SHEETS OF SHEET NO. (TH) STATE PROJ. NO. (SILT FENCE TYPE TB)

TEMPORARY SEDIMENT CONTROL

ALTERNATE FLOTATION SILT CURTAIN

TURBIDITY BARRIER

SANDBAGS OR EQUIVALENT POST WITH 1-1/2 INCH RIGID STEEL CONDUIT

TERMINAL FLAP OF GEOTEXTILE PROVIDE SUFFICIENT NUMBER OF POST ANCHORS TO MAINTAIN SILT CURTAIN POSITION.

EACH ANCHOR FLOAT MUST BE CONNECTED SECURELY TO SLEEVE WITH A MINIMUM TENSILE STRENGTH BUT IN NO CASE SHALL EMBEDMENT BE LESS THAN 2 FEET.

CURTAIN WEIGHT DEPENDS ON THE DEEPEST POINT ALONG THE FLOTATION SILT CURTAIN:
- MAXIMUM WATER VELOCITY: 5 FT./SEC.
- MAXIMUM WATER DEPTH: 10 FT.
- MINIMUM WATER DEPTH: 3 FT.

PLASTIC ZIP TIES CONNECTED TO STEEL TENSION CABLE AND CARRIER FLOAT.

TEMPORARY ROCK BERM CONSTRUCTED FROM THE RIPRAP CAN BE USED TO PROVIDE ADDITIONAL PROTECTION.

45° INSTALLATION GUIDELINES FOR FLOTATION SILT CURTAIN

FOR SEDIMENT CONTROL:
- MAXIMUM WATER VELOCITY: 5 FT./SEC.
- MAXIMUM WATER VELOCITY: 2 FT./SEC.
- MAXIMUM WATER DEPTH: 10 FT.
- MINIMUM WATER DEPTH: 1 FT.

LAKE OR MARSH TYPE STILL WATER

WATER DEPTH CAN BE 0 TO 10 FEET. THE DEPTH OF THE SILT CURTAIN VARIES.

ANCHOR TO LAND (TYP.)

WATERFALL

PERIMETER CONTROL

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

SILT CURTAIN OR TURBIDITY BARRIER

INSTALLATION GUIDELINES

TURBIDITY BARRIER

MINIMUM WATER DEPTH 3 FT.
MAXIMUM WATER VELOCITY: 6 FT./SEC.
MAXIMUM WATER VELOCITY: 5 FT./SEC.

FLOTATION SILT CURTAIN TYPE STILL WATER

MINIMUM WATER DEPTH 3 FT.
MAXIMUM WATER VELOCITY: 2 FT./SEC.
MAXIMUM WATER VELOCITY: 5 FT./SEC.

INSTALLATION GUIDELINES

FLOTATION SILT CURTAIN TYPE MOVING WATER

MINIMUM WATER DEPTH 3 FT.
MAXIMUM WATER VELOCITY: 5 FT./SEC.
MAXIMUM WATER VELOCITY: 5 FT./SEC.
MAXIMUM WATER VELOCITY: 2 FT./SEC.

INSTALLATION GUIDELINES

FLOTATION SILT CURTAIN TYPE MOVING WATER

MINIMUM WATER DEPTH 3 FT.
MAXIMUM WATER VELOCITY: 2 FT./SEC.
MAXIMUM WATER VELOCITY: 5 FT./SEC.
MAXIMUM WATER VELOCITY: 5 FT./SEC.

NOTES:

1. SEE SPECS. 2513, 2886, 2887 & 2893.
2. FOR ANCHOR SPACING AND WEIGHT REQUIREMENTS, SEE SPEC. 2573.
3. IN AREAS WHERE THE PLAN CALLS FOR REPAIR AT A BRIDGE, CULVERT, OR SLOPE, A TEMPORARY ROCK BERM CONSTRUCTED FROM THE RIPRAP CAN BE USED TO PROVIDE ADDITIONAL PROTECTION. WHEN THE WORK IS COMPLETE THE RIPRAP CAN THEN BE MOVED TO THE PERMANENT LOCATION INDICATED IN THE PLANS. THE TEMPORARY ROCK BERM IS INCIDENTAL.
4. ON U.S. COAST GUARD OR OTHER MOTORIZED WATERWAYS, BUOYS ARE REQUIRED TO MARK THE ENDS AND SPECIAL AREAS FOR VISIBILITY. PLACE BUOYS AS REQUIRED FOR NAVIGATIONAL PURPOSES.
5. WATER DEPTH CAN BE 0 TO 10 FEET. THE DEPTH OF THE SILT CURTAIN VARIES.
6. MINIMUM WATER DEPTH APPLIES TO THE DEEPEST POINT ALONG THE FLOTATION SILT CURTAIN OR TURBIDITY BARRIER.
7. SILT CURTAIN SHOULD BE REMOVED WHEN THE AREA CONTRIBUTING DIRECT RUNOFF HAS BEEN TEMPORARILY OR PERMANENTLY STABILIZED. SILT CURTAIN SHOULD ALSO BE REMOVED BEFORE FLOODS IF ICE UP OR ICE FLOW IS ANTICIPATED.
8. ENDS OF FLAP MUST BE CONNECTED SECURELY WITH A MINIMUM TENSILE STRENGTH OF 150 LBS. CONSTRUCTION METHOD MUST ALLOW FOR SLEEVE TO SLIDE FREELY OR POST.
9. PROVIDE SUFFICIENT NUMBER OF POST ANCHORS TO MAINTAIN SILT CURTAIN POSITION.
**SEDIMENT CONTROL Logs**

**CLASS I RIPRAP**

**CLASS II RIPRAP**

**SEDIMENT CONTROL Logs**

**8 IN. - 10 IN. EMBEDMENT DEPTH**

**OR TOPSOIL, COMPOST, SLASH MULCH, TYPES: WOOD CHIP, COMPOST, OR ROCK**

**FILTER BERMS**

**DITCH PROFILE**

**1:2 SLOPE (TYP)**

**45° FLOW**

**MINIMUM IN THE GROUND.**

**BALE EMBEDDED 10 INCHES OR REINFORCING BARS IN EACH TWO 2 IN. X 2 IN. WOOD STAKES**

**PLACE BALE ON THE BLANKET AND WRAP BLANKET AROUND THE BALE.**

**PLACE STAKE THROUGH BALE AND BLANKET.**

**PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NECED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.**

**TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS (6 INCH MAX DEPTH) BALE SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14 IN. X 18 IN. X 36 IN. LONG, BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.**

**FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS**

**STATE PROJ. NO.**

**SHEET NO.**

**OF SHEETS**

**NOTES:**

1. SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1 FOOT FOR DITCH CHECKS OR 2 FEET FOR OTHER APPLICATIONS.
2. PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NECED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
3. FOR PERMANENT DITCH CHECK REDUCE THE HEIGHT TO 16 IN. AND MODIFY THE 1:2 (V:H) SIDE SLOPE TO 1:6 V/H.
4. TYPES: STRAW, WOOD FIBER, OR COIR
5. TYPES: WOOD CHIP, COMPOST, OR ROCK
6. PLACE STAKES THROUGH BALE AND BLANKET.
7. PLACE STAKE THROUGH BALE AND BLANKET.
DEGREES WITH THE TOP OF THE STAKE POINTING UPSTREAM.

OF THE SEDIMENT CONTROL LOG AT AN ANGLE OF 45

SPACING. STAKES SHALL BE DRIVEN THROUGH THE BACK HALF

1 IN. X 2 IN. X 24 IN. LONG WOODEN STAKES AT 1 FT. MAXIMUM

D temporary sediment control

ditch check

STATE PROJ. NO.

D I C T

#:

I P L O T N A M E:

P A T H & F I L E N A M E:

d 15 6 7 9 3 3

t e m p o r a r y _ s e d i m e n t _ c o n t r o l_ 3 .d g n

T S C o n t r a n d a r d s

T S D e s i g n

SHEET NO.

OF SHEETS

CATEGORY 3

EROSION CONTROL BLANKET

ANCHORAGE TRENCH.

BACKFILL WITH TAMPED NATURAL SOIL.

1

FLOW

4 IN. MIN.

4 IN. MIN.

ALONG BOTTOM OF RIPRAP

FILTER BERM TYPE 3 (ROCK WEEPER) OR FILTER TYPE 5 (ROCK)

FOR USE ON ROUGH GRADED AREAS

CLASS I - IV RIPRAP (SPEC. 3601) WITH GEOTEXTILE FABRIC TYPE IV (SPEC. 3733).

SEDIMENT CONTROL LOG BLANKET SYSTEM

SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST

FOR USE ON ROUGH GRADED AREAS

NOTES:

SEE SPECS. 2573, 3601, 3733, 3885, 3886 & 3889.

APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:

\[ Y = \frac{2 \times 100}{100} \times \text{CHANNEL SLOPE} \]

APPROXIMATE SPACING OF DITCH CHECKS (FT) = \( \frac{2 \times 100}{100} \times \text{CHANNEL SLOPE} \)

POINT 'A' MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT 'B' TO ENSURE THAT WATER FLOWS OVER THE DITCH AND NOT AROUND THE ENDS.

CLASS 3 - 8 IN. REBAR SPEC. 3800 WITH GEOTEXTILE FabriC TYPE IV (SPEC. 3733).

PERMANENT ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT.

A 1% APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.

NOTE:

DIKE AND NOT AROUND THE ENDS.

NOTE:

DIKE AND NOT AROUND THE ENDS.

NOTES:

SEE SPECS. 2573, 3601, 3733, 3885, 3886 & 3889.

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A 1% APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
**BUTT JOINTS**

**TEMPORARY SEDIMENT CONTROL**

**STORM DRAIN INLET PROTECTION**

**STATE PROJ. NO.**

**DISTRICT**

**LOCATION:**

**NAME:**

**IP PLAN:**

**PROJECT:**

**SIGNATURE:**

**DATE:**

**NOTES:**

- **FILTER BAG INSERT**: (CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX)
  - Use within the plan as per the placement dimensions.
  - Refer to the inlet specifications for details.

- **SEDIMENT CONTROL INLET HAT**
  - Suitable for use in areas with slopes of 1:3 or less.
  - Must be installed in inlets with depths greater than 30 inches.

- **SILT FENCE**
  - Use within the plan as per the placement dimensions.
  - Refer to the inlet specifications for details.

- **STORM DRAIN INLET PROTECTION**
  - All sediment control barriers shall be installed in accordance with the approved plans.
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- **FLAP POCKETS**
  - Use rock sock or sand bags in place of flap pockets.
  - Flap pockets shall be large enough to accept wood 2 inch x 4 inch or use a rock sock or sand bags in place of the flap pockets.

- **OVERFLOW HOLES**
  - 2 inch x 4 inch hole shall be heat cut into all four side panels.

- **SOCK HEIGHT**
  - Must not be so high as to slow down water filtration to cause flooding of the roadway.

- ** СоMFORMING TO SPEC. 3137 TABLE 3137-1; CA-3 GRADATION.**
  - Aggregate consisting of sound durable particles of coarse aggregate.

- **NO SUBSTITUTIONS PERMITTED.**
  - Use of substitute materials is not permitted.

- **INSTALLATION NOTES**
  - Do not place filter bag inserts in inlet shallower than 30 inches.
  - Use rock sock or sand bags in place of flap pockets.

- **OVERFLOW HOLES**
  - 2 inch x 4 inch hole shall be heat cut into all four side panels.

- **SOCK HEIGHT**
  - Must not be so high as to slow down water filtration to cause flooding of the roadway.

- **SCAFFOLDING**
  - Use with caution when using scaffolding.

- **POP-UP HEAD**
  - Use where inlets drain in areas with slopes of 1:3 or less.

- **STORM DRAIN INLET PROTECTION**
  - All sediment control barriers shall be installed in accordance with the approved plans.

- ** Kardash**
  - Use with caution when using Kardash.

- **PLASTIC MESH BACKING**
  - Use with caution when using plastic mesh backing.

- **STEEL PLATE**
  - Use with caution when using steel plate.

- **TUBE RISER**
  - Use with caution when using tube riser.

- **ROCK SOCK**
  - Use with caution when using rock sock.

- **SILT FENCE RING**
  - Use with caution when using silt fence ring.

- **ROCK FILTER BERM**
  - Use with caution when using rock filter berm.

- **MAY BE SUBSTITUTED.**
  - Substitute materials may be used with permission.

- **FLANDERS & A LEAF COVER.**
  - Use with caution when using flanders and a leaf cover.

- **FILENAME:**
  - Use with caution when using file name.

- **MANUFACTURED ALTERNATIVES LISTED ON Mn/DOT'S APPROVED PRODUCTS LIST**
  - Use with caution when using manufactured alternatives.

- **BE HEAT CUT INTO ALL FOUR SIDE PANELS.**
  - Use with caution when using heat cut into all four side panels.

- **FILTER BAG INSERT**
  - Use with caution when using filter bag insert.

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TEMPORARY SEDIMENT CONTROL

CONSTRUCTION EXITS

STATE PROJ. NO.:

DISTRIBUTION:

STATE PROJ. NO.:

LOCATION:

PUBLIC & PRIVATE

PROJECT NAME:

PACT & FILE

PROJECT NO.:

IP - PW:

d15 79 33 9

temporary sediment control

TS_5
design standar

TS 23-OCT-2013

PL - RE

EVISE:

SHEET NO.

OF SHEETS

SEE SPECS. 2573 & 3882.

MIN. LENGTH =

2434

MIN. LENGTH =

23 MIN.

10 FT MIN.

10 FT MIN.

MIN. 10 FT

MIN. 10 FT

MIN.

10 FT

MIN.

MINIMUM LENGTH SHOULD BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHOULD BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONAL.

PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.

IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARDS THE CONSTRUCTION EXIT, PREVENT RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE EFFECTIVE SEDIMENT TRAP. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES.

OPERATIONS.

SHEET PAD CONSTRUCTION EXIT

SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT

RUMBLE PAD CONSTRUCTION EXIT

SURFACE FLOW

TRAP

SEDIMENT

MIN. LENGTH =

23 MIN.

10 FT MIN.

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SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT

RUMBLE PAD CONSTRUCTION EXIT

SURFACE FLOW

TRAP

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IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARDS THE CONSTRUCTION EXIT, PREVENT RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE EFFECTIVE SEDIMENT TRAP. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES.

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**Temporary Sediment Control**

**Installation at Bridge Embankment Adjacent to Water**

- **Silt Fence Type HI**: Hand Installed
- **Silt Fence Type MS**: Machine Sliced
- **Silt Fence Type PA**: Preassembled

**Notes:**
- See specs. 2133, 3149 & 3260.
- COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
- TO PROTECT AREAS FROM SHEET FLOW, MAXIMUM CONTRIBUTING AREA: 1 ACRE.
- TO PROTECT AREAS FROM SHEET FLOW, MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
- WATER COURSE FLOW VELOCITY: STANDING.
- WATER COURSE FLOW VELOCITY: 1 TO 7 FT/SEC.
- WATER COURSE FLOW VELOCITY: 8 TO 15 FT/SEC.

**Temporary Sheetings Adjacent to Water**:
- Sand Bag Barrier
- Tree Compaction Zone
- Tire Compaction Zone
- Plastic Zip Ties
- Staples (Typ.)

**Geotextile Fabric**: 36 in. wide, 6 in. min. depth, 20 lb. tensile.

**Construction Limits**: 5 ft. max. length post at 6 ft. max. spacing.

**Plan View**: J-Hook Installation

**Perspective View**: See optional method detail.
TEMPORARY SEDIMENT CONTROL

SILT FENCE

STATE PROJ. NO.: IP 7919

DESCRIPTION:

- GEOTEXTILE FABRIC
- BARRIER
- METAL FENCE POST
- STOCK PILE
- CRITICAL AREA
- ACCESS
- TOP VIEW
- PROFILE VIEW

NOTES:

1. Place Silt Fence Type SD along a constant elevation.
2. Placing stock piles next to an environmentally sensitive area is not recommended. When there are no feasible alternatives, place Silt Fence SD as shown or as directed by the engineer.

CRITICAL AREAS INCLUDE WETLANDS, JUDICIAL DITCHES, STREAMS, WATER BODIES, AND OTHER AREAS REQUIRING PROTECTION.