LIMIT OF CONSTRUCTION

EXISTING GROUND

PHASE 1 EXCAVATION

INTERMEDIATE PHASE II EXCAVATION

FINAL PHASE EXCAVATION

PERMETER/ONE SMALLE USED AS A CLEAN WATER DIVERSION, SEE STANDARD SHEET

CUT SECTION

BREAK IN CROSS SLOPE MAY BE ELIMINATED TO DIRECT SURFACE FLOW LEFT OR RIGHT OR AS DIRECTED BY THE ENGINEER.

EDGE BERMS TO BE PLACED AT THE END OF EACH WORK DAY AND UNTIL SLOPE IS COMPLETELY STABILIZED.

MINIMUM 6" (150MM) OFFSET FROM TOE OF SLOPE

SILT FENCE, SEE STANDARD SHEET

FINAL PHASE EMBANKMENT

INTERMEDIATE PHASE II EMBANKMENT

PHASE I EMBANKMENT

EXISTING GROUND

TEMPORARY SNAKE, SEE STANDARD SHEET

FILL SECTION

NOTES:
1) EDGE BERMS AND TEMPORARY SLOPE DRAINS SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SLOPES TO INTERCEPT RUNOFF AND CONVEY IT DOWN THE SLOPE FACES WITHOUT CREATING GULLIES OR WASHOUTS.

2) SLOPE FACES SHALL BE TRAILED WITH CLEATED EQUIPMENT SUCH THAT THE CLEAT MARKS ARE ORIENTED HORIZONTALLY.

3) ALL CUT AND FILL SLOPES OF THE HIGHWAY EMBANKMENT SHALL BE PERMANENTLY STABILIZED AS THE WORK PROGRESSES IN INCREMENTS NOT TO EXCEED 10' (3000MM) MEASURED ALONG THE SLOPE.

4) CROSS SLOPES SHALL BE 2% MINIMUM, 6% MAXIMUM.
NOTES:
1. THIS DEVICE IS INTENDED TO CONTROL SHEET FLOW ONLY; IT
   SHALL NOT BE USED IN AREAS OF CONCENTRATED FLOW.
2. SLT FENCE ENDS SHALL BE TURNED UPSLOPE TO CONTAIN
   RUNOFF.
3. REINFORCING STRIP IS TO BE ONE COMPLETE STRIP COVERING
   ALL GEOTEXTILE FABRIC AT POST.

SECTION A-A

SECTION B-B

ELEVATION

WIRE MESH DETAIL
(REINFORCED SLT FENCE ONLY)

UNREINFORCED SLT FENCE
CONNECTION DETAIL

REINFORCED SLT FENCE
CONNECTION DETAIL
NOTES:
1. FOR DITCHES LESS THAN 30\* (750) IN DEPTH, PLACE DAM AS DIRECTED BY THE ENGINEER.
2. THE CHECK DAM HEIGHT MUST NOT EXCEED 2' (600) AT THE CENTER OF THE WEL.
3. THE CENTER OF THE DAM IS 6' (1800) ABOVE THE LOWER EDGE, FORMING A WEIR THAT WATER CAN FLOW ACROSS.
4. GEOTEXTILE FABRIC IS TO BE INSTALLED UNDERNEATH RIPRAP ON PERMANENT CHECK DAMS ONLY.

DELWARE
DEPARTMENT OF TRANSPORTATION

STONE CHECK DAM

STANDARD NO. E-6 (2006)

APPROVED

SHT. 1 OF 1

RECOMMENDED

08/14/2006
NOTES:
1. SEDIMENT TRAPS ARE INTENDED FOR USE IN EXISTING, PROPOSED, AND TEMPORARY DITCHES OF ALL TYPES WITH A MAXIMUM DRAINAGE AREA OF 16 ACRES (6 HECTARES), AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. SIDE SLOPES SHALL BE STABILIZED WITH "TEMPORARY GRASS SEEDING, DRY GROUND" AND STRAW MULCH.
3. AN OUTLET STRUCTURE IS REQUIRED, STONE CHECK DAMS, PERFORATED RISER PIPES, SEWER DRAINING DEVICES, OR DRAINAGE PIPS MAY BE USED. SEE APPROPRIATE STANDARD SHEET FOR ADDITIONAL INFORMATION.
4. FOR SIZE, LOCATION, ETC. OF SEDIMENT TRAP, SEE CONSTRUCTION PHASING, M.O.T, AND EROSION CONTROL PLANS.
5. ALL FILM SLOPES SHALL BE 2:1.
6. A 2:1 LENGTH TO WIDTH RATIO SHOULD BE ACHIEVED WHERE POSSIBLE, IF THIS IS NOT POSSIBLE, THE USE OF BARRIERS OR OTHER SPECIAL DESIGNS SHOULD BE INCORPORATED TO INCREASE FLOW TIME.
NOTES:
1. THE WORK SHALL CONSIST OF THE CONSTRUCTION OF A SEDIMENT TRAP AROUND A DRAINAGE INLET TO ALLOW SEQUIMENTATION TO OCCUR BEFORE RUNOFF ENTERS THE DRAINAGE INLET.
2. DRAINAGE INLET SEDIMENT TRAPS SHALL BE LIMITED TO A THREE (3) ACRE (0.2 HECTARE) MAXIMUM DRAINAGE AREA.
3. THE DIMENSIONS OF THE DRAINAGE INLET SEDIMENT TRAP ARE TO BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
**TRASH HOOD CHART**

<table>
<thead>
<tr>
<th>RISER PIPE DIAMETER</th>
<th>Ø</th>
<th>TRASH HOOD SUPPORT BAR</th>
<th>MINIMUM SIZE CHORD, IN.</th>
<th>MINIMUM TOP SUPPORT BAR, IN.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12” 12000</td>
<td>2”</td>
<td>Ø 1950</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>16” 14500</td>
<td>25/8”</td>
<td>Ø 2750</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>20” 17500</td>
<td>3”</td>
<td>Ø 3650</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>24” 20000</td>
<td>31/8”</td>
<td>Ø 4550</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>28” 23000</td>
<td>33/8”</td>
<td>Ø 5450</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**TRASH HOOD DETAILS**

- **Plan**: Support Bar
- **Front**: Support Bar, Trash Hood

**Isometric View**

- Pressure Relief Holes
- Tack Weld Support Bar to Riser Pipe (Typ) at Four Locations
- Tack Weld Top to Trash Hood in Three Places
STABILIZATION OF EMBANKMENTS

NOTES:
1. STAPLES TO BE STAGGERED AT 8"(450) SPACING.
2. TOPSOIL UNDER EROSION CONTROL BLANKET IS TO BE TRACKED AND SEEDED.
3. WHEN OFFSITE RUNOFF OCCURS, ADDITIONAL MEASURES AS DIRECTED BY THE ENGINEER SHALL BE USED TO ENSURE STABILITY OF EMBANKMENT.

STABILIZATION OF DITCHES

PLAN

NOTES:
1. ADDITIONAL STAPLES NOT SHOWN ARE REQUIRED AT OVERLAPS.
   SEE OVERLAP DETAIL FOR STAPLE PLACEMENT.
2. STAPLES ARE TO BE STAGGERED.
3. TOPSOIL UNDER EROSION CONTROL BLANKET TO BE TRACKED AND SEEDED.

DELTAWE
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL BLANKET APPLICATIONS

STANDARD NO. E-9 (2005) SHT. 1 OF 1

APPROVED

08/10/2005
SECTION A-A

SECTION B-B

PLAN

NOTES:
1. Securing pins are to be placed at locations shown and at 24" (600) longitudinal and lateral spacing.
2. See plans for location, dimensions, grades, etc.
3. Use of R-7 riprap will require a separate professional engineering design for specific conditions.

DEPARTMENT OF TRANSPORTATION

RIPRAP DITCH

STANDARD NO. E-10 (2005) SHT. 1 OF 1

APPROVED

RECOMMENDED

08/10/2005
### Chart A - Stabilization

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Swale Grade</th>
<th>Type of Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5-2.0X</td>
<td>Drainage Area A: 5 ac (2 ha or less) Seed Used With Erosion Control Blanket</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drainage Area B: 15 ac (6 ha) Seed Used With Erosion Control Blanket</td>
</tr>
<tr>
<td>2</td>
<td>2.1-8.0X</td>
<td>R-4 RRRAPI R-4 RRRAPI</td>
</tr>
<tr>
<td>3</td>
<td>8.1-20.0X</td>
<td>Engineered Design Engineered Design</td>
</tr>
</tbody>
</table>

### Chart B - Swale Dimensions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Swale A</th>
<th>Swale B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0 x 5.0 M</td>
<td>1.0 x 5.0 M</td>
</tr>
<tr>
<td></td>
<td>1.5 x 10.0 M</td>
<td>1.5 x 10.0 M</td>
</tr>
<tr>
<td></td>
<td>4.0 x 40.00 M</td>
<td>6.0 x 80.00 M</td>
</tr>
</tbody>
</table>

**Notes:**

1. Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device.
2. Diverted runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area at non-erodible velocity.
3. If temporary swales or clean water diversions are to be operational for more than 14 days, they shall be stabilized in accordance with chart A prior to becoming operational.
4. If temporary swales or clean water diversions are to be operational for less than 14 days, they shall be stabilized with geotextile in accordance with the standard detail, "Geotextile-Lined Channel Diversion."

OUTLET AS REQUIRED

SEE NOTES 1 & 2
SEED AND MULCH

DOES NOT NEED TO BE COMPACTED

STABILIZE IN ACCORDANCE WITH NOTES 3 AND 4

2' (600MM)

FLOW

EXISTING GROUND

SECTION A-A

OUTLET AS REQUIRED
SEE NOTES 1 & 2.

PLAN

DELWARE
DEPARTMENT OF TRANSPORTATION

PERIMETER DIKE / SWALE

STANDARD NO. E-12 (2006) SHT. 1 OF 1

APPROVED

DEPARTMENT OF TRANSPORTATION

RECOMMENDED

CHART A - SWALE STABILIZATION

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>SWALE GRADE</th>
<th>TYPE OF TREATMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>0.5-2.0%</td>
<td>SEED AND EROSION CONTROL BLANKET</td>
</tr>
<tr>
<td>A-2</td>
<td>2.5-8.0%</td>
<td>LINED R-4 RPRAP</td>
</tr>
<tr>
<td>A-3</td>
<td>8.5-20%</td>
<td>ENGINEERED DESIGN</td>
</tr>
</tbody>
</table>

MAXIMUM DRAINAGE AREA: 2 ACRES (0.8 ha)

NOTES:
1. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
2. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
3. IF PERIMETER DIKE SWALES ARE TO BE OPERATIONAL FOR MORE THAN 45 DAYS, THEY SHALL BE STABILIZED IN ACCORDANCE WITH CHART A PRIOR TO BECOMING OPERATIONAL.
4. IF TEMPORARY SWALES OR CLEAN WATER DIVERSIONS ARE TO BE OPERATIONAL FOR LESS THAN 45 DAYS, THEY SHALL BE STABILIZED WITH GEOTEXTILE IN ACCORDANCE WITH THE STANDARD DETAIL "GEOTEXTILE-LINED CHANNEL DIVERSION".

12/5/05

11/8/05

09/02/2005
STABILIZE IN ACCORDANCE WITH CHART A PRIOR TO BECOMING OPERATIONAL, EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH AT FLOW DEPTH IN ACCORDANCE WITH CHART B.

SECTION A-A

CHART A - FLOW CHANNEL STABILIZATION

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CHANNEL GRADE</th>
<th>TYPE OF TREATMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.5-2.0%</td>
<td>SEED AND EROSION CONTROL BLANKET</td>
</tr>
<tr>
<td>2</td>
<td>2.1-8.0%</td>
<td>R-4 RIPRAP</td>
</tr>
<tr>
<td>3</td>
<td>8.1-20%</td>
<td>ENGINEERED DESIGN</td>
</tr>
</tbody>
</table>

CHART B - EARTH DIKE DIMENSIONS

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DIKE A (5 ac or less)</th>
<th>DIKE B (5-60 ac 2-4 hcl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a-Dike Height</td>
<td>12' (3600)</td>
<td>18' (4500)</td>
</tr>
<tr>
<td>b-Dike Width</td>
<td>2' (600)</td>
<td>24' (600)</td>
</tr>
<tr>
<td>c-FLOW WIDTH</td>
<td>48' (2000)</td>
<td>72' (1800)</td>
</tr>
<tr>
<td>d-FLOW DEPTH</td>
<td>4' (1350)</td>
<td>27' (600)</td>
</tr>
</tbody>
</table>

NOTES:
1. IF DESIRED, TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
2. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO INSURE A STABILIZED OUTFALL.
DISCHARGE INTO A STABILIZED DITCH - GEOTEXTILE, STONE OR GRASSED OR A SEDIMENT TRAP.

TOE OF SLOPE

R-4 REINFORCEMENT (32 YD CUBIC YD)

CORRUGATED PIPE - SEE PLANS FOR LOCATIONS OR AS DIRECTED BY THE ENGINEER.

TOP OF FILL SLOPE AS EMBANKMENT IS CONSTRUCTED

EDGE BERMS AT TOP OF FILL SLOPE

INTERCEPTOR BERMS, 36" (900MM) MIN. HEIGHT, LENGTH AS REQUIRED TO CONTAIN SURFACE DRAINAGE AND DIRECT INTO TEMP. SLOPE DRAIN.

PLAN

EAVATION

2" (500MM)

1/4" (63) PLYWOOD COLLAR

CORRUGATED PIPE

PLAN

ANTI-SEEP COLLAR

NOTES:

1. ALL TEMPORARY SLOPE DRains SHALL DISCHARGE INTO THE BACK OF SEDIMENT TRAPS, INTO SEDIMENT BASINS OR DITCHES DISCHARGING INTO TRAPS OR BASINS.

2. TEMPORARY SLOPE DRains SHALL BE USED AT THE TOP OF FILL SLOPES AS EMBANKMENT IS CONSTRUCTED, TO PREVENT EXCESSIVE EROSION UNTIL SHOULDERS ARE CONSTRUCTED AND THE SLOPES ARE SEEDED AND MULCHED.

SLOPE DRAIN PROFILE

FOR FILL SLOPES

DELAWARE

DEPARTMENT OF TRANSPORTATION

TEMPORARY SLOPE DRAIN

STANDARD NO. E-14 (2009)

SHT. 1 OF 1

APPROVED

12/5/05

RECOMMENDED

11/21/06

09/02/05
NOTES:
1. THE WORK SHALL CONSIST OF CONSTRUCTING A STILLING WELL FOR THE PURPOSE OF PUMPING CLEAN WATER AROUND A DISTURBED CONSTRUCTION AREA TO A STABILIZED OUTFALL.

2. THE DIMENSIONS OF THE STILLING WELL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
NOTES:

1. THE WORK SHALL CONSIST OF CONSTRUCTING A SUMP PIT FOR THE PURPOSE OF FILTERING AND PUMPING WATER TO A STABILIZED OUTFALL.

2. GEOTEXTILE FOR THE 36" (900) CMP SHALL BE REPLACED WHEN CLOGGED WITH SEDIMENT.

3. 3/4" x 1/2" x 3/16" x 10 lb. GAGE 0.040 MM WIRE MESH SHALL BE PLACED AROUND THE REMOVABLE 36"(900) CMP BEFORE ATTACHING THE GEOTEXTILE TO INCREASE FLOW THROUGH THE GEOTEXTILE.

4. ALL PERFORATIONS SHALL BE 1" (25) IN DIAMETER AND 12" (300) CM ON CENTER IN ALL DIRECTIONS.

5. TYPE 1 SUMP PIT SHALL BE USED ONLY WHEN PUMPING IS NEEDED FOR LESS THAN 7 DAYS.
NOTES:

1.) A DEWATERING BASIN (DWB) IS USED TO REMOVE SEDIMENT FROM SEDIMENT-LADEN WATER PUMPED FROM A CONSTRUCTION SITE BEFORE THE WATER RE-ENTERS THE WATERWAY. THE DWB SHALL HAVE A MINIMUM TOP WIDTH OF 8' (2440) AND A MINIMUM DEPTH OF 3' (915). THE MINIMUM TOP LENGTH SHOWN IN THE PLAN IS USED ONLY FOR QUANTITY CALCULATIONS. THE ENGINEER, THE ACTUAL TOP LENGTH IN THE FIELD SHALL BE CALCULATED BY THE EQUATION:

US CUSTOMARY: TOP LENGTH (FEET) = 26' + 0.25 X Y
METRIC: TOP LENGTH (METERS) = 7930 + 48300 X Y

WHERE Y IS THE MAXIMUM CAPACITY IN GALLONS PER MINUTE (CUBIC METERS PER SECOND) OF THE DEWATERING PUMP.

2.) THE OUTFALL FROM THE BASIN TO THE RECEIVING WATERS SHALL BE STABILIZED. PUMPING INTO THE DWB SHALL CEASE WHEN THE EFFLUENT FROM THE BASIN BECOMES SEDIMENT-LADEN.

3.) A SUMP PIT OR STILLING WELL (SEE STANDARD SHEETS) SHALL BE USED IN CONJUNCTION WITH A DWB. THE BASIN MAY BE BYPASSED INTO THE STABILIZED OUTFALL. IF THE WATER BEING PUMPED IS NON-SEDIMENT-LADEN, DIRECT DISCHARGE TO THE RECEIVING WATERS MAY BE CEASED AND BE REDIRECTED TO THE DWB WHEN EFFLUENT FROM THE PUMP BECOMES SEDIMENT-LADEN.

4.) MAINTENANCE MUST BE PERFORMED IN ORDER FOR THE DWB TO FUNCTION PROPERLY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DEPOSED OF IN AN APPROVED DISPOSAL AREA WHEN THE BASIN IS FILLED TO WITHIN 12' (3700) FROM THE CREST.

5.) WHEN USED IN CONJUNCTION WITH A COFFERDAM, DEWATERING SHALL BEGIN NO SOONER THAN 12 HOURS AFTER COFFERDAM INSTALLATION IN ORDER TO ALLOW SEDIMENT PRODUCED DURING INSTALLATION TO SETTLE COMPLETELY.
STONE TRENCH

FLOW

2" (600) OVERLAP

PINS

STATION 36+20

24" (600) MAX. LONGITUDINAL SPACING
6" (150) MAX. LATERAL SPACING

SANDBAG DIKE
(SEE STANDARD SHEET)

EXISTING CHANNEL
WORK AREA

FLOW

STONE TRENCHES

GEOTEXTILE

TEMPORARY DIVERSION CHANNEL

FLOW

STONE TRENCHES

PLAN

FLOW

DEP. NO. 3 STONE

GEOTEXTILE

3/4" (19) PINS

8" (200)

30" (750)

2" (600)

TRENCHING DETAIL

NOTE: SEE PLANS FOR LOCATION, DIMENSIONS, GRADES, ETC.

DEL. NO. 3 STONE

GEOTEXTILE

F (300)

F (300)

2" (600)

2" (600)

SECTION A-A

FASTENING DETAIL

DELWARE
DEPARTMENT OF TRANSPORTATION
GEOTEXTILE-LINED CHANNEL DIVERSION
STANDARD NO. E-18 (2005) SHT. 1 OF 1
APPROVED
RECOMMENDED

09/08/2005
NOTES:
1. THE WORK SHALL CONSIST OF INSTALLING FLOW DIVERSIONS FOR THE PURPOSE OF EROSION CONTROL, WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.
2. THE DIVERSION STRUCTURE SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
3. THE EFFECTIVE CHANNEL WIDTH SHALL BE SIZED TO PASS A ONE YEAR STORM EVENT PEAK FLOW, OR 1/3 OF STREAM WIDTH, WHICHEVER IS GREATER.
4. THE SANDBAG DIVERSION HEIGHT (H) SHALL BE 1' (300mm) ABOVE THE PEAK ELEVATION OF THE ONE YEAR STORM.
NOTES:

0. THE WORK SHALL CONSIST OF INSTALLING A SANDBAG DIKE FOR THE PURPOSE OF EROSION CONTROL. CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.

1. THE SANDBAG DIKE SHALL BE INSTALLED AT THE UPSTREAM LOCATION FIRST.

2. THE HEIGHT OF THE SANDBAG DIKE SHALL BE F(1300) ABOVE THE PEAK ELEVATION OF THE ONE YEAR STORM OR EQUAL WITH THE TOP OF BANK, WHICHEVER IS LESS, SEE PLANS FOR INFORMATION.

3. THE SPILLWAY SHALL BE SIZED TO PASS A ll ONE YEAR STORM EVENT PEAK FLOW, SEE PLANS.

4. THE PIPE, WHEN UTILIZED, SHALL BE SIZED TO PASS THE STREAM BASE FLOW.
NOTES:
1. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPIED UNDER THE ENTRANCE, IF NECESSARY. A MOUNTABLE BERM WITH SLOPES SHALL BE ALLOWED TO FACILITATE PLACEMENT OF PIPE IN SHALLOW CONDITIONS.

2. THE LOCATION AND NUMBER OF STABILIZED CONSTRUCTION ENTRANCES SHALL BE AS INDICATED ON THE PLANS. ANY CHANGE IN LOCATION, ADDITION, OR ELIMINATION OF AN ENTRANCE SHALL BE APPROVED IN ADVANCE BY THE ENGINEER.

3. DRAINAGE PIPE, IF UTILIZED, SHALL BE PAID FOR SEPARATELY UNDER THE APPROPRIATE BID ITEM.

4. THE TOP 2'-6" OF STONE SHALL BE REMOVED AND REPLACED WITH 2'-6" OF CLEAN STONE WHEN Voids ARE FILLED OR AS DIRECTED BY THE ENGINEER.
NOTES:
1. ALL P.V.C. PIPES ARE TO BE 4" I.D., SCHEDULE 40.
2. ALL JOINTS OF THE FLOATATION SECTION SHALL BE SOLVENT WELDED.
3. 4" HOPE FLEXIBLE DRAIN PIPE IS TO BE ATTACHED TO THE POND OUTLET
STRUCTURE WITH WATER TIGHT CONNECTIONS.

DELTAWARE DEPARTMENT OF TRANSPORTATION
SKIMMER Dewatering DEVICE
STANDARD NO. E-22 (2012)  SHT. 1 OF 1  APPROVED
SIGNATURE ON FILE  01/07/2013
SIGNATURE ON FILE  12/20/2012
SIGNATURE ON FILE  12/4/2012
FLOATING TURBIDITY CURTAIN

NOTE: 1) ADDITIONAL PANEL REQUIRED FOR DEPTHS GREATER THAN 5' (1.5m).
2) FLOATING TURBIDITY CURTAIN SHALL REACH BOTTOM UP TO DEPTHS OF 10' (3.0m) BY USING TWO PANELS. DEPTHS GREATER THAN 10' (3.0m) SHALL REQUIRE SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
NOTES:
1. THE PORTABLE SEDIMENT TANK SHOWN MAY BE USED IN SITES WHERE SPACE IS LIMITED TO CONSTRUCT A DewaterING BARRIER.

2. THE MAXIMUM PUMP DISCHARGE INTO THIS TYPICAL PORTABLE SEDIMENT TANK SHALL BE 425 GALLONS PER MINUTE 266 LITERS PER SECOND. THE FILTER FABRIC SHALL BE REPLACED WHEN THE PORTABLE SEDIMENT TANK CAN NO LONGER ALLOW THIS FLOW RATE, WHEN THERE IS A TEAR, OR WHEN DIRECTED BY THE ENGINEER.

3. SEVERAL UN-CONNECTED OR CONNECTED IN PARALLEL PORTABLE SEDIMENT TANKS MAY BE USED WHEN A HIGHER FLOW RATE IS NEEDED TO DE-WATER THE JOB.

4. OTHER DESIGNS MAY BE USED PROVIDED THE HYDRAULIC DESIGN IS SUBMITTED TO AND APPROVED BY THE STORMWATER ENGINEER.

SECTION B-B

SECTION A-A

DELaware department of transportation

standard no. e-24 (2005)  sht. 1 of 1

approved

recommended

[Signatures]

07/08/2005

09/08/2005
NOTES:
1. RIPRAP IS TO BE PLACED PRIOR TO PLACING PIPE.
2. PLACE DILAMARE NO. 3 STONE UNDER PIPE.
3. ELEVATION (EL) SHOULD NOT BE HIGHER THAN PIPE INVERT.
4. REFER TO THE PIPE ENERGY DISSIPATOR SCHEDULE ON THE CONSTRUCTION PLANS FOR THE VALUE OF DIMENSION VARIABLES.