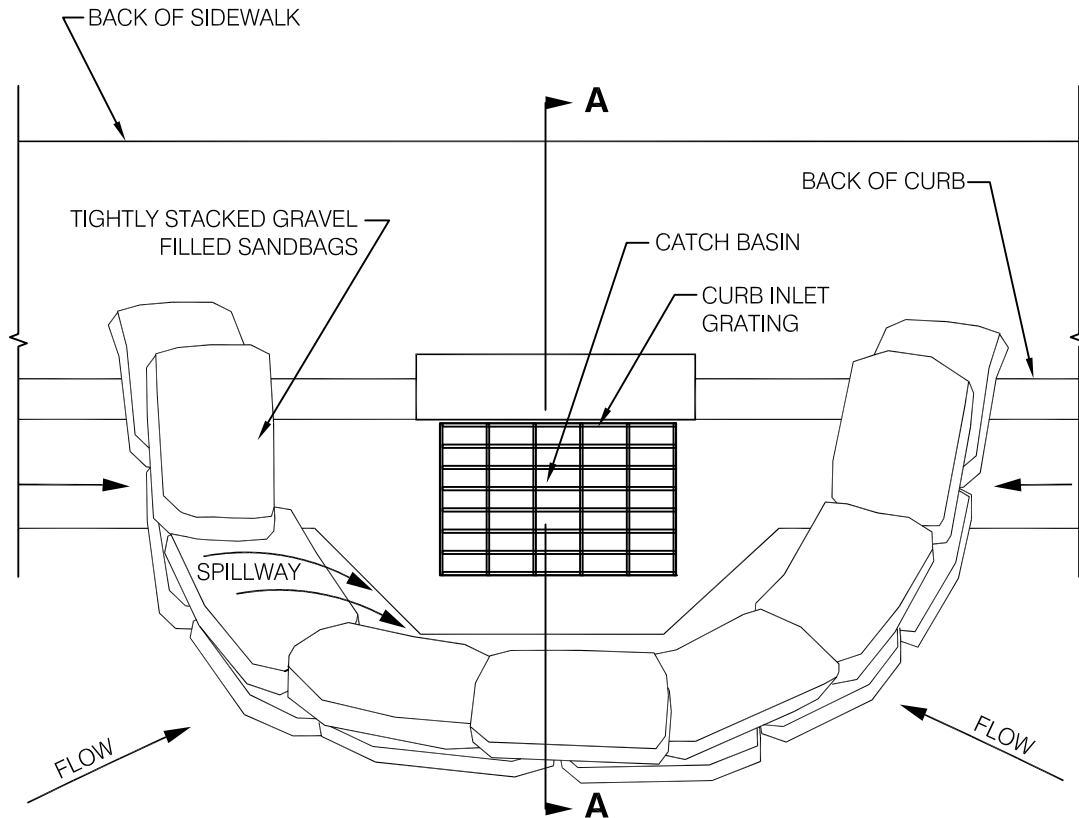
CURB INLET SEDIMENT BARRIER (SANDBAGS)



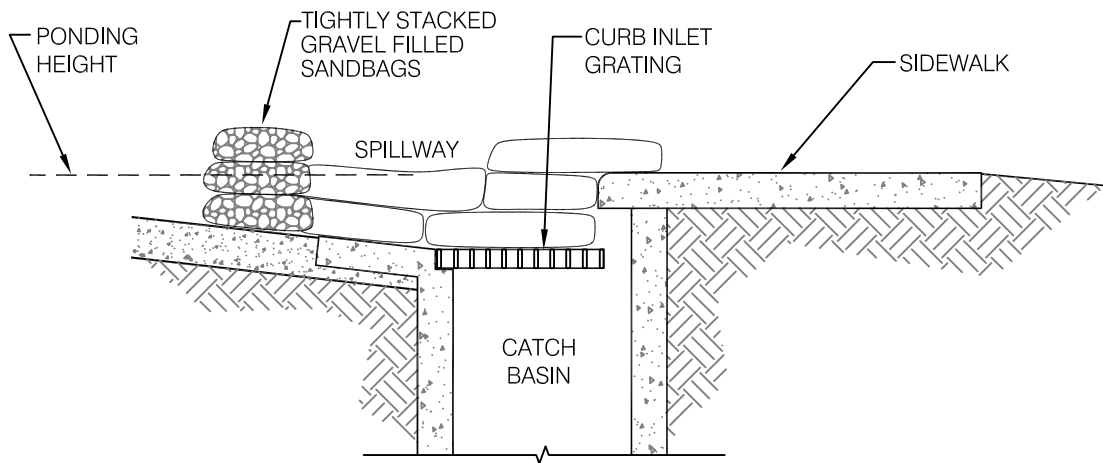
Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:51:38 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.12.dwg

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Notes



PLAN VIEW



SECTION A - A

NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

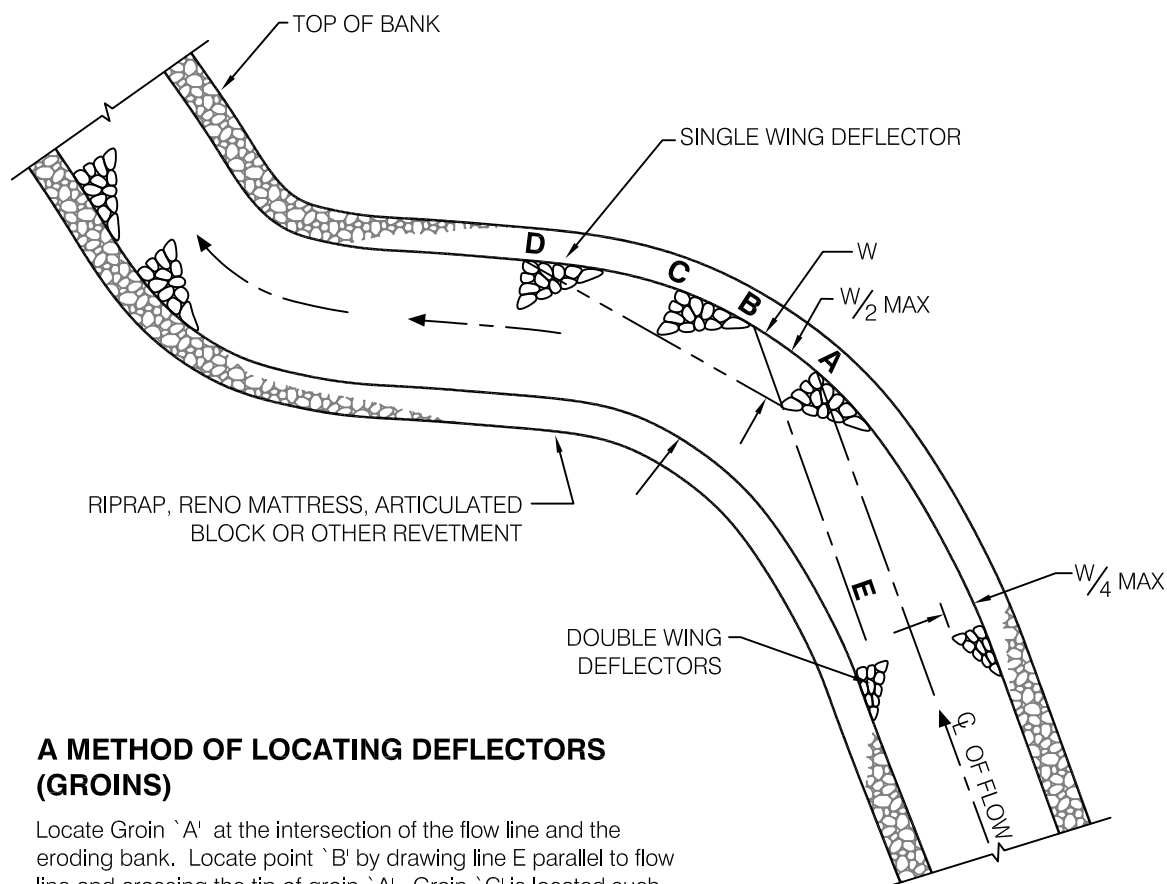
ROCK DEFLECTOR



Prepared By: Evangeline O'Neal
 Updated: 7/22/2009 10:52:20 AM
 Drawing Status: **APPROVED**
 Filename: LRW ECD 3.13.dwg

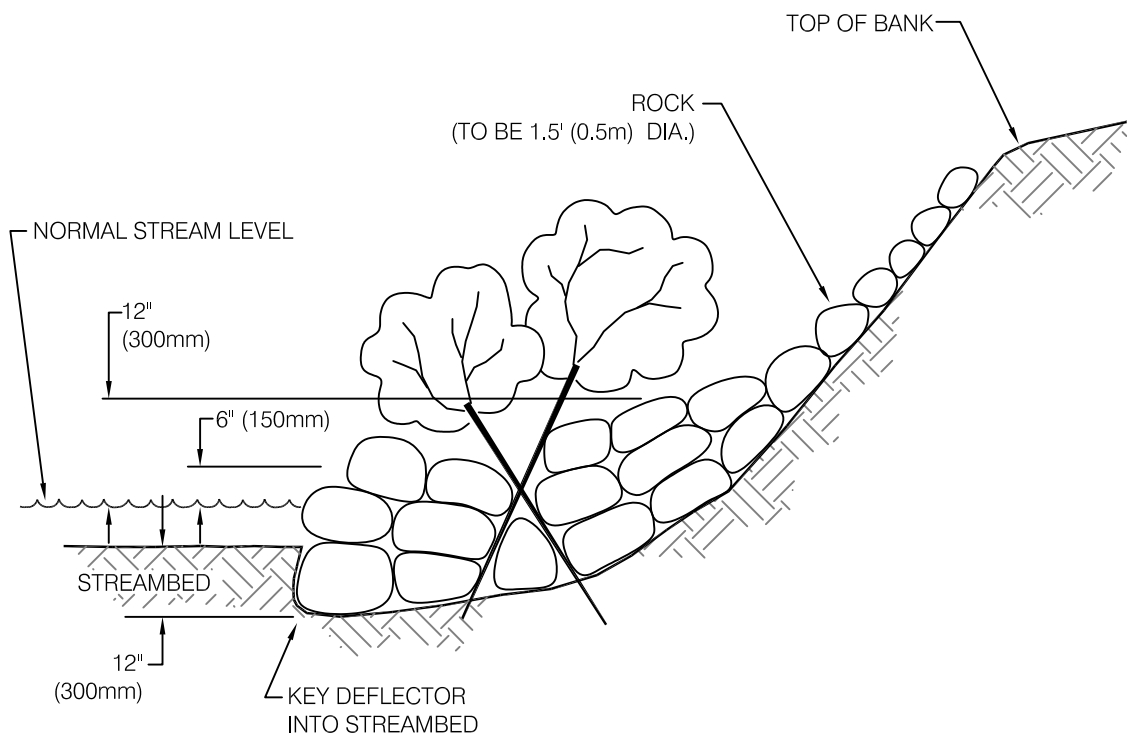
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Notes

A METHOD OF LOCATING DEFLECTORS (GROINS)

Locate Groin 'A' at the intersection of the flow line and the eroding bank. Locate point 'B' by drawing line E parallel to flow line and crossing the tip of groin 'A'. Groin 'C' is located such that AC is twice AB. Groin 'D' is located by projecting a line across the tips of Groin 'A' and Groin 'C'.



CROSS SECTION

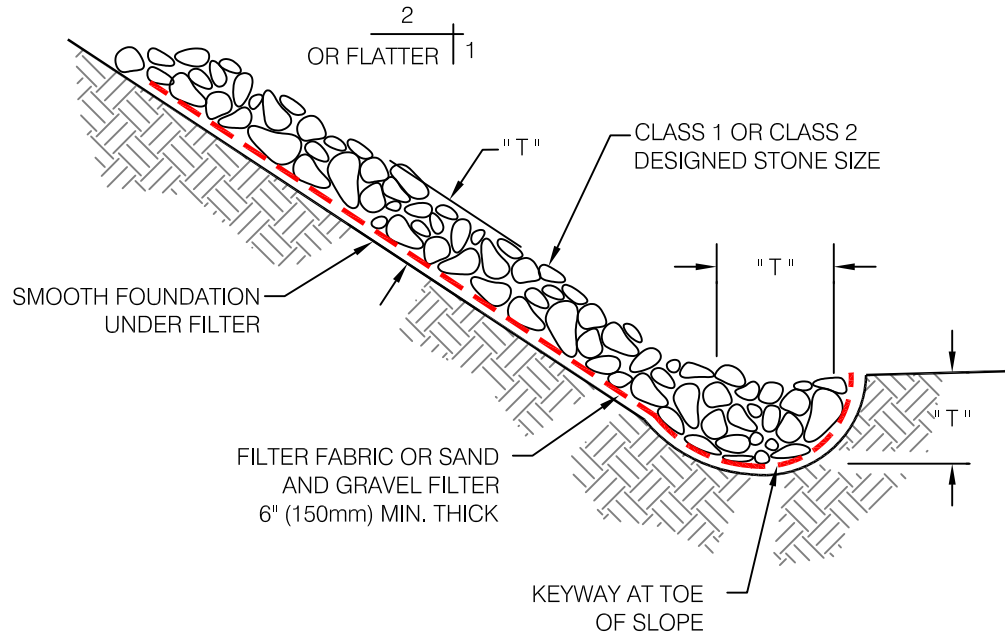
RIPRAP PROTECTION



Prepared By: Evangeline O'Neal
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 Filename: LRW ECD 3.14.dwg

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Notes



TYPICAL SECTION

NOTES:

1. "T" = THICKNESS; THICKNESS SHALL BE DETERMINED BY THE ENGINEER.
2. MIN. THICKNESS SHALL BE 1.5x THE MAX. STONE DIA. (*NEVER LESS THAN 6" (150mm).*)

ROCK LINED CHANNEL

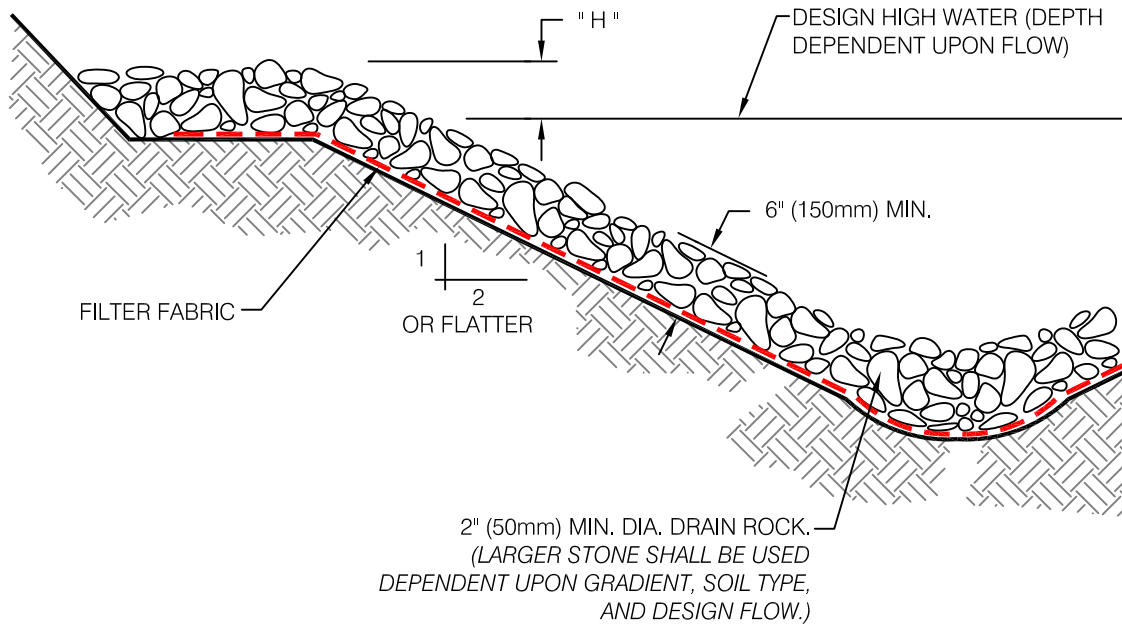


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Filename: LRW ECD 3.15.dwg

Notes

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DESIGN HEIGHT ("H"), WIDTH AND STONE SIZE SHALL BE DETERMINED BY THE ENGINEER



TYPICAL SECTION

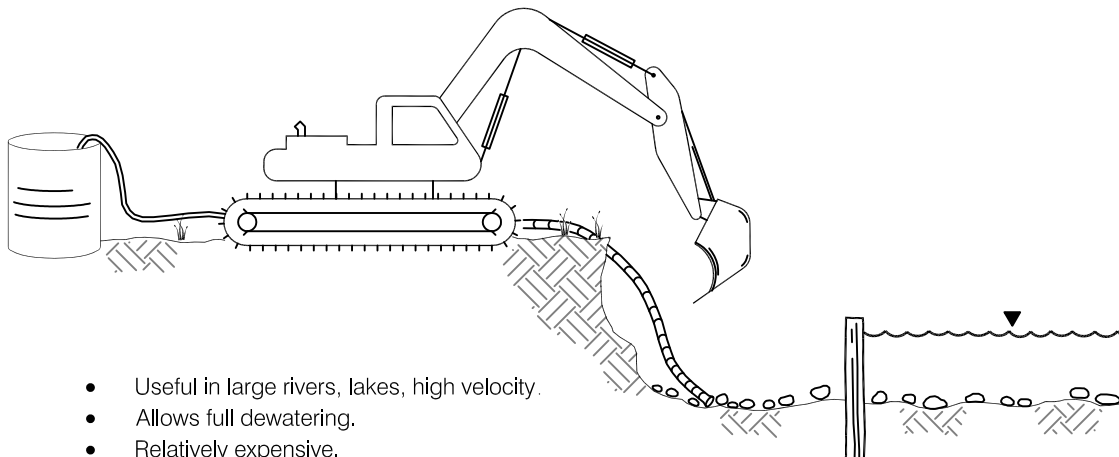
IN-STREAM EROSION AND SEDIMENT CONTROL ISOLATION TECHNIQUES



Prepared By: Evangeline O'Neal
 Updated: 7/22/2009 10:54:19 AM
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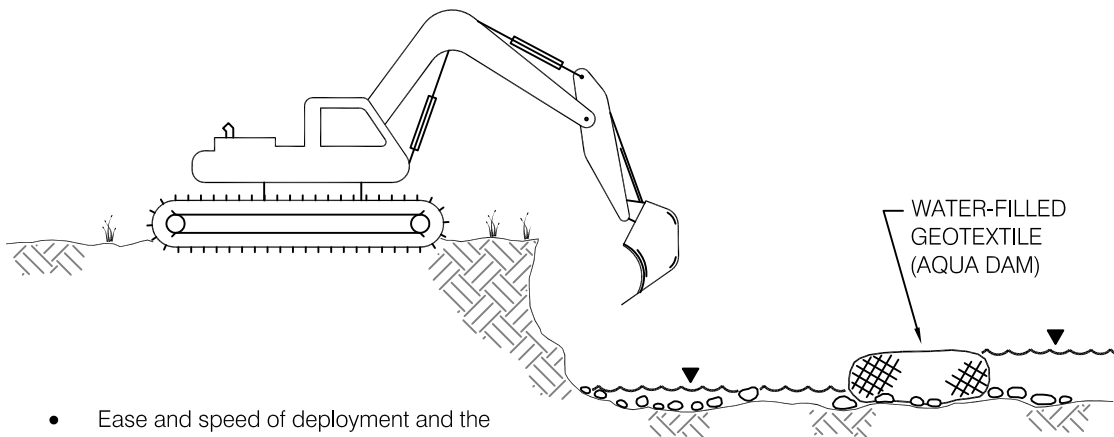
1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.

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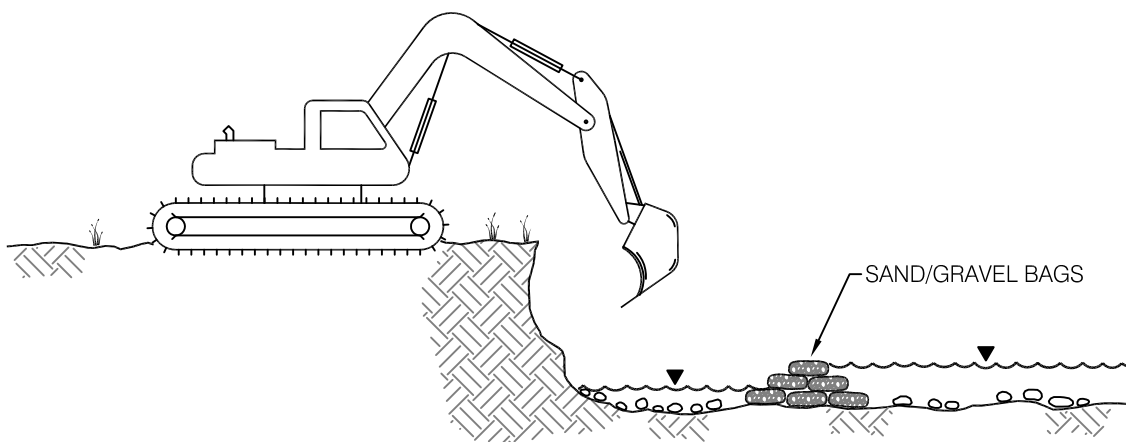
- Useful in large rivers, lakes, high velocity.
- Allows full dewatering.
- Relatively expensive.
- Not really appropriate for small streams.
- Requires staging and heavy equipment access areas.

SHEET PILE ENCLOSURES



- Ease and speed of deployment and the protection of the wetland environment.
- Allows partial dewatering.
- Construction and repairs to seawalls and groins.
- Silt containment and sediment collection.
- Can be designed for small streams to large rivers.
- Erosion control through diversion or containment.
- Moderately expensive.

WATER-FILLED GEOTEXTILE (AQUA DAM)



- Inexpensive.
- Difficult to dewater.
- Labor intensive to install and remove.
- Sand may be deposited in stream if bags break, better to use clean gravel.

SAND BAG/GRAVEL BAG TECHNIQUE

IN-STREAM EROSION AND SEDIMENT CONTROL ISOLATION TECHNIQUES



Prepared By: Evangeline O'Neal
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1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.

Notes

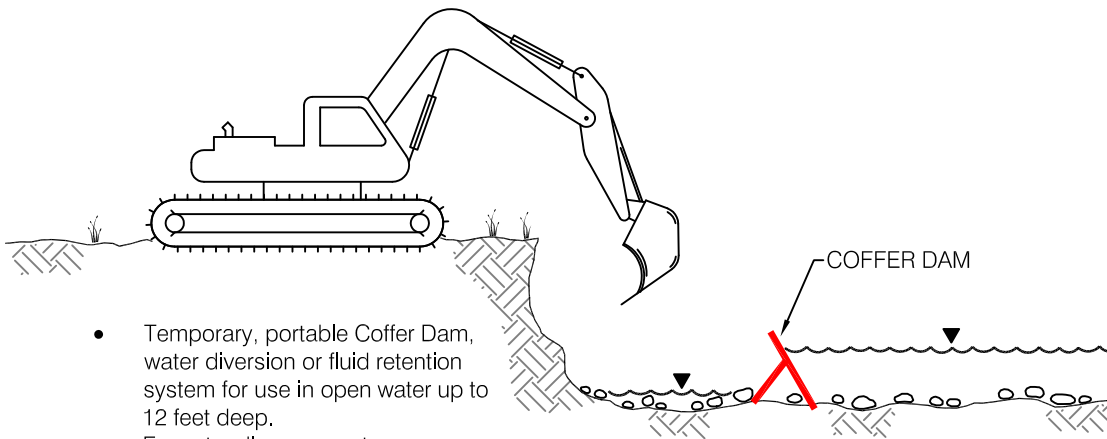
IN-STREAM EROSION AND SEDIMENT CONTROL ISOLATION TECHNIQUES



Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:55:42 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.18.dwg

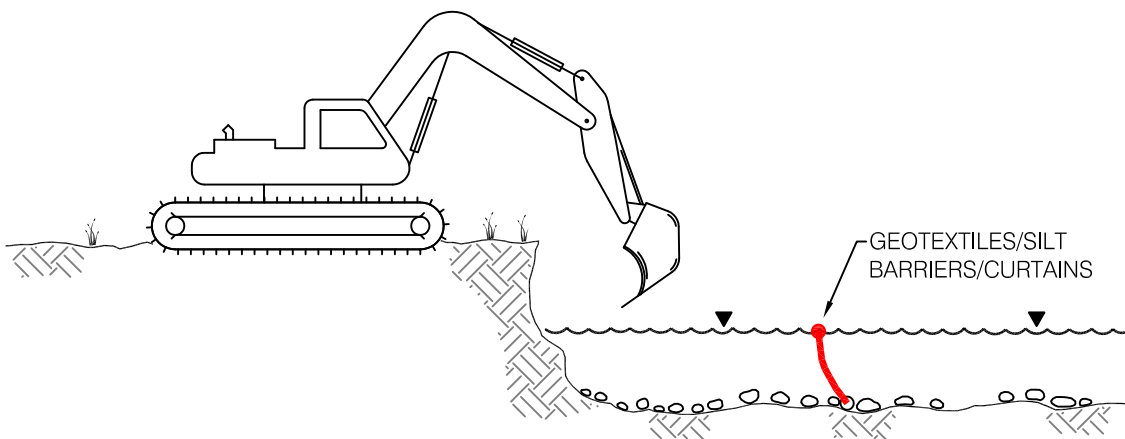
1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.

Notes



- Temporary, portable Coffer Dam, water diversion or fluid retention system for use in open water up to 12 feet deep.
- Free standing - many types available.
- Easy installation.
- Allows partial dewatering.
- Can be designed for large and small streams.
- Relatively expensive.

COFFER DAMS



- Used in slow water or lakes only.
- Inexpensive.
- Does not allow dewatering.
- Not very effective especially when removing.

GEOTEXTILES, SILT BARRIERS, CURTAINS

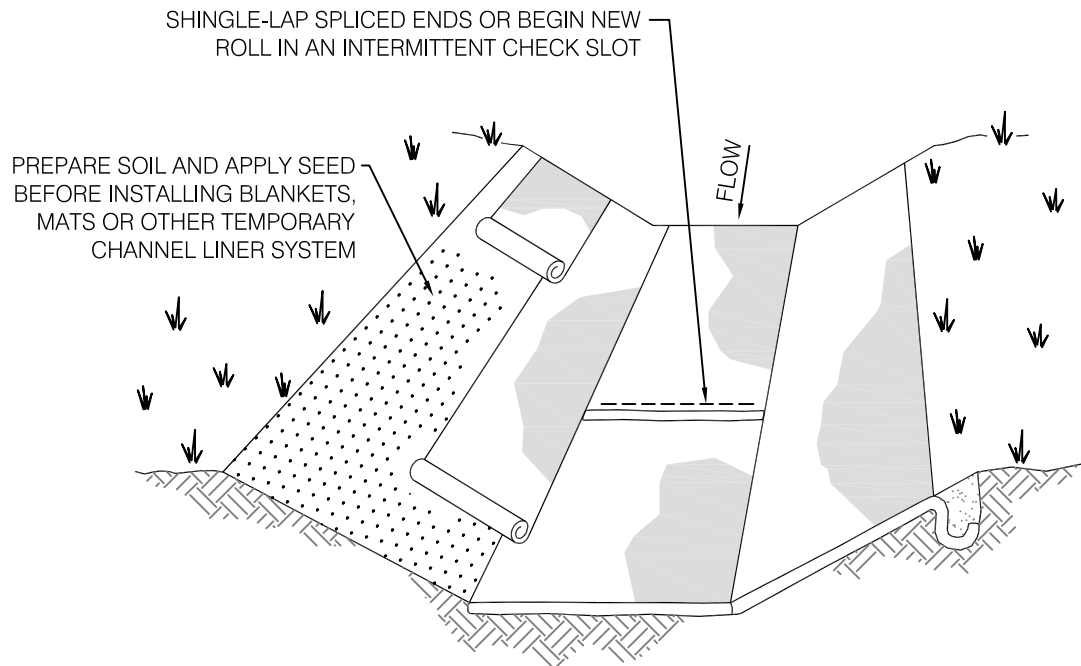
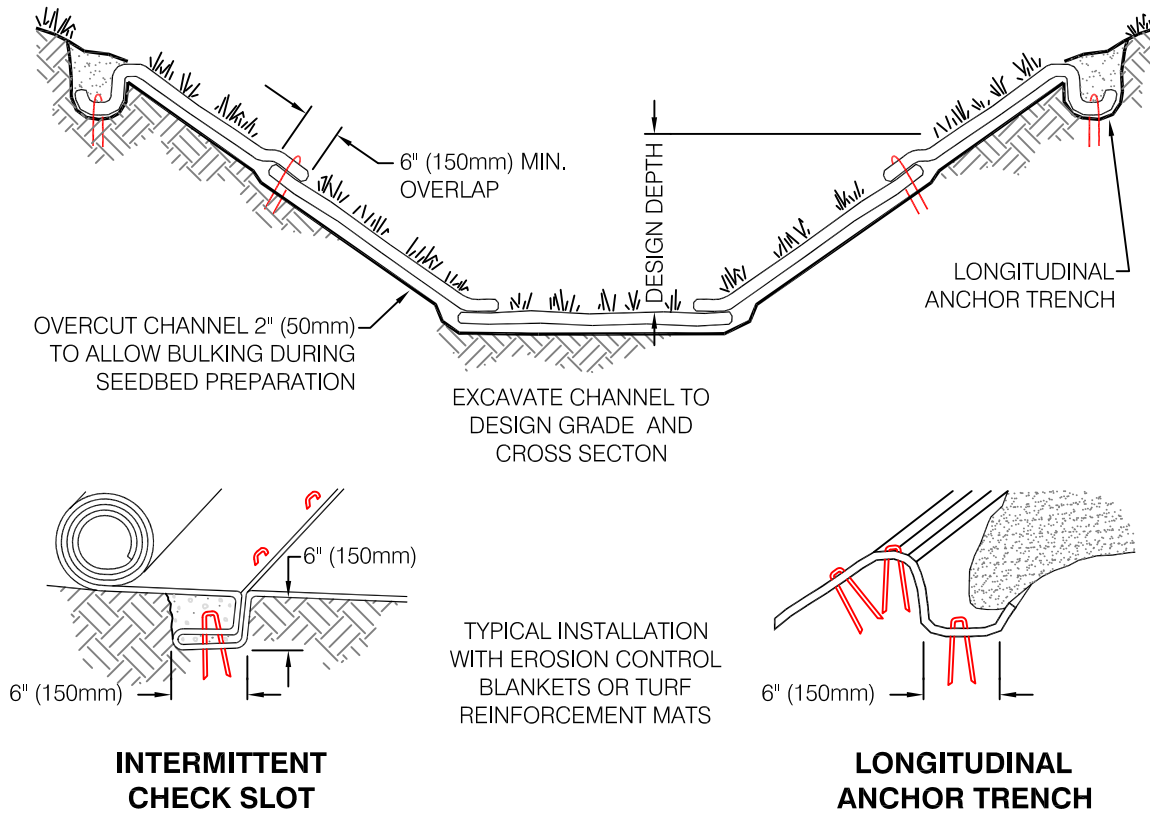
GRASS-LINED CHANNEL TYPICAL INSTALLATION



Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:56:28 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.19.dwg

Notes

1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.



NOTES:

- DESIGN VELOCITIES EXCEEDING 2-FT/SEC (0.5m/sec) REQUIRE TEMPORARY BLANKETS, MATS OR SIMILAR LINERS TO PROTECT SEED AND SOIL UNTIL VEGETATION BECOMES ESTABLISHED.
- GRASS-LINED CHANNELS WITH DESIGN VELOCITIES EXCEEDING 6-FT/SEC (2m/sec) SHOULD INCLUDE TURF REINFORCEMENT MATS.

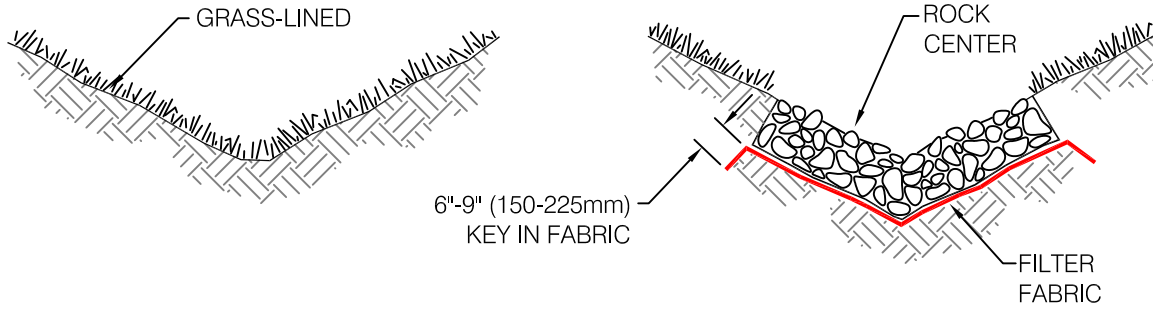
GRASS-LINED CHANNEL TYPICAL CROSS SECTIONS



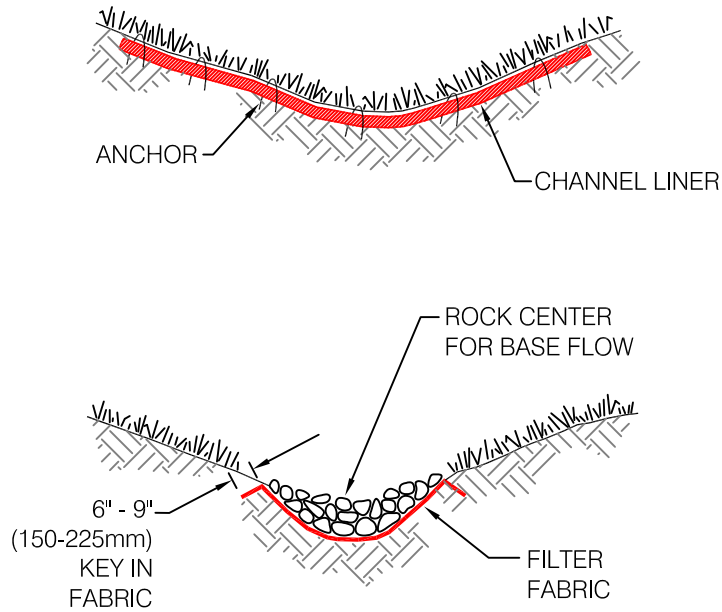
Prepared By: Evangeline O'Neal
Updated: 7/22/2009 10:57:20 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.20.dwg

1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.

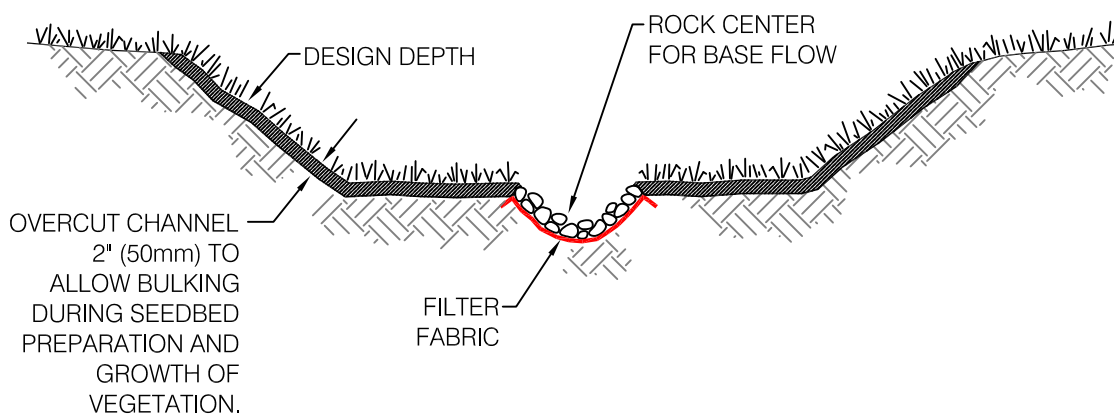
Notes



**TYPICAL V-SHAPED CHANNEL
CROSS-SECTIONS**



**TYPICAL PARABOLIC CHANNEL
CROSS-SECTIONS**



**TYPICAL TRAPEZOIDAL CHANNEL
CROSS-SECTION**

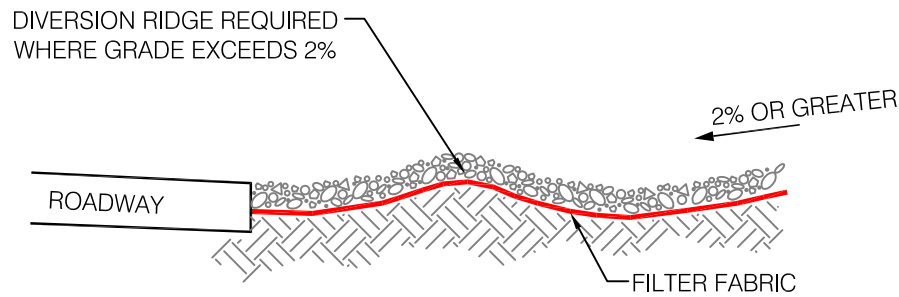
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT



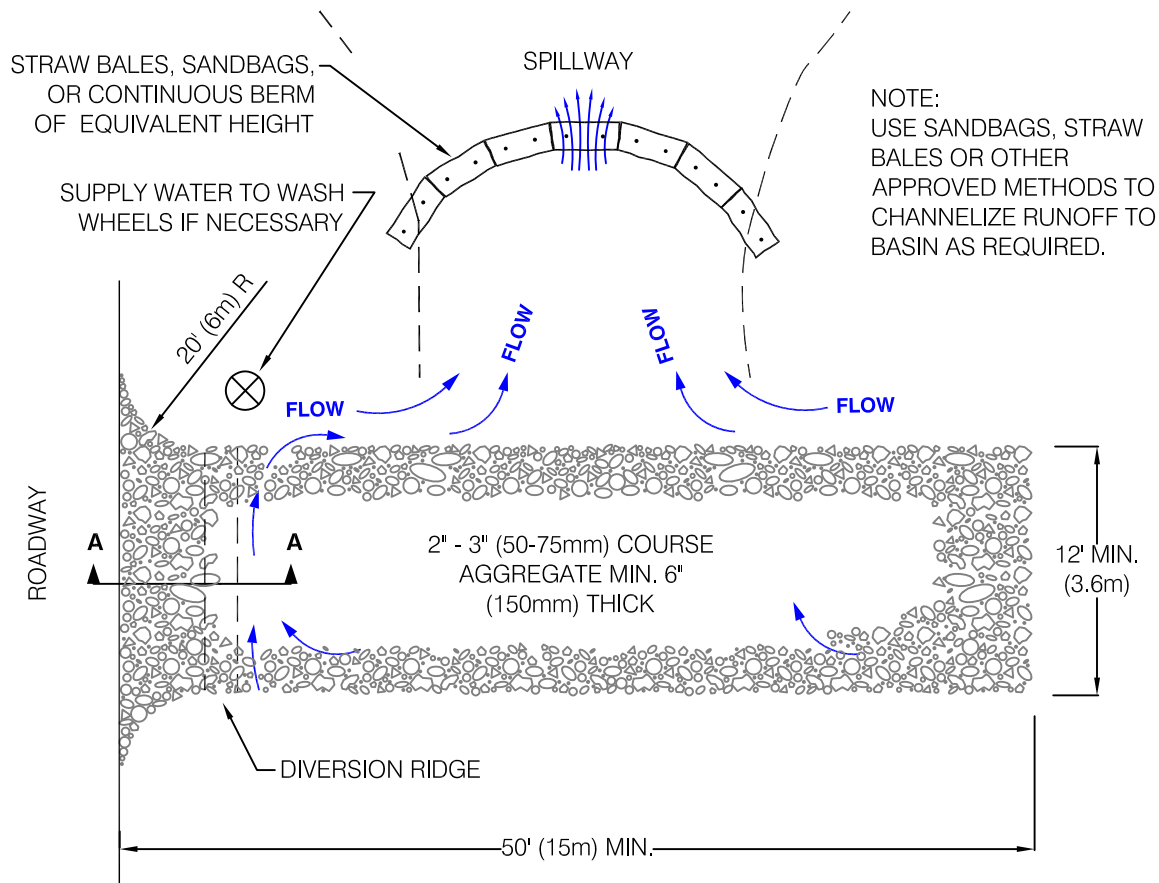
Prepared By: Evangeline O'Neal
 Updated: 7/22/2009 10:58:01 AM
 Drawing Status: **APPROVED**
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Notes



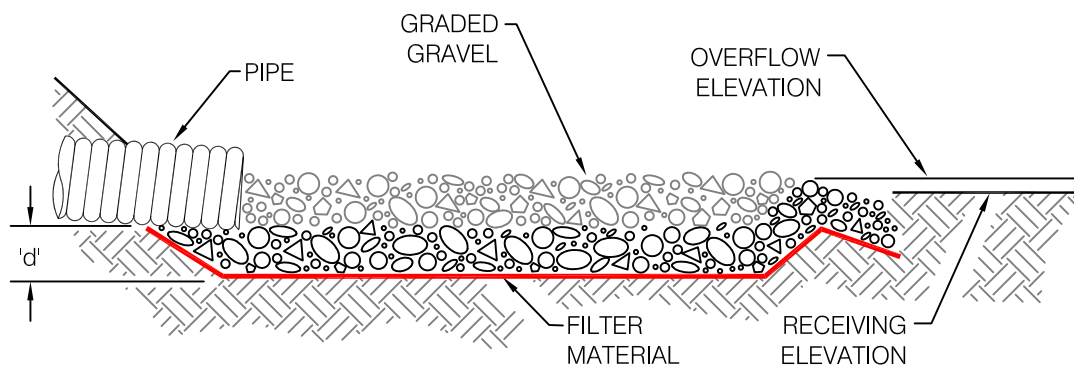
SECTION A - A



PLAN

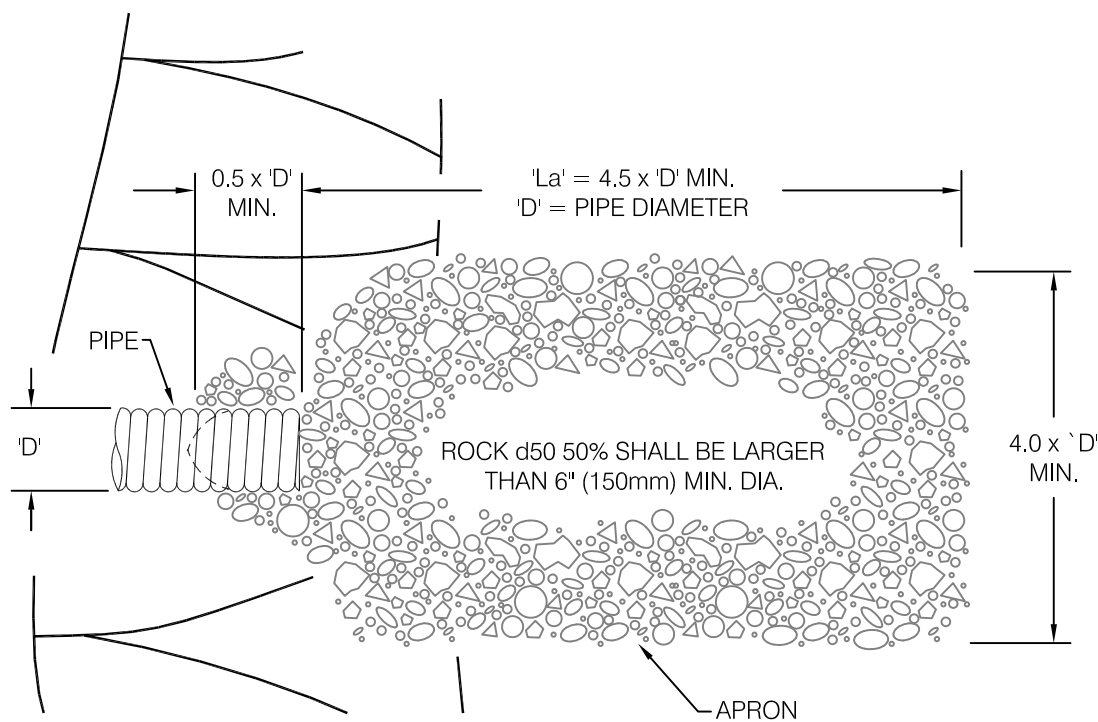
NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



THICKNESS ('d') = 1.5 x MAX. ROCK DIAMETER - 6" (150mm) MIN.

SECTION



PLAN

NOTES:

1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" (150mm) THICK MIN. GRADED GRAVEL LAYER.

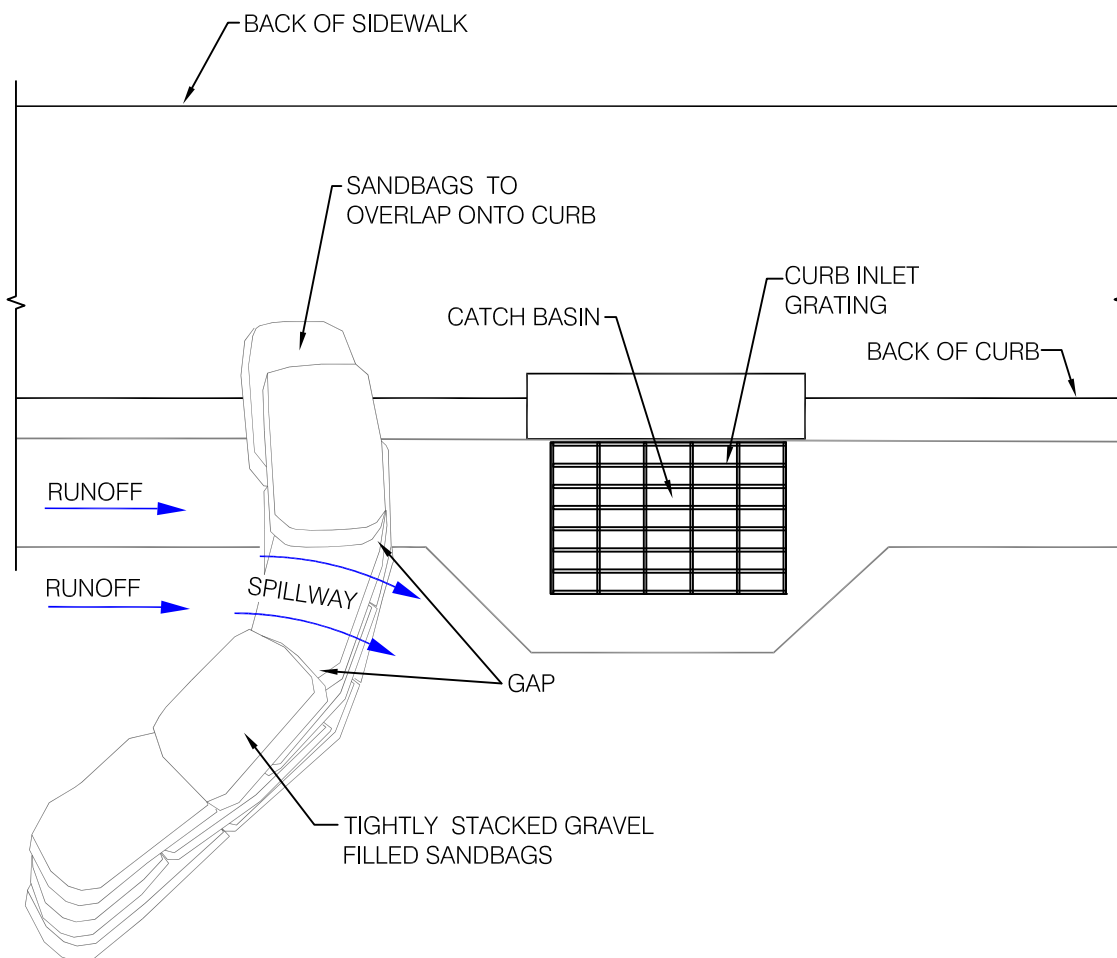
CURB AND GUTTER SEDIMENT BARRIER



Prepared By: Evangeline O'Neal
 Updated: 7/22/2009 10:59:24 AM
 Drawing Status: **APPROVED**
 Filename: LRW ECD 3.23.dwg

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Notes



PLAN VIEW

NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN 'GEOTEXTILE' FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. A GAP EQUIVALENT TO 'ONE SANDBAG' IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

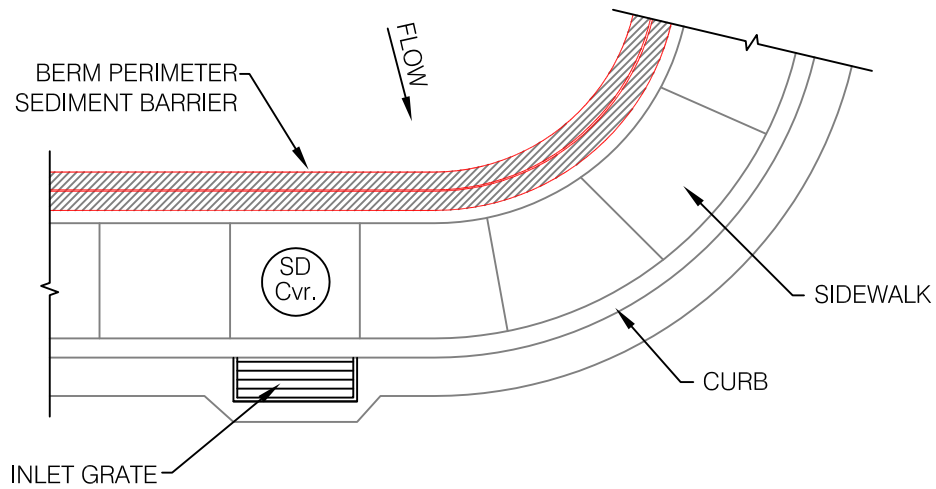
CONTINUOUS BERM



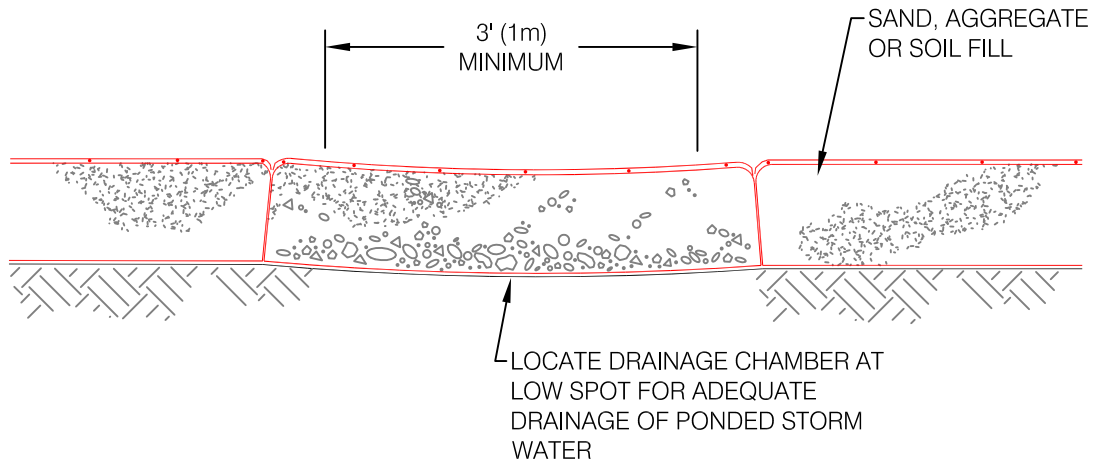
Prepared By: Evangeline O'Neal
Updated: 7/22/2009 11:00:05 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.24.dwg

Notes

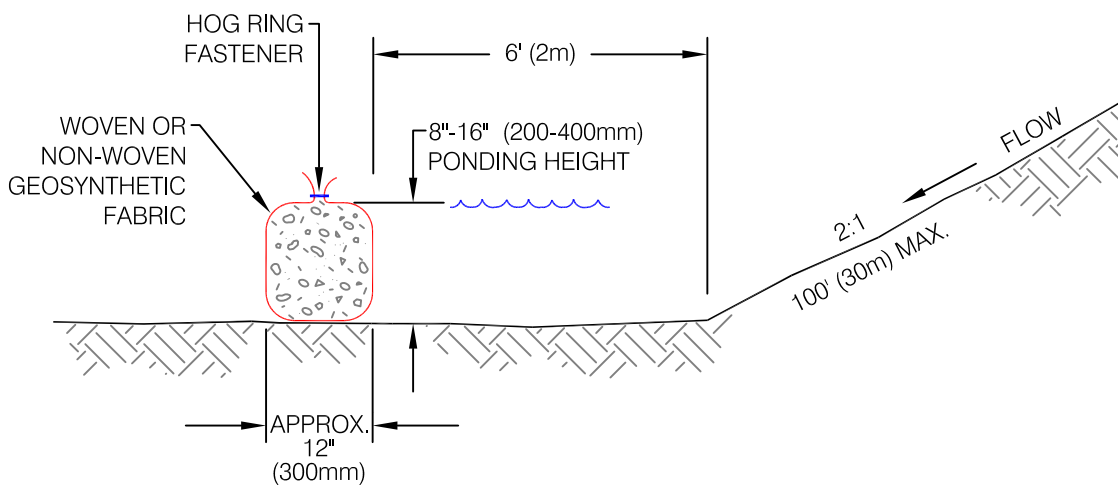
1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.



TYPICAL APPLICATION
PERIMETER SEDIMENT BARRIER



FRONT VIEW



SIDE VIEW

COIR ROLLS / COIR MATS

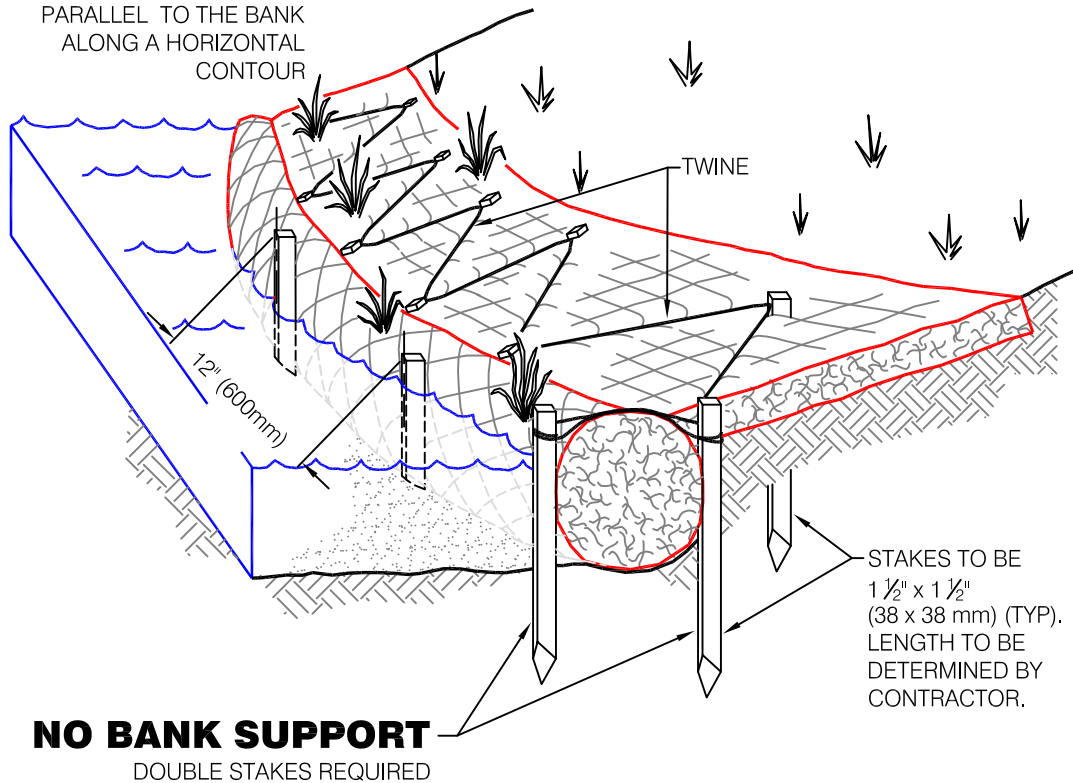


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 Filename: LRW ECD 3.25.dwg

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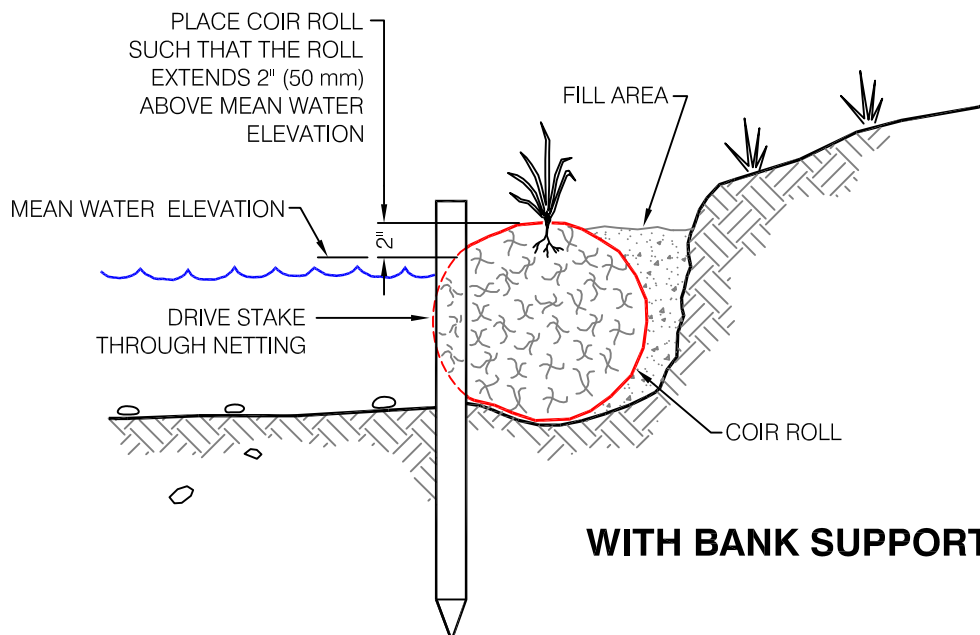
Notes

COIR ROLLS TO BE PLACED
 PARALLEL TO THE BANK
 ALONG A HORIZONTAL
 CONTOUR



NOTES:

1. COIR ROLLS: EASY TO INSTALL; PREPARE SOIL, INCLUDING CLEANING ALL THE WEEDS (*SPRAY A HERBICIDE IF NECESSARY*) AND GRADING. THE SURFACE OF THE SOIL SHOULD BE SMOOTH AND FREE OF ROCKS, ROOTS AND OTHER OBSTRUCTIONS.
2. COIR MATS: ROLL THE MAT ACROSS THE SLOPE; START AT THE TOP OF THE SLOPE BY ANCHORING THE MAT IN A 6" DEEP AND 6" WIDE ANCHOR TRENCH; STAPLE (8" METAL STAPLES OR 12" WOODEN WEDGES ARE RECOMMENDED); BACKFILL AND COMPACT; CUT A WHOLE IN THE MAT WHERE NEED TO PLANT PERENNIAL GROUND COVERS.
3. DRY COIR ROLLS HAVE MORE STRENGTH AND DURABILITY THAN VEGETATED COIR ROLLS; SLOW DEGRADING COIR FIBER LAST LONGER PROVIDING EROSION PROTECTION, THEREBY ALLOWING SUFFICIENT TIME TO ESTABLISH A SUSTAINABLE VEGETATION IN FIELD CONDITIONS.
4. CHOOSE STRONG AND BIODEGRADABLE COIR PRODUCTS FOR SEDIMENT CONTROL AND REDUCE TRASH HAULING AND WASTE DISPOSAL COSTS.



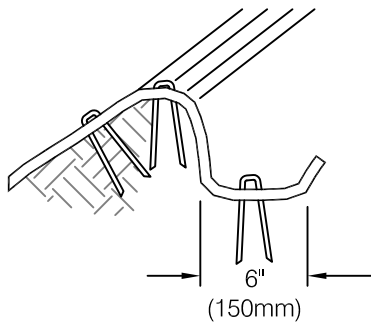
EROSION BLANKETS & TURF REINFORCEMENT MATS CHANNEL INSTALLATION



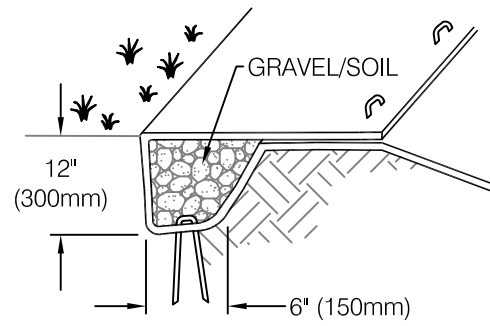
Prepared By: Evangeline O'Neal
Updated: 7/22/2009 11:01:26 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.26.dwg

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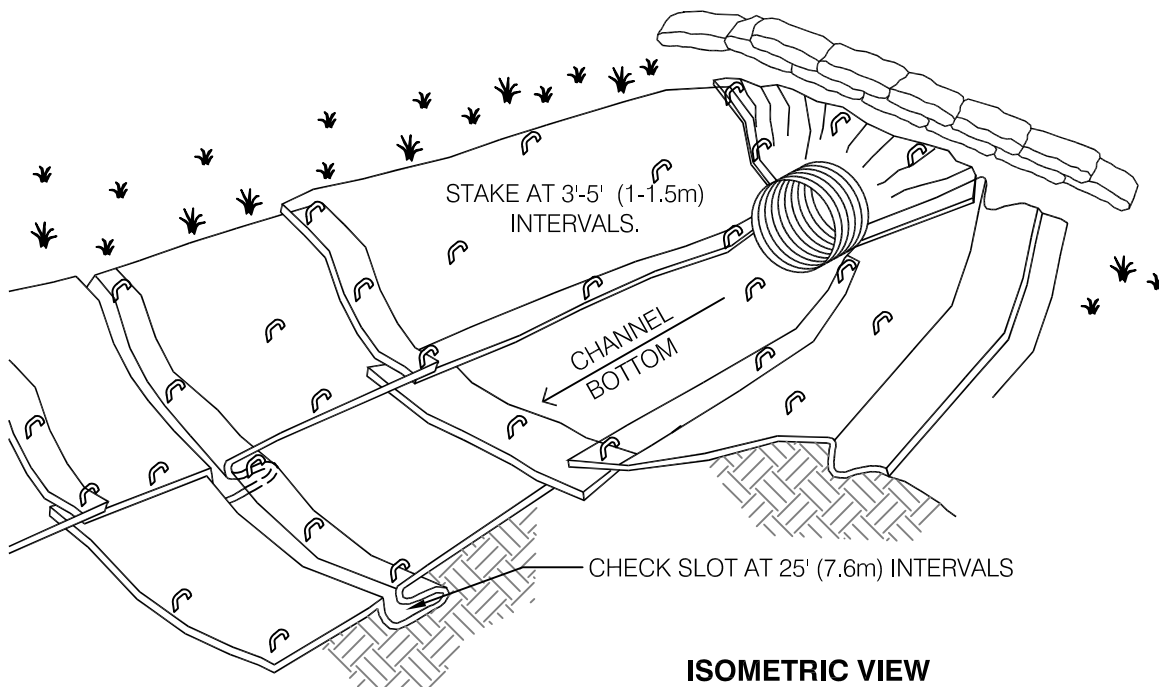
Notes



**LONGITUDINAL ANCHOR
TRENCH**



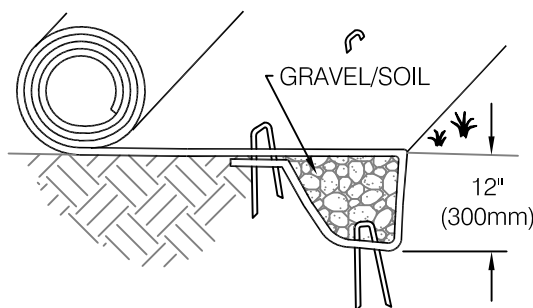
**TERMINAL SLOPE & CHANNEL
ANCHOR TRENCH**



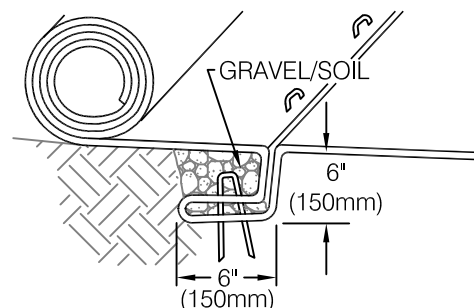
ISOMETRIC VIEW

NOTES:

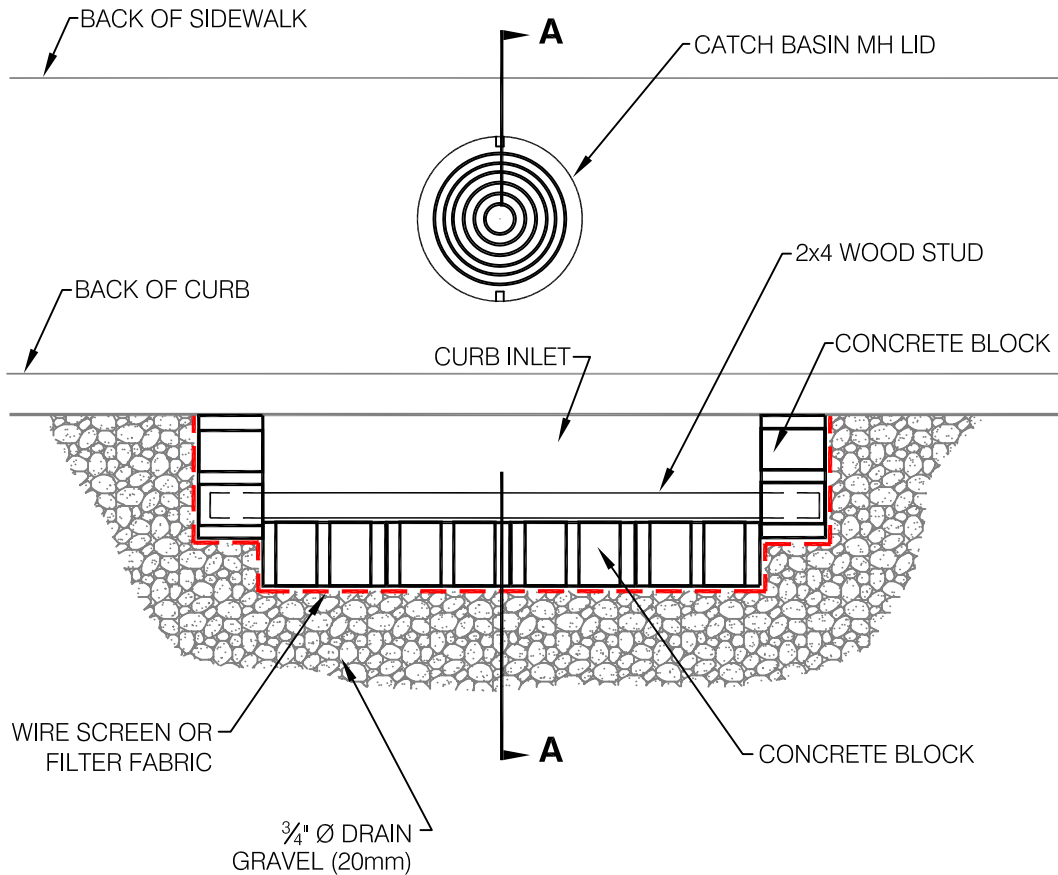
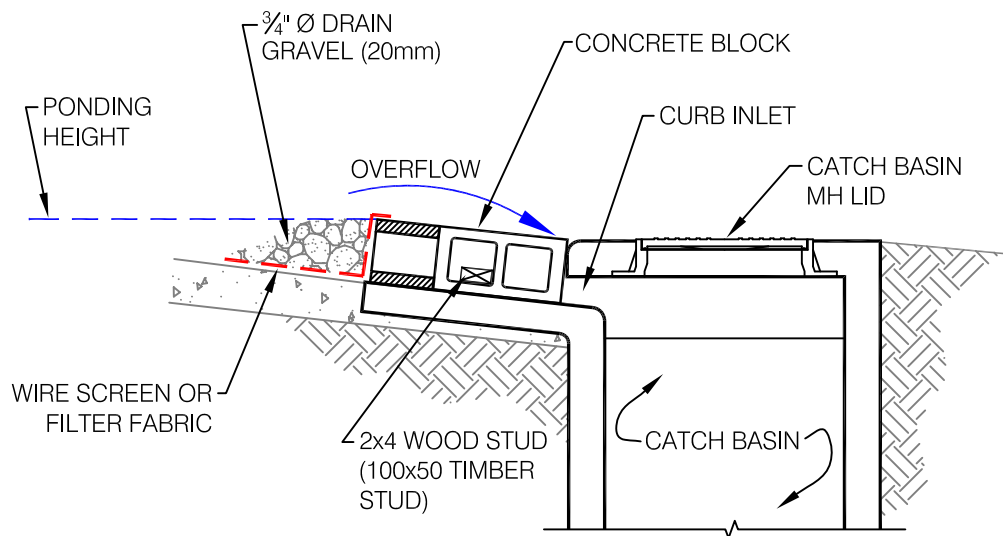
1. CHECK SLOTS TO BE CONSTRUCTED PER MANUFACTURERS SPECIFICATIONS.
2. STAKING OR STAPLING LAYOUT PER MANUFACTURERS SPECIFICATIONS.



**INITIAL CHANNEL ANCHOR
TRENCH**



**INTERMITTENT
CHECK SLOT**

**PLAN VIEW****SECTION A - A****NOTES:**

1. USE BLOCK AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

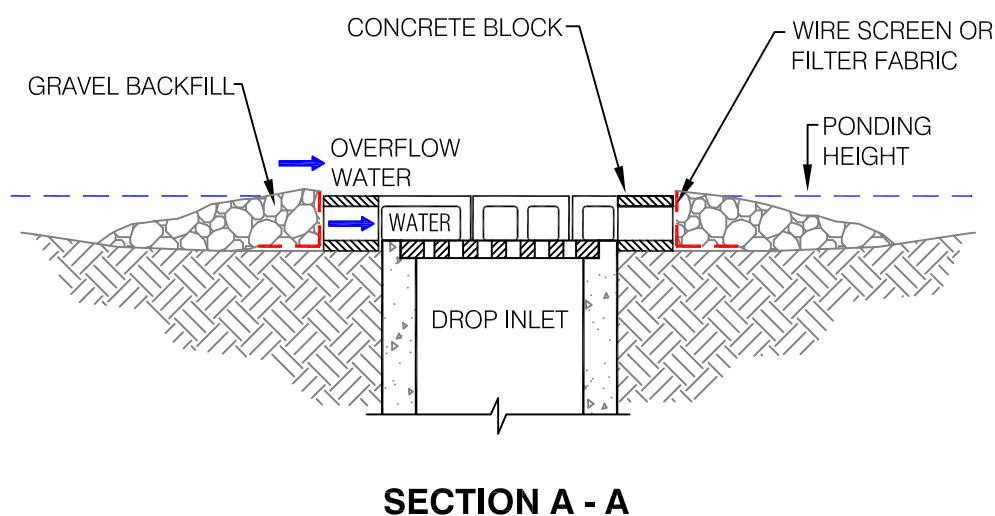
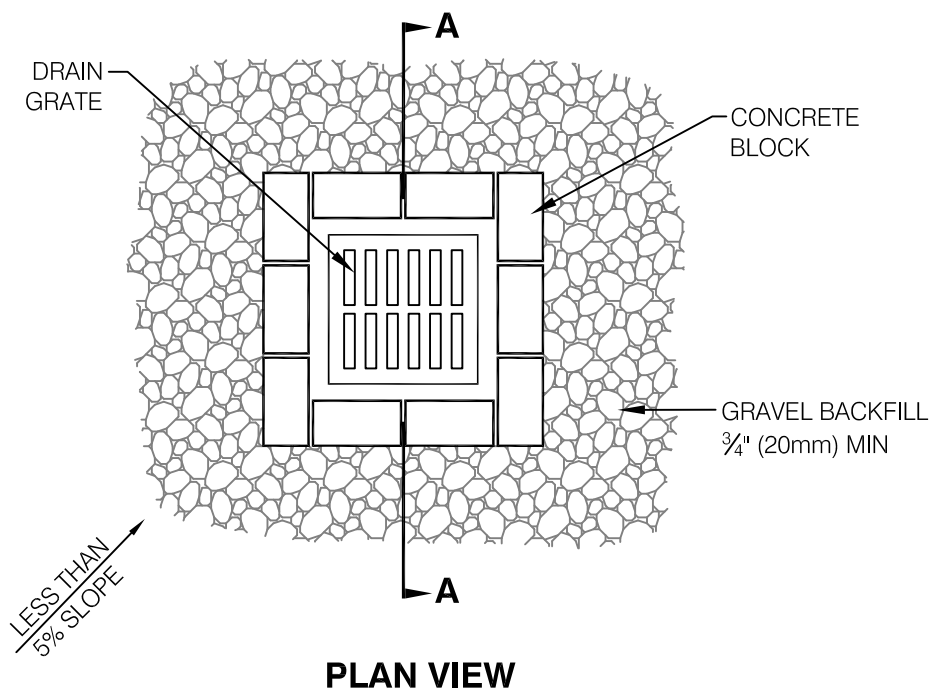
BLOCK AND GRAVEL DROP INLET SEDIMENT BARRIER



Prepared By: Evangeline O'Neal
Updated: 7/22/2009 11:02:48 AM
Drawing Status: **APPROVED**
Filename: LRW ECD 3.28.dwg

1. ALL CHANGES/REVISIONS/ETC. MUST BE APPROVED BY THE LRW DIRECTOR OF ENGINEERING.

Notes



NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.