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DEPARTMENT OF TRANSPORTATION

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06/05/2006
NOT TO SCALE

NOTES:

0. THE PERFORATED PIPE UNDERDRAIN SHALL BE LOCATED AS SHOWN ON THE TYPICAL SECTIONS OF THE CONSTRUCTION PLANS.
1. GEOTEXTILE FILTER FABRIC SHALL BE PLACED ENTIRELY OVER THE TOP OF UNDERDRAIN TRENCH AND LAPPED AS SHOWN.
2. SLOPE OF UNDERDRAINS SHALL MATCH ROADWAY GRADE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. OUTLET PIPE CONFIGURATIONS SHALL USE 45 DEGREE ELBOWS OR SHALL USE STRAIGHT PIPE WITH A MINIMUM RADIUS OF 3' 000 TO DIRECT UNDERDRAIN PIPE INTO SIDE OF DRAINAGE INLET OR TO POSITIVE GRADE. PIPE SHALL ALSO BE NON-PERFORATED AND HAVE A SMOOTH INTERIOR.
4. ROIDEN SCREEN SHALL MINIMIZE THE PROVIDED SLOT WITH THE SCREEN UP FITTING TIGHT TO THE BOTTOM FLOW LINE.
5. A 4" ELEVATOR FLEXIBLE DELIMETOR SHALL BE FURNISHED AND INSTALLED AT THE DIRECTION OF THE ENGINEER TO MARK THE LOCATION OF THE CONCRETE HEADWALL; COST INCIDENTAL TO DOWNSPOUT SPLASH APRONS ITEM.
6. WHEN TWO LINES OF PIPE UNDERDRAIN DRAIN TO A LOW POINT, EACH PIPE MUST HAVE ITS OWN OUTLET.
7. PERFORATED PIPE UNDERDRAIN SHALL NOT BE PLACED UNDER GUARDRAILS IN ORDER TO AVOID PUNCTURING.

DELWARE DEPARTMENT OF TRANSPORTATION

PERFORATED PIPE UNDERDRAIN DETAIL

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.

DELaware
DEPARTMENT OF TRANSPORTATION

SILT FENCE

SHT. 1 OF 1
APPROVED
10/02/2006
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 WEIR.
3. THE CHECK DAM IS TO BE CONSTRUCTED SO THAT THE CENTER IS 6' (1800) MIN.
4. LOWER THAN THE OUTER EDGES, FORMING A WEIR THAT WATER CAN FLOW ACROSS.
5. GEOTEXTILE FABRIC IS TO BE INSTALLED UNDERNEATH RIPRAP ON PERMANENT CHECK DAMS ONLY.
ELEVATION

NOTES:
1. THIS DEVICE IS INTENDED TO BE USED AS AN OUTLET FOR SEDIMENT TRAPS.
2. THE PIPE OUTLET SHOWN SHALL ONLY BE USED WITH SEDIMENT TRAPS WITH DRAINAGE AREAS OF 5 ACRES (2.0 HECTARES) OR LESS. LARGER DRAINAGE AREAS REQUIRE AN ENGINEERED DESIGN.
3. THE HEIGHT OF THE SKINNER DEWATING DEVICE SHALL BE SPECIFIED BY THE ENGINEER IN THE FIELD.

DELaware department of transportation
RISER pipe assembly for sediment trap

Approved
NOTES:

8. ALL P.V.C. PIPES ARE TO BE 4"OD, SCHEDULE 40.

2. ALL JOINTS OF THE FLOATATION SECTION SHALL BE SOLVENT WELDED. JOINTS OF SKIMMER SECTION NEED NOT BE WATER-TIGHT.

3. 4"OD HOSE FLEXIBLE STRAIN PIPE IS TO BE ATTACHED TO THE POND OUTLET STRUCTURE WITH WATER-TIGHT CONNECTIONS.

4. ORIFICE IS TO BE SIZED ACCORDING TO STORAGE VOLUME AND TO SLOWLY RELEASE FLOOD RUNOFF FOR AT LEAST 24 HOURS.

12 ROWS OF 3/4" DIAL HOLES, 1/4" CO2 G.C.C.

OFFICE DRILLED IN END CAP (SEE NOTE 41)

PLAN VIEW

*4 REBAR GUIDE POST (1 TPJ) WITH WIRE STOP AT TOP OF RISER

ATTACH FLEXIBLE PIPE TO PVC WITH TWO NO. 8 WOOD SCREWS

FRONT VIEW

FLANGE WITH RUBBER GASKET MATERIAL (ATTACH TO STRUCTURE WITH CONCRETE SCREWS OR OTHER SUITABLE ATTACHMENT AS APPROVED BY THE ENGINEER)

SIDE VIEW

DELWARE DEPARTMENT OF TRANSPORTATION

SKIMMER DEWATERING DEVICE

APPROVED

STANDARD NO. E-22 (2006) SHT. 1 OF 1 RECOMMENDED

10/02/2006
NOTES:
1. RIPRAP IS TO BE PLACED PRIOR TO PLACING PIPE.
2. PLACE DELAWARE 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.

SECTION A-A

SEE DETAIL B

SEE NOTES 1 & 2

SEE NOTE 3

2 x Ti

L

Ti

GEOTEXTILE

DELWARE DEPARTMENT OF TRANSPORTATION

RIPRAP ENERGY DISSIPATOR DETAIL

STANDARD NO. E-26 (2006) SH. 1 OF 1

APPROVED

RECOMMENDED
ALL DEAD, BROKEN & CROSSING BRANCHES SHALL BE PRUNED OFF FOLLOWING INSTALLATION

ALL SOIL SHALL BE EXCAVATED FROM THE PIT, MIXED WITH APPROVED AMENDMENTS AND USED AS BACKFILL DURING INSTALLATION OF SHRUB.

ROOTBALL SHALL BE SET FLUSH TO GRADE OR 1'-0" TO 2'-0" ABOVE GRADE IF SOILS ARE SLOW TO DRAIN, DO NOT COVER THE TOP OF THE ROOTBALL WITH SOIL.

MULCH IN ACCORDANCE WITH SPECIFICATIONS, DO NOT PLACE MULCH AGAINST THE SHRUB STEMS.

REMOVE BURLAP & WIRE BASKETS TO 1/3 OF THE ROOTBALL. DO NOT LEAVE BURLAP, BASKET, OR ROPE DEBRIS IN THE PIT.

ROOT BALL SHALL BE PLACED ON TAMPERED OR UNCRAVATED SOIL.

NOTES:
1. BASE OF PLANTING PIT SHALL BE A MINIMUM WIDTH OF TWICE THE ROOT BALL SIZE AND A MAXIMUM OF THREE TIMES THE ROOT BALL SIZE.
2. SHRUBS SHALL BE INSTALLED IN MASSES OF NO LESS THAN 3 PLANTS, A MINIMUM OF 1'-10" WIDTH IS REQUIRED FROM THE BACK OF CURB TO THE EDGE OF SIDEWALK FOR INSTALLATION OF SHRUBS.
3. ALL PRUNING SHALL BE DONE BY AN I.C.A. CERTIFIED ARBORIST, CERTIFIED NURSERY PROFESSIONAL, OR UNDER THE DIRECTION THEREOF. DO NOT HEAVILY PRUNE SHRUBS AT PLANTING.
4. AUGERED HOLES SHALL BE HAND DUG TO FINAL WIDTH AND TO ELIMINATE GAINING.
5. ALL SHRUB MASSES SHALL BE MULCHED AS ONE CONTINUOUS BED.

ROADSIDE SHRUB PLANTING DETAIL

DELAWARE DEPARTMENT OF TRANSPORTATION

PLANTING DETAILS

STANDARD NO. L-1 (2006)  SHRT. 1 OF 1

APPROVED

RECOMMENDED

08/04/2006
DO NOT PRUNE THE DOMINANT LEADER OR TERMINAL BUDS OF THE CROWN.

NOTES:
1. ALL PRUNING SHALL BE DONE BY OR UNDER THE DIRECTION OF AN L.S.A. CERTIFIED ARBORIST OR CERTIFIED NURSERY PROFESSIONAL. DO NOT HEAVILY PRUNE TREES AT PLANTING.
2. ALL DEAD, BROKEN & CROSSING BRANCHES SHALL BE PRUNED OFF FOLLOWING INSTALLATION.
3. BASE OF PLANTING PIT SIZE SHALL BE A MINIMUM WIDTH OF TWICE THE ROOT BALL SIZE AND A MAXIMUM OF THREE TIMES THE ROOT BALL SIZE.
5. WHEN PLANTING TREES ALONG SIDEWALKS, THE TREE SHALL BE LIMBED TO 7' (2100) FOR PEDESTRIAN CLEARANCE.

STAKE & GUY TREES, GUY WIRE, STAKES, & RUBBER HOSE SHALL BE AS SPECIFIED IN SECTION 1ST.

SET ROOT BALL FLUSH TO GRADE OR 1/2" TO 2" (50-150) ABOVE GRADE. IF SOILS ARE SLOW TO DRAIN, PLANT TREES SUCH THAT THE TRUNK FLARE IS VISIBLE. ANY TREE WHERE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

TAMP SOIL AROUND THE ROOT BALL BASE WITH FOOT PRESSURE SO ROOT BALL DOES NOT SHIFT.

REMOVE BURLAP AND BASKETS TO 1/2 OF THE ROOT BALL. DO NOT BURY EXCESS BURLAP, ROPE OR REMNANTS OF BASKET IN THE PLANTING HOLE.

MULCH IN ACCORDANCE WITH SPECIFICATIONS. DO NOT PLACE MULCH AGAINST THE TRUNK.

ALL SOIL SHALL BE EXCAVATED FROM THE PIT, MIXED WITH APPROVED AMENDMENTS AS PER SPECIFICATIONS AND USED AS BACKFILL. DURING INSTALLATION OF TREES, PLACE ROOT BALL ON TAMPERED OR UNEXCAVATED SOIL.
POLYMER CONCRETE WITH A HEAVY-WEAVE FIBERGLASS REINFORCEMENT

3/8" (9) 16 UNC HEX BOLT WASHERS TO BE SECURED INTO THE WELL FRAME

1/2" x 3/4" (175) X 1000 PULL SLOT

SKID RESISTANT SURFACE

64 3/8" (660) 64 3/8" (660)

NOTES:

1. TYPE T CONDUIT JUNCTION WELL SHALL BE PRECAST POLYMER CONCRETE.

2. ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE ROADWAY. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO ORAN AWAY FROM THE CONDUIT JUNCTION WELL.

3. POLYMER CONCRETE COVERS SHALL BE THE HEAVY DUTY TYPE WITH A DESIGN LOAD OF 5,000 LBS (4,536 kg) OVER A 4" x 4" SQUARE.

PLAN VIEW

SECTION A-A
**PLAN VIEW**

**SECTION A-A**

**NOTES:**
1. TYPES 8 & 10 CONDUIT JUNCTION WELLS SHALL BE PRECAST POLYMER CONCRETE.
2. ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENT, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
3. POLYMER CONCRETE COVERS SHALL BE THE HEAVY-DUTY TYPE WITH A DESIGN LOAD OF 85,000 LBS (6000 KILOGRAMS) OVER A 10' (2591) SQUARE.

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<tr>
<td>A</td>
<td>47 1/4&quot;(1200)</td>
<td>35 1/4&quot;(905)</td>
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<tr>
<td>B</td>
<td>30 1/4&quot;(765)</td>
<td>24&quot;(600)</td>
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<td>C</td>
<td>48 1/4&quot;(1220)</td>
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<td>32 1/4&quot;(815)</td>
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<td>45 1/4&quot;(1140)</td>
<td>33 1/4&quot;(840)</td>
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<tr>
<td>F</td>
<td>28 1/4&quot;(710)</td>
<td>22 1/4&quot;(565)</td>
</tr>
<tr>
<td>G</td>
<td>36&quot;(915)</td>
<td>30&quot;(760)</td>
</tr>
<tr>
<td>H</td>
<td>33&quot;(830)</td>
<td>21&quot;(530)</td>
</tr>
<tr>
<td><strong>FRAME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>58&quot;(1470)</td>
<td>46&quot;(1168)</td>
</tr>
<tr>
<td>J</td>
<td>46&quot;(1160)</td>
<td>34&quot;(864)</td>
</tr>
</tbody>
</table>

DELTA DOT

DEPARTMENT OF TRANSPORTATION

SHT. 3 OF 3  
APPROVED  
RECOMMENDED  
05/13/2006
NOTES:
1. UPRIGHT CONFIGURATION SHALL BE USED FOR MOUNTING ON MAST ARMS, SIGNAL HEAD FRAMEWORKS AND PEDESTALS.
2. UPRIGHT MOUNTING HARDWARE SHALL BE SUPPLIED BY THE DEPARTMENT.
3. TEFLOM TAPE SHALL BE APPLIED TO THREADS BEFORE MOUNTING.