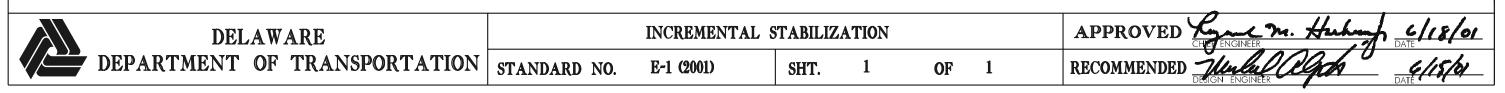
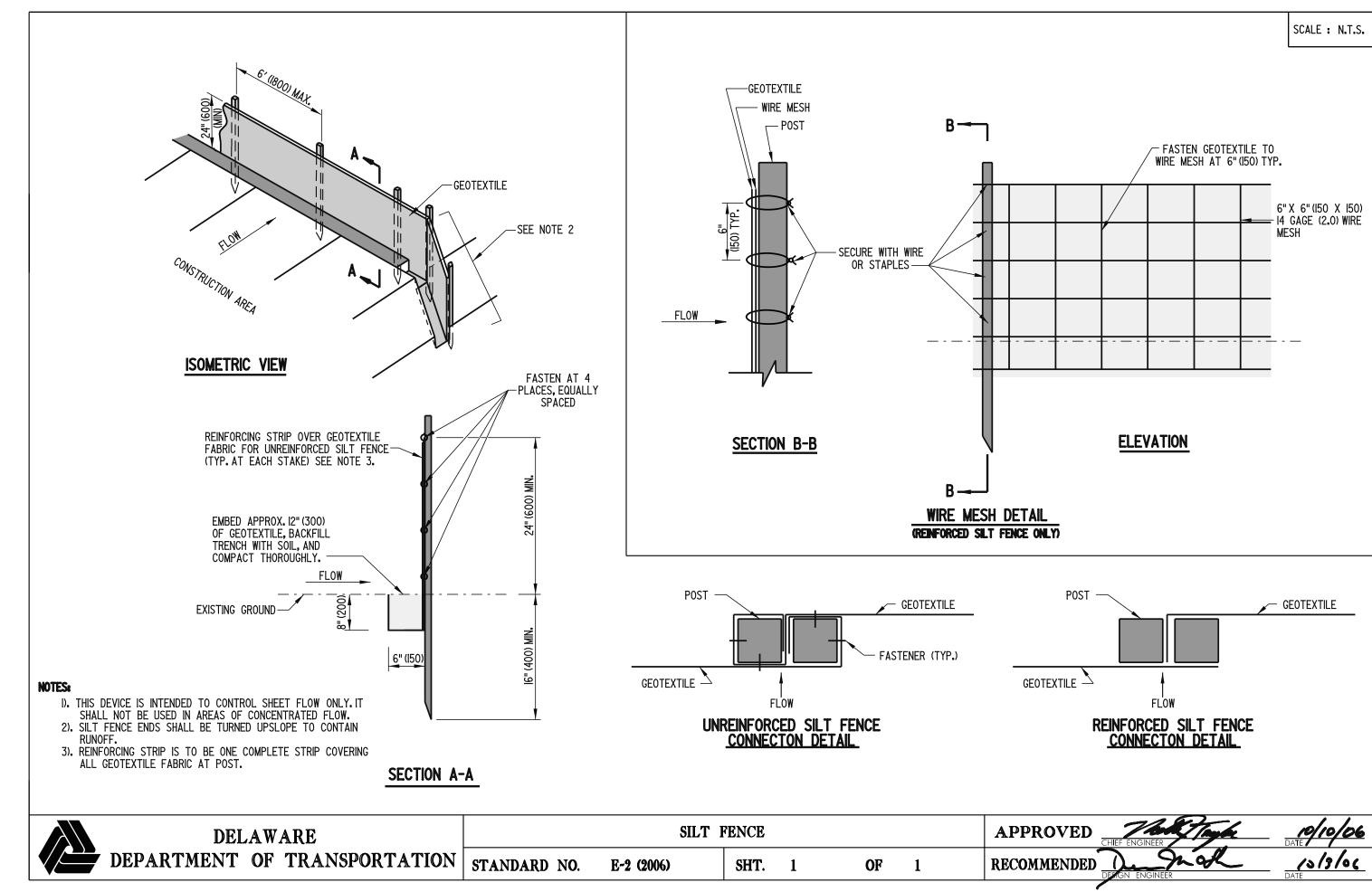


NOTES: I.) EDGE BERMS AND TEMPORARY SLOPE DRAINS SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SLOPES TO INTERCEPT RUNOFF AND CONVEY IT DOWN THE SLOPE FACES WITHOUT CREATING GULLIES OR WASHOUTS.

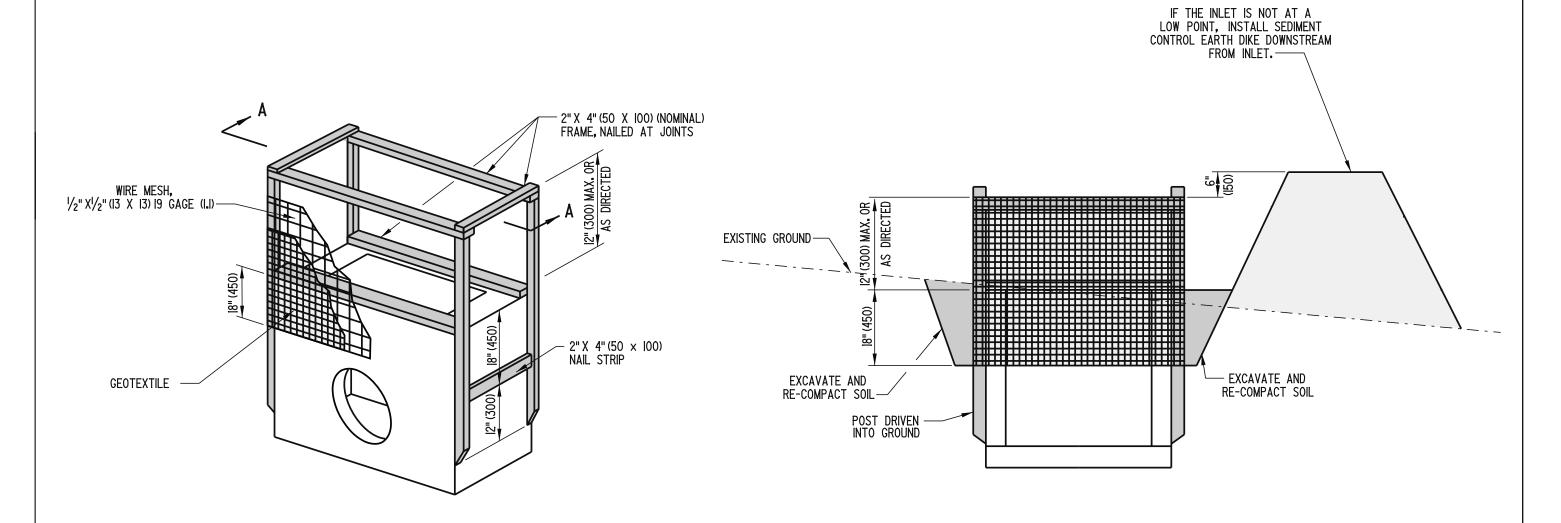
- 2.) SLOPE FACES SHALL BE TRACKED WITH CLEATED EQUIPMENT SUCH THAT THE CLEAT MARKS ARE ORIENTED HORIZONTALLY.
- 3.) ALL CUT AND FILL SLOPES OF THE HIGHWAY EMBANKMENT SHALL BE PERMANENTLY STABILIZED AS THE WORK PROGRESSES IN INCREMENTS NOT TO EXCEED 10' (3000) MEASURED ALONG THE SLOPE.
- 4.) CROSS SLOPES SHALL BE 2% MINIMUM, 6% MAXIMUM.

FILL SECTION



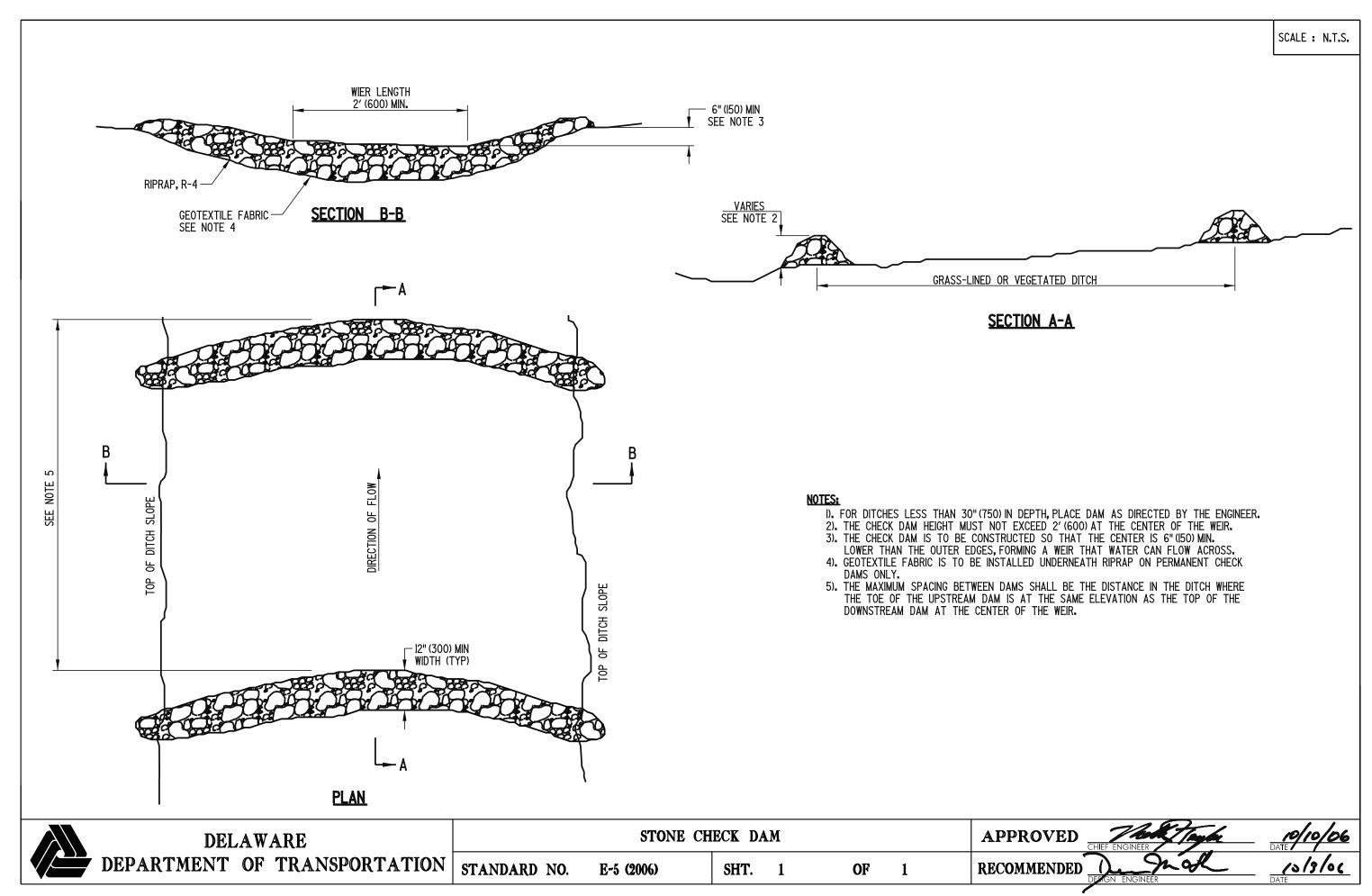


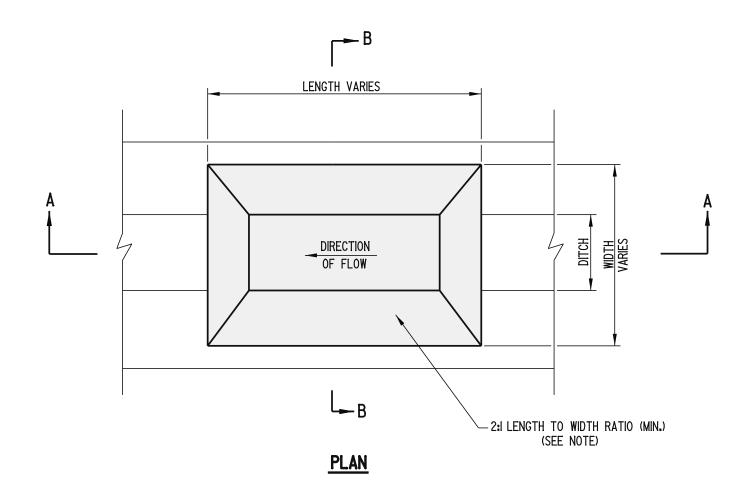


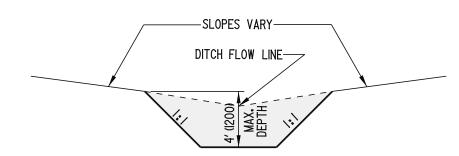


ISOMETRIC VIEW SECTION A-A

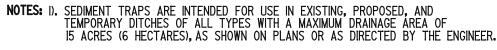
DELAWARE	DRAINAGE	INLET SEDIMENT CONTROL		APPROVED Cawlan Wich	/2/5/05 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO. E-3 (20	5) SHT. 1 OF	1	RECOMMENDED RESIGN ENGINEER	11/29/05 DATE



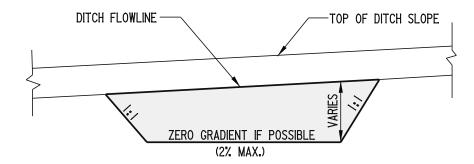




SECTION B-B



- 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, SKIMMER DEWATERING DEVICES, OR DRAINAGE INLETS 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 FILL SLOPES SHALL BE 2:1.
- 6). A 2:I LENGTH TO WIDTH RATIO SHOULD BE ACHIEVED WHERE POSSIBLE. IF THIS IS NOT POSSIBLE, THE USE OF BAFFLES OR OTHER SPECIAL DESIGNS SHOULD BE INCORPORATED TO INCREASE FLOW TIME.



SECTION A-A

STANDARD NO.

SEDIMENT TRAP

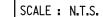
SHT. 1

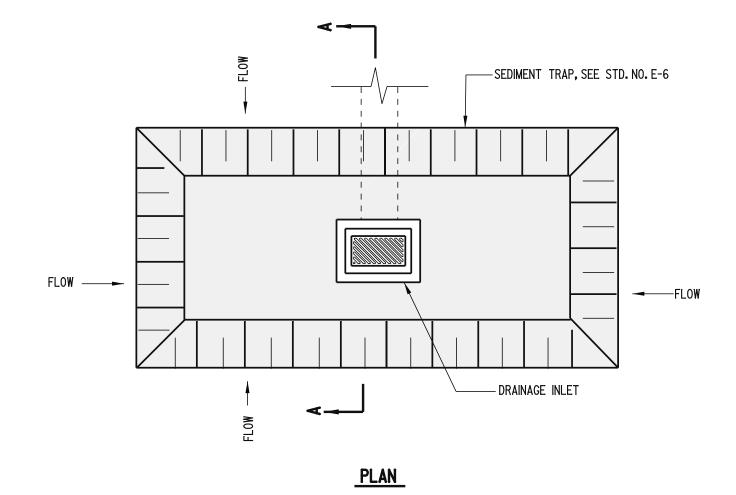
E-6 (2005)

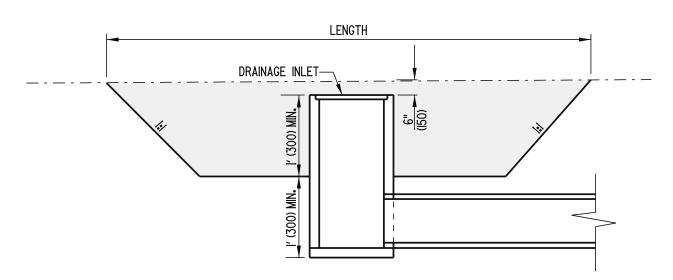
OF

APPROVED Carolan Wich 12/5/05

11/29/05







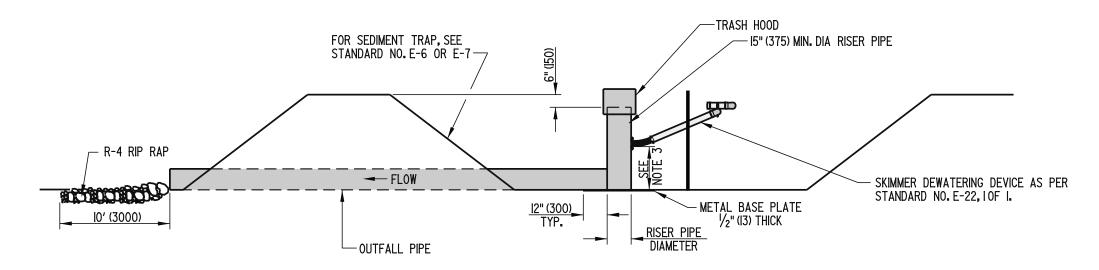
NOTES: 1). THE WORK SHALL CONSIST OF THE CONSTRUCTION OF A SEDIMENT TRAP AROUND A DRAINAGE INLET TO ALLOW SEDIMENTATION TO OCCUR BEFORE RUNOFF ENTERS THE DRAINAGE INLET.

- 2). DRAINAGE INLET SEDIMENT TRAPS SHALL BE LIMITED TO A THREE (3) ACRE (1.2 HECTRARE) 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.

DEPARTMENT OF TRANSPORTATION STANDARD NO. E-7 (2005) SHT. 1 OF 1 RECOMMENDED Purpose of the pulse of the puls	DELAWARE	SEDIMENT	TRAP, USING DRA	AINAGE INLET	AS OUTL	ET	APPROVED CANOLANA WICK	/2/5/05 DATE
DESIGN ENGINEER DATE	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-7 (2005)	SHT. 1	OF	1	RECOMMENDED RESIGN ENGINEER	11/29/05 DATE

MIN. * OUTFALL PIPE DIA.	MIN. RISER DIA.	MAX. DRAINAGE AREA ACRES (ha)
12" (300)	15" (375)	l (0 . 4)
15" (375)	18" (450)	2 (0.8)
18" (450)	21" (525)	3 (l . 2)
21" (525)	24" (600)	4 (1.6)
24" (600)	27" (675)	5 (2.0)

* OUTFALL PIPE DIAMETER MAY BE SAME SIZE AS RISER DIAMETER.



STANDARD NO.

ELEVATION

- 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 SKIMMER DEWATERING DEVICE SHALL BE SPECIFIED BY THE ENGINEER IN THE FIELD.

DEL	AW	AWARE					
DEPARTMENT	OF	TRANSPORTATION					

RISER PIPE ASSEMBLY FOR SEDIMENT TRAP

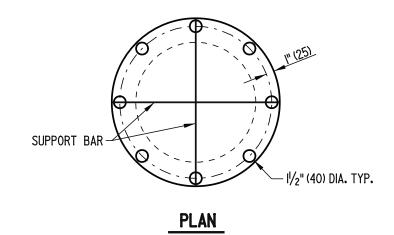
E-8 (2006)

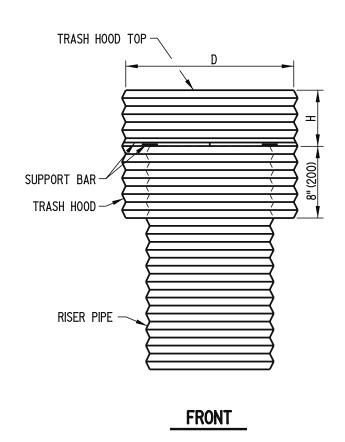
SHT. 1

OF

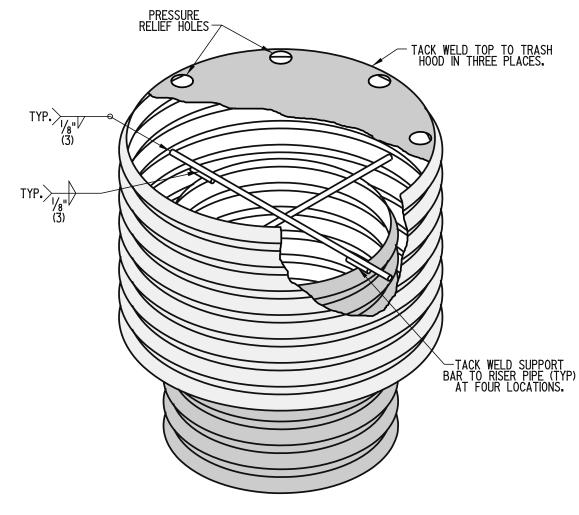
2

APPROVED RECOMMENDED





TRASH HOOD CHART										
RISER PIPE DIAMETER	D	Н	TRASH HOOD THICK. (GAGE)	MINIMUM SIZE SUPPORT BAR	MINIMUM TOP THICK. (GAGE)					
15" (375)	21" (525)	7" (175)	16 (l . 6)	#6 (#I9) REBAR	16 (I . 6)					
18" (450)	27" (675)	8" (200)	16 (I . 6)	#6 (#I9) REBAR	l6 (l . 6)					
2 " (525)	30" (750)	II" (275)	16 (I . 6)	#6 (#I9) REBAR	16 (1 . 6)					
24" (600)	36" (900)	13" (330)	l6 (l . 6)	#6 (#I9) REBAR	14 (2.0)					
27" (675)	42" (1050)	15" (380)	l6 (l . 6)	#6 (#I9) REBAR	14 (2.0)					
36" (900)	54" (1350)	17" (430)	14 (2.0)	#8 (#25) REBAR	12 (2.7)					

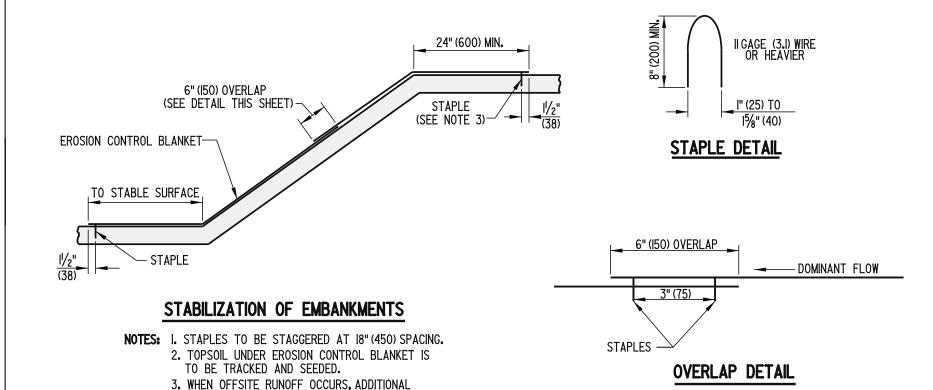


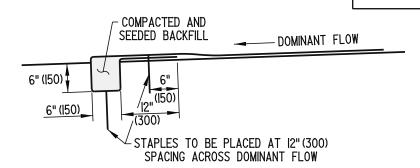
ISOMETRIC VIEW

TRASH HOOD DETAILS

DELAWARE	RISE	R PIPE ASSEMBLY	FOR SE	DIMENT	г TRAP		APPROVED CHIEF ENGINEER DATE DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-8 (2006)	SHT.	2	OF	2	RECOMMENDED DEPGN ENGINEER DATE

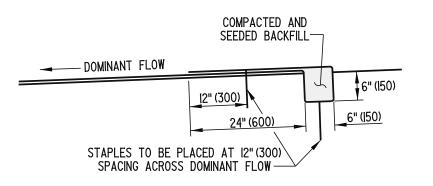






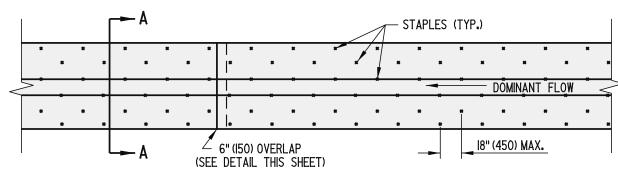
INITIAL TRENCH ANCHOR DETAIL

APPLIED AT THE DOWNSTREAM END OF DITCH



TERMINAL TRENCH ANCHOR DETAIL

APPLIED AT THE UPSTREAM END OF DITCH

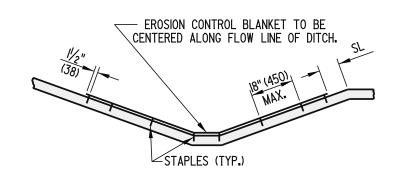


STABILIZATION OF DITCHES PLAN

NOTES: I. ADDITIONAL STAPLES NOT SHOWN ARE REQUIRED AT OVERLAPS. SEE OVERLAP DETAIL FOR STAPLE PLACEMENT.

STANDARD NO.

- 2. STAPLES ARE TO BE STAGGERED.
- 3. TOPSOIL UNDER EROSION CONTROL BLANKET IS TO BE TRACKED AND SEEDED.



STABILIZATION OF DITCHES SECTION A-A

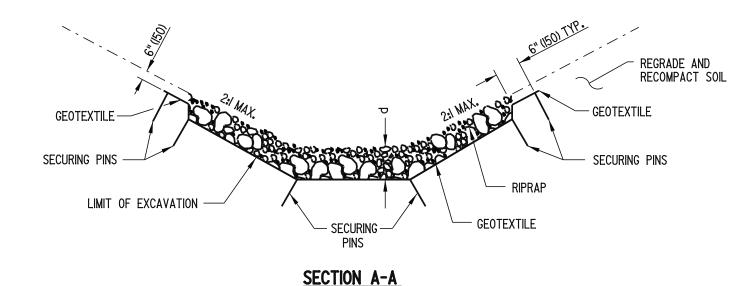
STAPLES ALONG LONGITUDINAL EDGES
SHALL BE SPACED AS FOLLOWS:
18" (450) WHEN SL ≤ 20' (6000)
9" (225) WHEN SL > 20' (6000)

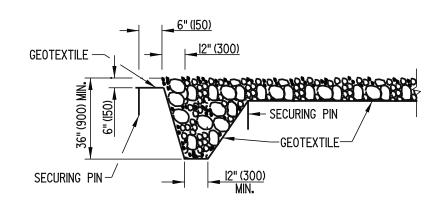


DELAWARE DEPARTMENT OF TRANSPORTATION

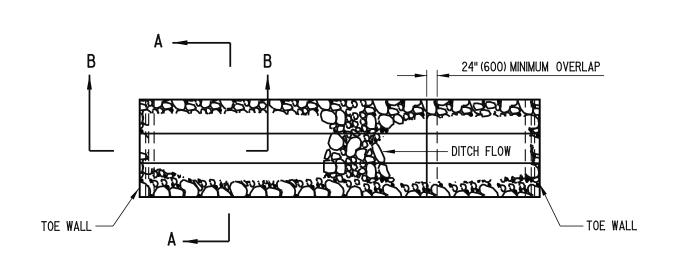
MEASURES AS DIRECTED BY THE ENGINEER SHALL BE USED TO ENSURE STABILITY OF EMBANKEMENT.

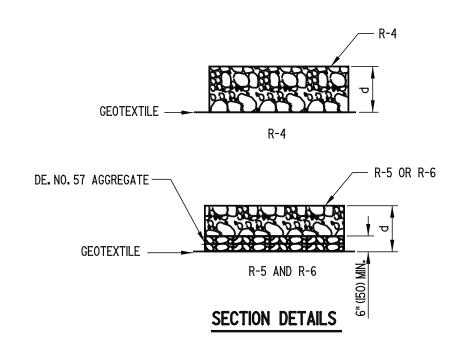
STAPLES TO BE STAGGERED AT 6" (150) SPACING.





SECTION B-B





CLASS RIPRAP

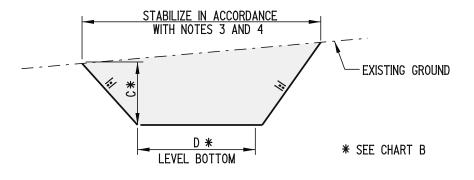
R-6 d = 34'' (850) MIN.

R-4 d = 14" (350) MIN. R-5 d = 26" (650) MIN.

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 SIGHT SPECIFIC CONDITIONS.

DELAWARE	RIPRAP DITCH					APPROVE	D Carolan Wich	12/5/05 DATE	
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-10 (2005)	SHT.	1	OF	1	RECOMMEND	ED Rose Oster	11/29/05 DATE



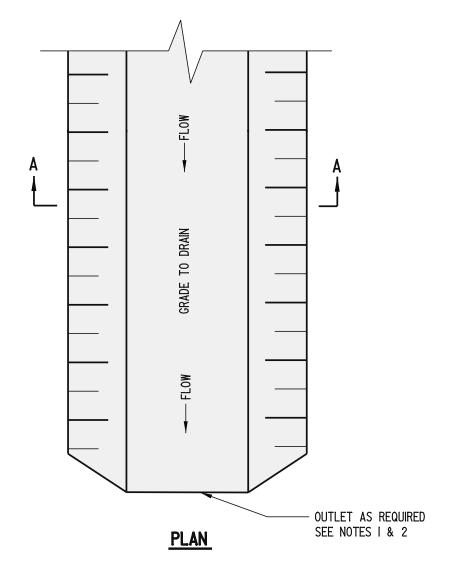


CHART A - STABILIZATION									
		TYPE OF TE	REATMENT						
SYMBOL	SWALE GRADE	DRAINAGE AREA A	DRAINAGE AREA B						
		(5 AC (2 ha) OR LESS)	(5 AC - 10 AC (2 ha - 4 ha))						
I	0.5-2.0%	SEED USED WITH EROSION CONTROL BLANKET	SEED USED WITH EROSION CONTROL BL.						
2	2,1-8.0%	R-4 RIRRAP	R-4 RIRRAP						
3	8.1-20%	ENGINEERED DESIGN	ENGINEERED DESIGN						

CHART B	- SWALE I	DIMENSIONS
SYMBOL	SWALE A	SWALE B
С	I' (300) MIN.	I' (300) MIN.
D	4′ (I200) MIN.	6′ (1800) MIN.

SEE SECTION A - A

- 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-EROSIVE 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".

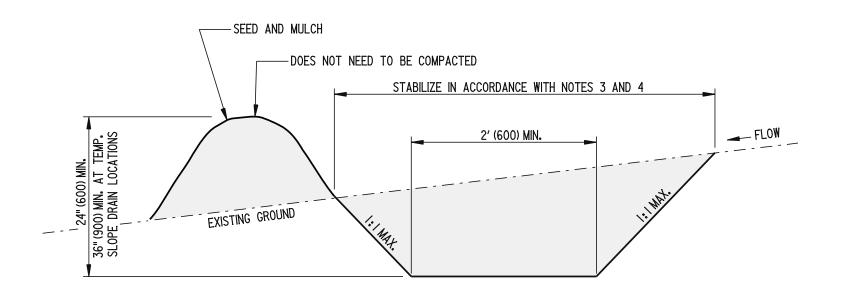
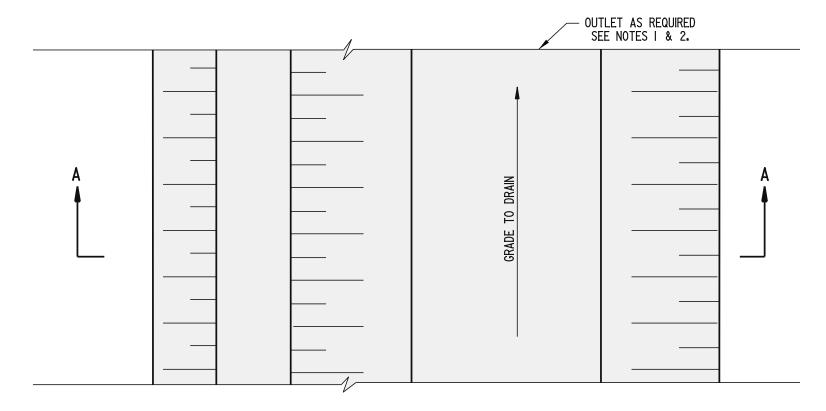


CHART	A - SWALE	STABILIZATION
SYMBOL	SWALE GRADE	TYPE OF TREATMENT
A-I	0.5-2.0%	SEED AND EROSION CONTROL BLANKET
A-2	2.1-8.0%	LINED R-4 RIPRAP
A-3	8.1-20%	ENGINEERED DESIGN

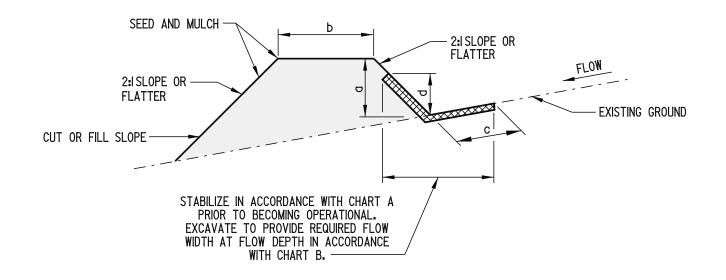
MAXIMUM DRAINAGE AREA: 2 ACRES (0.8 ha)



- 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 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".

PLAN

DELAWARE		PERIMETER D	OIKE / SWALE			APPROVED Carolan Wich	12/5/05 DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-12 (2005)	SHT. 1	OF	1	RECOMMENDED RESIGN ENGINEER	11/29/05 DATE



CHAI	CHART A - FLOW CHANNEL STABILIZATION								
TYPE	CHANNEL GRADE	TYPE OF TREATMENT							
1	0.5-2.0%	SEED AND EROSION CONTROL BLANKET							
2	2.1-8.0%	R-4 RIPRAP							
3	8.1-20%	ENGINEERED DESIGN							

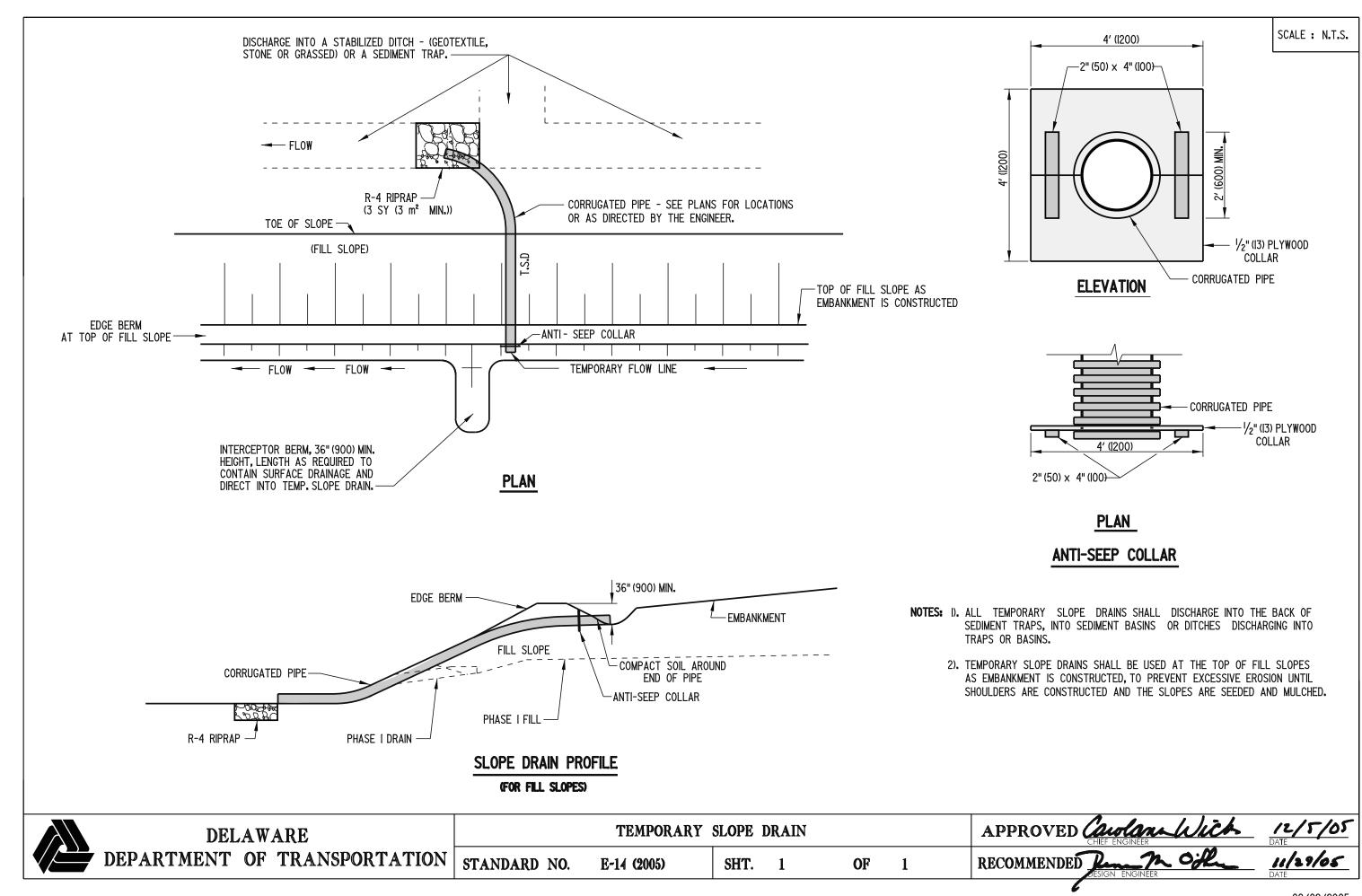
CHART B -	EARTH DIKE	DIMENSIONS
SYMBOL	DIKE A	DIKE B
3 I MIDOL	(5 ac (2 ha) or less)	(5-10ac(2-4 ha))
a-DIKE HEIGHT	12" (300)	18" (450)
b-DIKE WIDTH	12" (300)	24" (600)
c-FLOW WIDTH	48" (1200)	72" (1800)
d-FLOW DEPTH	14" (350)	27" (680)

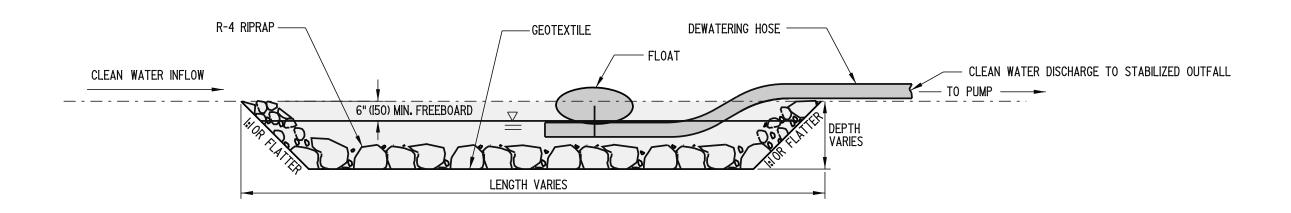
GRADE TO DRAIN TO SEDIMENT TRAPPING DEVICE CUT OR FILL SLOPE **PLAN**

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.

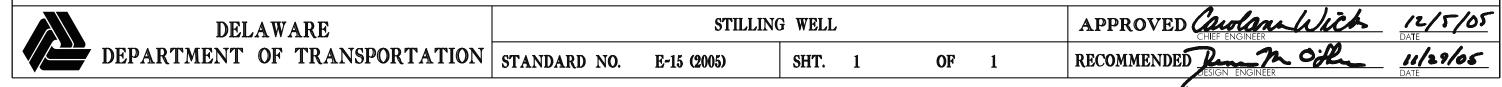
11/29/05

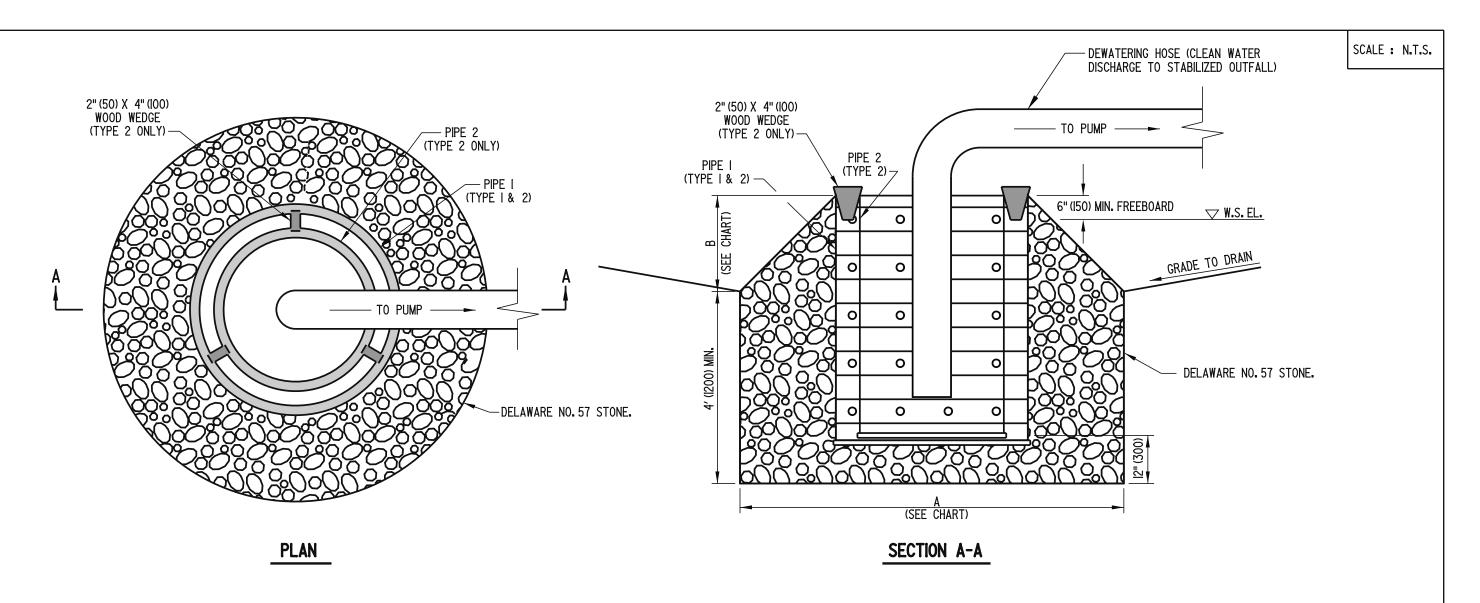




NOTES: 1). THE WORK SHALL CONSIST OF CONSTRUCTING A STILLING WELL FOR THE PURPOSE OF PUMPING CLEAN WATER AROUND A DISTURBED CONSTRUCTION AREA TO A STABILIZED OUTFALL.

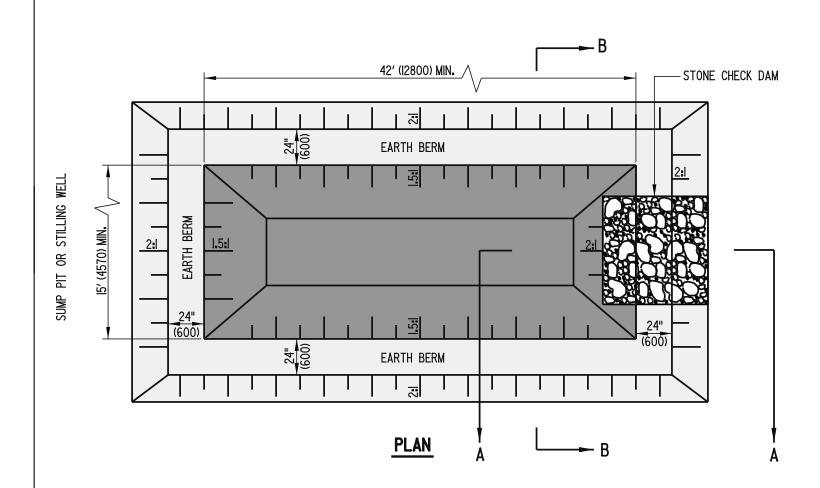
2). THE DIMENSIONS OF THE STILLING WELL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

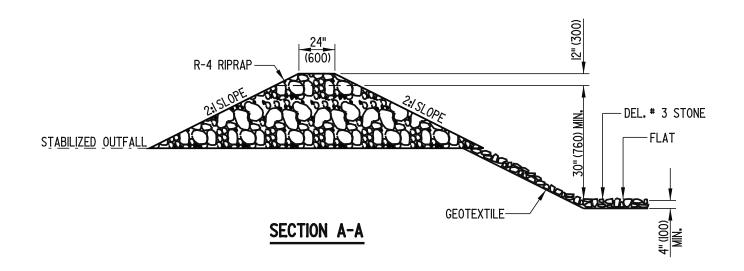


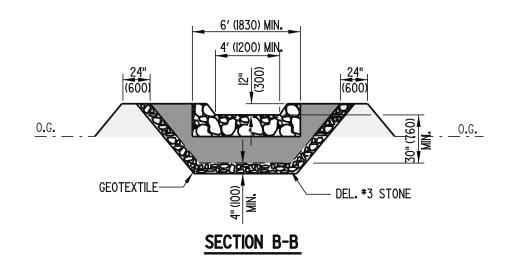


	SUMP PIT CHART										
TYPE	PIPE I	PIPE 2	A	В							
I	PERFORATED 24"(600) CMP WITH PERFORATED CAP WELDED ON BOTTOM AND COMPLETELY WRAPPED WITH GEOTEXTILE.	N/A	4′ (I200) MIN.	12" (300)							
2	PERFORATED 48"(1200) CMP WITH PERFORATED CAP WELDED ON BOTTOM	REMOVABLE PERFORATED 36"(900) CMP WITH PERFORATED CAP WELDED ON BOTTOM AND COMPLETELY WRAPPED WITH GEOTEXTILE.	8′ (2400) MIN.	24" (600)							

- 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). $\frac{1}{2}$ " \times $\frac{1}{2}$ " (13 \times 13) 19 GAGE (1.1) 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 I"(25) IN DIAMETER AND 12"(300) ON CENTER IN ALL DIRECTIONS.
 - 5). TYPE I SUMP PIT SHALL BE USED ONLY WHEN PUMPING IS NEEDED FOR LESS THAN 7 DAYS.





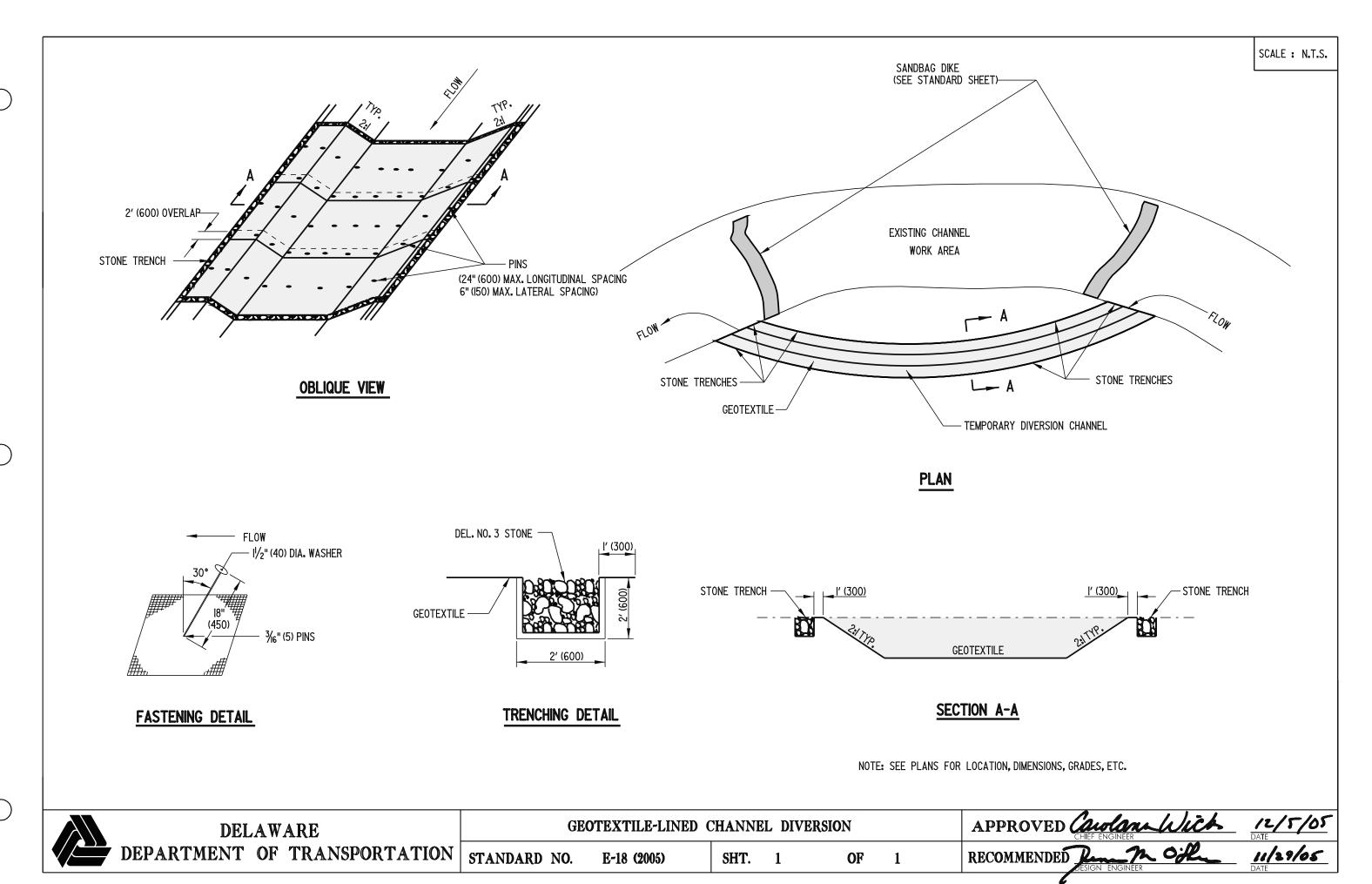


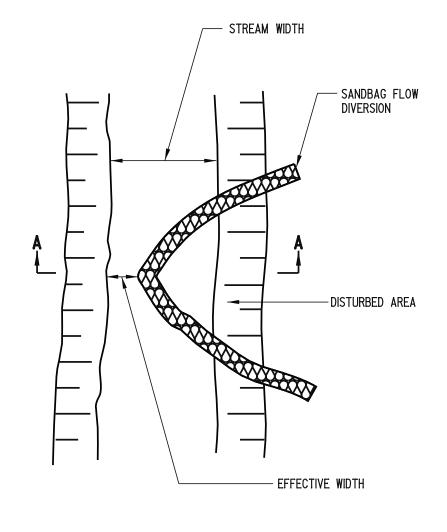
NOTES: I.) A DEWATERING BASIN (DWB) IS USED TO REMOVE SEDIMENT FROM SEDIMENT-LADEN WATER PUMPED FROM A CONSTRUCTION SITE BEFORE THE WATER RE-ENTERS THE WATERWAY. THE DWB SHALL HAVE A MINIMUM TOP WIDTH OF 15' (4570) AND A MINIMUM DEPTH OF 3.5' (1065). THE MINIMUM TOP LENGTH SHOWN IN THE PLAN IS USED ONLY FOR QUANTITY CALCULATIONS BY THE ENGINEER. THE ACTUAL TOP LENGTH IN THE FIELD SHALL BE CALCULATED BY THE EQUATION:

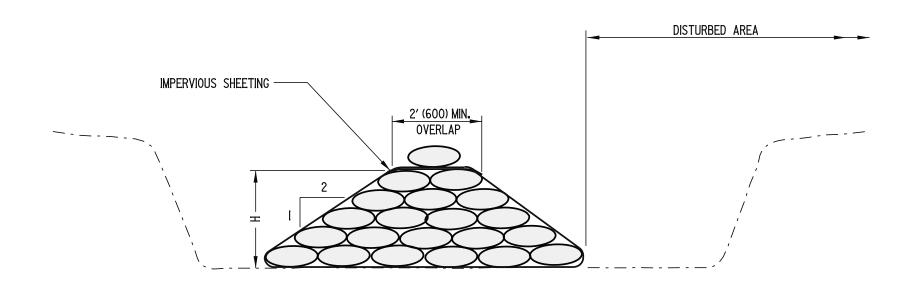
US CUSTOMARY: TOP LENGTH (FEET) = 26' + .01 x Y METRIC: TOP LENGTH (mm) = 7930 + 48300 x Y

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 SHALL CEASE 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 DISPOSED OF IN AN APPROVED DISPOSAL AREA WHEN THE BASIN IS FILLED TO WITHIN 12" (300) 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.



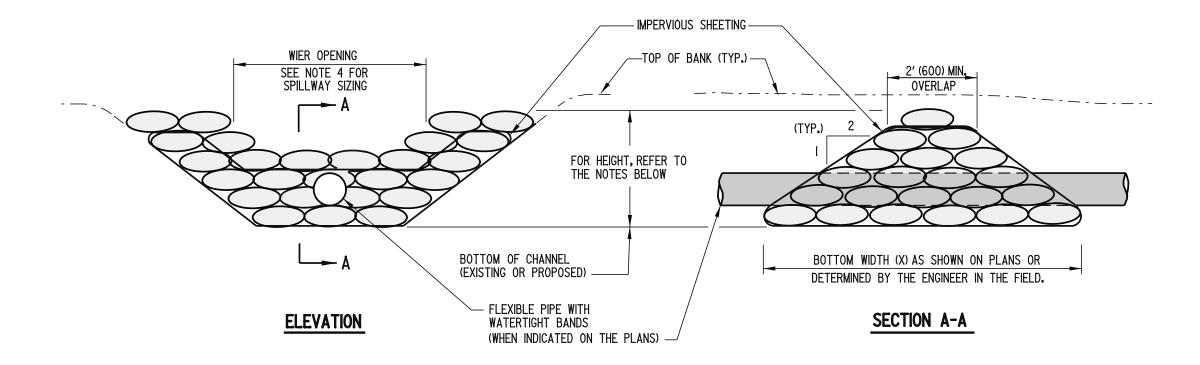




PLAN

- 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 I/3 OF STREAM WIDTH, WHICHEVER IS GREATER.
 - 4). THE SANDBAG DIVERSION HEIGHT (H) SHALL BE I' (300) ABOVE THE PEAK ELEVATION OF THE ONE YEAR STORM.

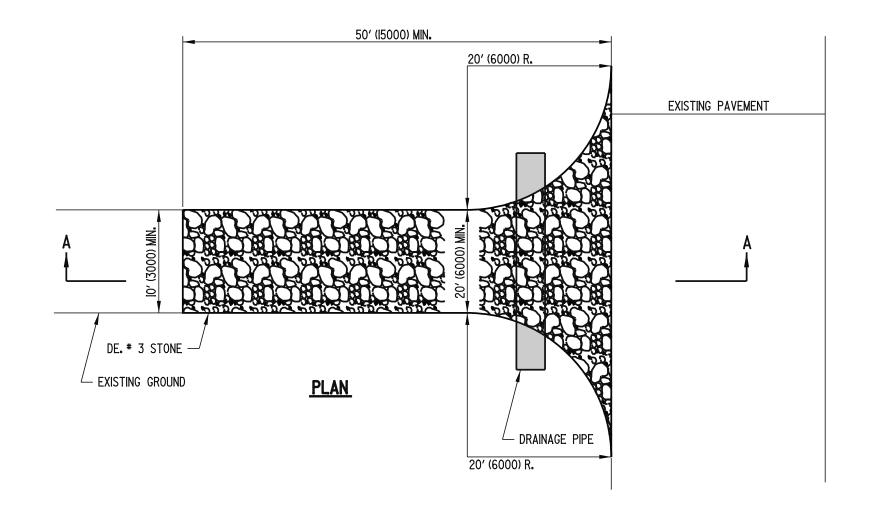
	DELAWARE	SANDBAG DIVERSION						APPROVED	Carolan Wich	/2/5/05 DATE
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-19 (2005)	SHT.	1	OF	1	RECOMMENDE	PESIGN ENGINEER	11/29/05 DATE

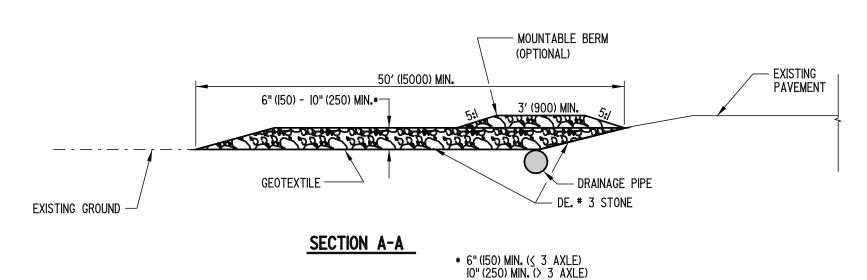


- NOTES: I). THE WORK SHALL CONSIST OF INSTALLING A SANDBAG DIKE FOR THE PURPOSE OF EROSION CONTROL WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.
 - 2). THE SANDBAG DIKE SHALL BE INSTALLED AT THE UPSTREAM LOCATION FIRST.
 - 3). THE HEIGHT OF THE SANDBAG DIKE SHALL BE I' (300) ABOVE THE PEAK ELEVATION OF THE ONE YEAR STORM, OR EQUAL WITH THE TOP OF BANK, WHICHEVER IS LESS. SEE PLANS FOR INFORMATION.
 - 4). THE SPILLWAY SHALL BE SIZED TO PASS A (1) ONE YEAR STORM EVENT PEAK FLOW, SEE PLANS.
 - 5). THE PIPE, WHEN UTILIZED, SHALL BE SIZED TO PASS THE STREAM BASE FLOW.

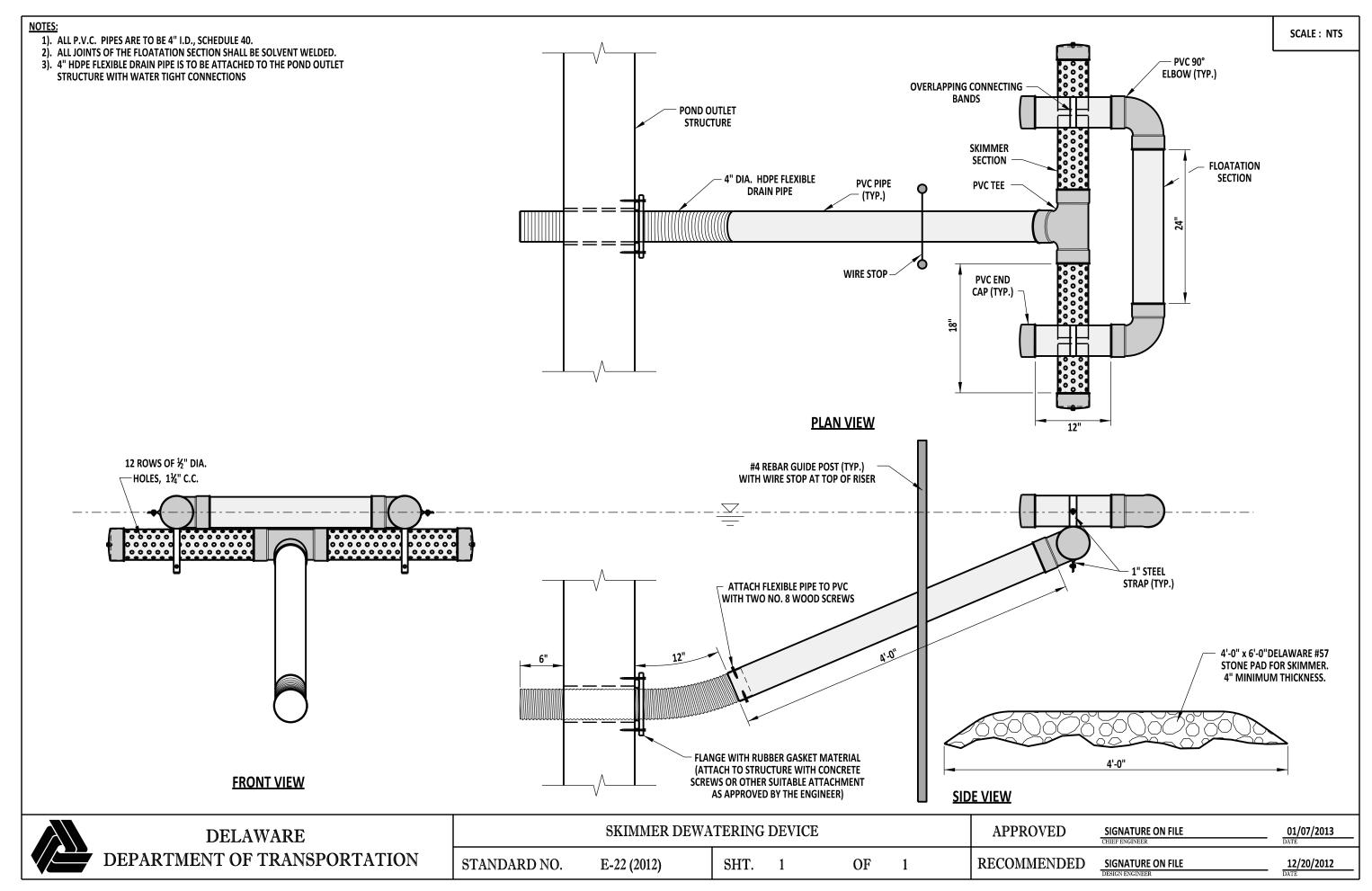
	DELAWARE	SANDBAG DIKE						APPROV	ED Carolan Wich	12/5/05 DATE
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-20 (2005)	SHT.	1	OF	1	RECOMMEN	DED RESIGN ENGINEER	11/29/05 DATE

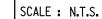






- NOTES: 1). ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED UNDER THE ENTRANCE. IF NECESSARY, A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE ALLOWED TO FACILITATE PLACEMENT OF PIPES IN SHALLOW CONDITIONS.
 - 2). THE LOCATION AND NUMBER OF STABILIZED CONSTRUCTION ENTRANCES SHALL BE AS INDICATED ON THE PLANS. ANY CHANGE IN LOCATION, ADDITION, OR DELETION 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"(50) OF STONE SHALL BE REMOVED AND REPLACED WITH 2"(50) OF CLEAN STONE WHEN VOIDS ARE FILLED OR AS DIRECTED BY THE ENGINEER.



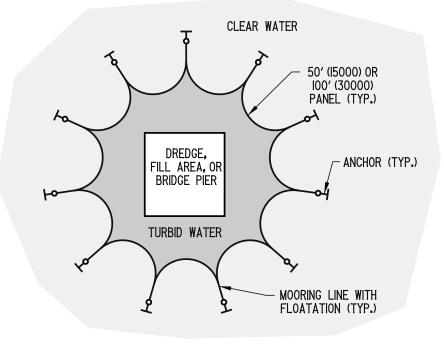


TOP LOAD LINE

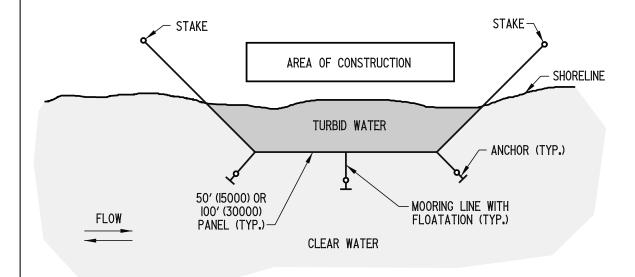
- FLOATATION UNIT

BOTTOM LOAD LINE

BOTTOM LOAD LINE



PLAN VIEW OPEN WATER APPLICATION



PLAN VIEW

SHORELINE APPLICATION

FLOATING TURBIDITY CURTAIN

OF

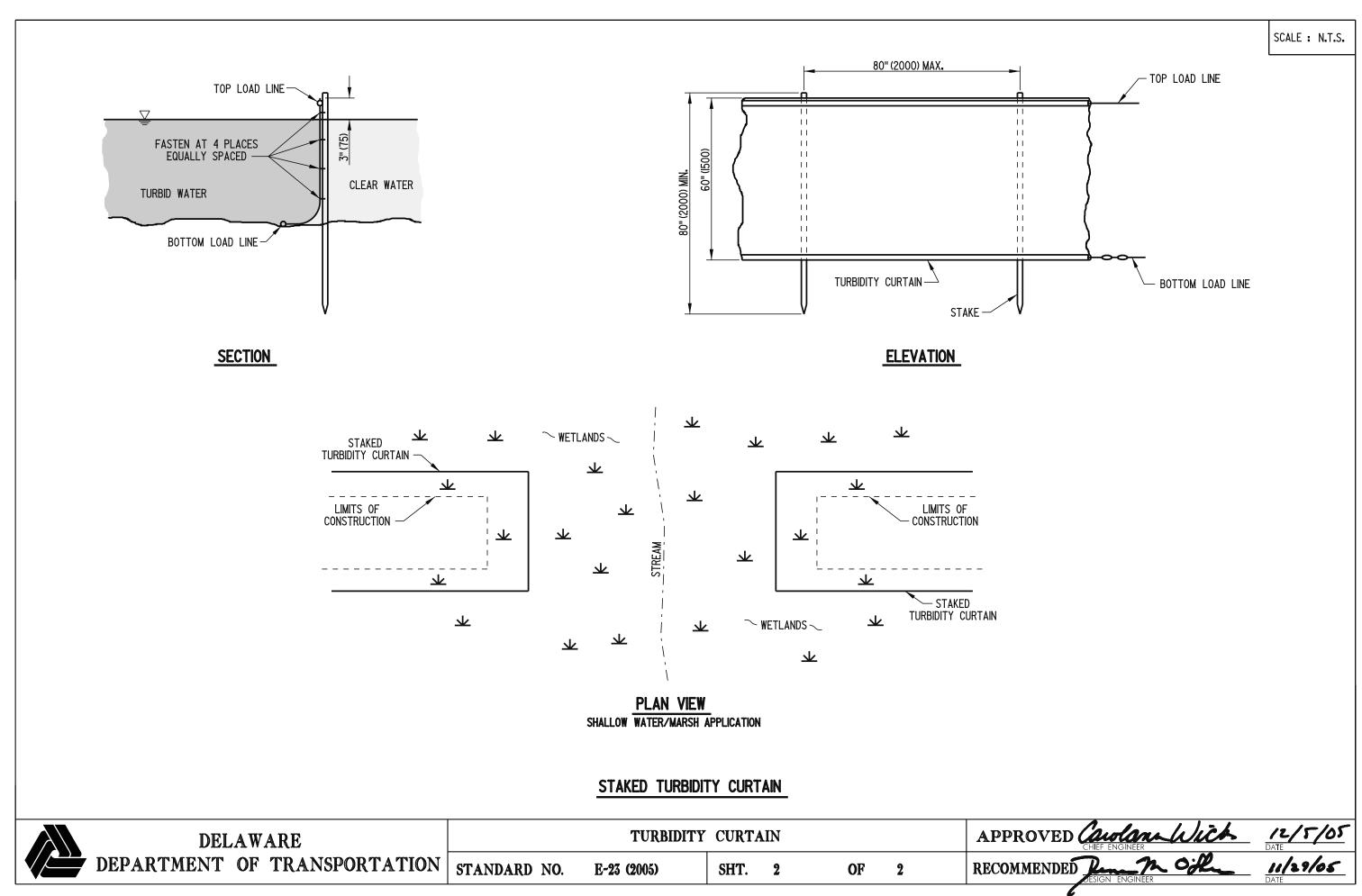
ELEVATION

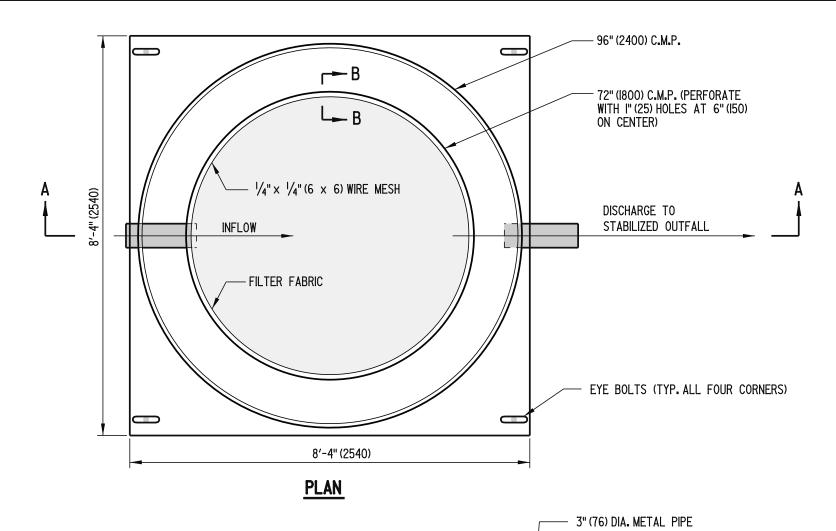
NOTE: I.) ADDITIONAL PANEL REQUIRED FOR DEPTHS GREATER THAN 5' (1500). 2.) FLOATING TURBIDITY CURTAIN SHALL REACH BOTTOM UP TO DEPTHS OF IO' (3000) BY USING TWO PANELS, DEPTHS GREATER THAN 10' (3000) SHALL REQUIRE SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

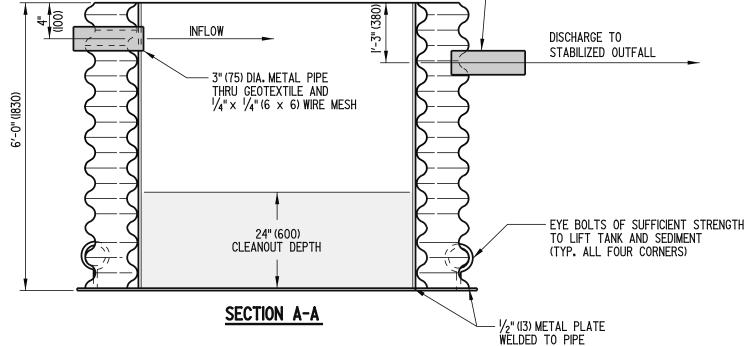
DEL	AW	ARE	
DEPARTMENT	OF	TRANSPORTATION	

		TURBIDITY	CURTA	AIN
STANDARD	NO.	E-23 (2005)	SHT.	1

ROPE LACING

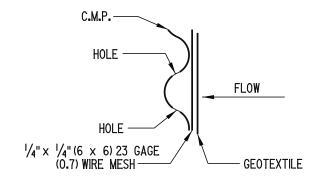






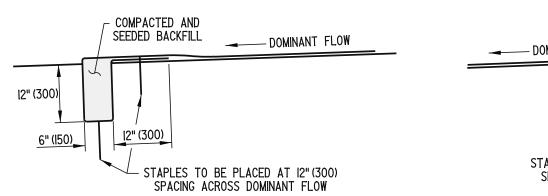
NOTES: I). THE PORTABLE SEDIMENT TANK SHOWN MAY BE USED IN SITES WHERE SPACE IS LIMITED TO CONSTRUCT A DEWATERING BASIN.

- 2). THE MAXIMUM PUMP DISCHARGE INTO THIS TYPICAL PORTABLE SEDIMENT TANK SHALL BE 425 GALLONS PER MINUTE (26 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.



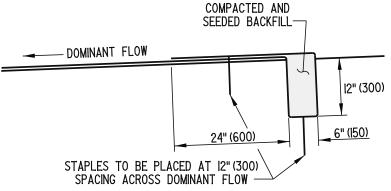
SECTION B-B





INITIAL TRENCH ANCHOR DETAIL

APPLIED AT THE DOWNSTREAM END OF DITCH

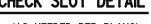


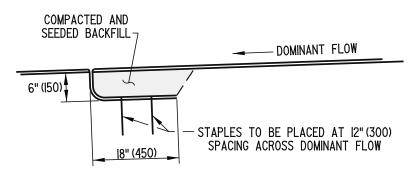
TERMINAL TRENCH ANCHOR DETAIL

APPLIED AT THE UPSTREAM END OF DITCH

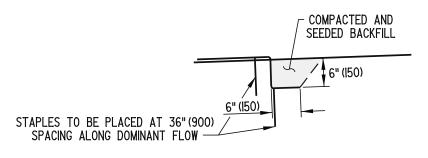
COMPACTED AND SEEDED BACKFILL — DOMINANT FLOW 6" (150) 6" (150)_ STAPLES TO BE PLACED AT 12" (300) SPACING ACROSS DOMINANT FLOW

(AS NEEDED PER PLANS)



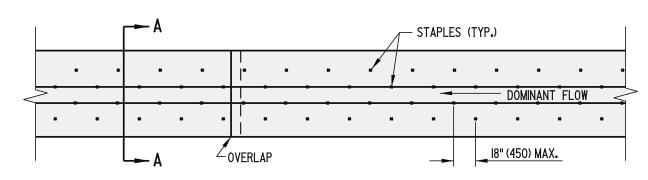


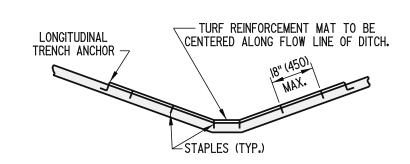
CHECK SLOT DETAIL

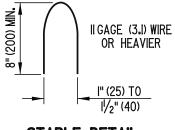


LONGITUDINAL TRENCH ANCHOR DETAIL

OVERLAP DETAIL







STAPLE DETAIL

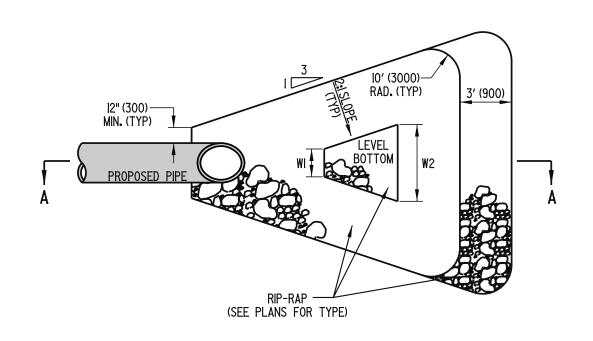
STABILIZATION OF DITCHES **PLAN**

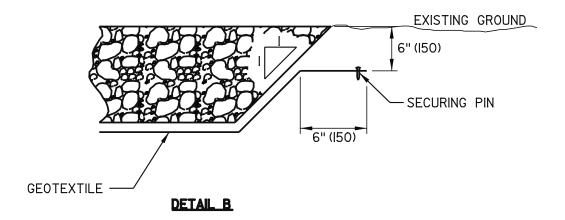
NOTES: I. ADDITIONAL STAPLES NOT SHOWN ARE REQUIRED AT OVERLAPS. ENDS, CHECK SLOTS AND EDGES. SEE APPROPRIATE DETAILS FOR STAPLE PLACEMENT.

- 2. STAPLES ARE TO BE STAGGERED.
- 3. TOPSOIL UNDER TURF REINFORCEMENT MAT IS TO BE TRACKED AND SEEDED.

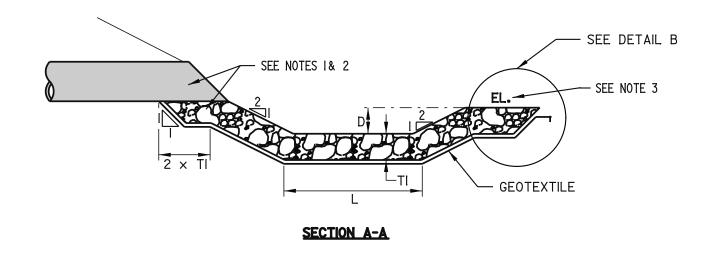
STABILIZATION OF DITCHES SECTION A-A

DELAWARE	TURF	REINFORCEMENT	Г МАТ	APPLICAT	IONS		APPROVED CAUSION VICTO DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-25 (2005)	SHT.	1	OF	1	RECOMMENDED RESIGN ENGINEER U/29/05





PLAN VIEW



NOTES:

- RIPRAP IS TO BE PLACED PRIOR TO PLACING PIPE.
 PLACE DELAWARE NO. 3 STONE UNDER PIPE.
 ELEVATION (EL.) SHOULD NOT BE HIGHER THAN PIPE INVERT.
 REFER TO THE PIPE ENERGY DISSIPATOR SCHEDULE ON THE CONSTRUCTION PLANS FOR THE VALUE OF DIMENSION VARIABLES.

DELAWARE	RIPRAP ENERGY DISSIPATOR DETAIL						APPROVED CHIEF ENGINEER DATE	10/06
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	E-26 (2006)	SHT.	1	OF	1	RECOMMENDED DEFIGN ENGINEER DATE	13/06