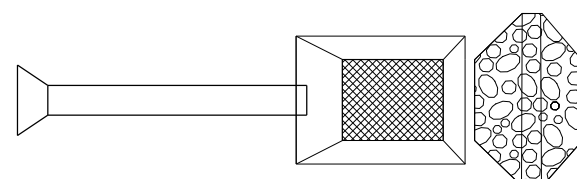
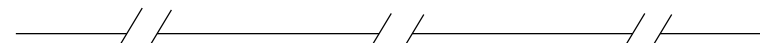
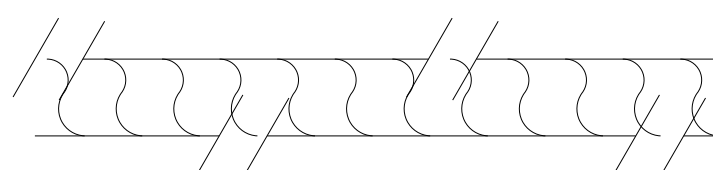
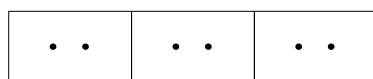
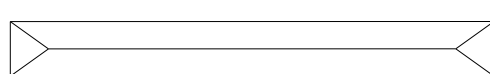
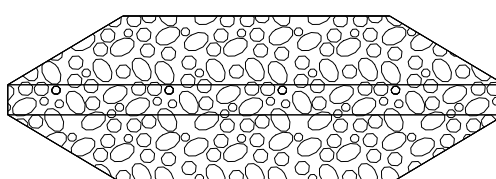
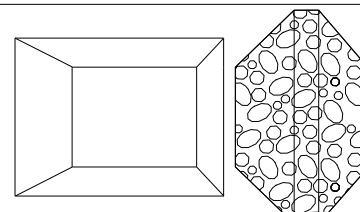


BEST MANAGEMENT PRACTICE (BMP)		SPECIAL DRAWING NUMBER	PLAN SYMBOL	MATERIALS REQUIREMENT REFERENCES	CONSTRUCTION REQUIREMENT REFERENCES	USAGE GUIDELINES
TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION		ESC-200-2		665.02, 801, 810, 814 ALDOT LIST II-3	665.03, 665.04, 665.05	A TEMPORARY SLOPE DRAIN WITH RIPRAP DITCH CHECK AND SUMP EXCAVATION IS CONSTRUCTED WITH A FLEXIBLE PIPE OR CONDUIT EXTENDING FROM THE TOP OF A CUT OR FILL SLOPE INTO AN EXCAVATED SEDIMENT TRAPPING SUMP WITH A ROCK DITCH CHECK DOWN SLOPE OF THE SUMP. THE PURPOSE OF THE TEMPORARY SLOPE DRAIN IS TO CONVEY STORMWATER RUNOFF DOWN THE FACE OF THE SLOPE WITHOUT CAUSING EROSION ON THE SLOPE.
TEMPORARY EARTH BERM		ESC-200-2		665.02	665.03, 665.04, 665.05	A TEMPORARY EARTH BERM CONSISTS OF A CHANNEL CONSTRUCTED ACROSS A SLOPE AND BACKED ON THE LOWER SIDE BY AN EARTHEN RIDGE. THE TEMPORARY EARTH BERM IS USED TO REDUCE SLOPE LENGTH AND DIVERT RUNOFF TO STABILIZED OUTLETS SUCH AS A TEMPORARY SLOPE DRAIN PIPE.
BRUSH BARRIER		ESC-200-3		665.02	665.03, 665.04, 665.05	BRUSH BARRIERS ARE TEMPORARY SEDIMENT TRAPPING STRUCTURES CONSTRUCTED AT THE PERIMETER OF DISTURBED AREAS THAT ARE MADE FROM RESIDUE OF LAND CLEARING AND GRUBBING. BRUSH BARRIERS CONTROL OFF SITE TRANSPORT OF SEDIMENTS UNTIL STABILIZATION OF DISTURBED AREAS CAN BE ACHIEVED.
SILT FENCE SEDIMENT BARRIER		ESC-200-3 ESC-200-4		665.02, AASHTO M288 ALDOT LIST II-3	665.03, 665.04, 665.05	A SILT FENCE SEDIMENT BARRIER CONSIST OF AN ENTRENCHED FILTER FABRIC STRETCHED ACROSS A WIRE BACKING THAT IS SUPPORTED BY POSTS. THE PURPOSE OF SILT FENCE SEDIMENT BARRIERS IS TO INTERCEPT AND TRAP SEDIMENT AS WELL AS DECREASE RUNOFF VELOCITIES OF SHEET FLOW AND MODERATE CHANNEL FLOWS.
SEDIMENT RETENTION BARRIER		ESC-200-5		665.02 ASHTO M288 ALDOT LIST-3	665.03 665.04 665.05	SEDIMENT RETENTION BARRIERS ARE USED AS A PERIMETER CONTROL MEASURE TO PROVIDE PROTECTION TO CLEAN WATER RUNNING THROUGH THE PROJECT OR OTHER CRITICAL AREAS.
DITCH CHECK STRUCTURES		ESC-300-1	SEE SYMBOLS BELOW FOR EACH CHECK STRUCTURE	665.02	665.03, 665.04, 665.05	DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS. SELECTION OF THE APPROPRIATE DITCH CHECK IS A FUNCTION OF DRAINAGE AREA, DITCH GRADIENT AND SOIL TYPE.
HAY BALE DITCH CHECK		ESC-300-2		665.02	665.03, 665.04, 665.05	HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
SAND BAG DITCH CHECK		ESC-300-3		665.02, 801	665.03, 665.04, 665.05	SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS. SAND BAGS MAY ALSO BE USED AS A SEDIMENT BARRIER ON HARD SURFACES.
WATTLE DITCH CHECK		ESC-300-4		665.02, ALDOT LIST II-24	665.03, 665.04, 665.05, MANUFACTURER LITERATURE	WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.
SILT DIKE DITCH CHECK		ESC-300-5		665.02, MANUFACTURER LITERATURE	665.03, 665.04, 665.05, MANUFACTURER LITERATURE	SILT DIKE DITCH CHECKS CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED.
ROCK DITCH CHECK		ESC-300-6		665.02, 801, 810, 814, PLAN NOTE ALDOT LIST II-3	665.03, 665.04, 665.05	ROCK DITCH CHECKS ARE USED PRIMARILY IN HIGH VELOCITY AND LARGE VOLUME DITCH FLOW CONDITIONS TO REDUCE EROSION AND TRAP MINIMAL VOLUMES OF SEDIMENT. AGGREGATE DITCH CHECKS CAN BE USED ONLY IN LOW VELOCITY FLOWS AND SERVE AS EFFECTIVE SEDIMENT TRAPS. SIZES OF ROCK WILL BE DESIGNATED ON THE PLANS.
ROCK DITCH CHECK WITH SUMP EXCAVATION		ESC-300-7		665.02, 801, 810, 814, PLAN NOTE ALDOT LIST II-3	665.03, 665.04, 665.05	ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES FOR ON-SITE SEDIMENT TRAPPING.

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REVISIONS:
1. Updated Chart on 8-23-2011 by J.F.T.
2. Revised and Updated Chart on 10-20-2014 by J.F.T.
3. Removed "SILT FENCE DITCH CHECK, ESC-300 (SHT 8 OF 8)" and inserted "SEDIMENT RETENTION BARRIER, ESC-200 (SHT 5 OF 5)" on 8-10-2016 by J.F.T.
4. Updated Special Drawing No. from ESC-100 (SHEET 1 OF 2) to ESC-100-1 and others using same pattern by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 7-7-2021

DESIGN BUREAU SPECIAL DRAWING

BEST MANAGEMENT PRACTICE
REFERENCE MATRIX

NOT TO SCALE

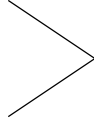
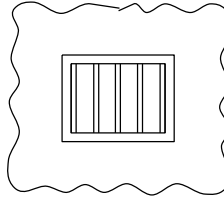
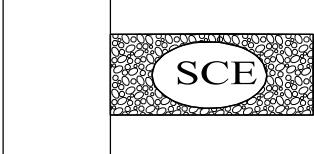
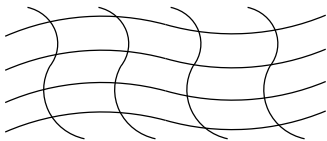
--SPECIFICATIONS--
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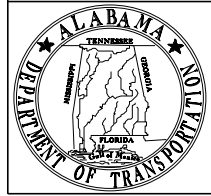
SPECIAL DRAWING NO

ESC-100-1

INDEX NO

66501

BEST MANAGEMENT PRACTICE (BMP)		SPECIAL DRAWING NUMBER	PLAN SYMBOL	MATERIALS REQUIREMENT REFERENCES	CONSTRUCTION REQUIREMENT REFERENCES	USAGE GUIDELINES		
SILT FENCE DITCH CHECK		ESC-300-8		665.02, AASHTO M288 ALDOT LIST II-3	665.03, 665.04, 665.05	SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.		
INLET PROTECTION		ESC-400-1		665.02	665.03, 665.04, 665.05	CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.		
AGGREGATE INLET PROTECTION		ESC-400-2	*	665.02, 801	665.03, 665.04, 665.05	THE ELEVATION OF THE TOP OF THE REQUIRED STONE BERM SHALL BE A MINIMUM OF 1.5 FEET ABOVE THE ELEVATION OF THE INLET WORKING POINT AND A MINIMUM OF 6 INCHES BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.		
WATTLE INLET PROTECTION		ESC-400-3	*	665.02, ALDOT LIST II-24	665.03, 665.04, 665.05,	WATTLE INLET PROTECTION PROVIDES SEDIMENT TRAPPING BY PONDING STORMWATER TO A DEPTH EQUAL TO OR LESS THAN THE WATTLE DIAMETER.		
SAND BAG INLET PROTECTION		ESC-400-4	*	665.02, 801	665.03, 665.04, 665.05	SAND BAG INLET PROTECTION PROVIDES SEDIMENT TRAPPING BY PONDING STORMWATER TO A DEPTH EQUAL TO OR LESS THAN THE STACKED HEIGHT.		
FLOATING BASIN BOOM		ESC-501		665.02, MANUFACTURER LITERATURE	665.03, 665.04, 665.05, MANUFACTURER LITERATURE	A FLOATING BASIN BOOM IS A FLOATING IMPERMEABLE TEXTILE BARRIER WHICH MINIMIZES SEDIMENT TRANSPORT WITHIN A WATERBODY AND MAY BE USED FOR UPLAND SEDIMENT CONTROL REDUNDANCY.		
STABILIZED CONSTRUCTION ENTRANCE		ESC-502		665.02, 801	665.03, 665.04, 665.05	STABILIZED CONSTRUCTION ENTRANCES ARE INSTALLED AT POINTS OF VEHICULAR INGRESS AND EGRESS. THE STABILIZED CONSTRUCTION ENTRANCES REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PAVED PUBLIC TRAVEL WAYS BY CONSTRUCTION EQUIPMENT AND OTHER MOTOR VEHICLES.		
TEMPORARY DEWATERING STRUCTURE		ESC-503	**	107.13, CONTRACTOR DISCRETION	107.13, 524.03, MANUFACTURER LITERATURE	TEMPORARY DEWATERING STRUCTURES ARE USED TO CAPTURE SEDIMENT THAT MAY BE PRESENT IN DEWATERING DISCHARGES AND TO REDUCE DISCHARGE VELOCITY SUFFICIENTLY TO PROTECT DOWN SLOPE AREAS FROM EROSION. FILTER BAGS ARE USED WHEN DISCHARGING POTENTIALLY SEDIMENT LADEN WATER TO SENSITIVE WATER BODIES OR IN URBAN AREAS.		
TEMPORARY CULVERT STREAM CROSSING		ESC-504	**	107.13, CONTRACTOR DISCRETION	107.13, 107.21	A TEMPORARY STREAM CROSSING PROVIDES A MEANS FOR VEHICLES AND HEAVY EQUIPMENT TO SAFELY CROSS A WATERCOURSE WHILE MINIMIZING DAMAGE TO STREAMS AND WETLANDS. AN EXAMPLE IS PROVIDED WHICH MAY BE MODIFIED OR ADOPTED BY THE CONTRACTOR.		
TEMPORARY DIVERSIONS		ESC-505 ESC-506	**	107.13, CONTRACTOR DISCRETION	107.13, 107.21, 524.03	TEMPORARY DIVERSIONS ARE USED TO DIVERT STREAM FLOW AROUND CONSTRUCTION WORK UNTIL PERMANENT DRAINAGE STRUCTURES ARE COMPLETED.		
SEDIMENTATION BASIN		ESC-507	***	665.02, 659.02, 860.11 ALDOT LIST II-11 ALDOT LIST II-24	665.03, 665.04, 665.05, MANUFACTURER LITERATURE	SEDIMENTATION BASINS ARE USED TO REDUCE TURBIDITY OF CONSTRUCTION STORMWATER RUNOFF DURING GRADING.		
FLOCCULANT		ESC-508	****	665.02, 672.02 ALDOT LIST II-24	665.03, 672.03, MANUFACTURER LITERATURE	FLOCCULANT IS USED TO REDUCE TURBIDITY OF CONSTRUCTION STORMWATER RUNOFF DURING GRADING.		
EROSION CONTROL PRODUCTS		ESC-509		659.02, 860.11, ALDOT LIST II-11	659.03, 659.04, 659.05	EROSION CONTROL PRODUCTS ARE USED TO PROTECT SLOPES AND CHANNELS. EROSION CONTROL PRODUCTS ARE USED TO CREATE CONDITIONS THAT ASSIST THE ESTABLISHMENT OF VEGETATION. LOCATIONS SHOWN ON PLANS SHOULD BE BASED ON GRADIENT, SOIL, LONGEVITY AND HYDROLOGY. EROSION CONTROL PRODUCTS WILL GENERALLY BE REQUIRED ON 2H:1V OR STEEPER SLOPE LENGTHS MORE THAN 15 FEET.		
						NOTE: * 1. ONLY ONE INLET PROTECTION SYMBOL IS SHOWN ON THE PLANS. CONSTRUCTION PHASING AND SITE CONDITIONS WILL DICTATE WHICH TYPE OF INLET PROTECTION SHOULD BE INSTALLED. NOTE: * * 1. TEMPORARY DEWATERING STRUCTURE, TEMPORARY STREAM CROSSING, AND TEMPORARY DIVERSIONS USE AND LOCATION WILL BE AT CONTRACTOR DISCRETION UNLESS SPECIFICALLY MADE A PART OF THE CONTRACT. NOTE: * * * 1. SEDIMENTATION BASINS ARE DRAWN TO SCALE ON THE PLANS. NOTE: * * * * 1. FLOCCULANT TO BE APPLIED AT THE DIRECTION OF THE ENGINEER.		
						NOT TO SCALE		
						--SPECIFICATIONS--		
						CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		
						SPECIAL DRAWING NO		INDEX NO
						ESC-100-2		66502



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REVISIONS:
1. Updated Chart on 8-23-2011 by J.F.T.
2. Updated Chart line positioning on 9-24-2012 by J.F.T.
3. Updated, Revised Chart and added **** Note on 10-20-2014 by J.F.T.
4. Added Sediment Retention Barrier to matrix on 10-2-2015 by L.V.S.
5. Replaced "SEDIMENT RETENTION BARRIER, ESC-200 (SHT 5 OF 5)" and inserted

"SILT FENCE DITCH CHECK, ESC-300 (SHT 8 OF 8)" on 8-10-2016 by J.F.T.
6. Updated Special Drawing No. from ESC-100 (SHEET 2 OF 2) to ESC-100-2 and others usins same pattern J.F.T. & J.M.M.

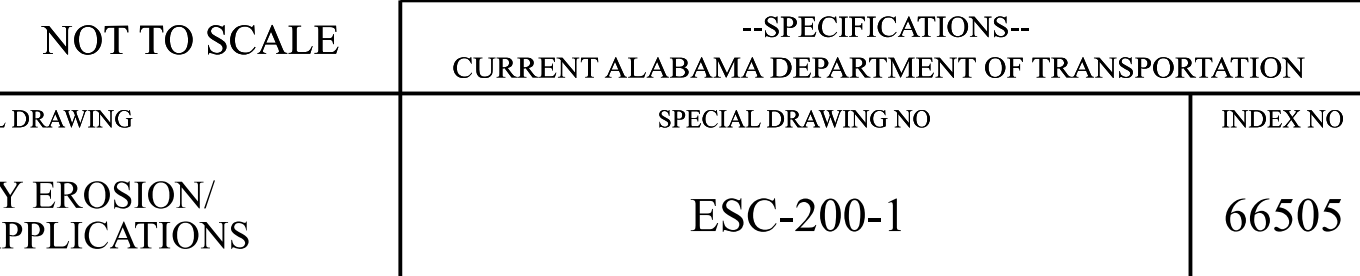
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 7-7-2021

DESIGN BUREAU SPECIAL DRAWING
BEST MANAGEMENT PRACTICE
REFERENCE MATRIX

SPECIAL DRAWING NO
ESC-100-2

INDEX NO
66502

1. "J HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED AS CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS ARE TO BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES. OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP, DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUNDED AREA. THEY CAN BE THEY CAN BE CONSTRUCTED USING A MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION, STREAM DIVERSIONS, OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE. SEE SPECIAL DRAWING No ESC-503 FOR INSTALLATION DETAILS.
6. ROLLED OR HYDRALIC EROSION CONTROL PRODUCTS MAY BE USED FOR EROSION CONTROL PROTECTION AND VEGETATION ESTABLISHMENT ON 2H:1V OR STEEPER SLOPES SOIL SLOPE LENGTH MORE THAN 15 FEET OR IN SENSITIVE AREAS WHEN DIRECTED. ROLLED EROSION CONTROL PRODUCTS MAY ALSO BE UTILIZED IN CHANNELS WHEN DIRECTED. SEE PLANS FOR SPECIFIC REQUIREMENTS AND SPECIAL DRAWING No ESC-509 FOR INSTALLATION DETAILS.
7. THE ABUTMENT SLOPE TOE BERM SHALL BE A MINIMUM OF 18 INCHES TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON SPECIAL DRAWING No ESC-300-6 OR WITH SOIL IN ACCORDANCE WITH SPECIAL DRAWING No ESC-200-2.
8. MATERIAL STOCKPILES THAT ARE TO REMAIN IN PLACE AFTER PROJECT COMPLETION SHALL BE PERMANENTLY SEEDED. FINAL SHAPING SHALL BE SUBSIDIARY TO UNCLASSIFIED EXCAVATION AND/OR TOPSOIL WORK.
9. FOR SLOPES 3:1 OR STEEPER WITH SLOPE LENGTHS GREATER THAN 50 FEET ALONG THE VERTICAL FACE OF THE SLOPE, 9-INCH DIAMETER WATTLE SLOPE INTERRUPTERS SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE AT THE MAXIMUM DISTANCE OF 25 FEET APART ALONG THE VERTICAL FACE OF THE SLOPE. SLOPE INTERRUPTERS SHALL ONLY BE INSTALLED IN CONJUNCTION WITH SEEDING AND MULCHING WITH NO GEOTEXTILE UNDERLAYMENT.



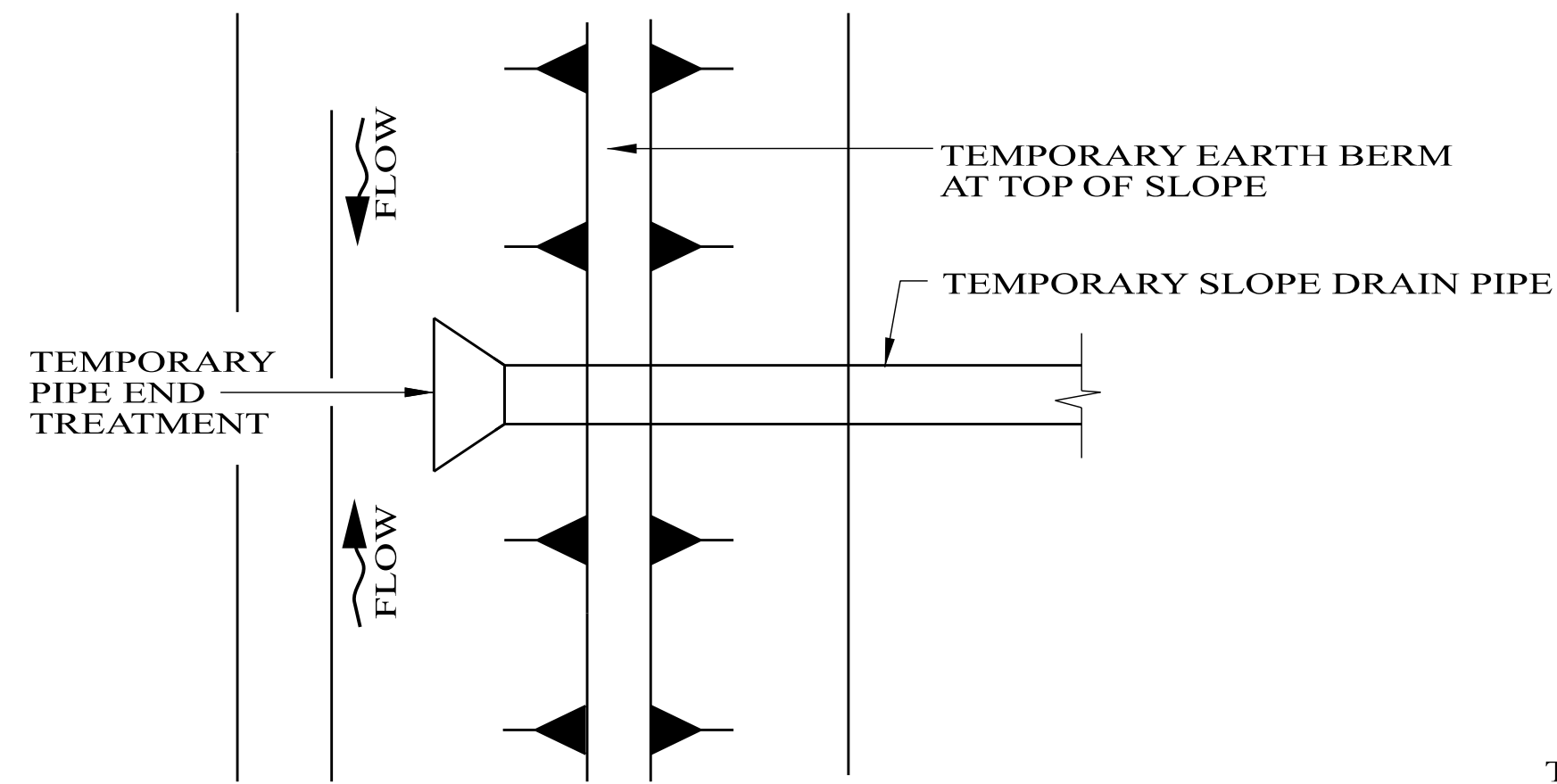
REVISIONS:

1. Revised Note 6 and Adjusted graphics of "TEMPORARY ROCK DITCH CHECK on 10-20-2014 by J.F.T.
2. Revised Note 7 from "SHEET 2 OF 4" to "SHEET 2 OF 5" on 8-10-2016 by J.F.T.
3. Updated Special Drawing No. from ESC-200 (SHEET 1 OF 5) to ESC-200-1 and others using same pattern on 10-31-2016 by J.F.T. & J.M.M.
4. Moved the stockpile details further from the stream on 7-13-2021 by D.J.W.
5. Added Note 9 and detail shower(s) 3-1. Add detail in bottom right area on 06-21-2022 by J.F.T.
6. Added Geotextile Fabric to Wulpher Ditch Check and Revised Note 9 on 10-24-2024 by J.F.T.

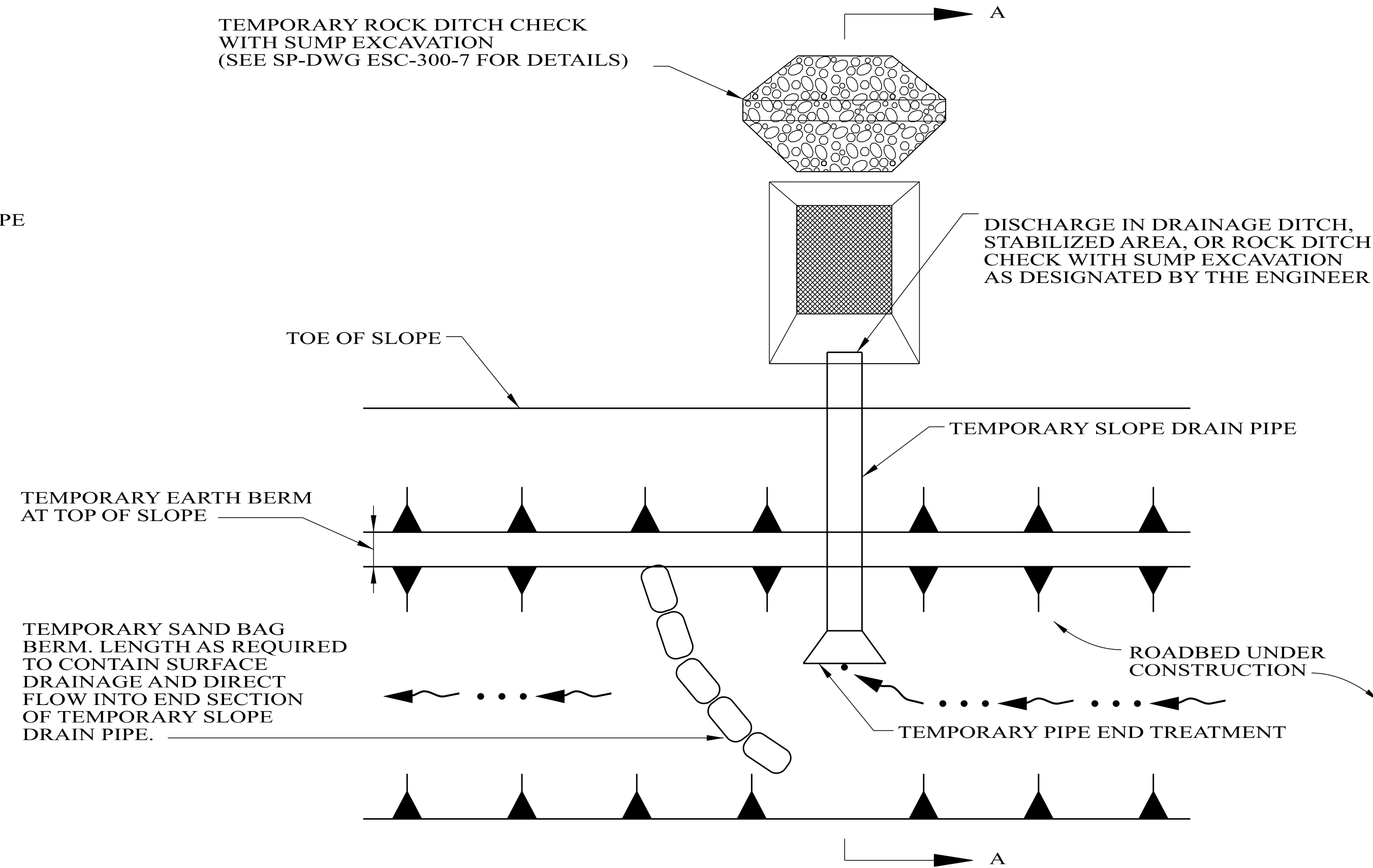
DESIGN BUREAU SPECIAL DRAWING

TYPICAL TEMPORARY EROSION/
SEDIMENT CONTROL APPLICATIONS

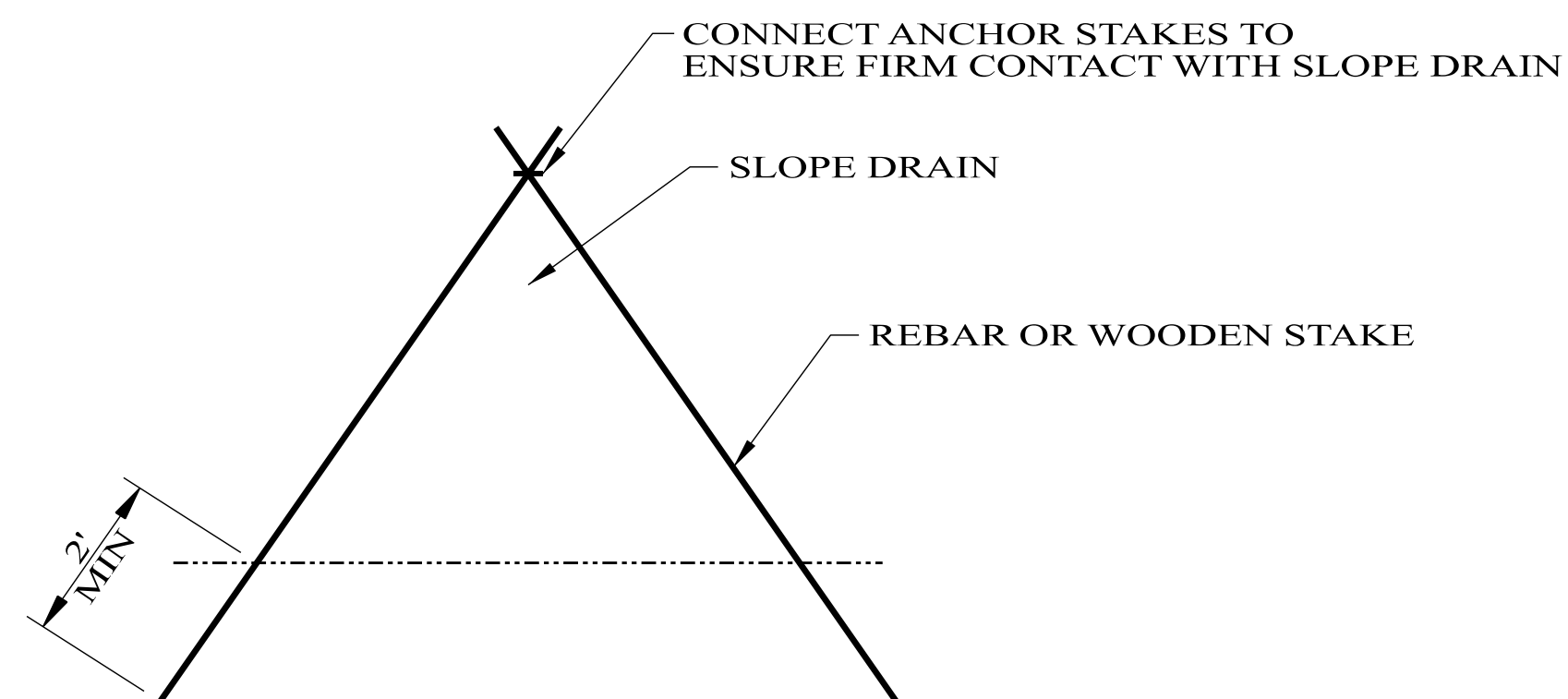
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO	INDEX NO
ESC-200-1	66505



PLAN AT LOW POINT

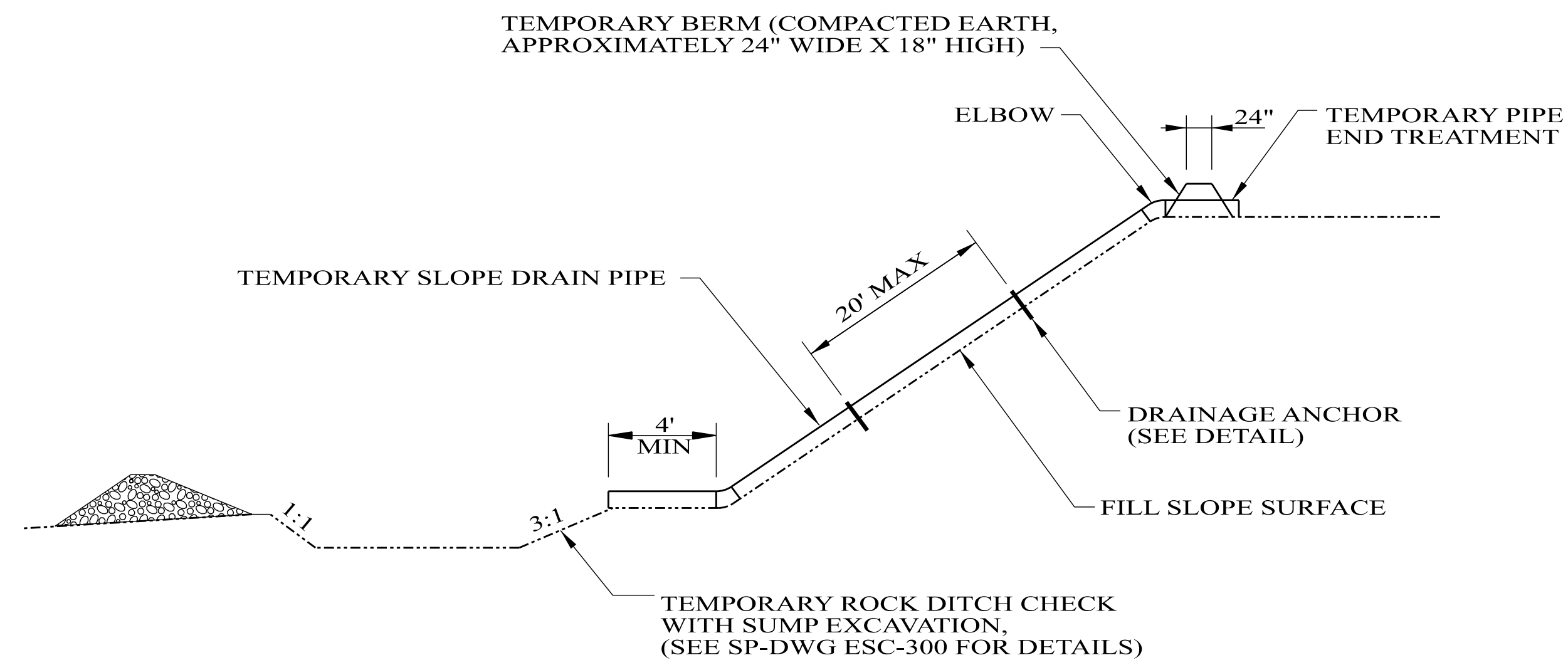


PLAN



RECOMMENDED ANCHOR DETAIL

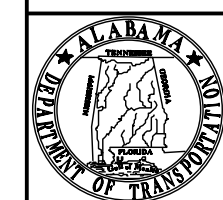
NOTE:
CONTRACTOR MAY PROPOSE ALTERNATE ANCHORING DETAIL.
ENGINEERS APPROVAL WILL BE BASED ON PERFORMANCE.



SECTION A-A

NOTES:

1. TEMPORARY SLOPE DRAINS (BERMS, DRAINS AND ROCK, IF NECESSARY) SHALL BE USED AS THE EMBANKMENT IS CONSTRUCTED. MAXIMUM SPACING OF THE DRAIN ASSEMBLY SHALL BE 300 FEET, OR AS DESIGNATED BY THE ENGINEER. THE DRAIN ASSEMBLIES SHALL BE USED UNTIL THE SLOPES ARE PROTECTED WITH PERMANENT SOIL EROSION CONTROL MEASURES.
2. TEMPORARY BERMS SHALL ALSO BE CONSTRUCTED AT THE TOP OF ALL ERODIBLE CUT SLOPES DESIGNATED OR PERMITTED BY THE ENGINEER. THE GRADIENT OF THE BERMS SHALL BE THE MINIMUM POSSIBLE THAT CONDITIONS PERMIT.
3. IN SOME CASES IT MAY BE NECESSARY TO EMBED METAL OR PLASTIC PIPE INTO THE FILL SLOPE TO ENSURE PROPER ANCHORAGE.
4. THE CONTRACTOR SHALL SELECT THE SIZE OF SLOPE DRAIN PIPE.



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REVISIONS:

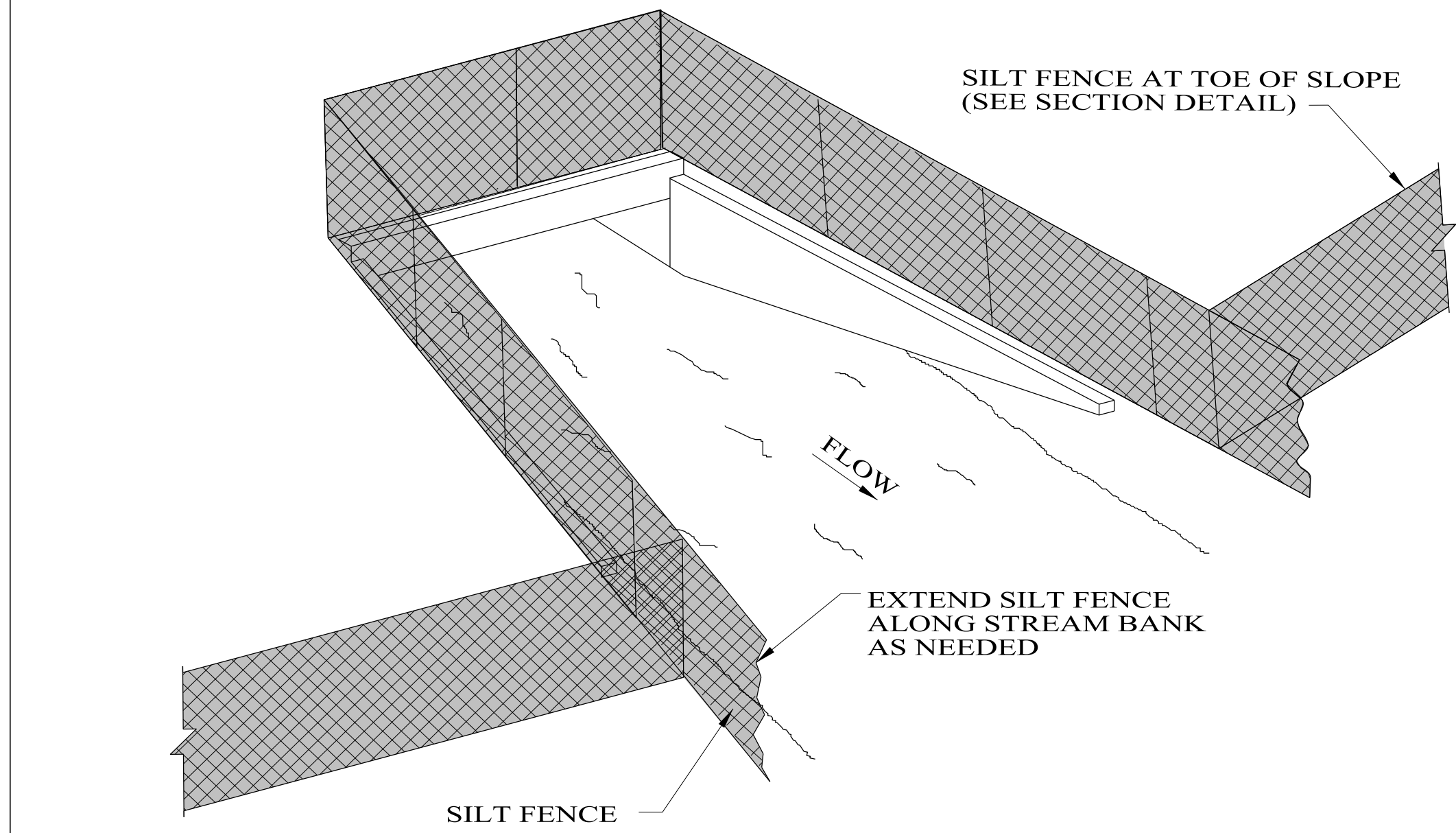
1. Adjusted and revised PLAN to PLAN AT LOW POINT, deleted "OR "T" SECTION" and deleted "T SECTION DETAIL" on 8-24-2011 by J.F.T.
2. Replaced all "FLARE END SECTION" text with "TEMPORARY PIPE END SECTION" on 9-24-2012 by J.F.T.
3. Updated Special Drawing No. from ESC-200 (SHEET 2 OF 5) to ESC-200-2 on 10-31-2016 by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

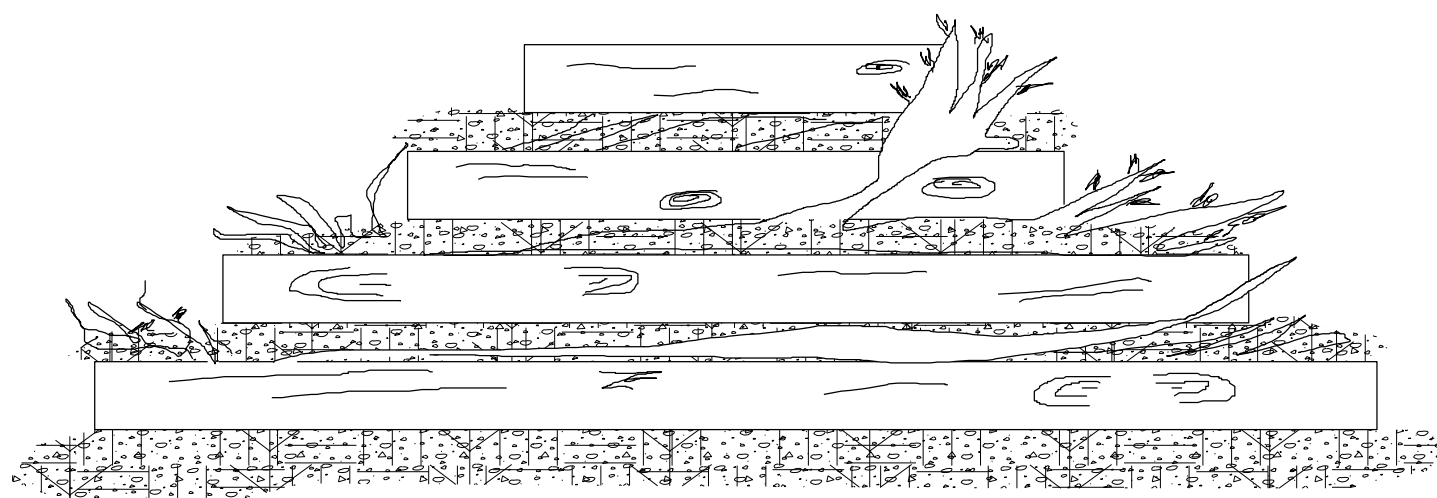
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**DETAILS OF TEMPORARY SLOPE DRAIN,
BERMS, AND ENERGY DISSIPATOR**

NOT TO SCALE

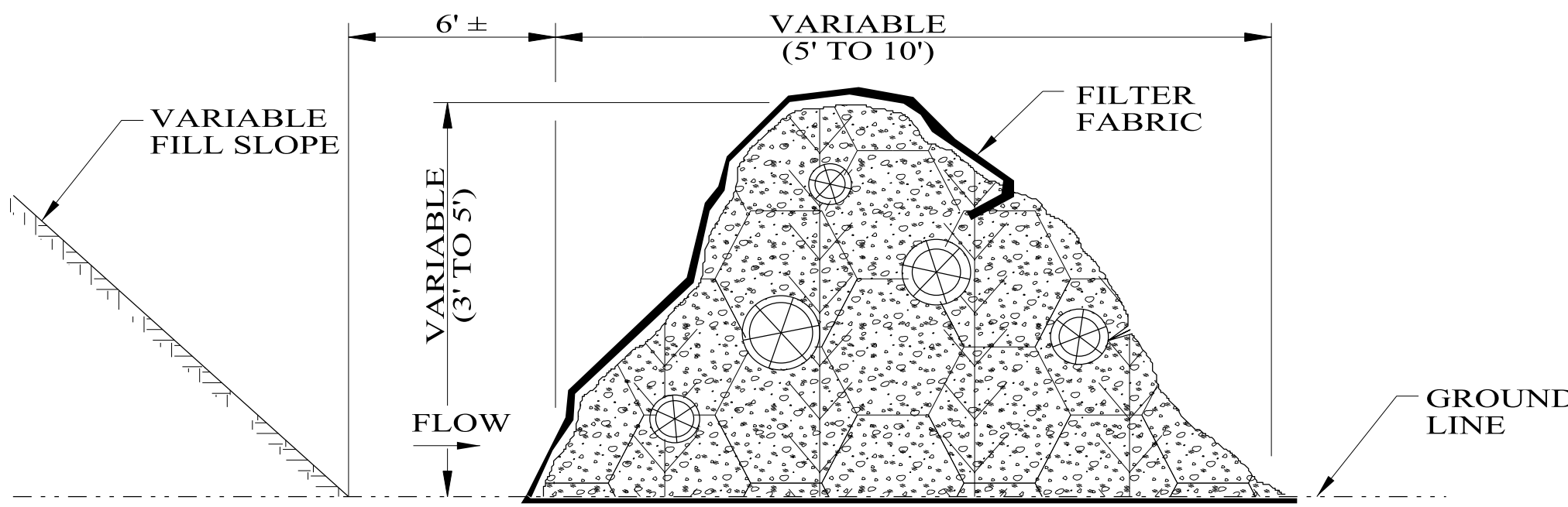
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SPECIAL DRAWING NO	INDEX NO	
ESC-200-2	66506	



SEDIMENT BARRIER AT CROSS DRAIN



REAR ELEVATION



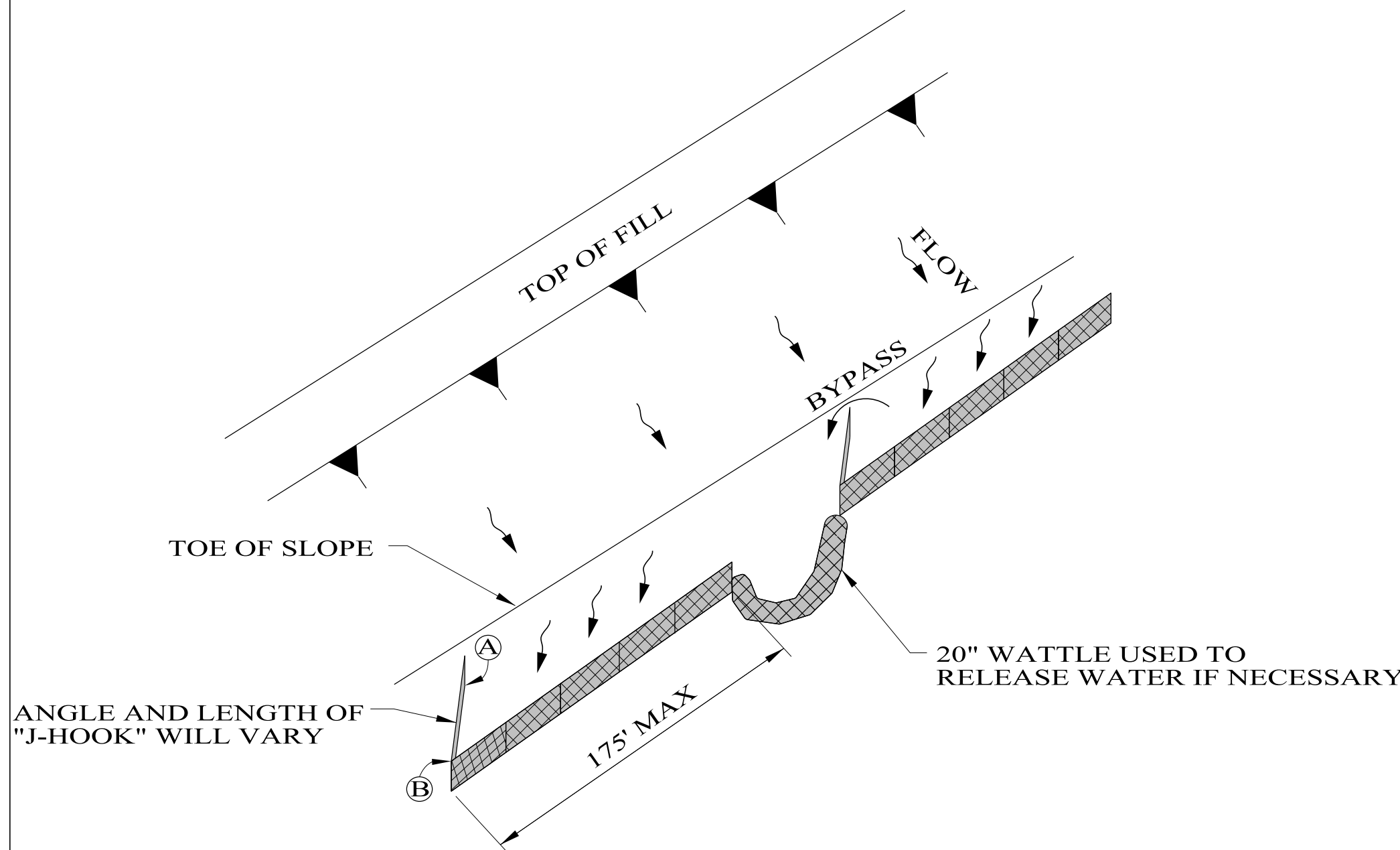
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

NOTES:

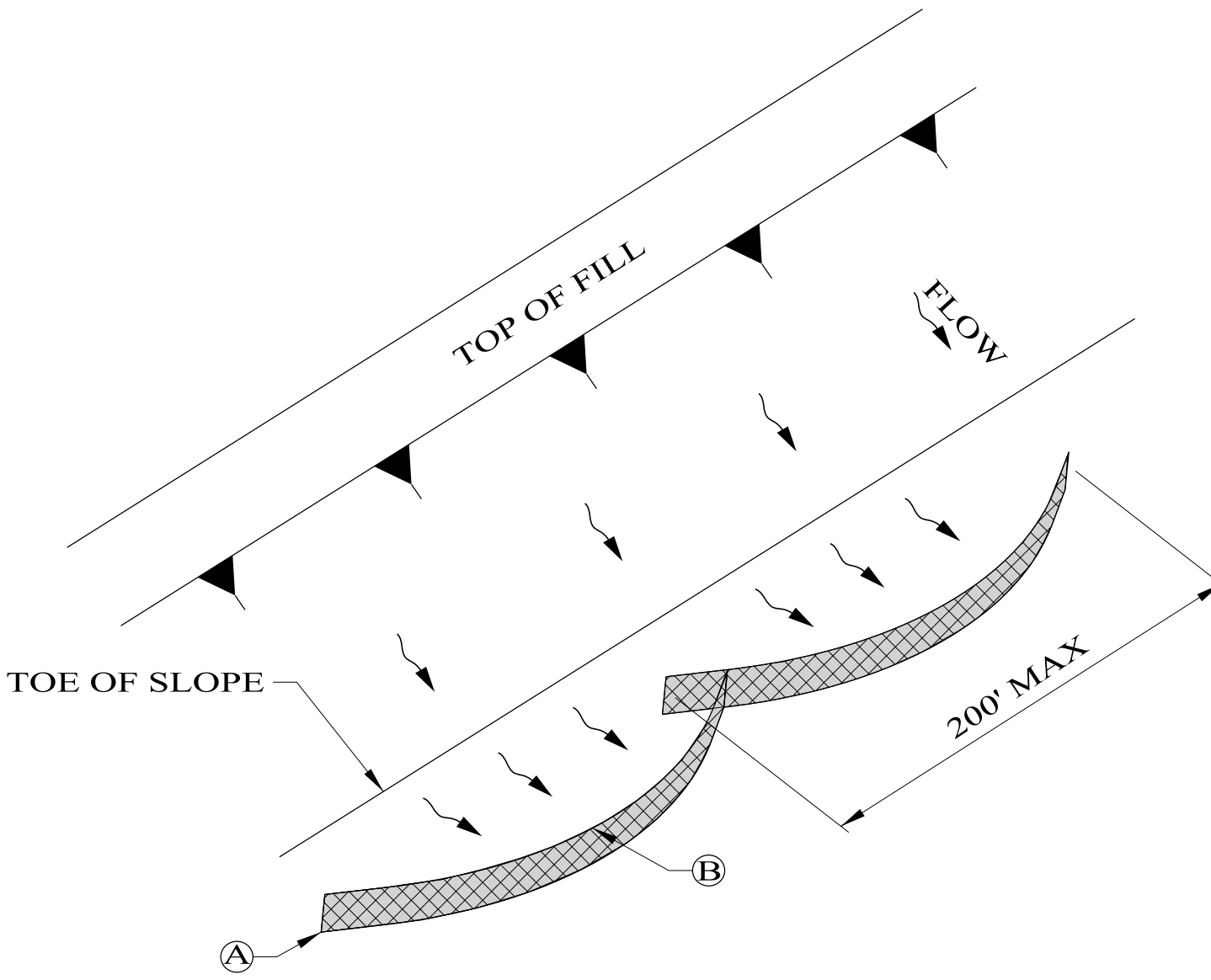
- BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
- PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
- TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
- THE BRUSH BARRIER SHALL BE CHOKED WITH FILTER FABRIC.

NOTE:
ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON SPECIAL DRAWING No. ESC-200-4.



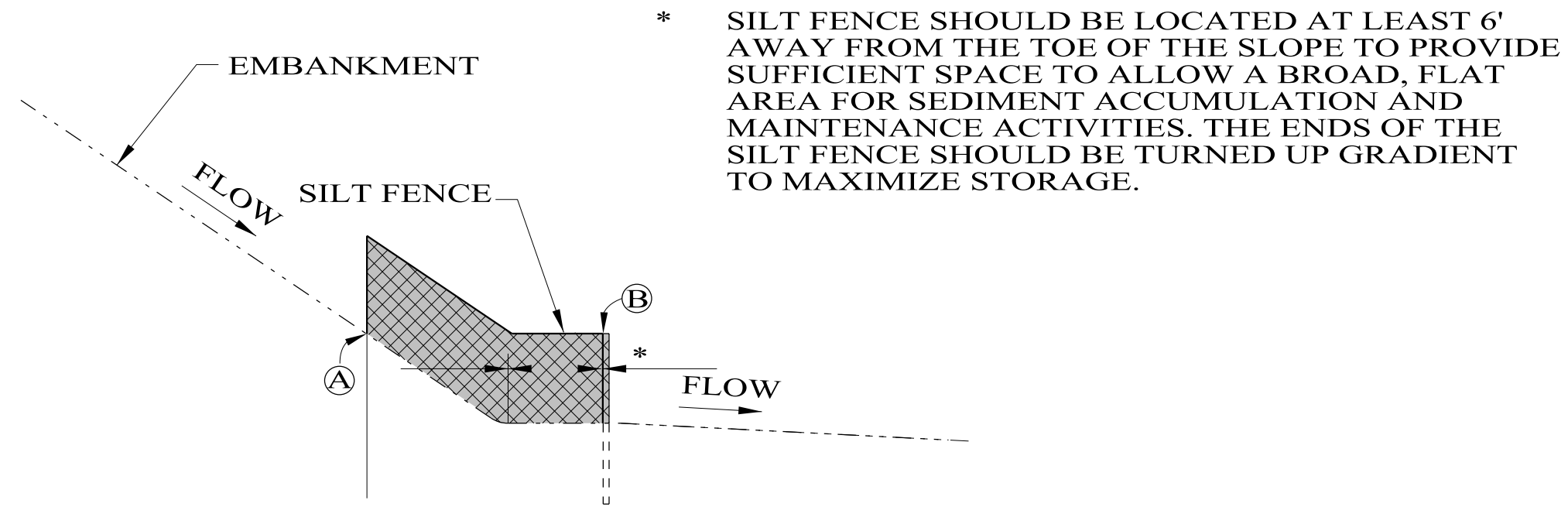
"J-HOOK" SILT FENCE APPLICATION

NOTE:
THE ELEVATION AT THE BOTTOM OF THE DISTANT END OF THE J-HOOK (A) SHOULD BE THE SAME AS THE LOWEST POINT ALONG THE TOP OF SILT FENCE (B).

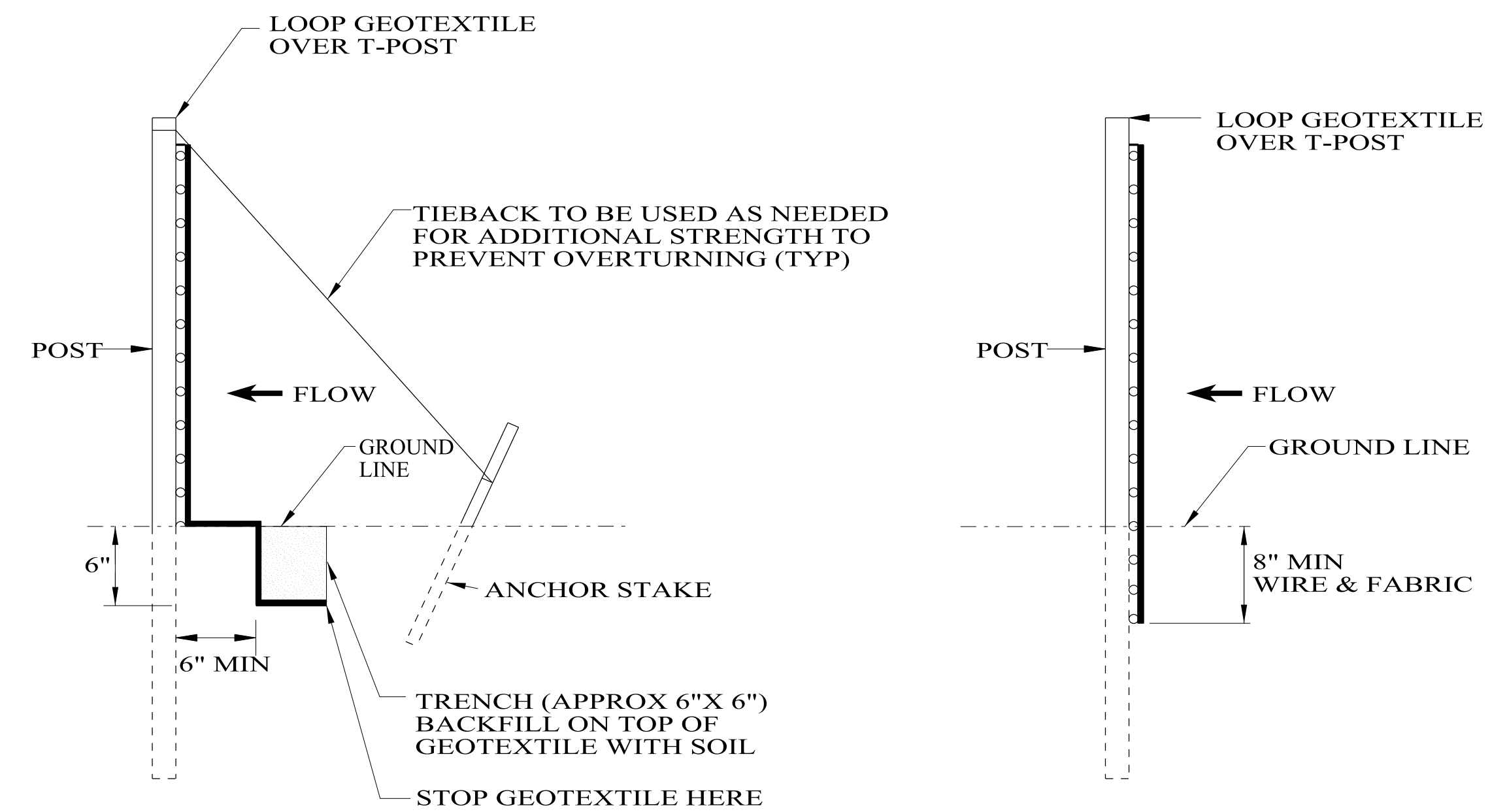


"SMILE-CONFIGURATION" SILT FENCE APPLICATION

NOTE:
EL (A) = EL (B) TO MAXIMIZE STORAGE.



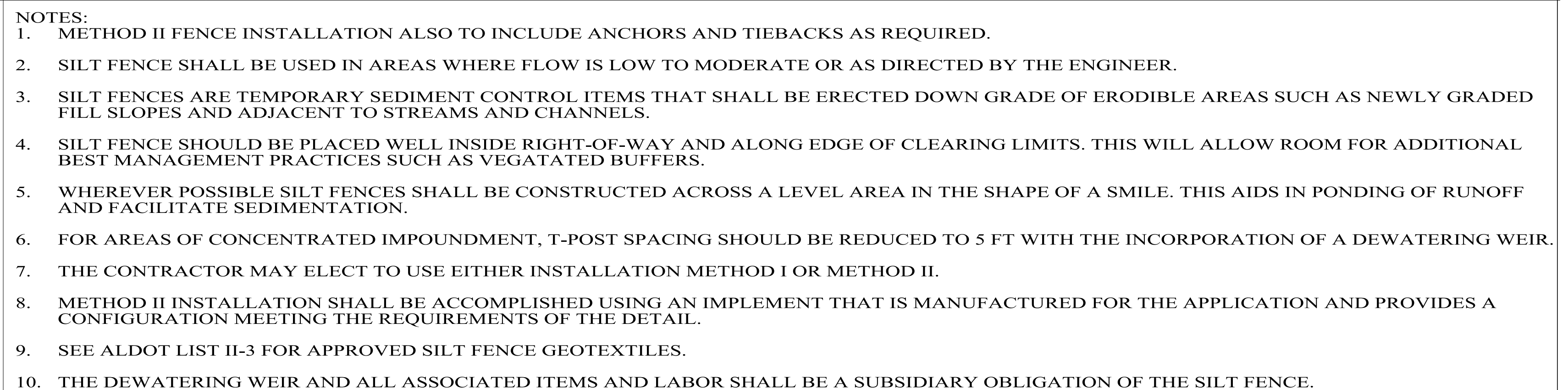
SILT FENCE SECTION AT TOE OF SLOPE



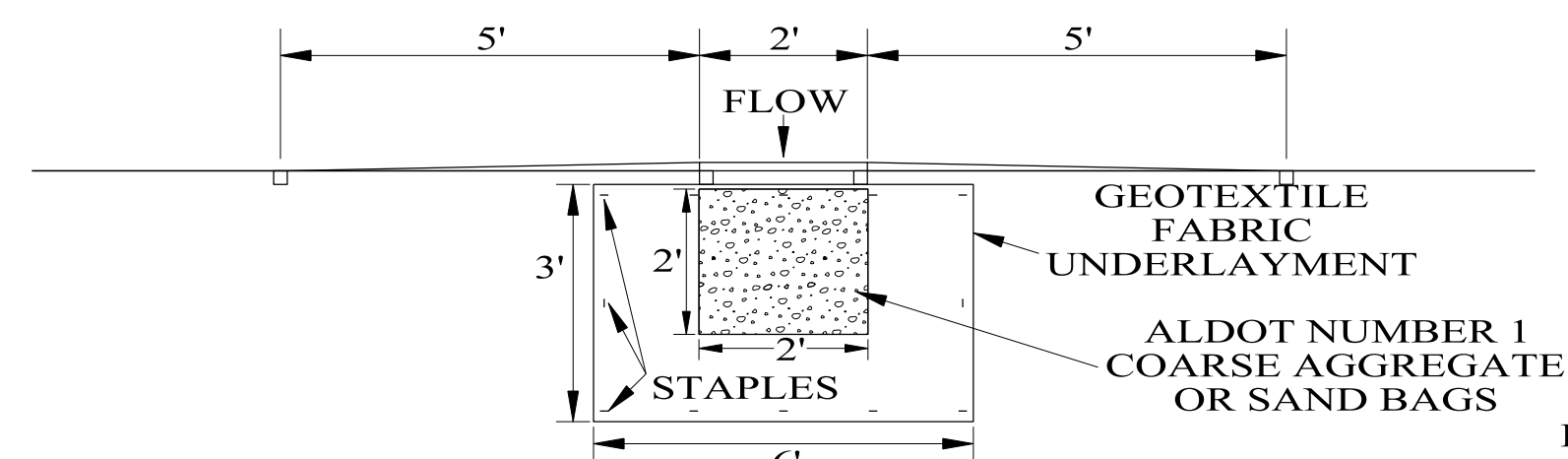
METHOD II

MECHANICAL INSTALLATION

SIDE VIEW

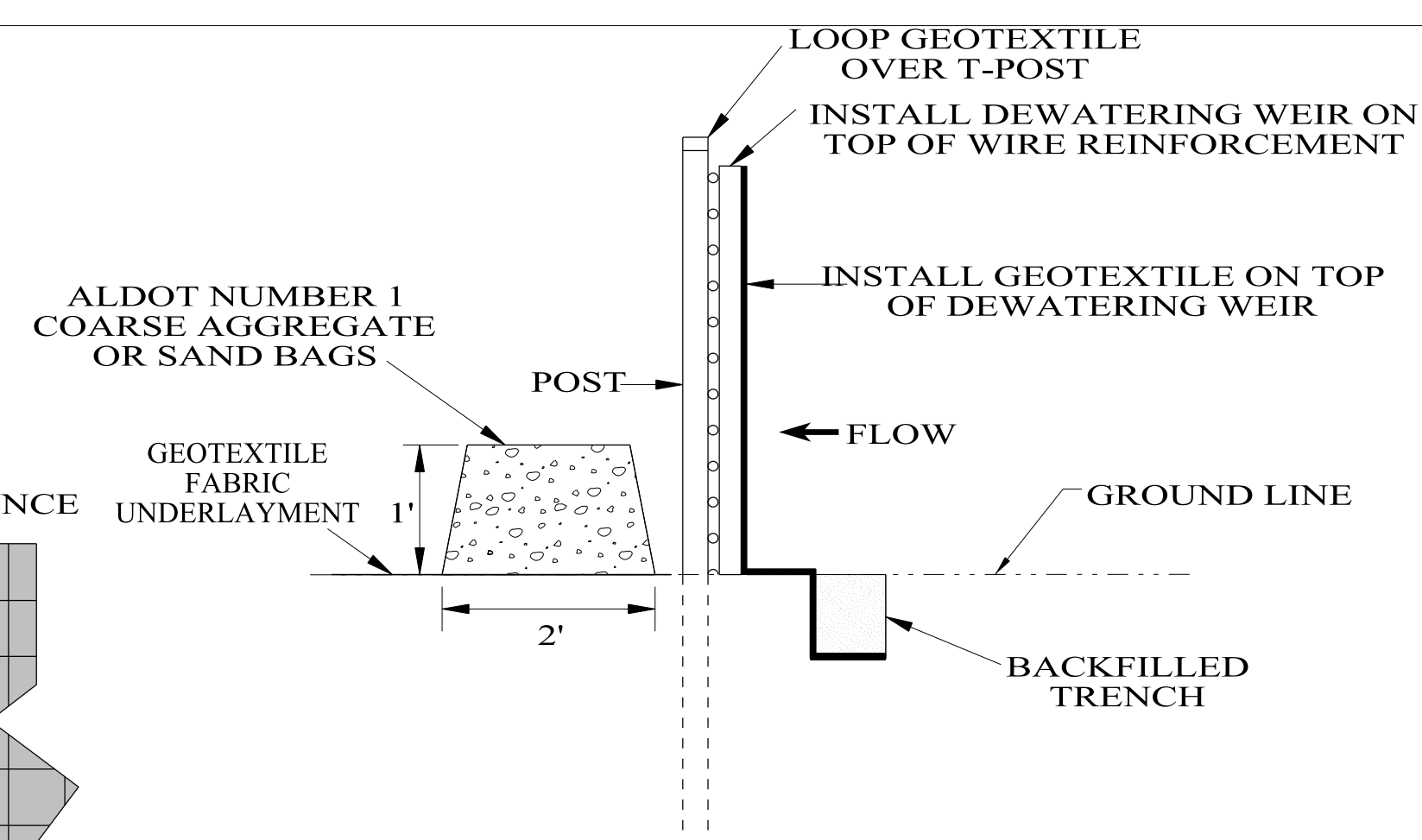


REQUIRED LAPPING



SILT FENCE

ELEVATION (DOWNSTREAM) VIEW



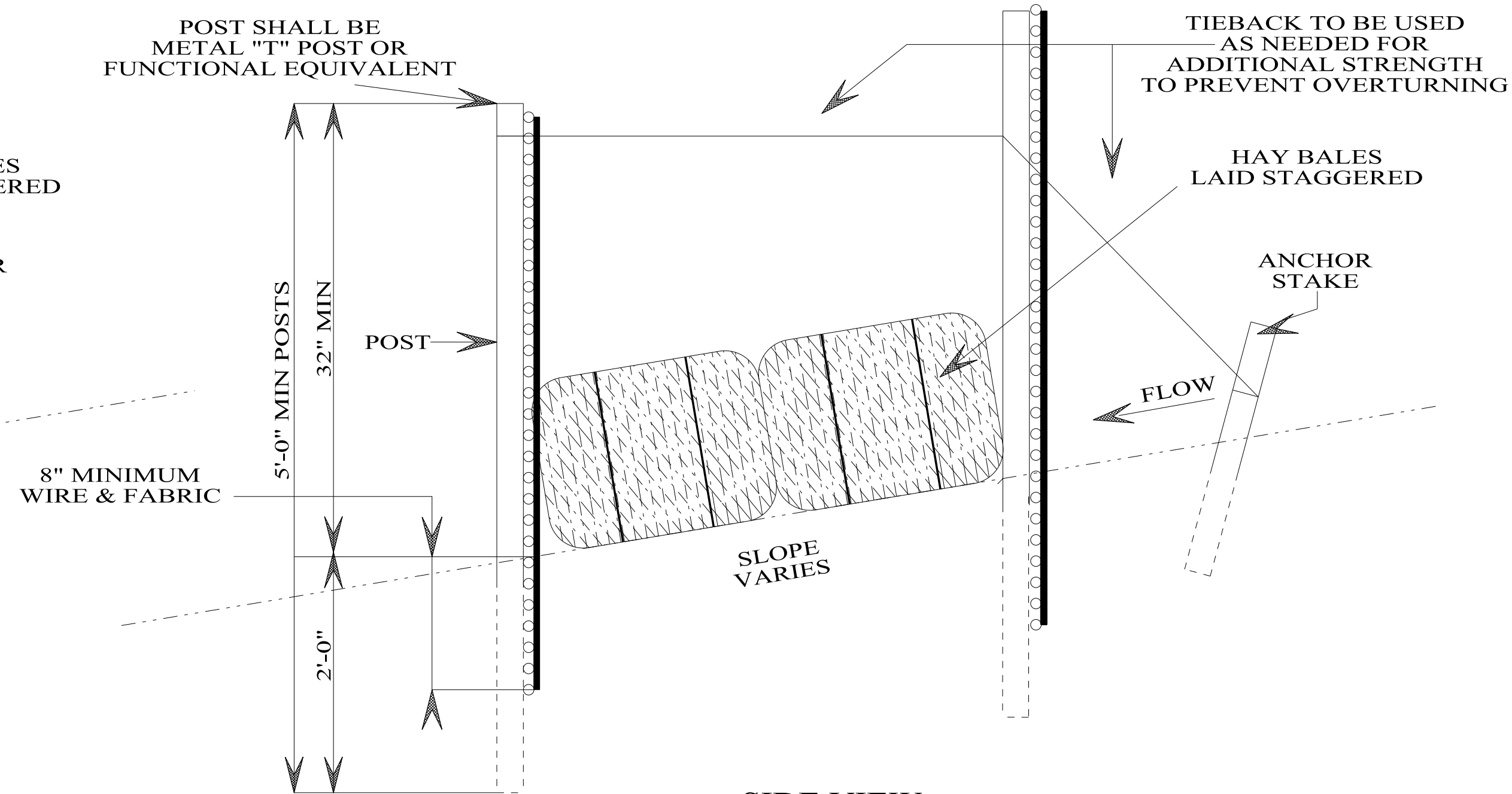
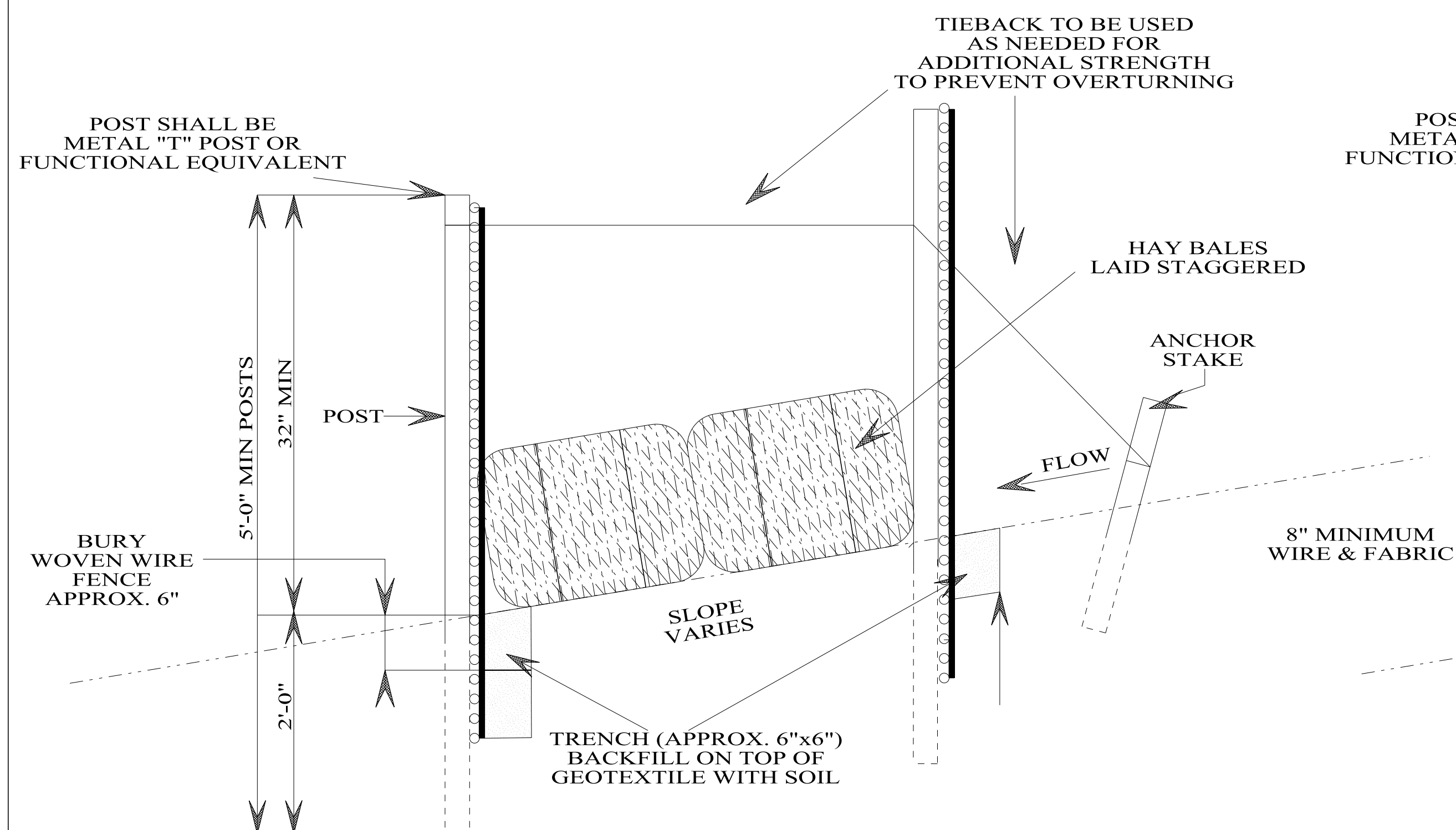
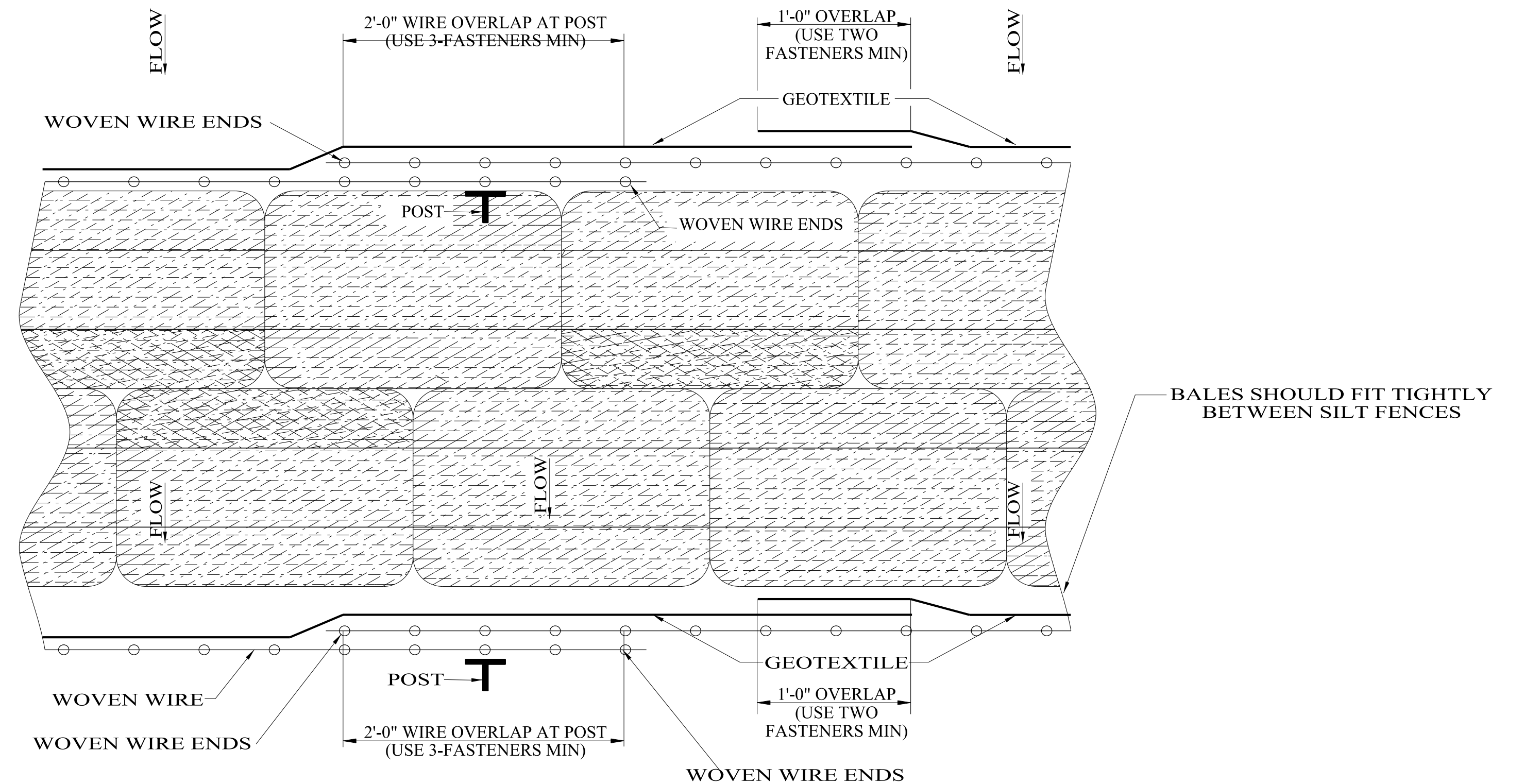
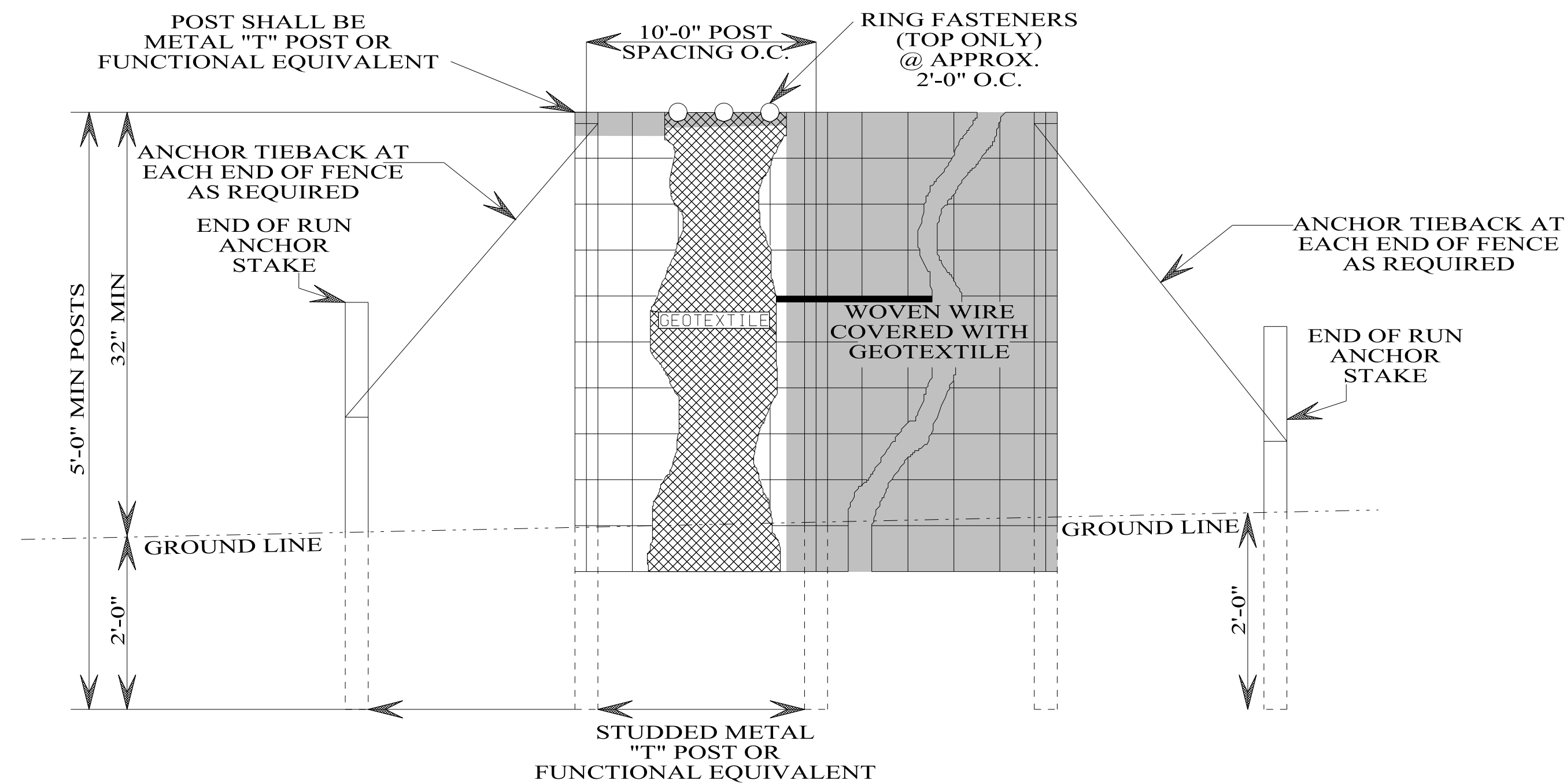
SIDE VIEW

DEWATERING WEIR

NOT TO SCALE

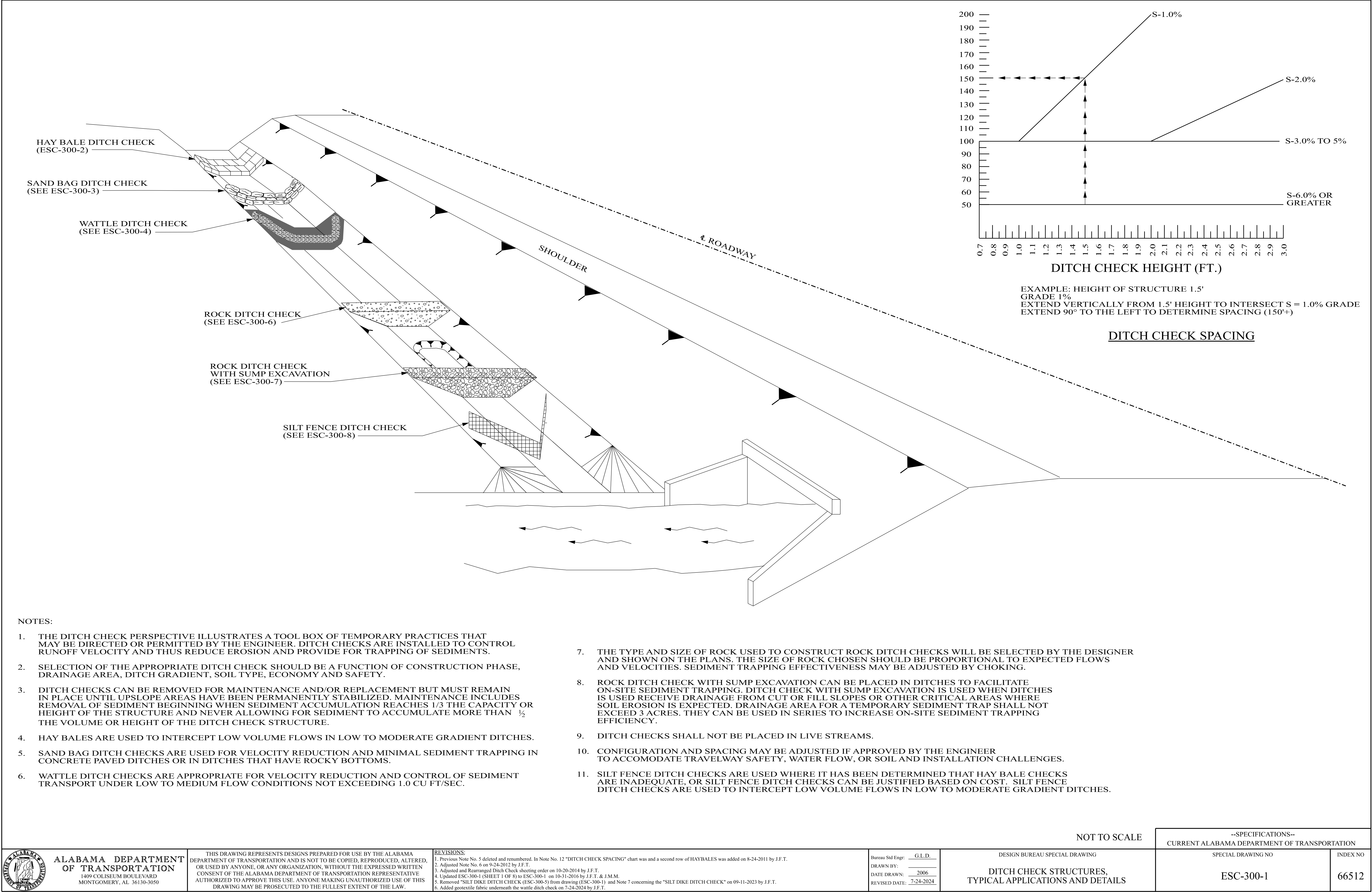
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

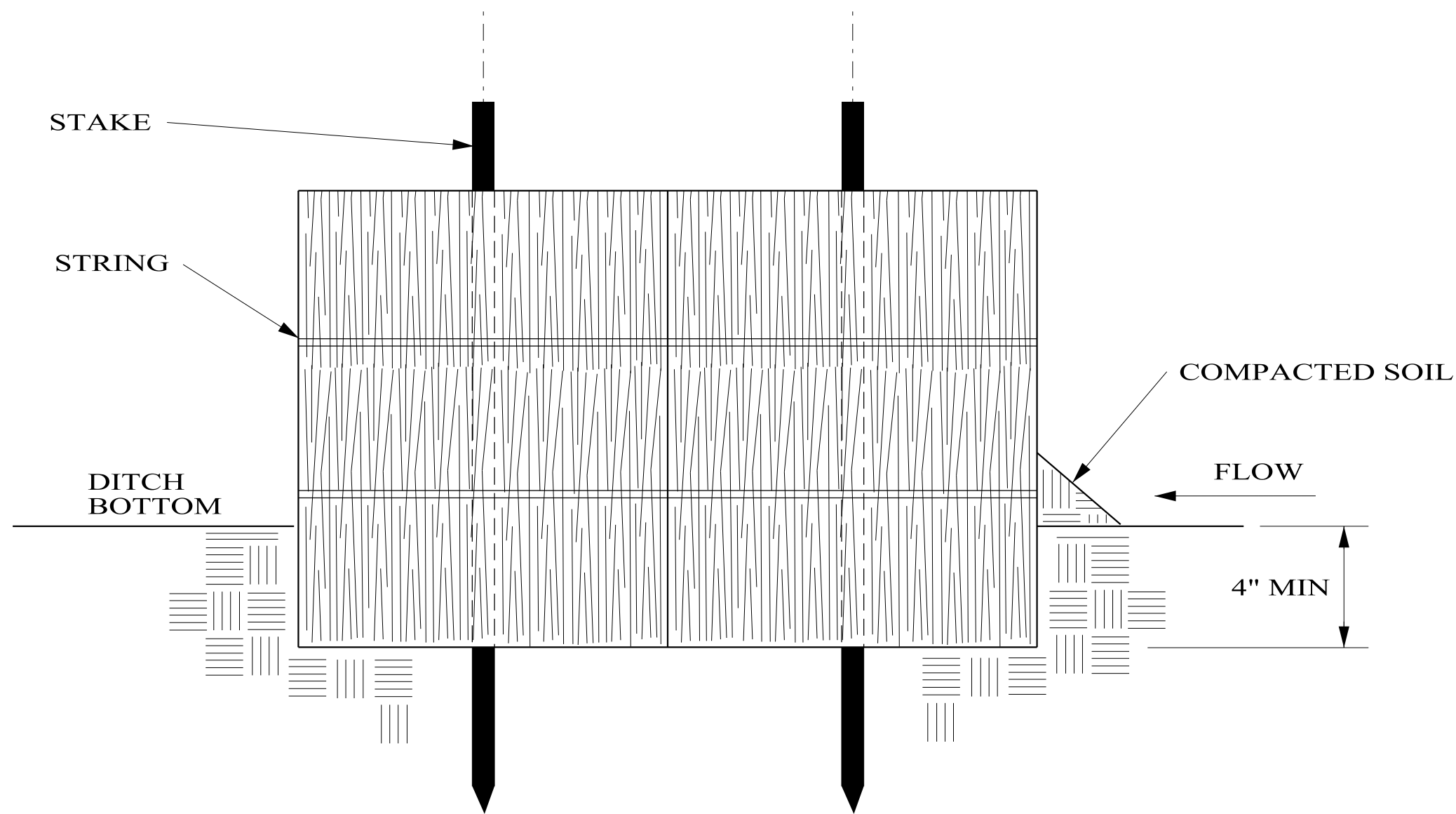
66508



- NOTES:

1. METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
2. SEDIMENT RETENTION BARRIER SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
3. SEDIMENT RETENTION BARRIERS ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
4. SEDIMENT RETENTION BARRIERS SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS IF POSSIBLE. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
5. WHEREVER POSSIBLE SEDIMENT RETENTION BARRIERS SHALL BE CONSTRUCTED ALONG A CONTOUR WITH THE ENDS TURNED. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
6. THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
7. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
8. SEE ALDOTT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.



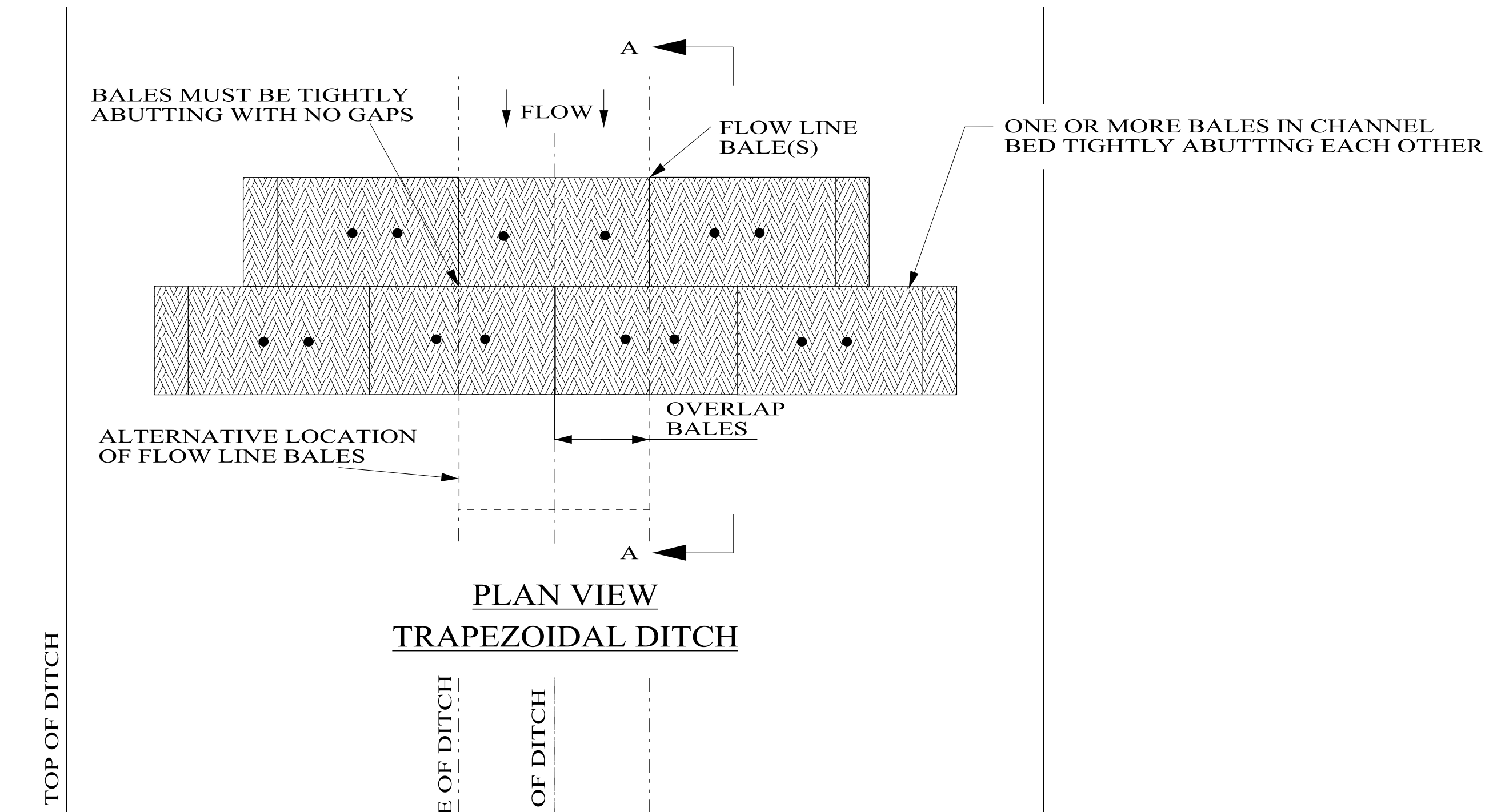


SECTION A-A

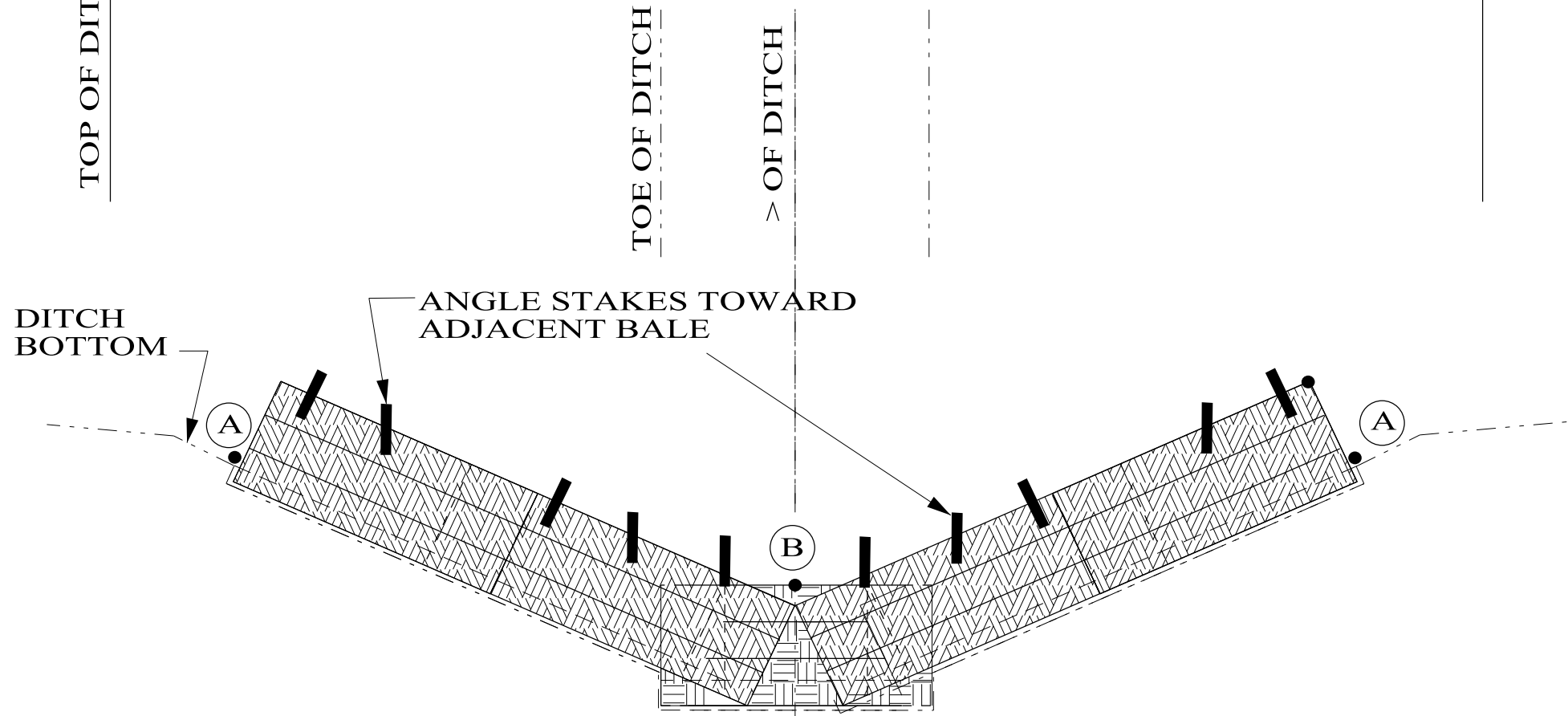
- NOTES:
1. MINIMUM RECOMMENDED CHECK SPACING IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ESC-300-1.
 2. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. A MINIMUM OF TWO STAKES PER BALE IS REQUIRED. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
 3. BALES SHALL BE EMBEDDED IN THE SOIL A MIN OF 4 INCHES.
 4. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
 5. SOIL IS COMPACTED ALONG THE BASE OF THE UPSTREAM FACE TO PREVENT PIPING.
 6. MULTIPLE ADJACENT ROWS OF BALES ARE REQUIRED AS SHOWN.

HAY BALE DITCH CHECK SELECTION GUIDELINES

HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.



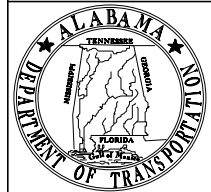
PLAN VIEW
TRAPEZOIDAL DITCH



PROFILE VIEW
TRAPEZOIDAL DITCH

END POINTS (A) MUST BE HIGHER
THAN FLOW LINE POINT (B)

NOT TO SCALE



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REVISIONS:
1. Revised "PROFILE VIEW" on 8-24-2011 by J.F.T.
2. Eliminated void on Hay Bale Plan & Trapezoid Views on 9-2-2011 by J.F.T.
3. Repositioned and revised text on 9-24-2012 by J.F.T.
4. Revised Notes 1 & 3 and Profile View Trapezoidal Ditch and deleted Plan View, Notes and Silt Fence Ditch Check Selection Guidelines. Revised Drawing Description Block on 7-29-2014 by J.F.T.

5. Updated Special Drawing No. from ESC-300 (SHEET 2 OF 8) to ESC-300-2 on 10-31-2016 by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF HAY BALE
DITCH CHECKS

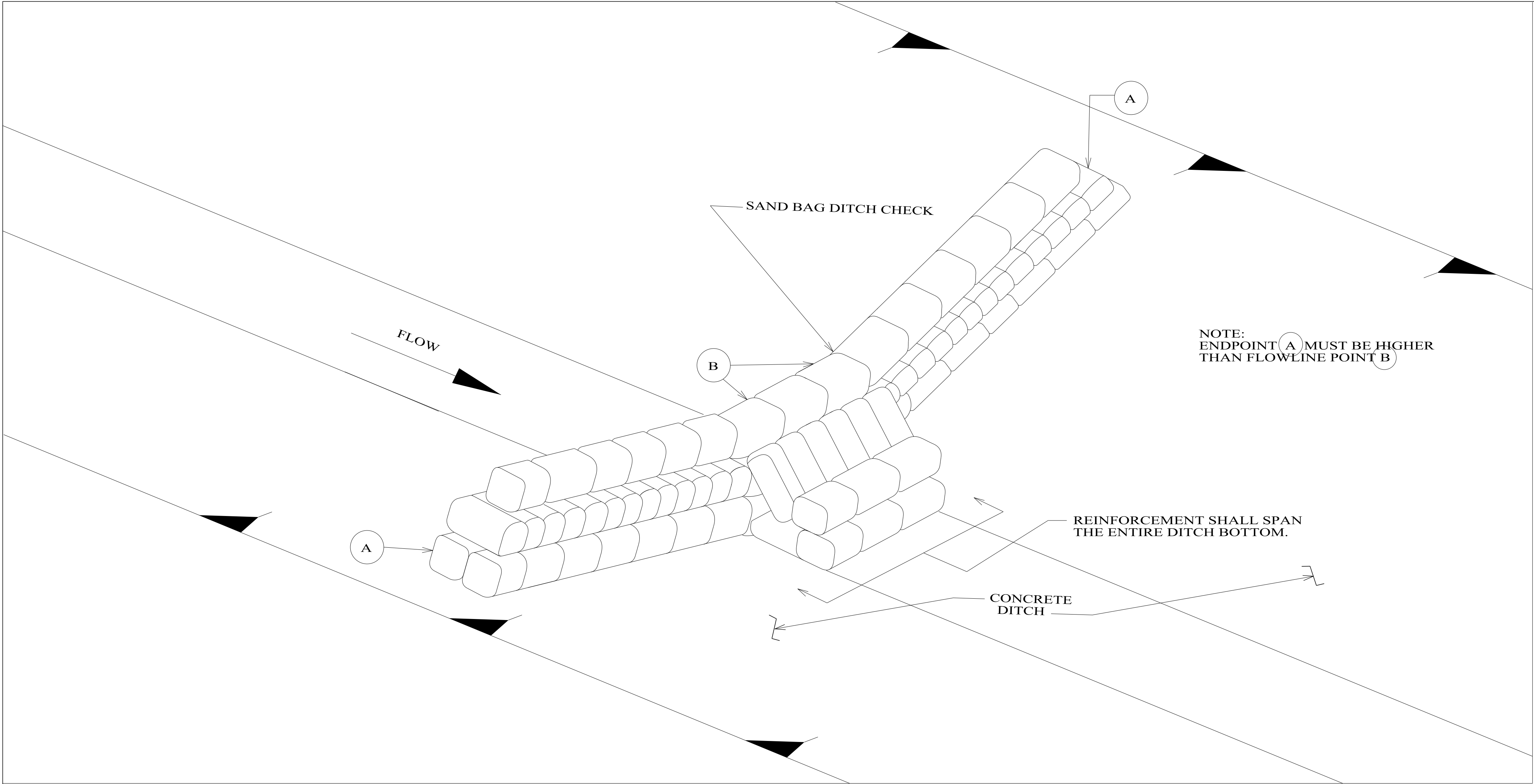
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

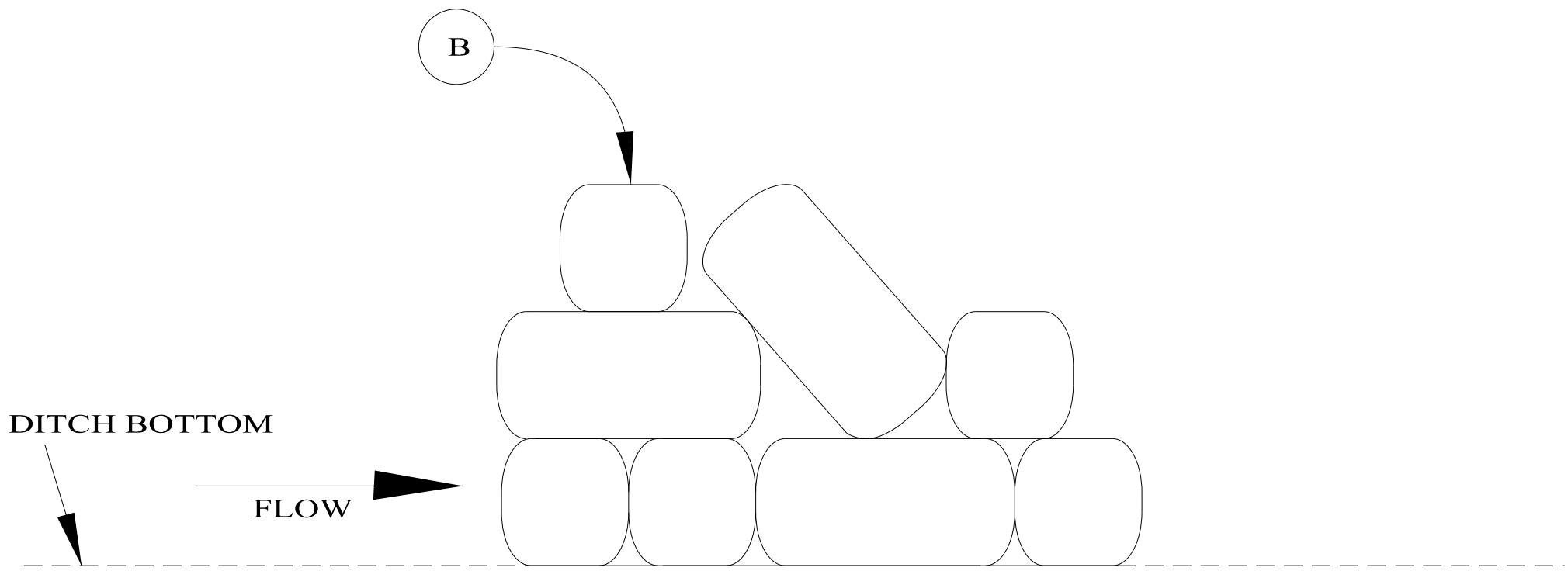
ESC-300-2

INDEX NO

66513



DETAIL (DITCH CHECK)

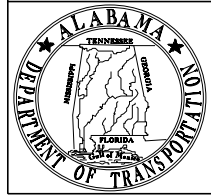


SIDE VIEW
(IN DITCH BOTTOM)

- NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN SAND BAG DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON SHT ESC-300-1.
 2. PREVENTING SEDIMENT FROM ENTERING A PAVED DITCH IS PREFERABLE TO CAPTURING SEDIMENT WITHIN PAVED DITCH.

SAND BAG DITCH CHECK SELECTION GUIDELINES

SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS.



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REVISIONS:
1. Added to CADD on 7-02-2014 by J.F.T.
2. Revised "DETAIL (DITCH CHECK)" and "SIDE VIEW (IN DITCH BOTTOM. Revised Description Box on 10-20-2014 by J.F.T.
3. Updated Special Drawing No. from ESC-300)SHEET 3 OF 8) to ESC-300-3 on 10-31-1016 by J.F.T. and J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY: J.F.T.
DATE DRAWN: 7-2-2014
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF SANDBAG
DITCH CHECK

NOT TO SCALE

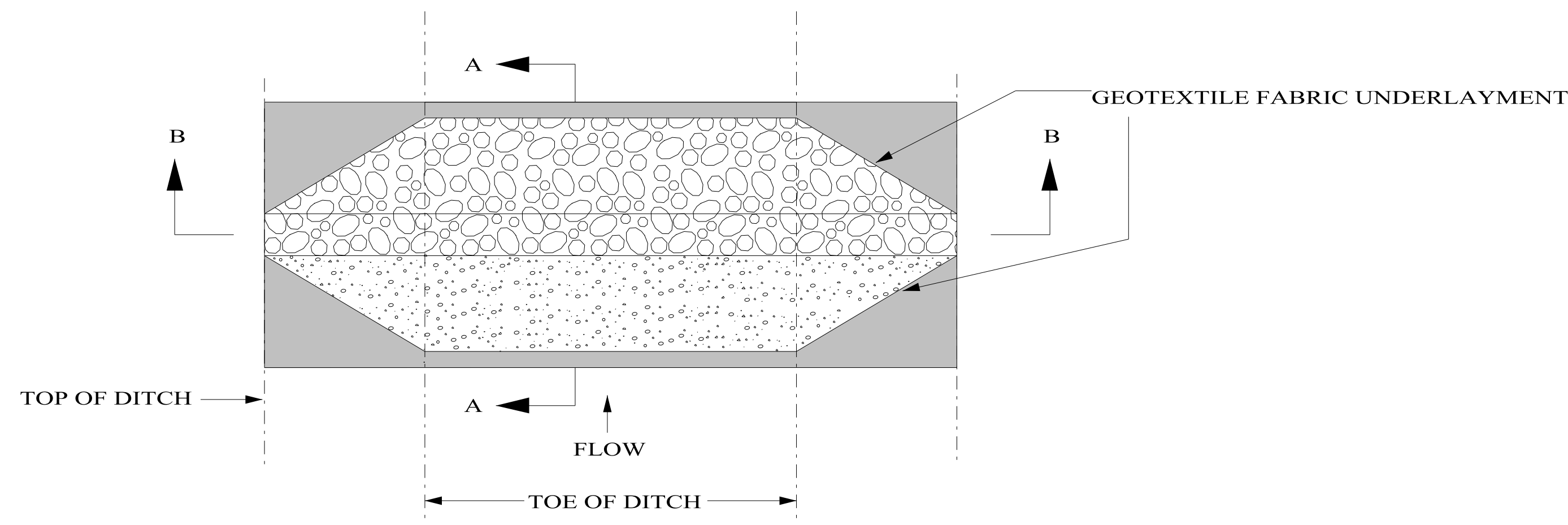
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

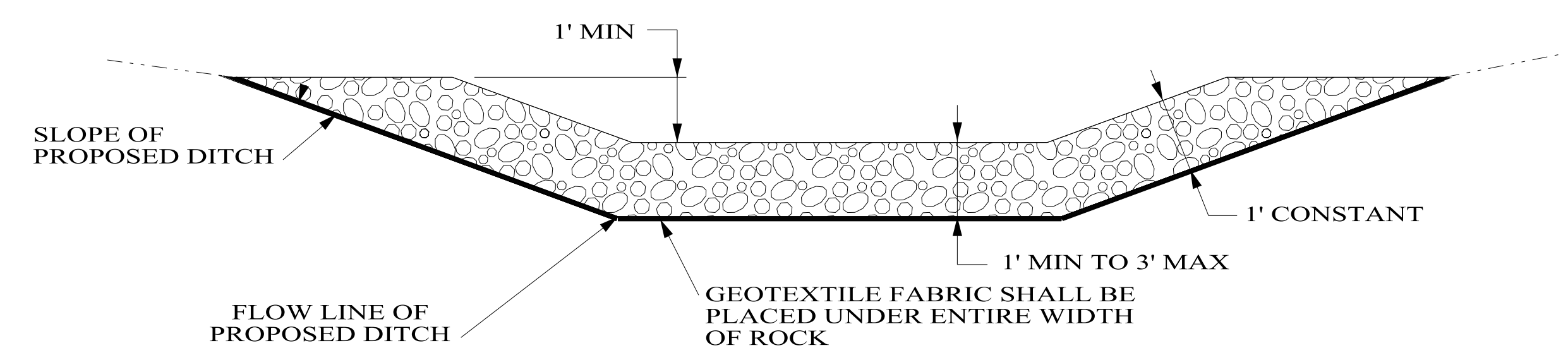
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INDEX NO

66514

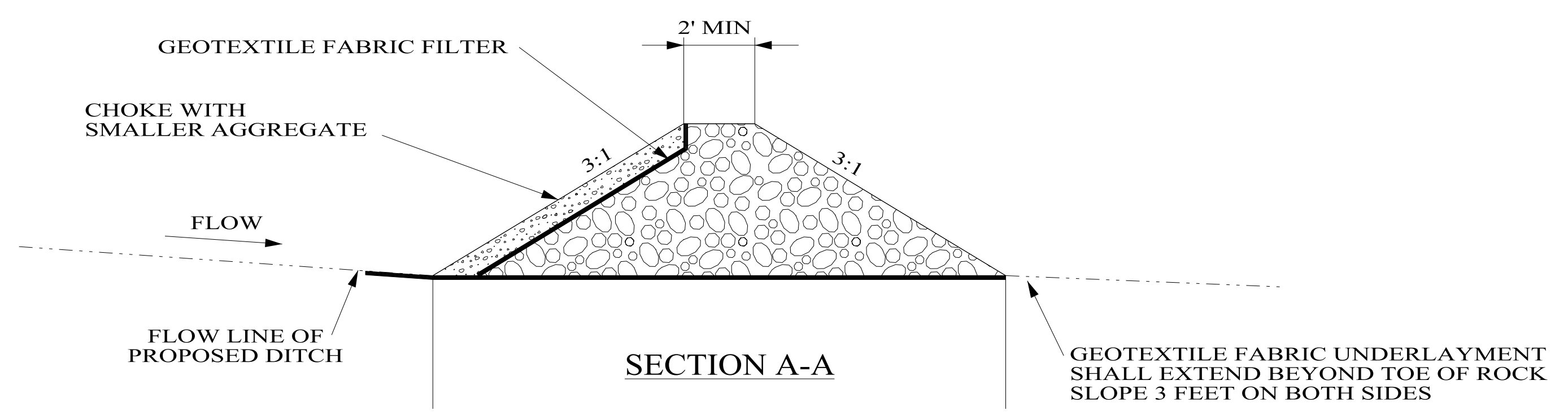


PLAN VIEW
DETAIL FOR TRAPEZOIDAL DITCH



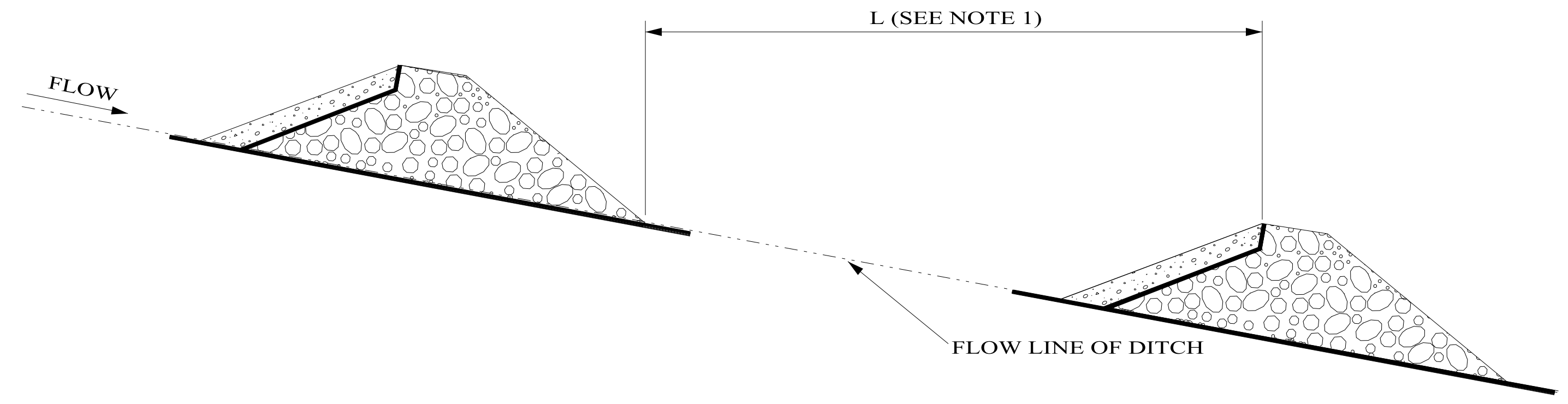
SECTION B-B

TEMPORARY ROCK DITCH CHECKS IN ROADSIDE DITCHES



SECTION A-A

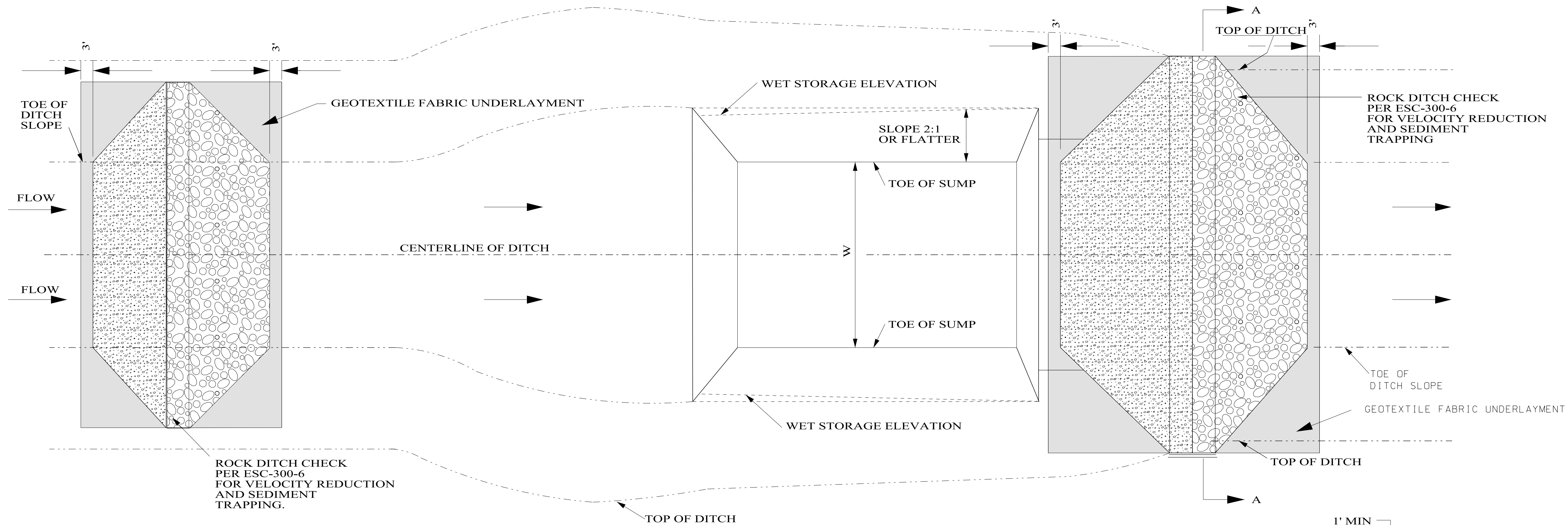
DETAIL FOR SPACING BETWEEN DITCH CHECKS



- NOTES:
1. MINIMUM SPACING FOR ROCK DITCH CHECKS SHALL BE 50 FEET OR AS DIRECTED BY THE ENGINEER. SEE SPACING GUIDANCE ON SP-DWG ESC-300-1.
 2. ROCK DITCH CHECKS SHALL BE CHOKED WITH FILTER FABRIC.
 3. SEE LIST II-3 FOR APPROVED GEOTEXTILES.

ROCK DITCH CHECK SELECTION GUIDELINES

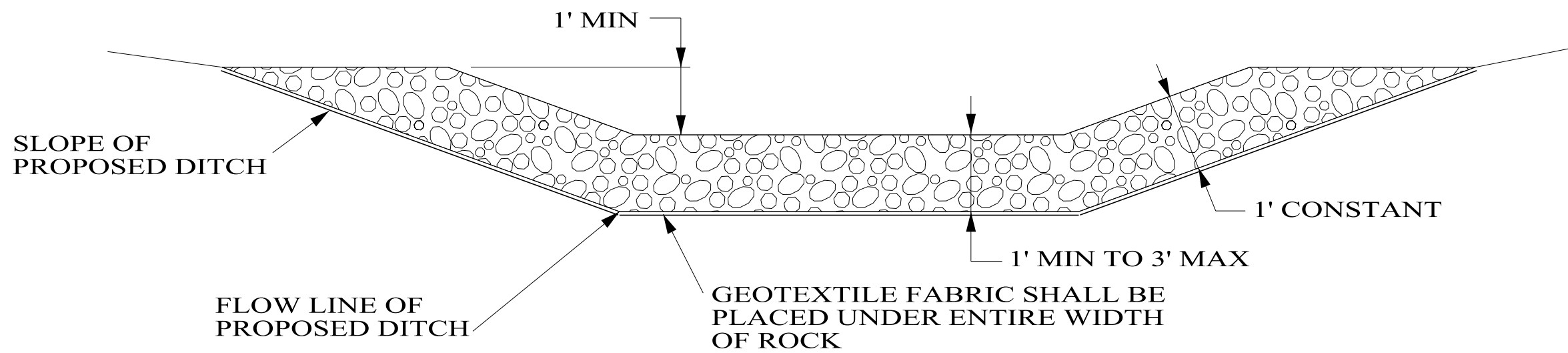
THE TYPE AND SIZE OF ROCK USED TO CONSTRUCT THE CHECK WILL BE SELECTED BY THE DESIGNER AND SHOWN ON THE PLANS. THE SIZE OF ROCK CHOSEN WILL BE PROPORTIONAL TO EXPECTED FLOWS AND VELOCITIES.



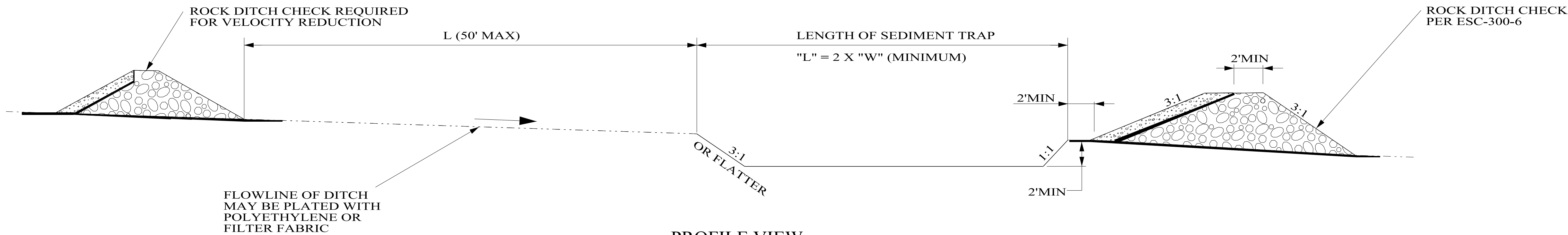
PLAN VIEW

ROCK DITCH CHECK WITH SUMP EXCAVATION SELECTION GUIDELINES

THE TYPE AND SIZE OF ROCK USED TO CONSTRUCT THE CHECK WILL BE SELECTED BY THE DESIGNER AND SHOWN ON THE PLANS. THE SIZE OF ROCK CHOSEN WILL BE PROPORTIONAL TO EXPECTED FLOWS AND VELOCITIES.

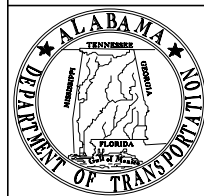


SECTION A-A



PROFILE VIEW
DITCH CENTERLINE

NOT TO SCALE



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REVISIONS:

1. Removed Dry & Storage Elevation graphic from the Profile View on 7-12-2007 by W.W.A.
2. Revised "PLAN VIEW" and "PROFILE VIEW" to show small aggregate choker. Deleted portion of text in "ROCK DITCH CHECK WITH SUMP EXCAVATION SELECTION GUIDELINES" and edited text also removed DITCH CHECK descriptors on 10-11-2012 by J.F.T.

3. Revised "PLAN VIEW" and "PROFILE VIEW" to show Geotextile Fabric in "PLAN VIEW" and extension of fabric (Geotextile) on both sides in "PROFILE VIEW". Revised and updated "Description Box" on 8-01-2014 by J.F.T.
4. Updated Special Drawing No. from ESC-300 (SHEET 7 OF 8) to ESC-300-7 on 10-31-2016 by J.F.T. & J.M.M.

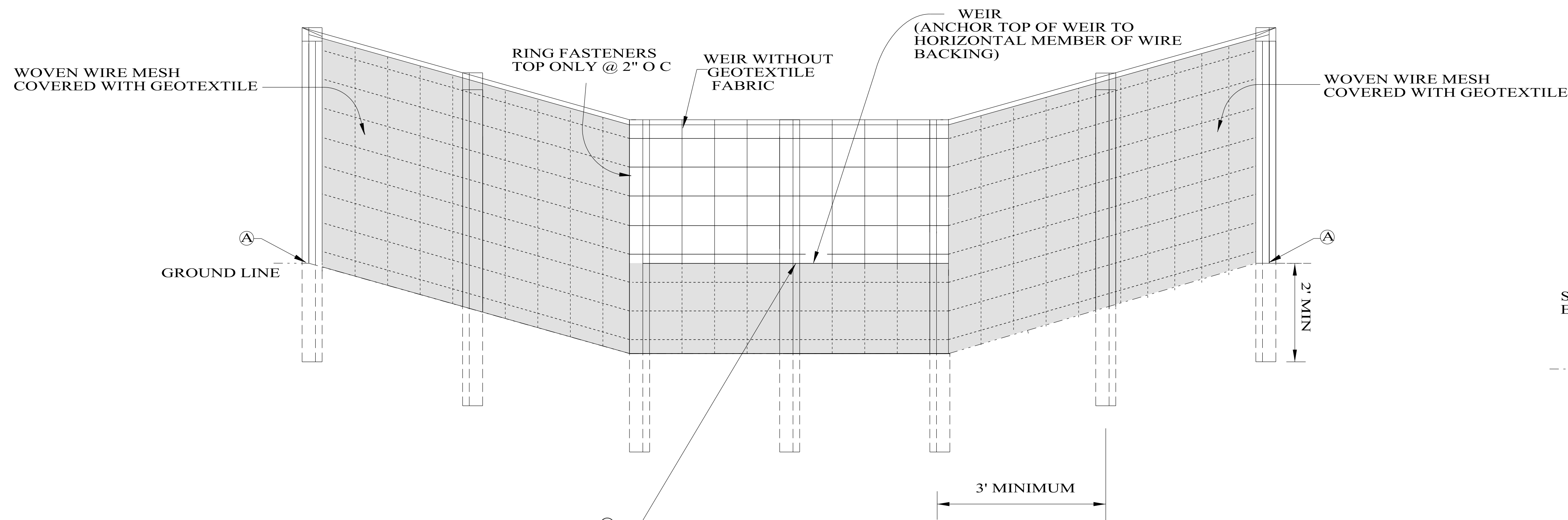
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF
ROCK DITCH CHECKS
WITH SUMP EXCAVATION

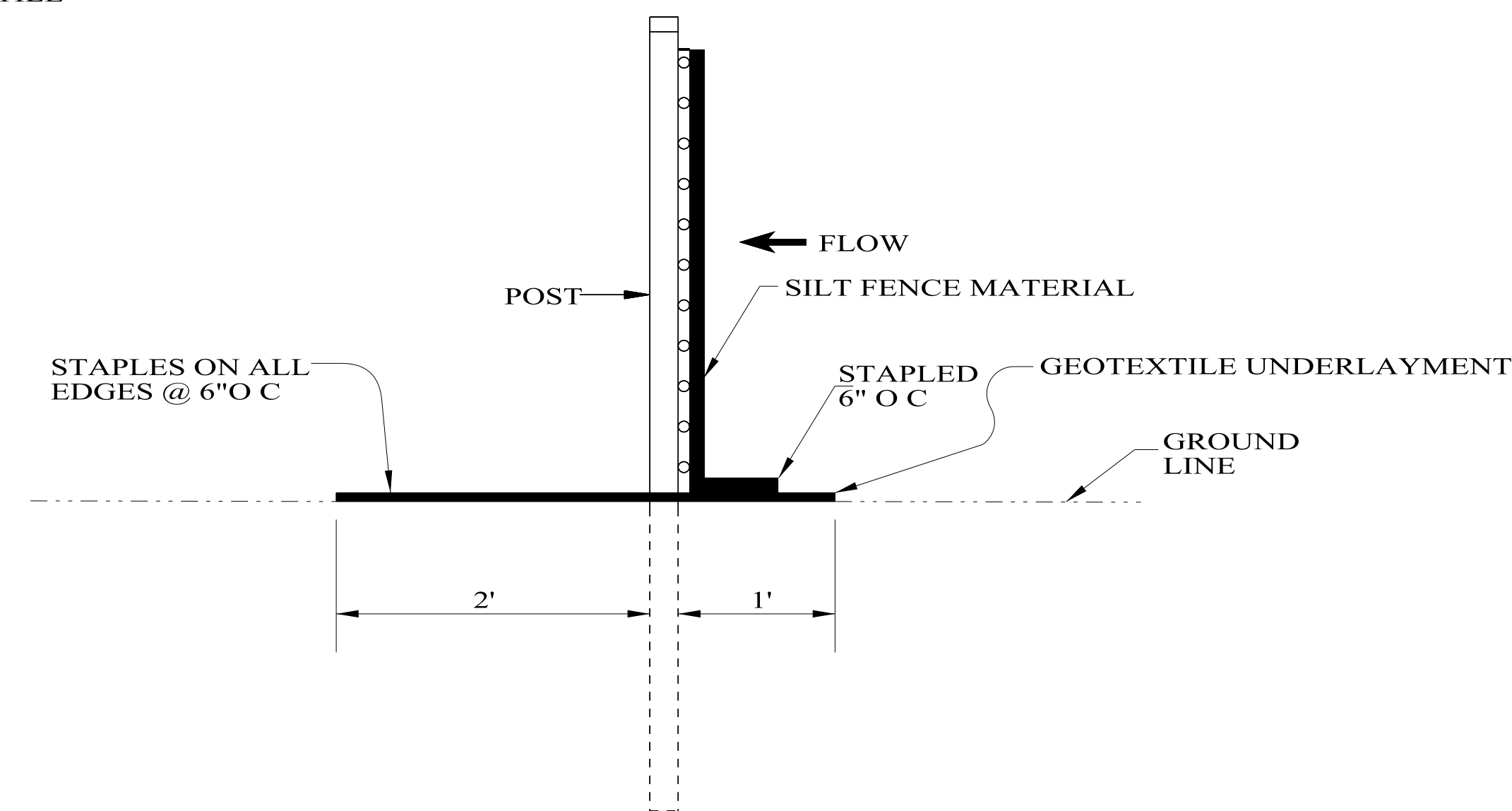
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-300-7

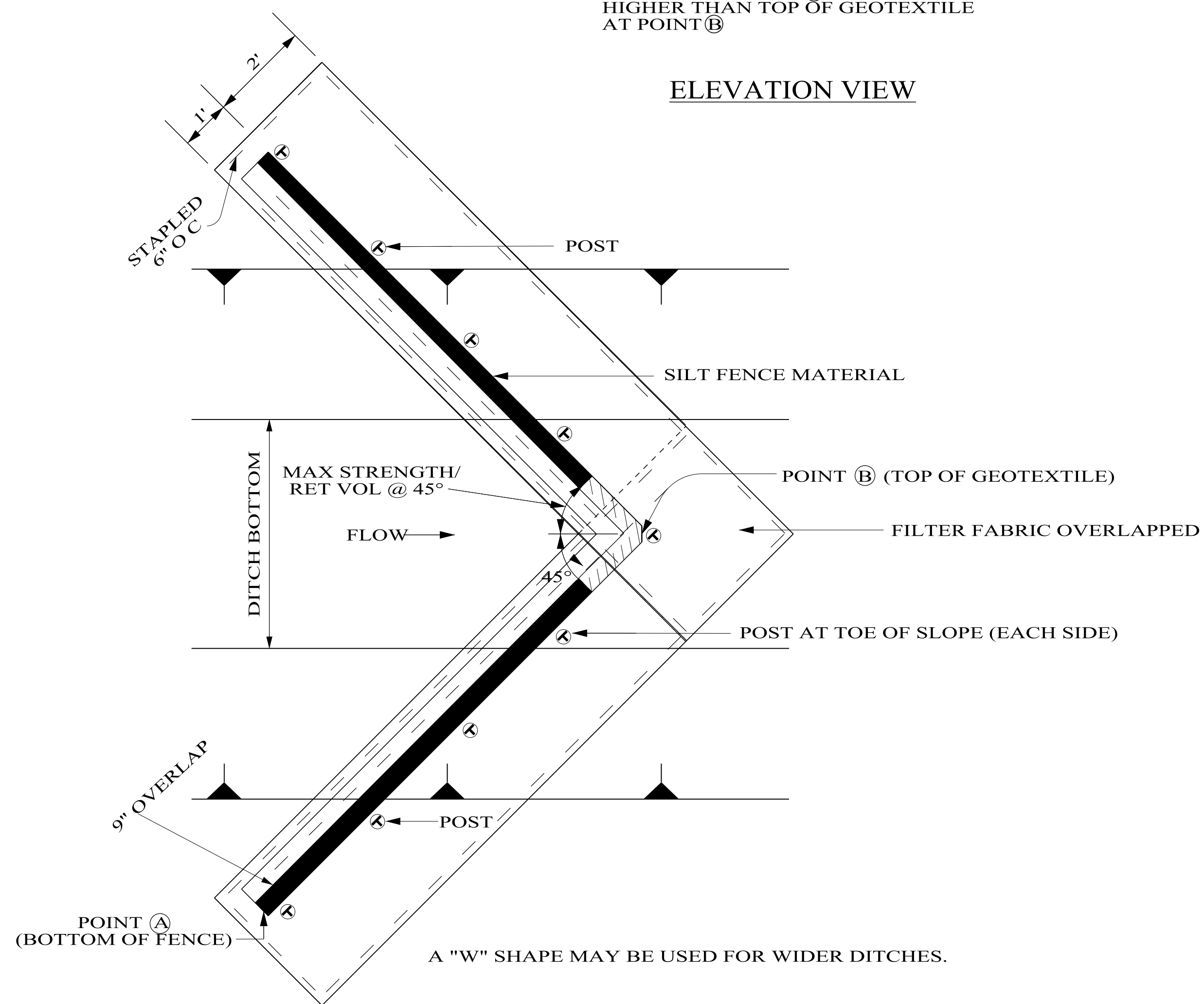
INDEX NO
66518



ELEVATION VIEW



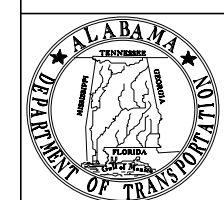
SIDE VIEW



PLAN VIEW

NOTES:

1. SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS MODERATE TO HIGH OR AS DIRECTED BY THE ENGINEER.
2. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. IF THE TOP OF THE GEOTEXTILE AT POINT B IS HIGHER THAN THE BOTTOM OF THE FENCE AT POINT A THEN NO WEIR IS REQUIRED.
4. SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.



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REVISIONS:
1. Revised "ELEVATION VIEW", "SIDE VIEW" and "PLAN VIEW". Revised Description Box. Revised and Rearranged Notes 3 and 4. Deleted Notes 5 and 6 on 10-30-2014 by J.F.T.
2. Updated Special Drawing No. ESC-300 (SHEET 8 OF 8) to ESC-300-8 on 10-31-2016 by J.F.T. & J.M.M.

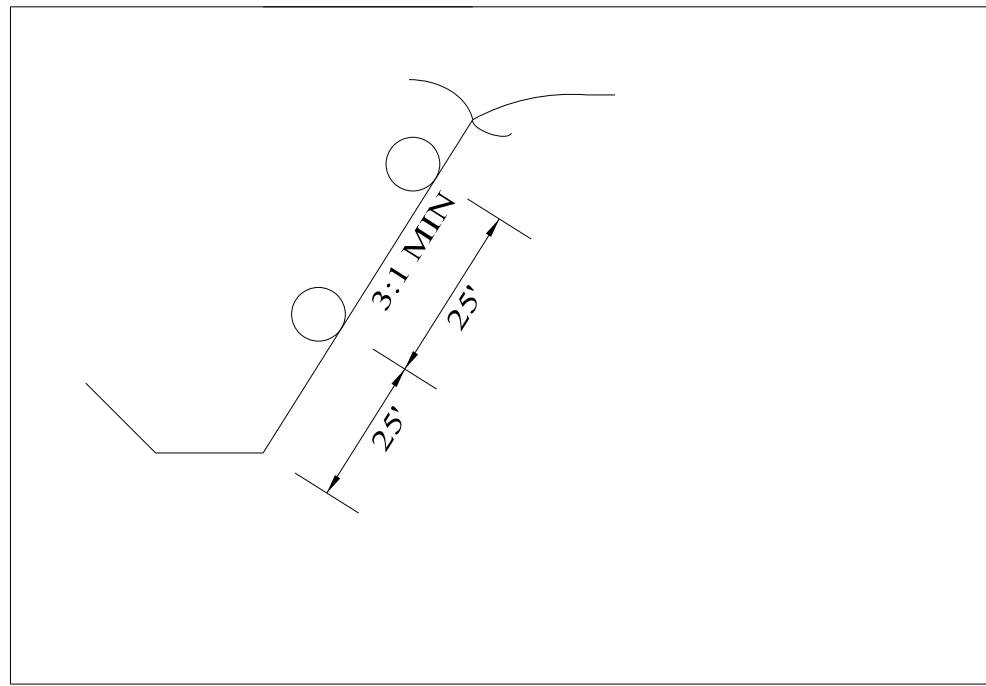
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF SILT FENCE
DITCH CHECKS

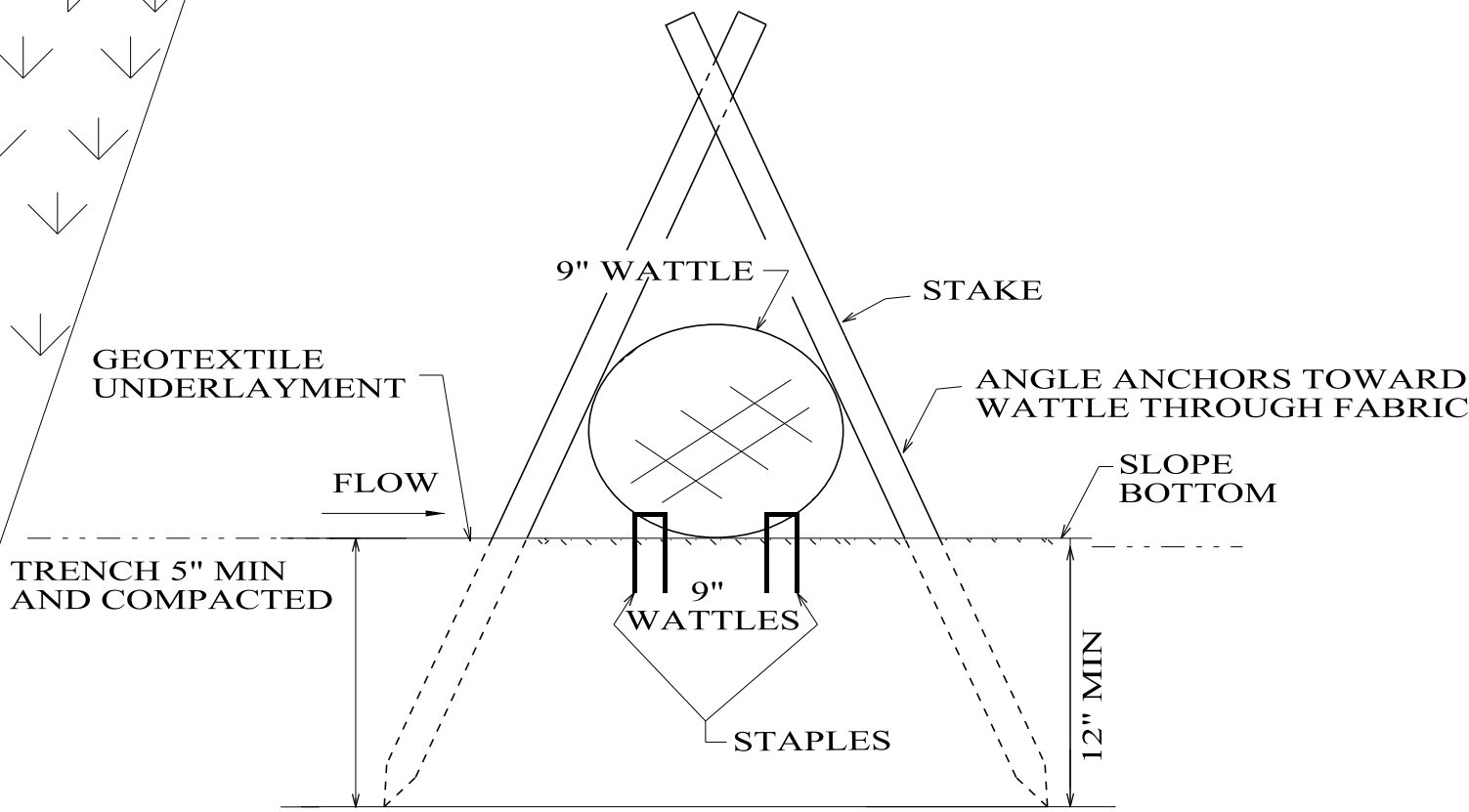
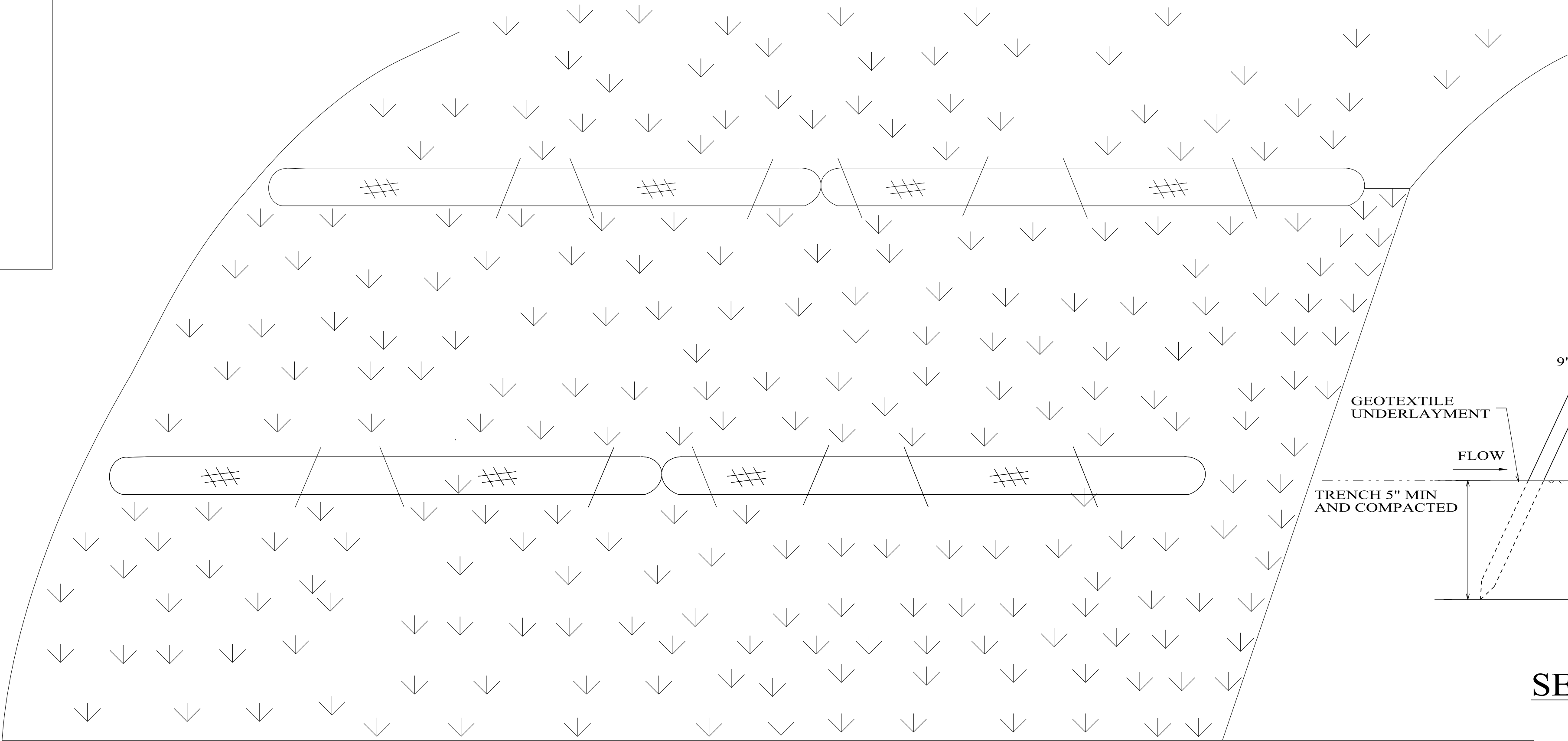
NOT TO SCALE

--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		
SPECIAL DRAWING NO	INDEX NO	
ESC-300-8	66519	

WATTLE SLOPE INTERRUPTERS INSTALLATION DETAIL



CROSS SECTION



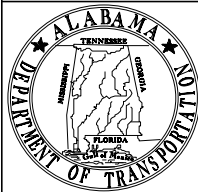
SECTION A-A

NOTES:

- FOR SLOPES 3:1 OR STEEPER WITH LENGTHS GREATER THAN 50 FEET ALONG THE VERTICAL FACE OF THE SLOPE, 9-INCH DIAMETER WATTLE SLOPE INTERRUPTERS SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE AT MAXIMUM DISTANCE OF 25 FEET APART ALONG THE VERTICAL FACE OF THE SLOPE. SLOPE INTERRUPTERS SHALL ONLY BE INSTALLED IN CONJUNCTION WITH SEEDING AND MULCHING WITH NO GEOTEXTILE UNDERLAYMENT.
- ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE SLOPE INTERRUPTERS. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
- STAPLES SHALL BE PLACED THROUGH THE BOTTOM NETTING OF THE WATTLE ON THE UPPER AND LOWER SIDES TO CREATE A SOLID INTERFACE BETWEEN THE WATTLE AND THE GROUND. STAPLES SHOULD BE PLACED 6 INCHES ON CENTER.
- 9 INCH WATTLE INTERRUPTERS SHALL BE INSTALLED AS PER SECTION A-A WITH NO GEOTEXTILE AND TRENCH. SLOPE INTERRUPTERS SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE AT MAXIMUM DISTANCE OF 25 FEET APART ALONG THE VERTICAL FACE OF THE SLOPE.

WATTLE SLOPE INTERRUPTERS
SELECTION GUIDELINES

WATTLE SLOPE INTERRUPTERS ARE APPROPRIATE FOR SLOPES 3:1 OR STEEPER WITH SLOPE LENGTHS GREATER THAN 50 FEET ALONG THE VERTICAL FACE OF THE SLOPE.



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REVISIONS:

1.

Bureau Sld Engr: G.L.D.
DRAWN BY: J.F.T.
DATE DRAWN: 09-09-2024
REVISED DATE:

DESIGN BUREAU SPECIAL DRAWING

DETAILS OF WATTLE
SLOPE INTERRUPTERS

NOT TO SCALE

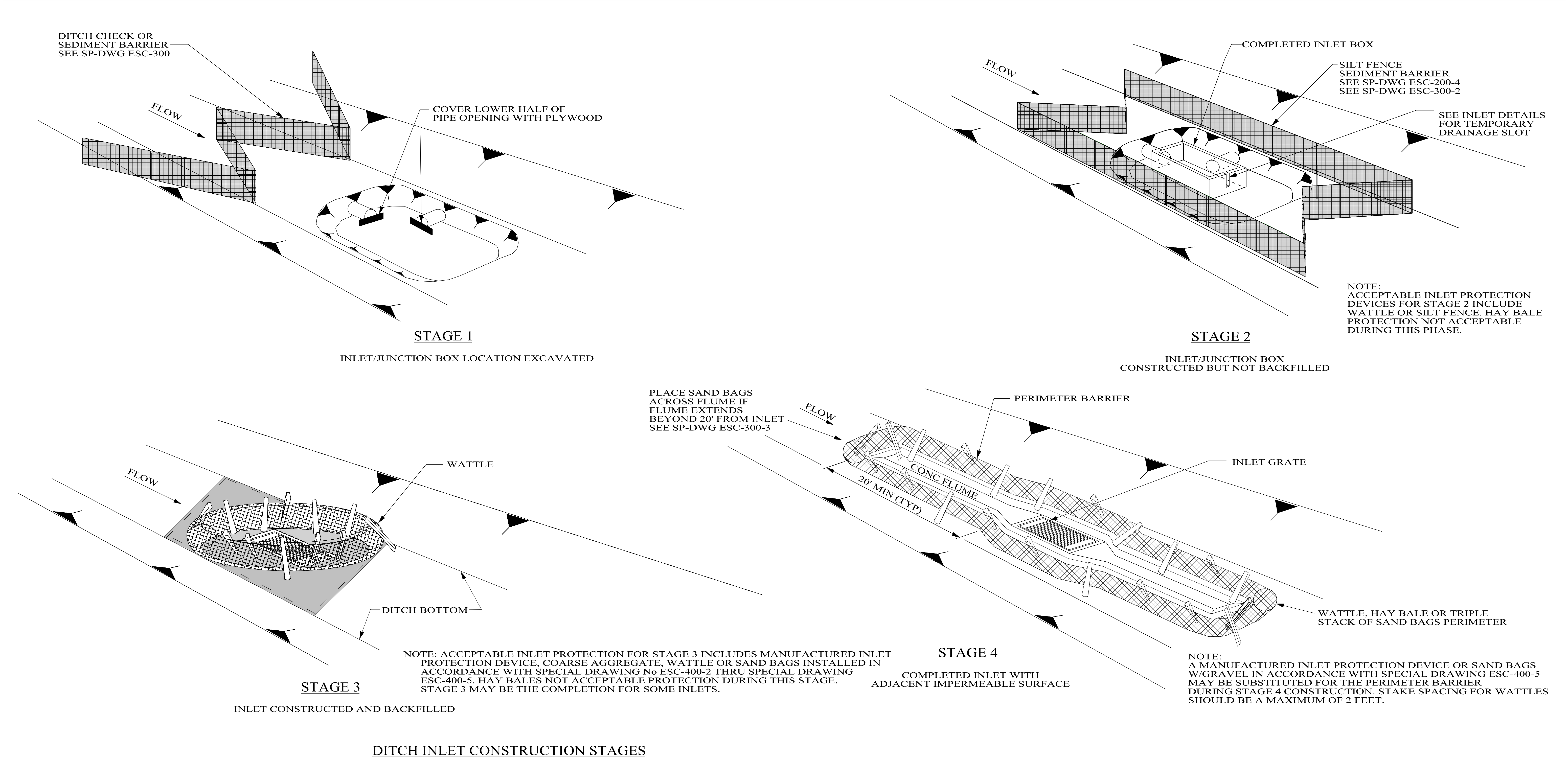
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

ESC-300-9

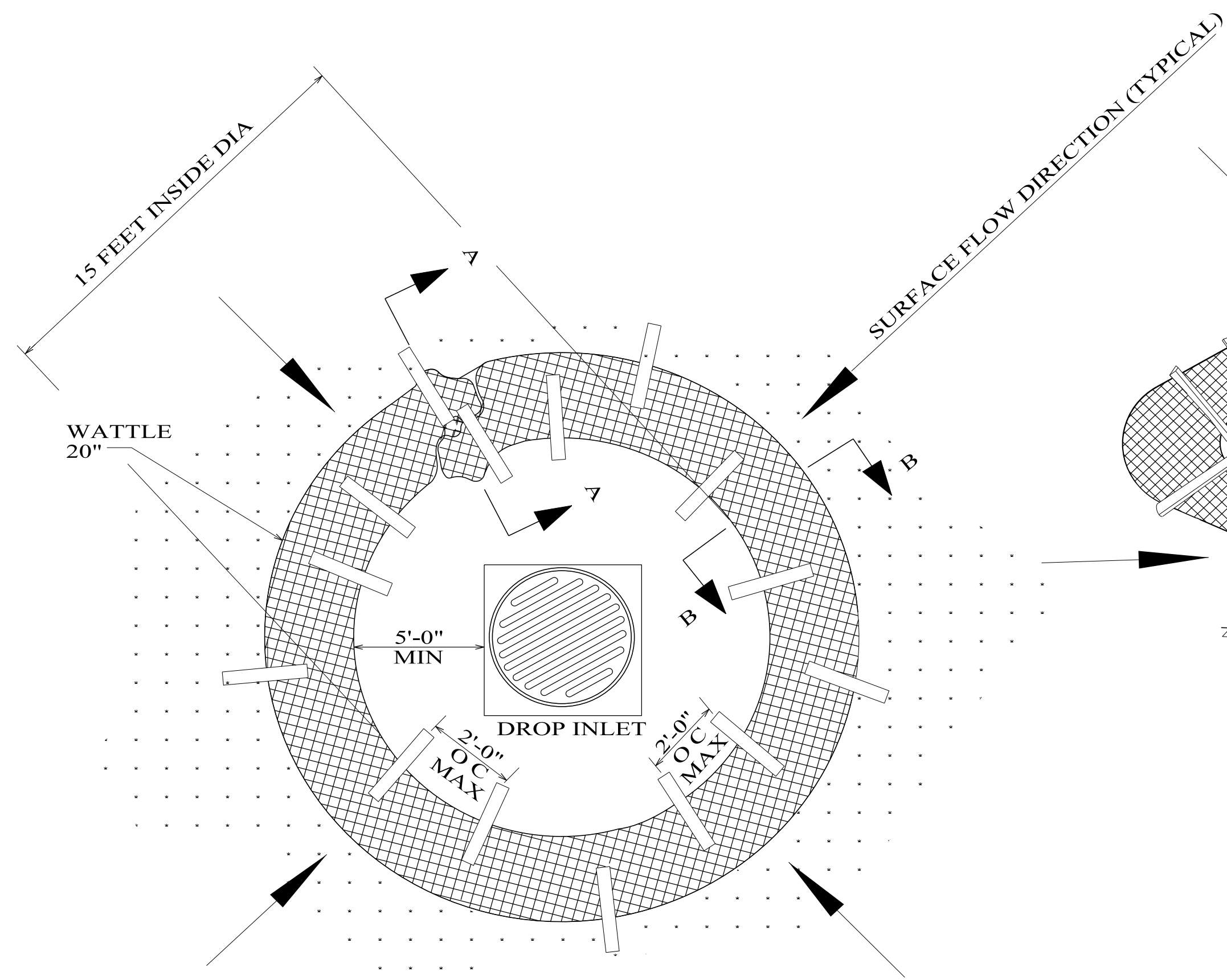
INDEX NO

66520

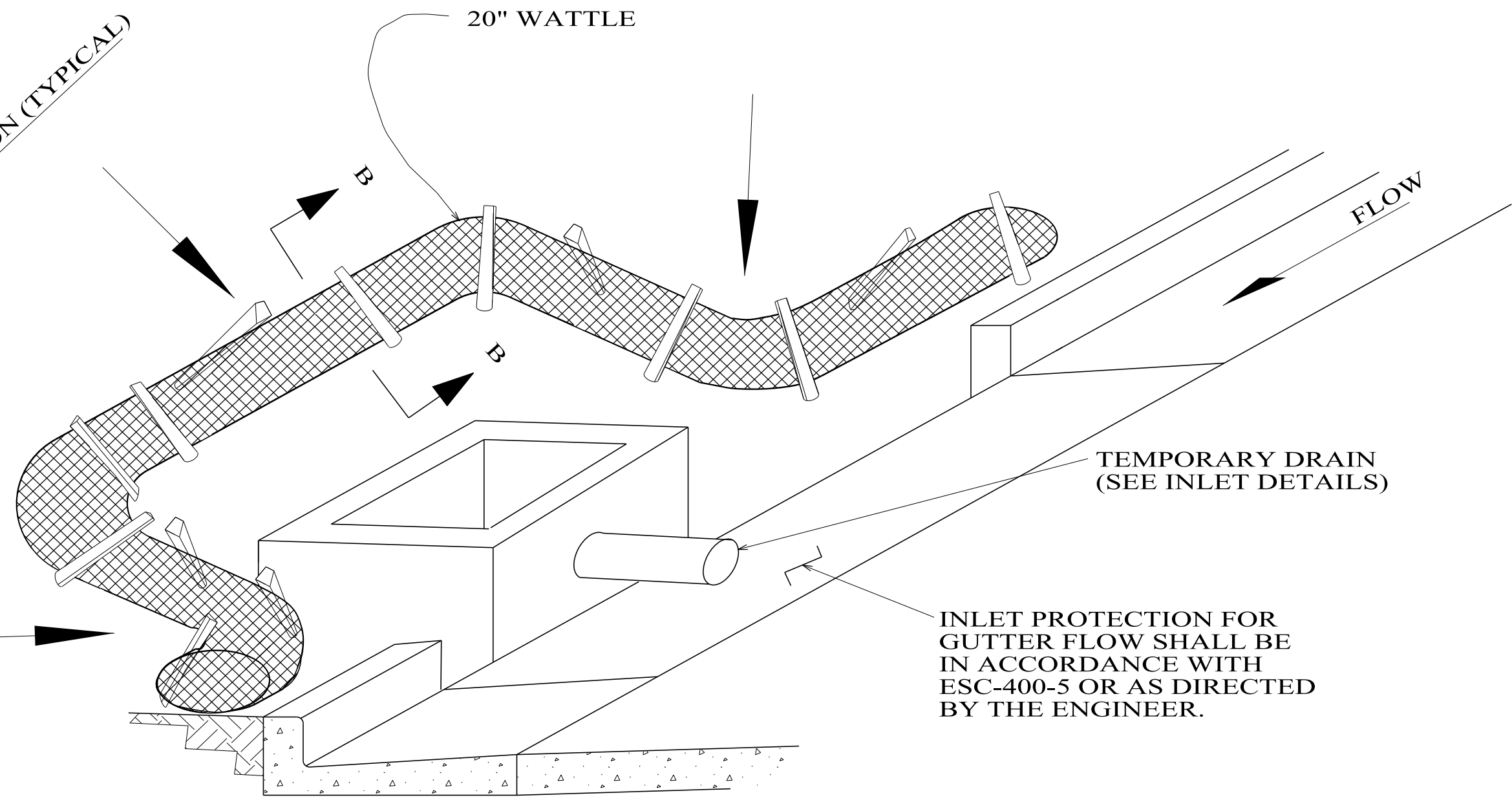


NOTES:

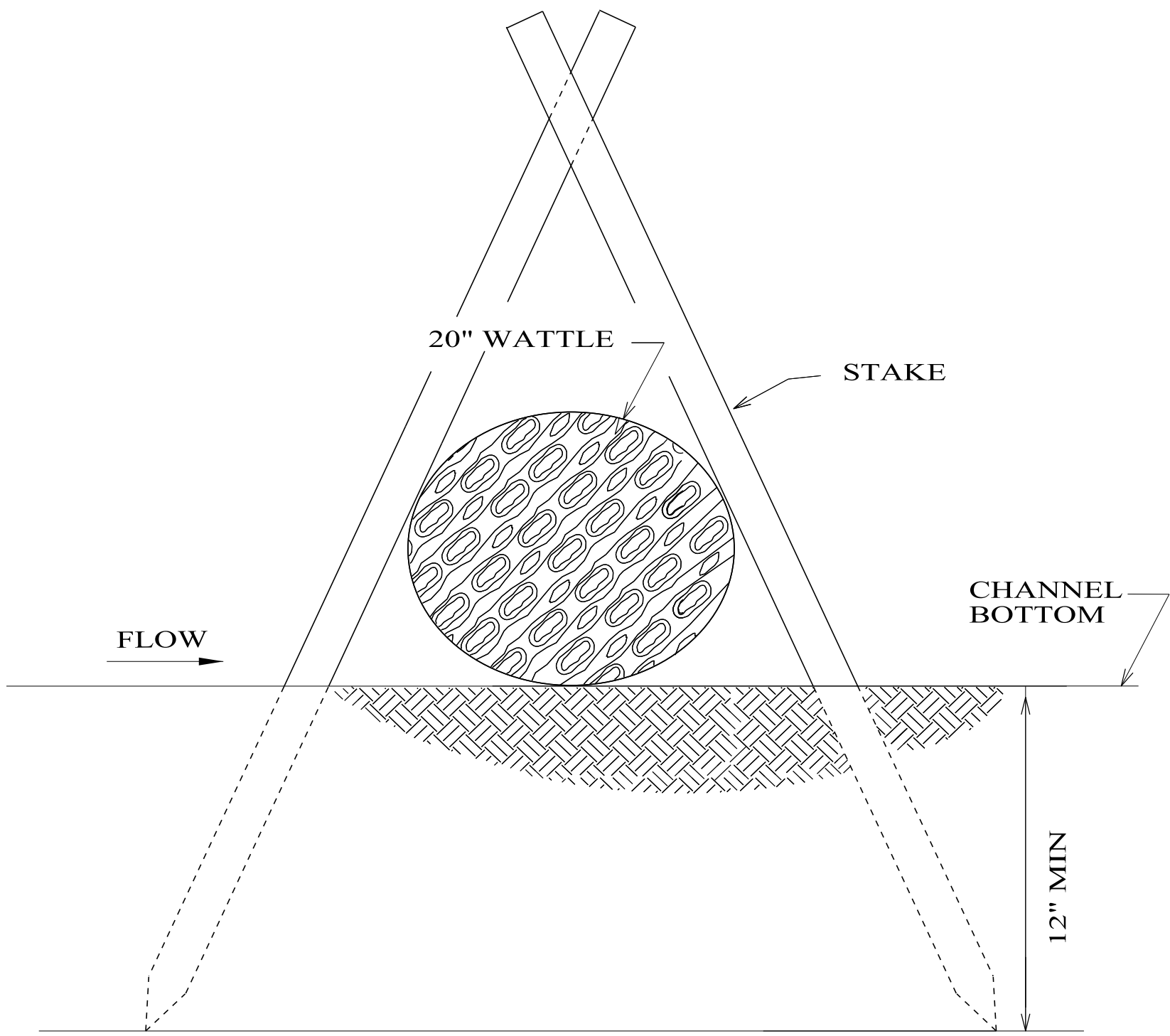
- FOUNDATION BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
- CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
- DURING STAGE 1 AND STAGE 2, SILT SENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
- IF SILT FENCING IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.
- FOR CURB INLET PROTECTION SEE SPECIAL DRAWING No ESC-400-3 AND SPECIAL DRAWING No ESC 400-5.
- SEE ALDOT LIST II-24 FOR APPROVED MANUFACTURED INLET PROTECTION DEVICES.



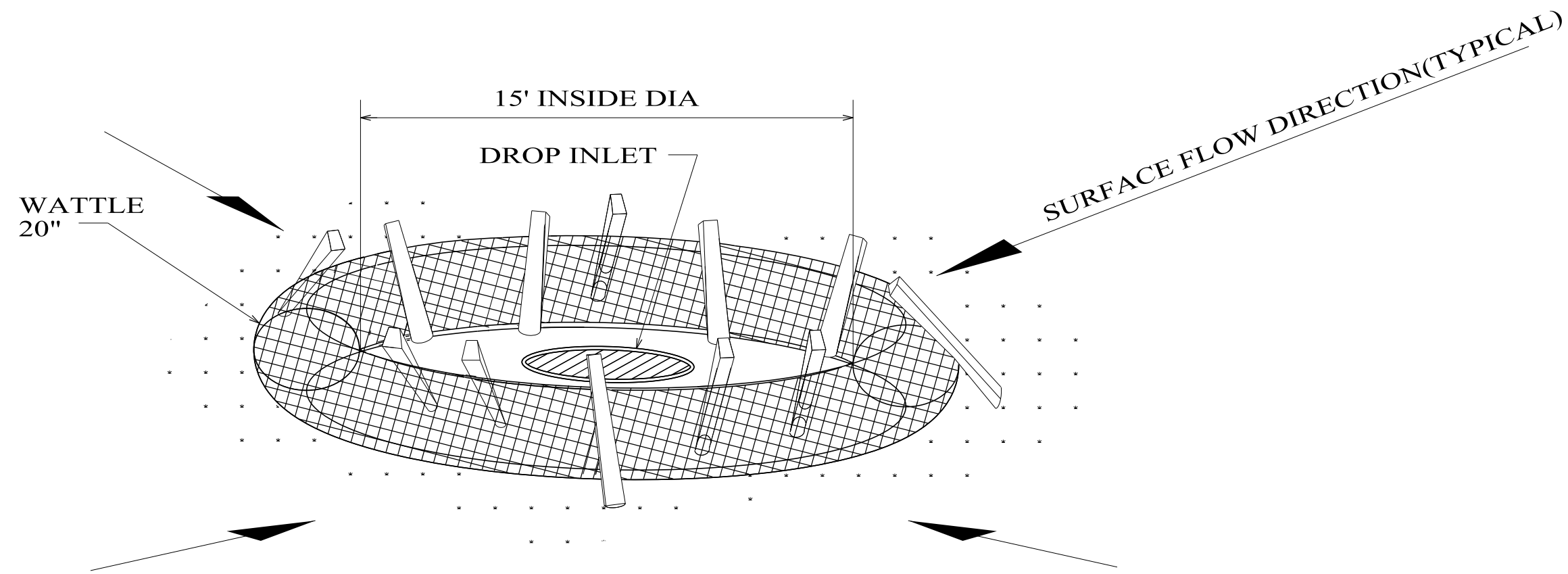
PLAN VIEW



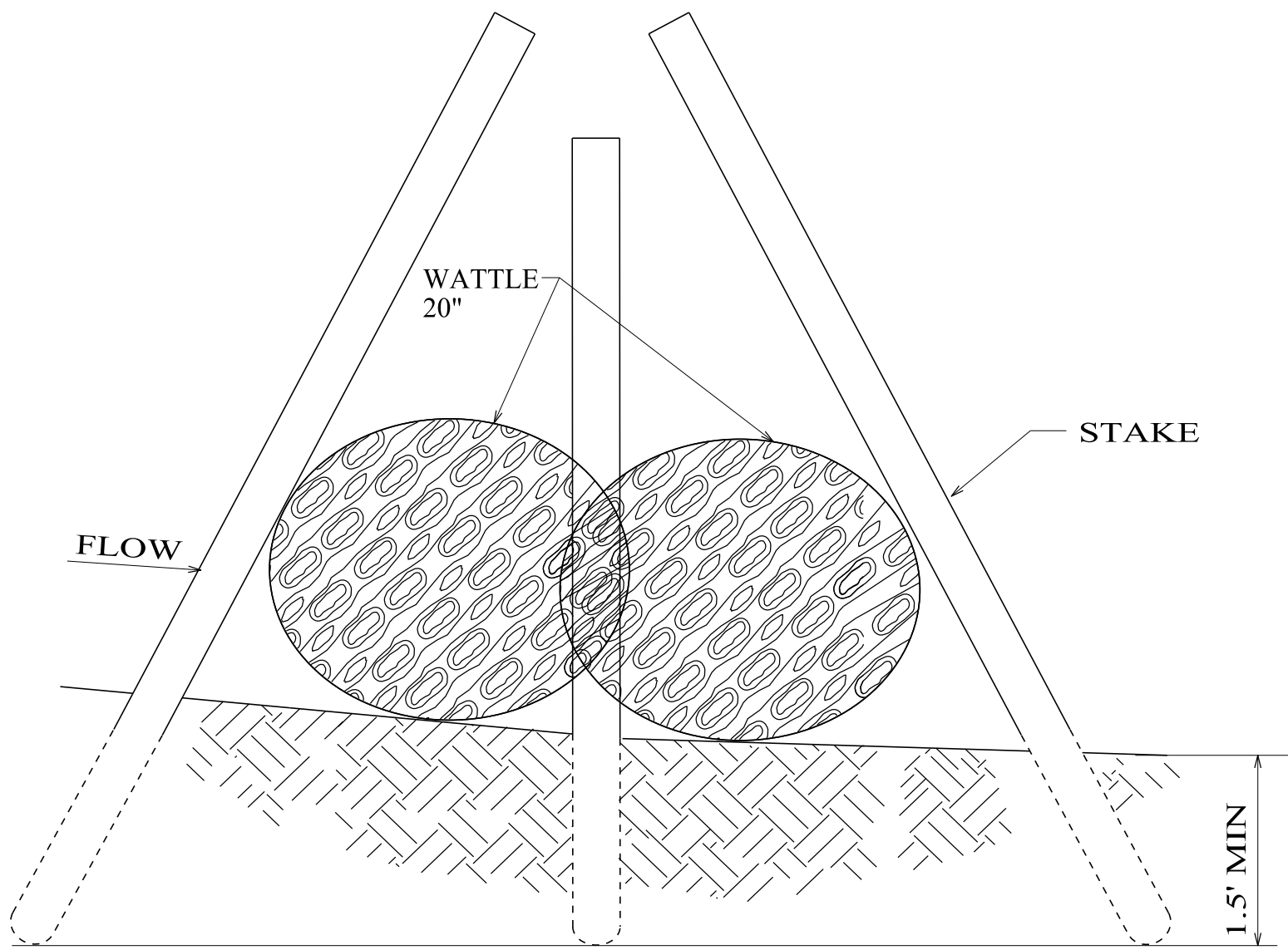
CURB INLET PROTECTION (STAGE 2)
SINGLE OR DOUBLE WING INLET



SECTION B-B

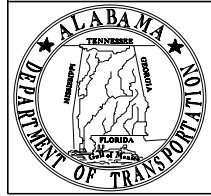


DROP INLET PROTECTION



SECTION A-A

- NOTES:
- ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
 - OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1'MIN,3'MAX).
 - SEE ALDOT LIST II-24 FOR APPROVED WATTLES.
 - SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.



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REVISIONS:
1. Revised note on "CURB INLET PROTECTION (STAGE 2)" from "5 OF 5" to "4 OF 4" and added "REQUIRED TRENCHING" on SECTION A-A and "SECTION B-B" on 8-24-2011 by J.F.T.
2. Revised and updated "CURB INLET PROTECTION (STAGE 2)", "DROP INLET PROTECTION", "SECTION A-A" and "SECTION B-B" to show new staking w/o

trenching on 9-24-2012 by J.F.T.
3. Deleted a "NOTE" and replaced and revised Note 4. Revised and updated "PLAN VIEW" on 7-11-2013 by J.F.T.
4. Updated Special Drawing No. from ESC-400 (SHEET 3 OF 5) to ESC-400-3 on 10-31-2016 by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
INLET PROTECTION DETAILS
OF WATTLES

NOT TO SCALE

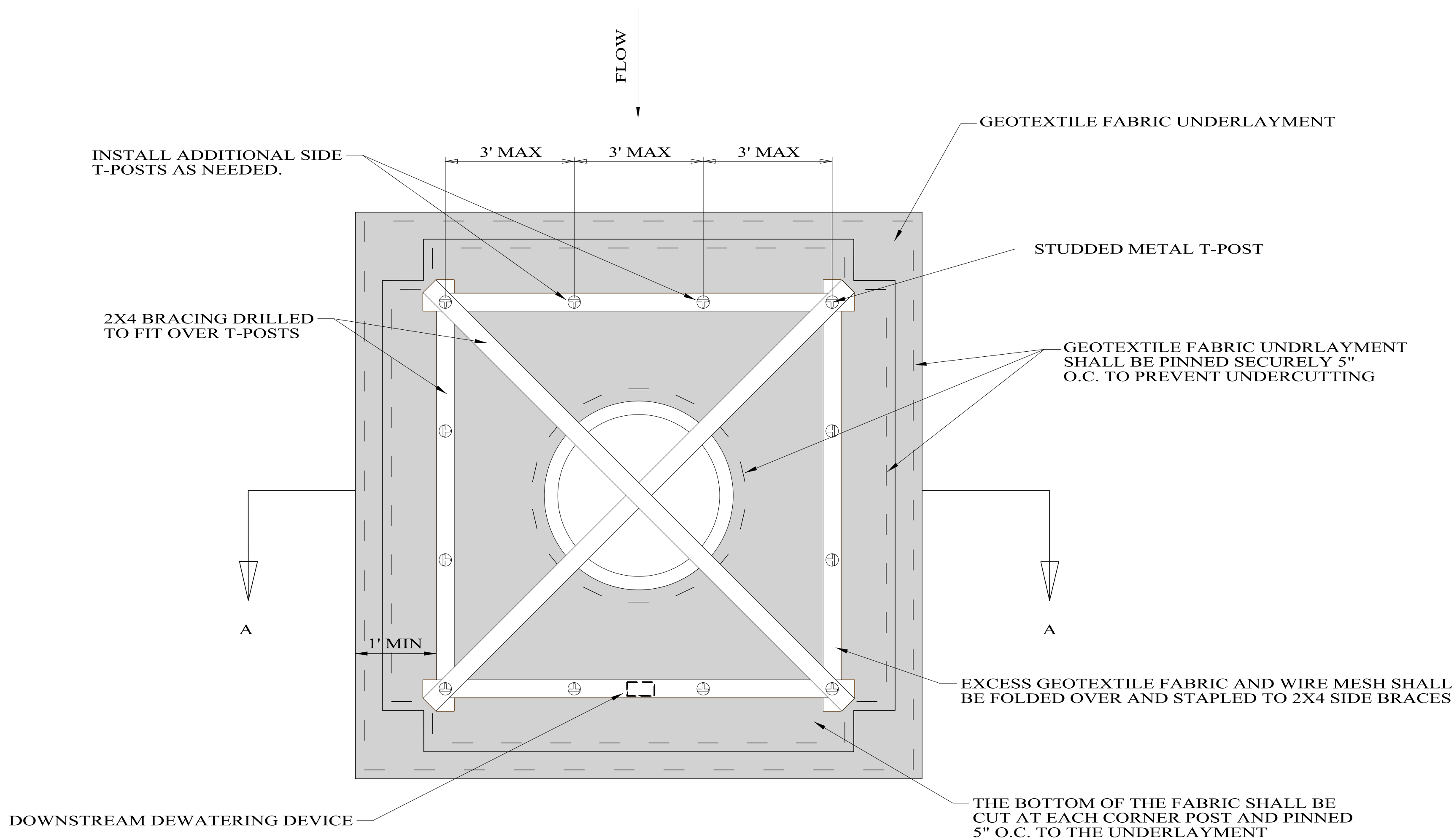
--SPECIFICATIONS--
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SPECIAL DRAWING NO

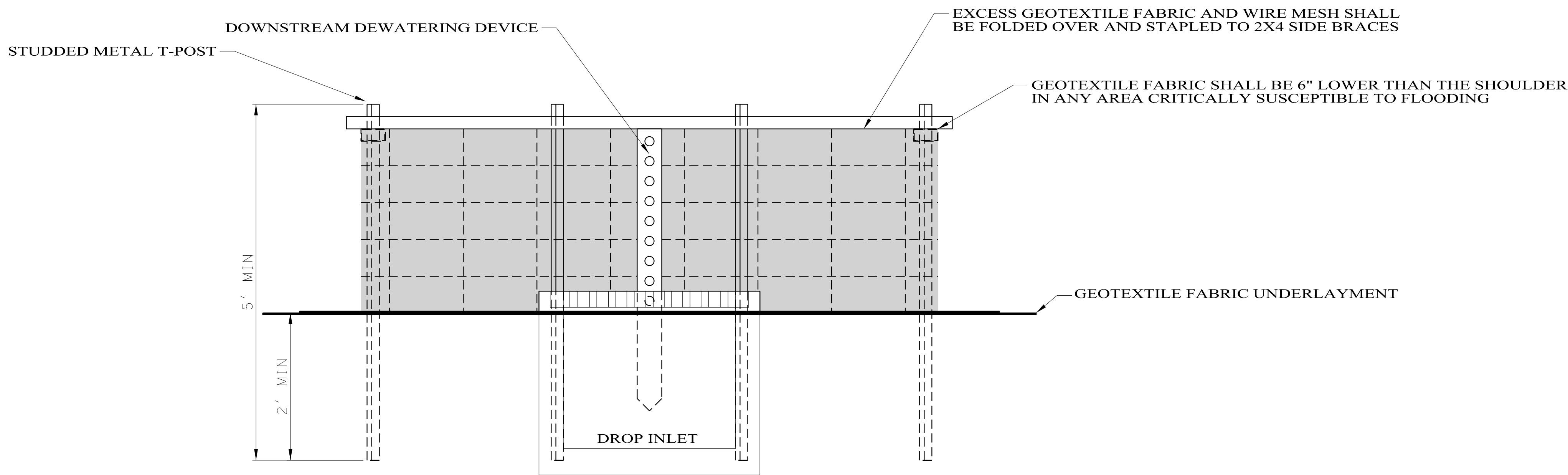
ESC-400-3

INDEX NO

66524



PLAN VIEW

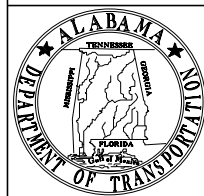


SECTION A-A

NOTES:

1. THE TOP OF THE REQUIRED GEOTEXTILE FABRIC SHALL BE 6" LOWER THAN THE SHOULDER ELEVATION IN ANY AREA CRITICALLY SUSCEPTIBLE TO FLOODING.
2. DEWATERING HOLES SHALL BE 1" - 1.5" IN DIAMETER AND SPACED 2" - 3" APART TO ALLOW FOR DEWATERING IN NO MORE THAN 48 HOURS.
3. FASTEN DEWATERING DEVICE TO THE 2X4 SIDE BRACE.
4. STAPLE GEOTEXTILE FABRIC TO DEWATERING DEVICE AND CUT CROSS SLITS IN THE FILTER FABRIC AT THE HOLE LOCATIONS TO ALLOW WATER TO FLOW THROUGH.
5. INLET PROTECTION DEVICE SHALL ONLY BE PAID AS INLET PROTECTION STAGE 3 OR 4.
6. SILT FENCE INLET PROTECTION SHALL NOT BE UTILIZED DURING STAGE 1 AND STAGE 2 INLET CONSTRUCTION. SEE SPECIAL DRAWING No ESC-400-1 FOR INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS.

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REVISIONS:

1.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2016
REVISED DATE:

DESIGN BUREAU SPECIAL DRAWING
INLET PROTECTION
DETAILS OF SILT FENCE

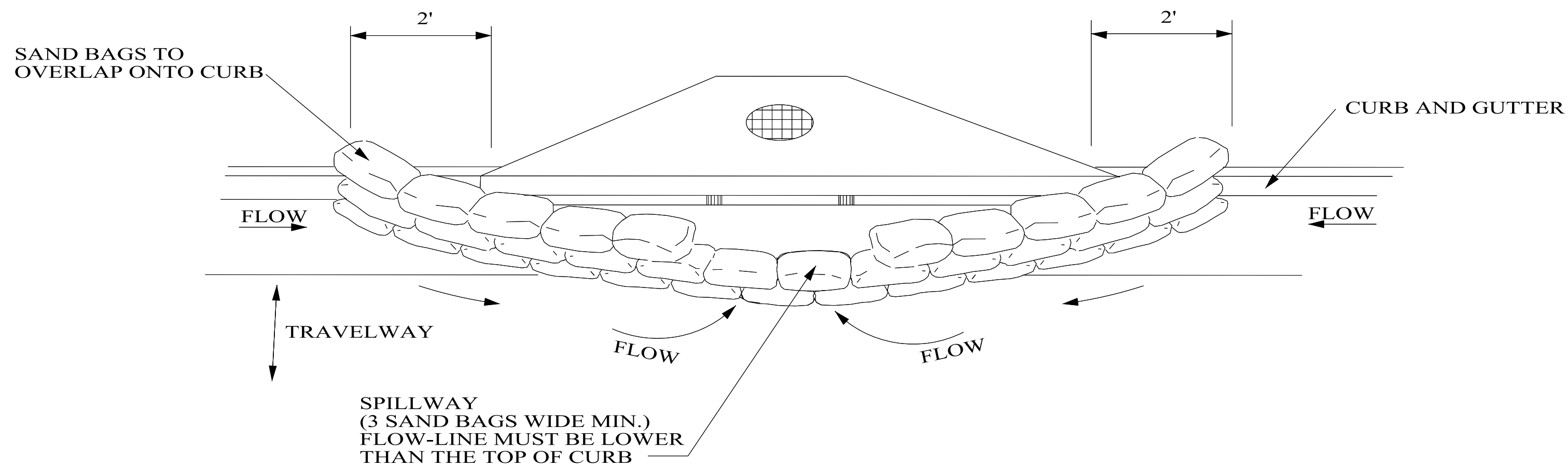
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

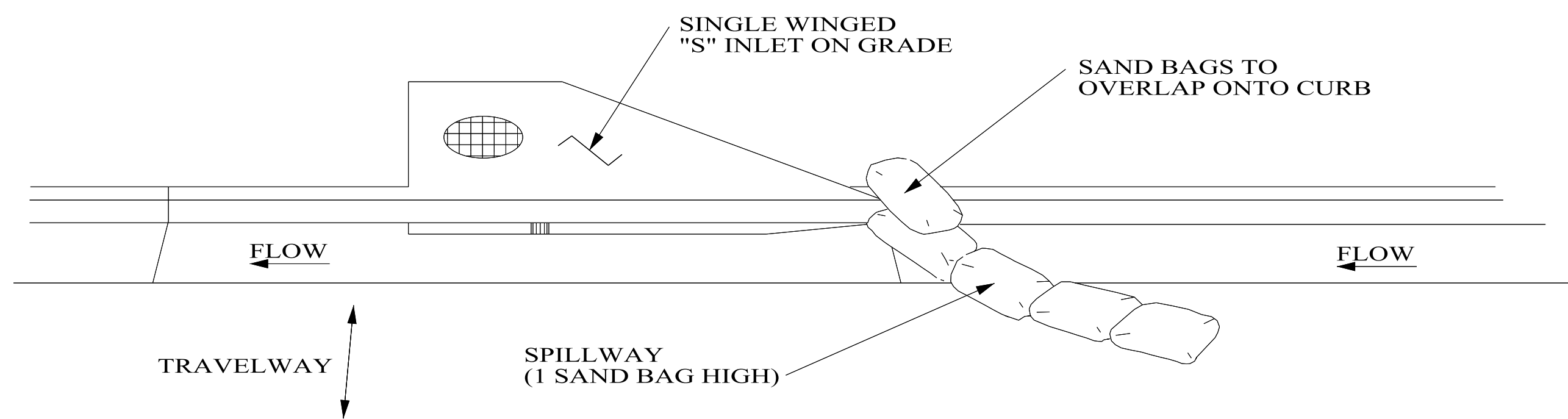
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INDEX NO

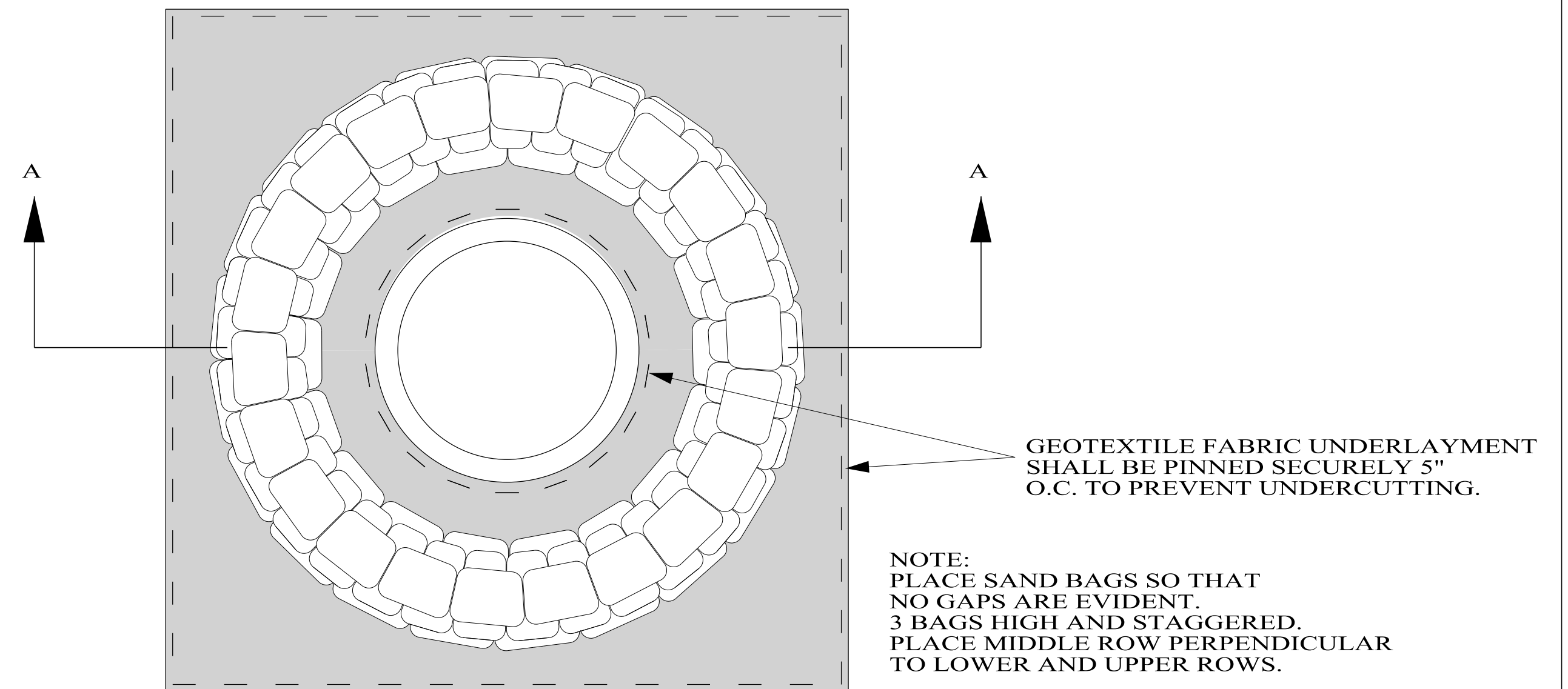
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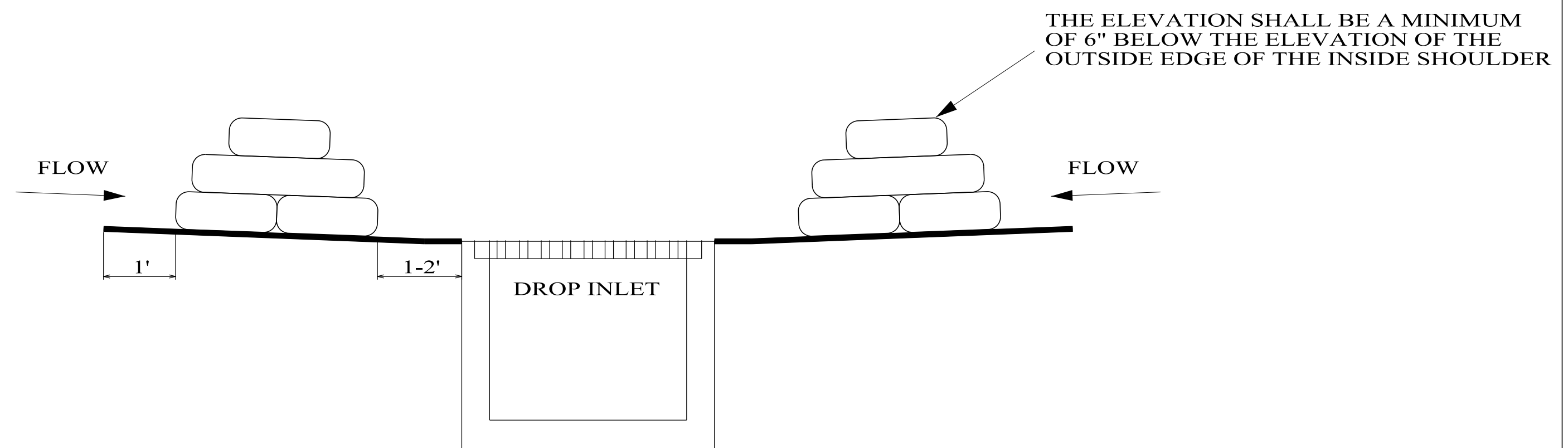
TYPICAL (SAND BAG) PROTECTION FOR INLET IN SAG



TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE



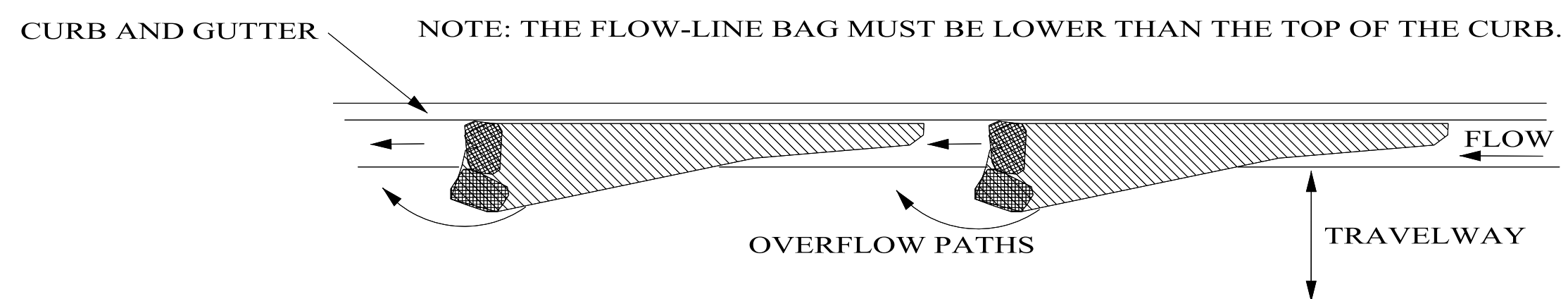
**DROP INLET
PLAN VIEW**



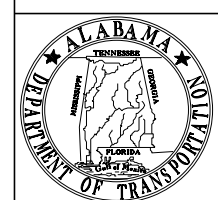
**SECTION A-A
SAND BAG BARRIER**

NOTES:

1. CURB INLET PROTECTION CAN ALSO BE USED AT OTHER EDGE-OF-PAVEMENT TYPE INLETS SUCH AS TYPE "E" INLETS AT MEDIAN BARRIER LOCATIONS.
2. SEE SHT ESC-400-3 FOR INLET PROTECTION WHERE INLET CONSTRUCTION HAS NOT BEEN COMPLETED.
3. THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND PAVEMENT CONSTRUCTION.
4. BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRAVELWAY.
5. SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER. GUTTER CHECKS AND INLET PROTECTION ARE FOR SECONDARY CONTROL.
6. REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD SURFACES AND DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
7. IF DENUDED AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLED AROUND IT'S PERIMETER TO CONTROL SEDIMENT. SEE SHT ESC-400-3.
8. PAYMENT FOR CURB INLET PROTECTION FOR WORK REQUIRED BEYOND STAGE 2 (SEE SHT ESC-400-3) WILL BE MADE AS APPROPRIATE FOR ITEMS USED.



**CURB AND GUTTER SEDIMENT
CONTAINMENT SYSTEM**



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REVISIONS:
1. Changes Notes No's 2, 7, and 8 from "SHT. 3 OF 5" to read "SHT. 3 OF 4" on 8-23-2011 by J.F.T.
2. Revised Note and Description Block on 8-6-2014 by J.F.T.
3. Changed Notes No's 2, 7, and 8 from "SHT. 3 OF 5" to read "ESC-400-3" on 10-31-2016 by J.M.M.

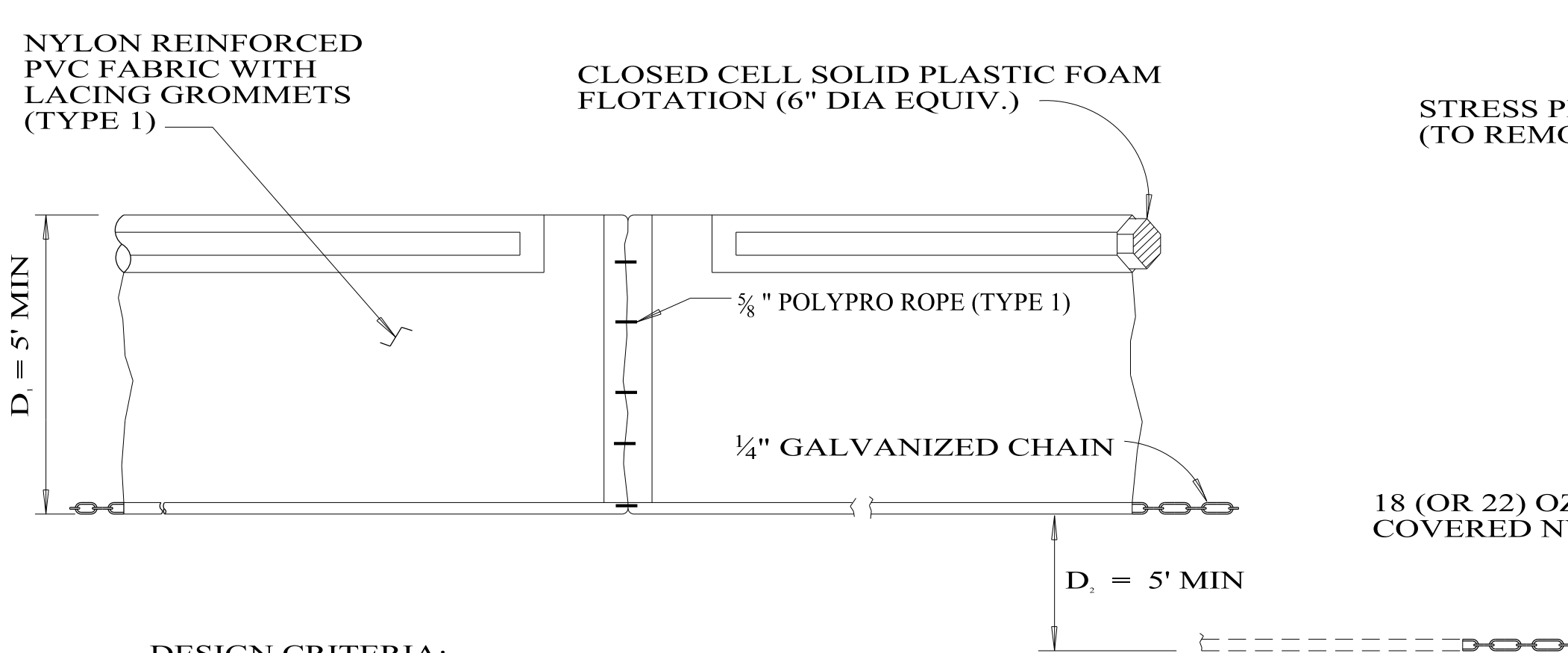
4. Changed PLAN VIEW, SECTION A-A, and note at lower right corner of PLAN VIEW, also added two callouts on 10-31-2016 by J.M.M.
5. Updated Special Drawing No. from ESC-400 (SHEET 5 OF 5) to ESC-400-5 and others using same pattern on 10-31-2016 by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
**INLET PROTECTION
DETAILS OF SAND BAGS**

NOT TO SCALE

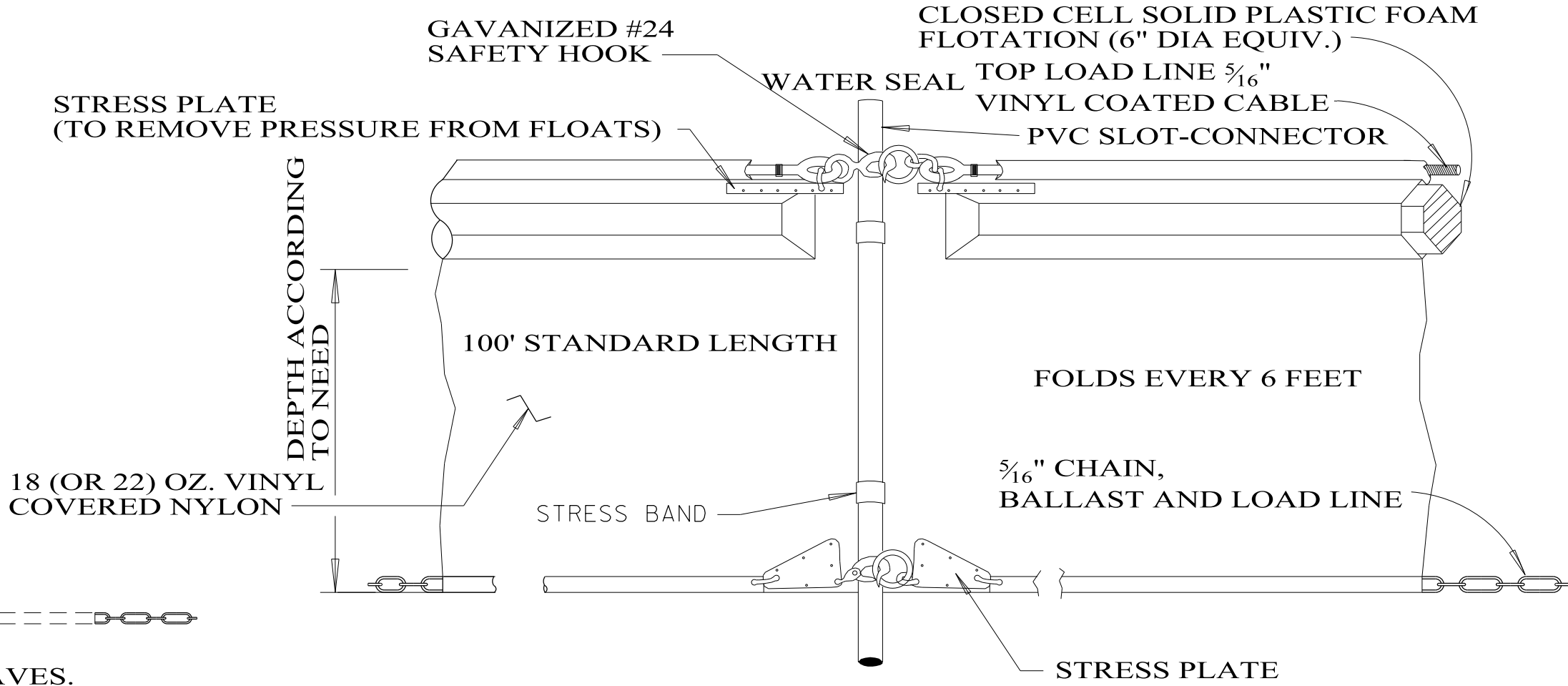
--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		
SPECIAL DRAWING NO	INDEX NO	
ESC-400-5	66526	



DESIGN CRITERIA:
TYPE 1 CONFIGURATION SHOULD BE USED IN PROTECTED AREAS WHERE THERE IS NO CURRENT AND THE AREA IS SHELTERED FROM WIND AND WAVES.

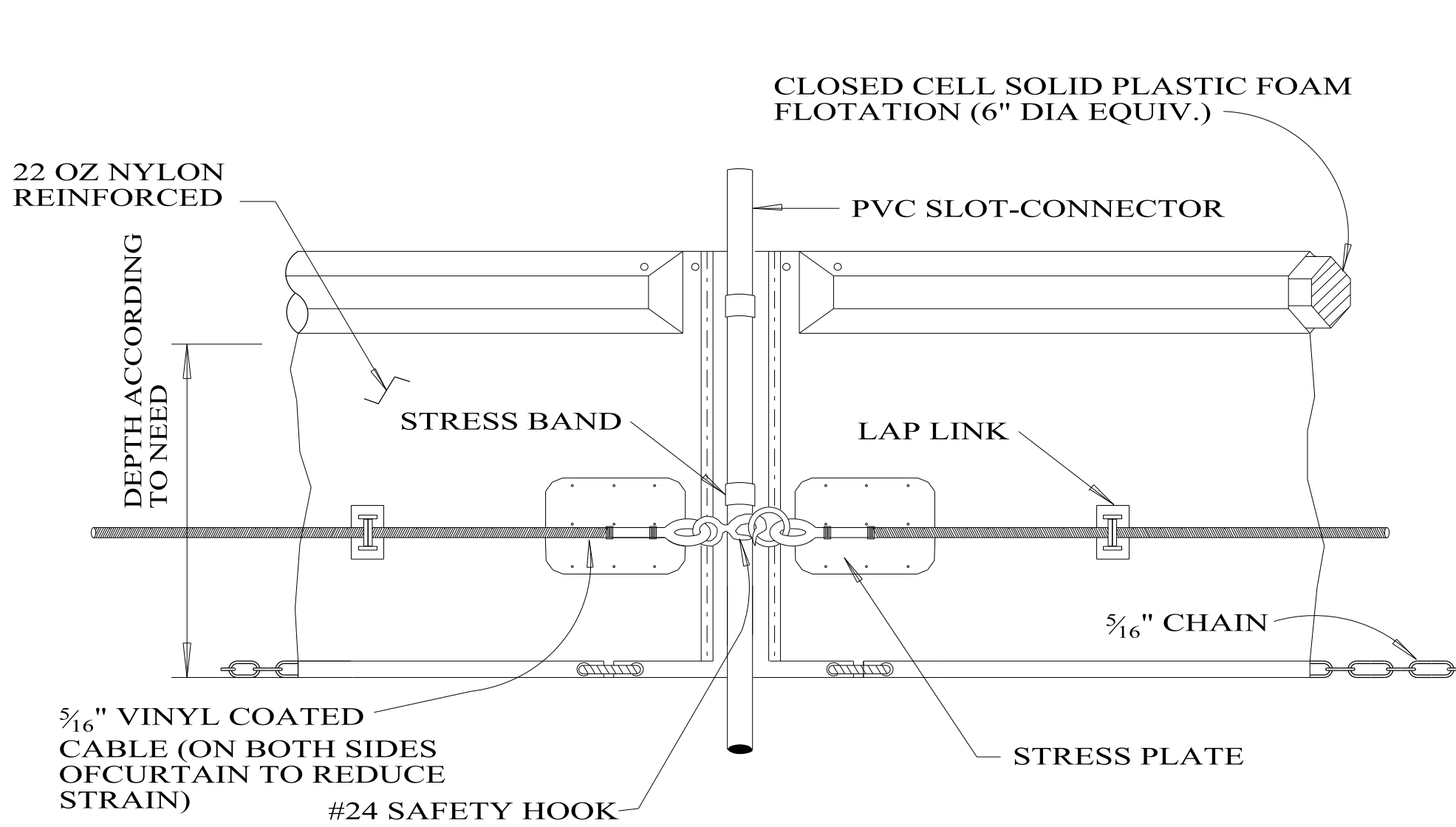
D = (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D = (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

TYPE 1



TYPE 2 CONFIGURATION SHOULD BE USED IN PROTECTED AREAS WHERE THERE MAY BE SMALL TO MODERATE CURRENT RUNNING ($\leq 3.5'$ PER SECOND) AND/OR WIND AND WAVE ACTION CAN AFFECT THE CURTAIN.

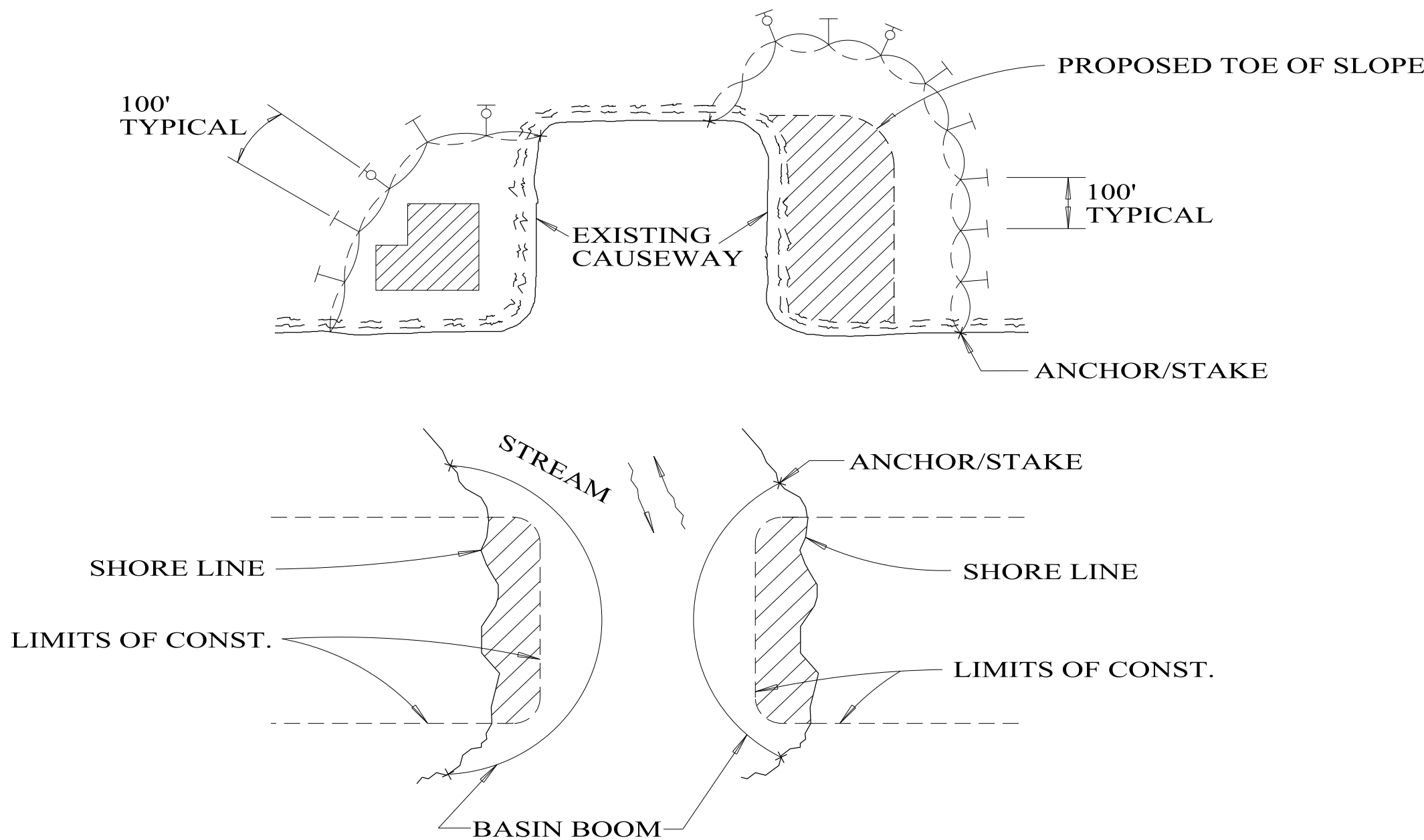
TYPE 2



TYPE 3 CONFIGURATION SHOULD BE USED IN AREAS WHERE CONSIDERABLE CURRENT ($\leq 5'$ PER SECOND) MAY BE PRESENT, WHERE TIDAL ACTION MAY BE PRESENT, AND/OR WHERE THE CURTAIN IS POTENTIALLY SUBJECT TO WIND AND WAVE ACTION.

TYPE 3

TYPICAL FLOATING BASIN BOOM INSTALLATION



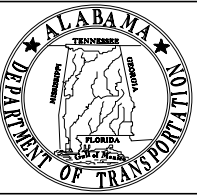
LEGEND

- DREDGE, FILL OR WORK AREA
- MOORING BOUY W/ ANCHOR
- ANCHOR

NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR SELECTION OF THE APPROPRIATE TYPE OF FLOATING BASIN BOOM AND INSTALLATION METHODS BASED ON WATER BODY CONDITIONS.
- FLOATING BASIN BOOMS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS.
- FLOATING BASIN BOOMS CAN BE STAKED AND/OR ANCHORED IN STILL OR MOVING WATERS.
- FLOATING BASIN BOOMS ARE INTENDED TO PREVENT SEDIMENT MIGRATION WITHIN THE WATER BODY. THEY ARE NOT INTENDED TO BE INSTALLED AS THE PRIMARY SEDIMENT CONTROL METHOD, OR TO CAPTURE SEDIMENT FROM UPLAND AREAS AS A PRIMARY FUNCTION. OTHER UPLAND EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE INCORPORATED AS PROVIDED IN THE PLANS AND STANDARD DRAWINGS.
- FLOATING BASIN BOOM SHOWN MAY BE SIMILAR TO PROPRIETARY DESIGNS. FUNCTIONALLY EQUIVALENT DESIGNS MEETING CONTRACT REQUIREMENTS MAY ALSO BE USED.

FLOATING BASIN BOOM APPLICATIONS



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REVISIONS:

1.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE:

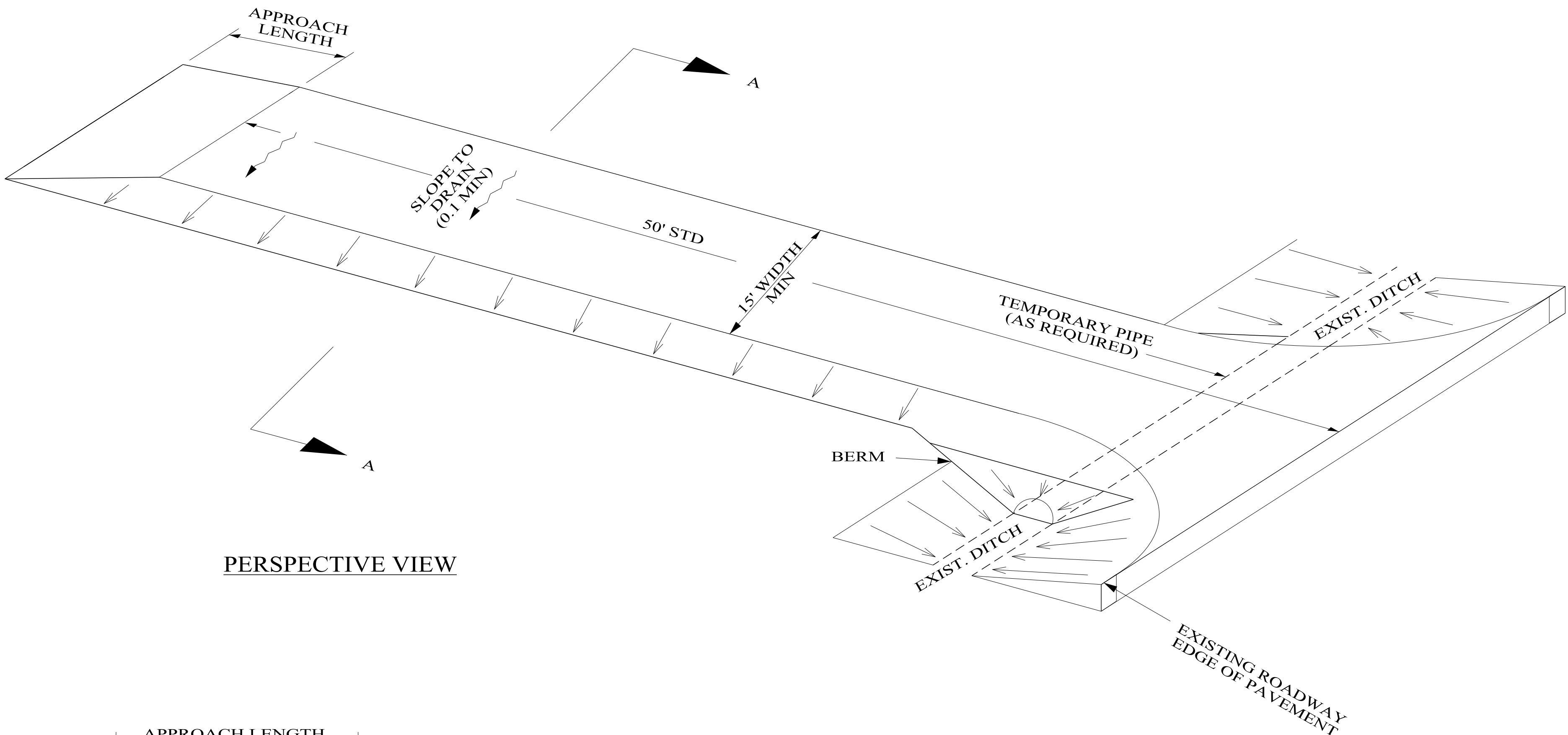
DESIGN BUREAU SPECIAL DRAWING
FLOATING BASIN BOOM

NOT TO SCALE

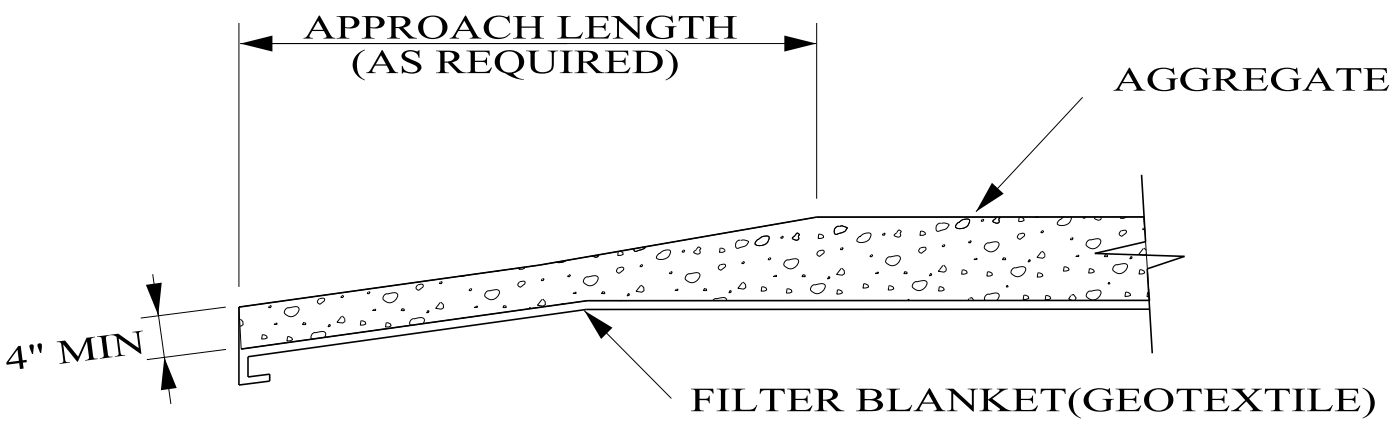
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-501

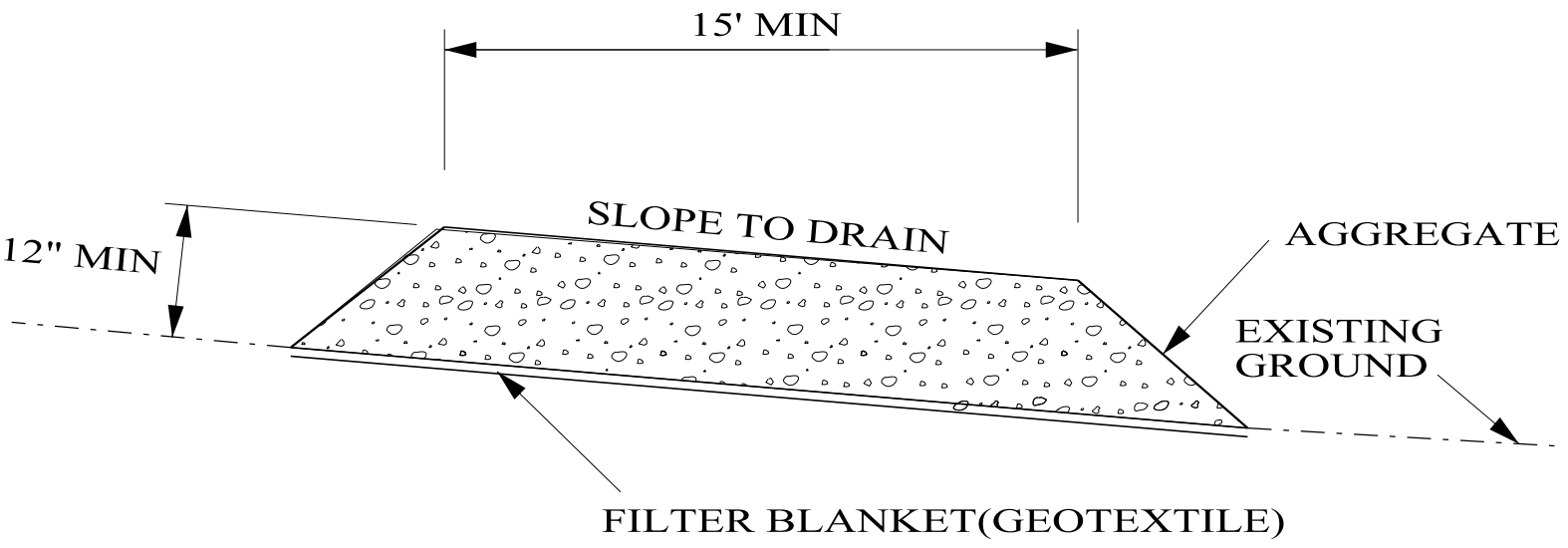
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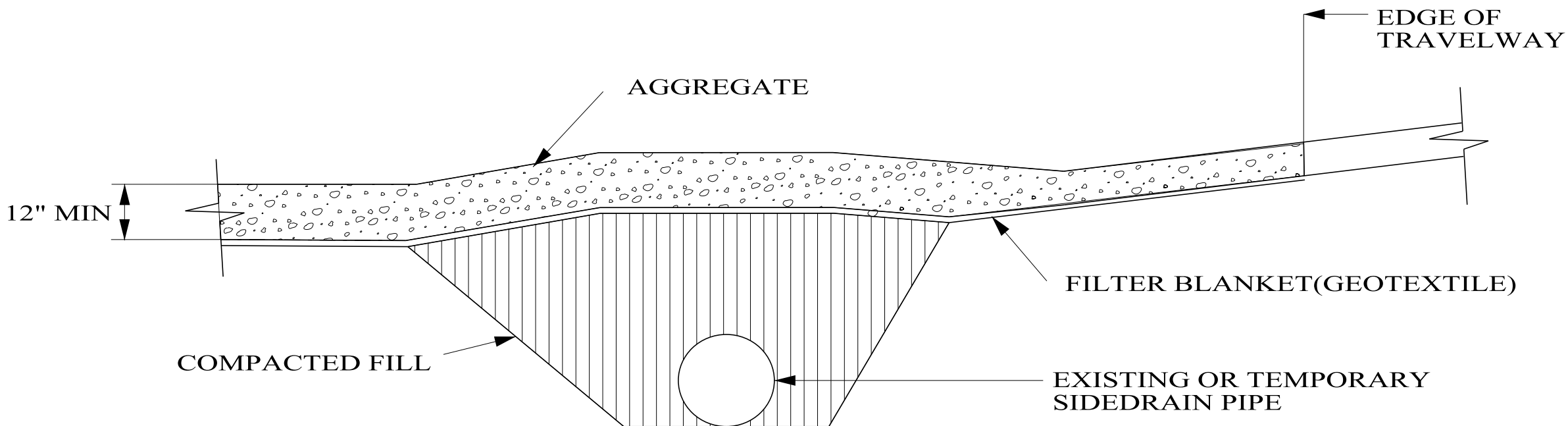
PERSPECTIVE VIEW



TRANSITION DETAIL



SECTION A-A



RURAL CONNECTION DETAIL

- NOTES:
1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE EROSION SEDIMENT CONTROL SHEETS OR AS APPROVED BY THE ENGINEER BASED ON SAFETY, ECONOMY AND CONSTRUCTION SEQUENCE. THESE ENTRANCES ARE POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFFSITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE PROJECT SHALL BE DIRECTED THRU THE STABILIZED ENTRANCE. BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STABILIZED ENTRANCE.
 2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO IT'S USE.
 3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
 4. AGGREGATES SHALL BE ALDOT SIZE #1. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.
 5. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM IT'S FUNCTION TO PREVENT OFFSITE TRACKING. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE RINSED WHEN NECESSARY TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STABILIZED ENTRANCE MAY BE REQUIRED TO LIMIT THE MUD TRACKED.
 6. THE NOMINAL SIZE OF A STANDARD STABILIZED CONSTRUCTION ENTRANCE IS 15' X 50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXITING VEHICLES WARRANT, A 30' WIDTH MAY BE USED IF APPROVED BY THE ENGINEER.



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REVISIONS:
1. Changed Plan View to Perspective View & revised Note 1 on 8-24-2011 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY: _____
DATE DRAWN: 2006
REVISED DATE: 8-24-2011

DESIGN BUREAU SPECIAL DRAWING
STABILIZED CONSTRUCTION ENTRANCE

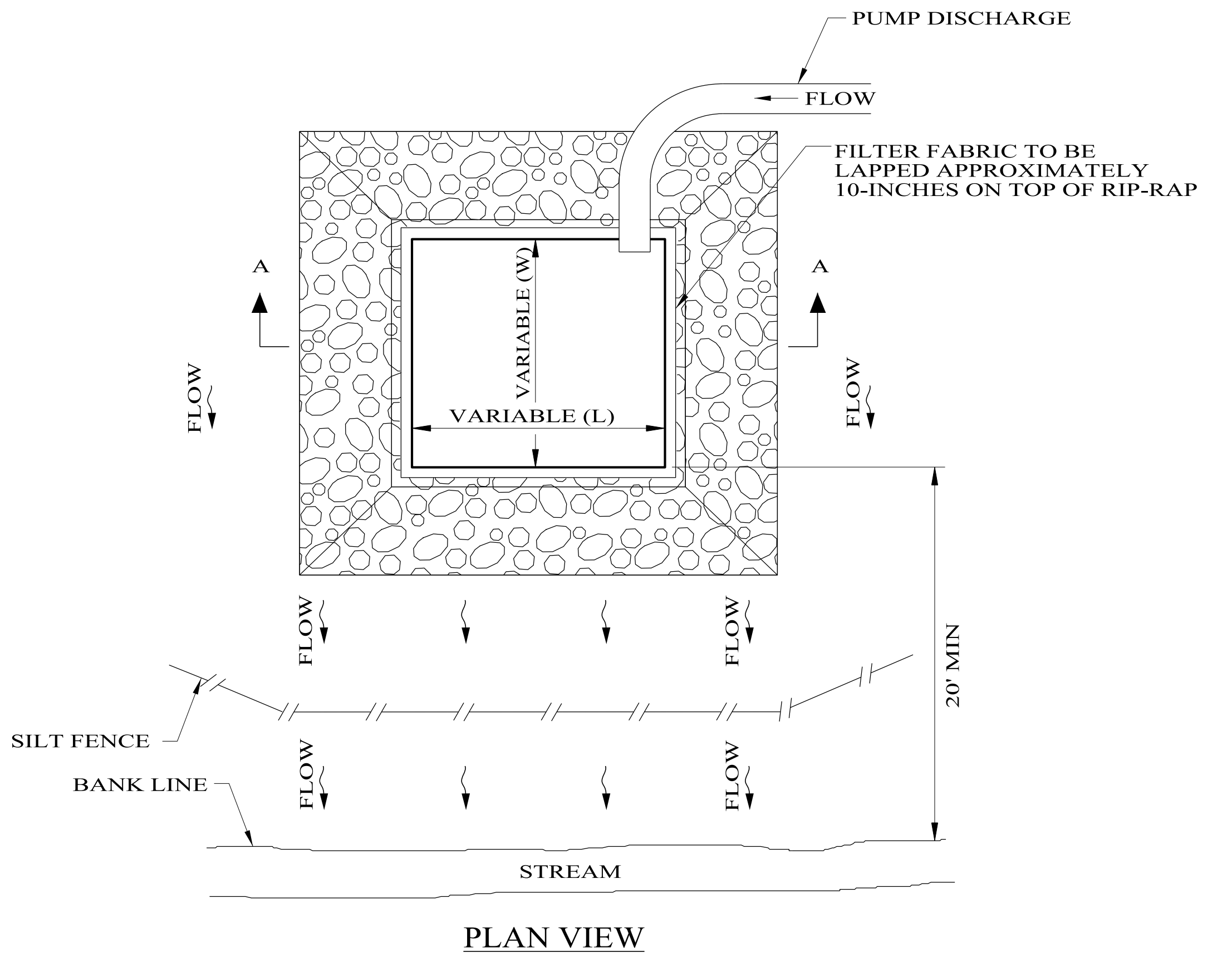
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SPECIAL DRAWING NO

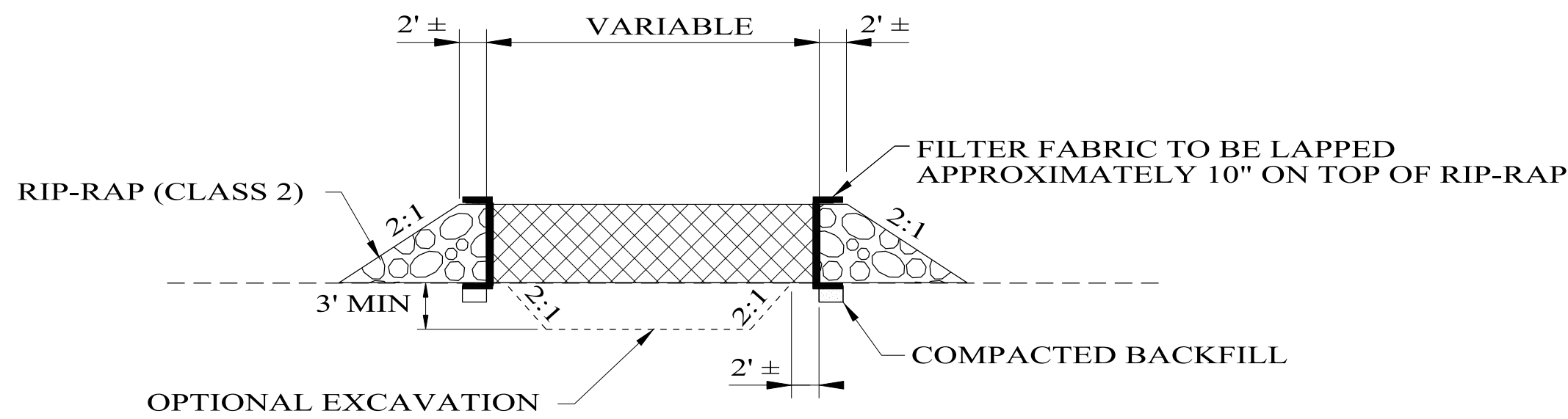
ESC-502

INDEX NO

66532



PLAN VIEW

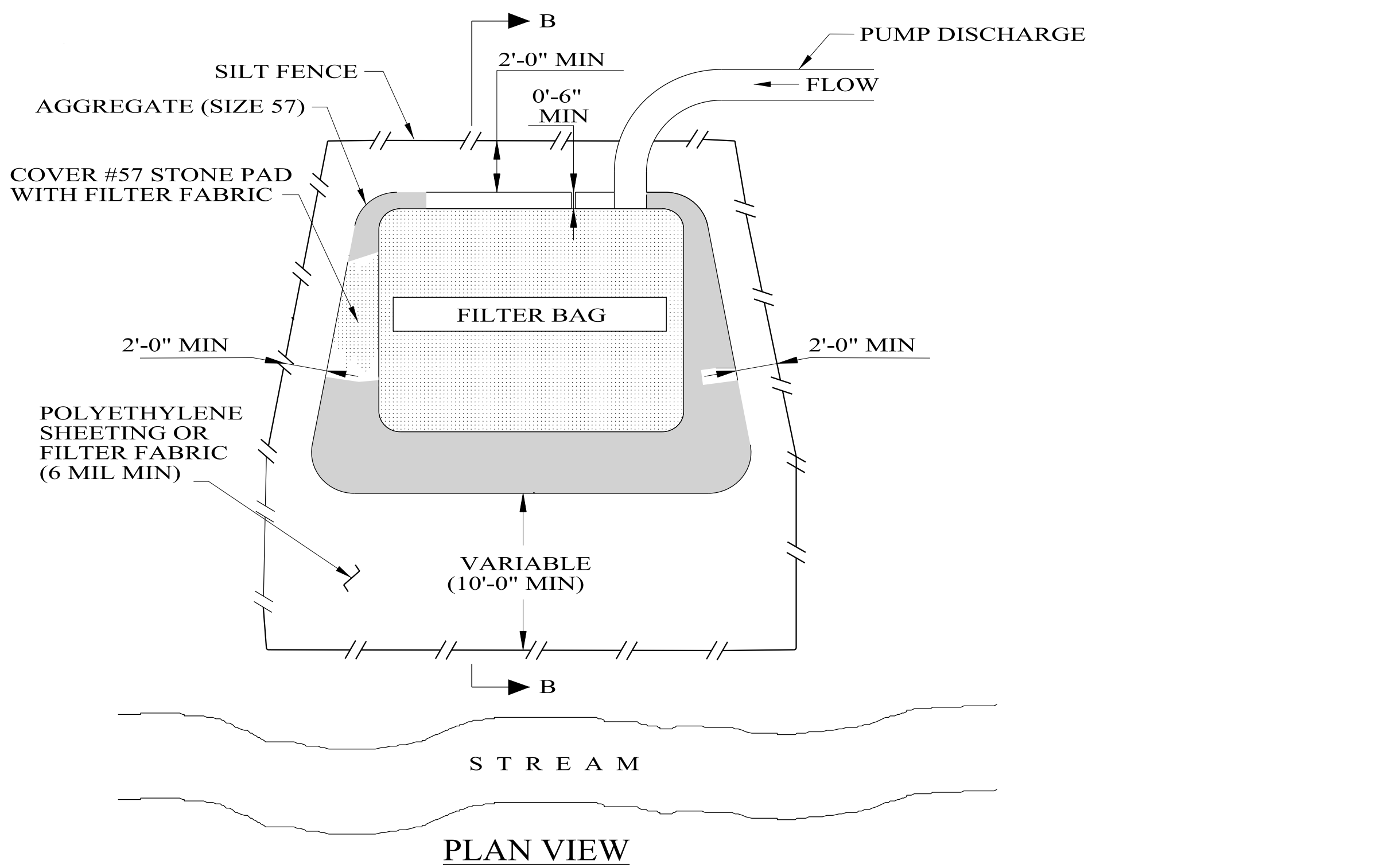


SECTION A-A

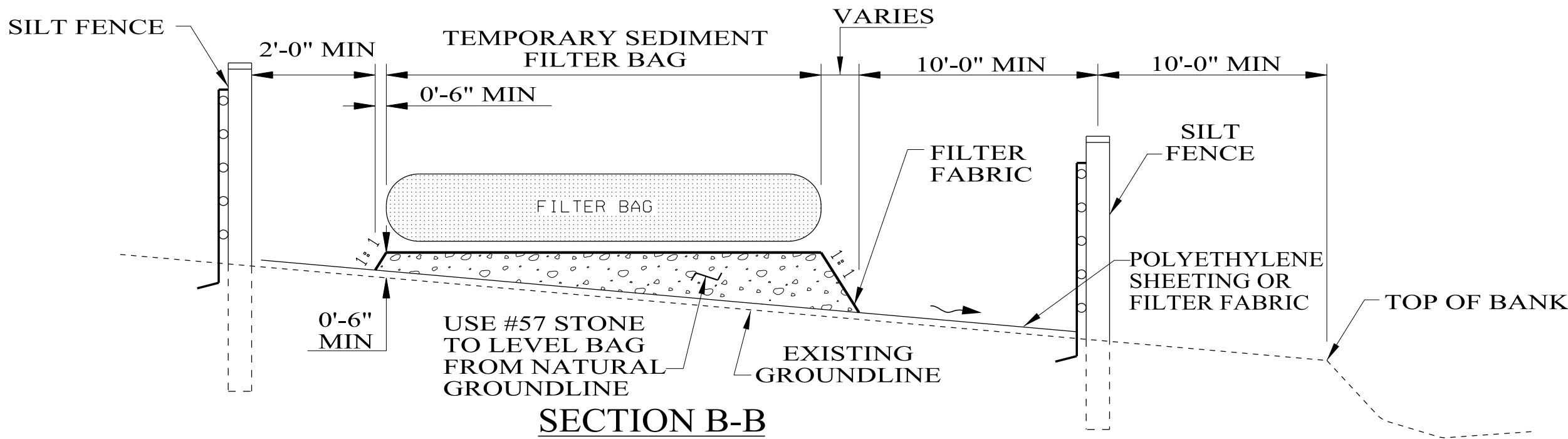
**TEMPORARY DEWATERING STRUCTURE
(BERM AND FABRIC)**

NOTES:

1. THE PRIMARY USE OF THE TEMPORARY DEWATERING STRUCTURE IS FOR DEWATERING COFFERDAMS, TRENCHES, SPREAD FOOTINGS, ENCLOSED DITCHES, ETC.
2. THE ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE BASIN IS HALF FULL.
3. DIVERT ANY STORMWATER AWAY FROM THE TEMPORARY DEWATERING STRUCTURES.
4. THE USE OF SOCKS TO COLLECT SEDIMENT WHEN PUMPING FROM TEMPORARY DEWATERING STRUCTURE INTO AN ADJACENT STREAM MAY BE USED WHEN APPROVED BY THE ENGINEER.
5. INSTALL SILT FENCE BETWEEN STREAM AND/OR DRAINAGE DITCH AND THE TEMPORARY DEWATERING STRUCTURE.
6. TRENCH FILTER FABRIC INTO GROUND, 6" MIN.
7. THE DETAILS SHOWN ARE OPTIONAL RECOMMENDATIONS, BUT NOT MANDATORY.



PLAN VIEW



SECTION B-B

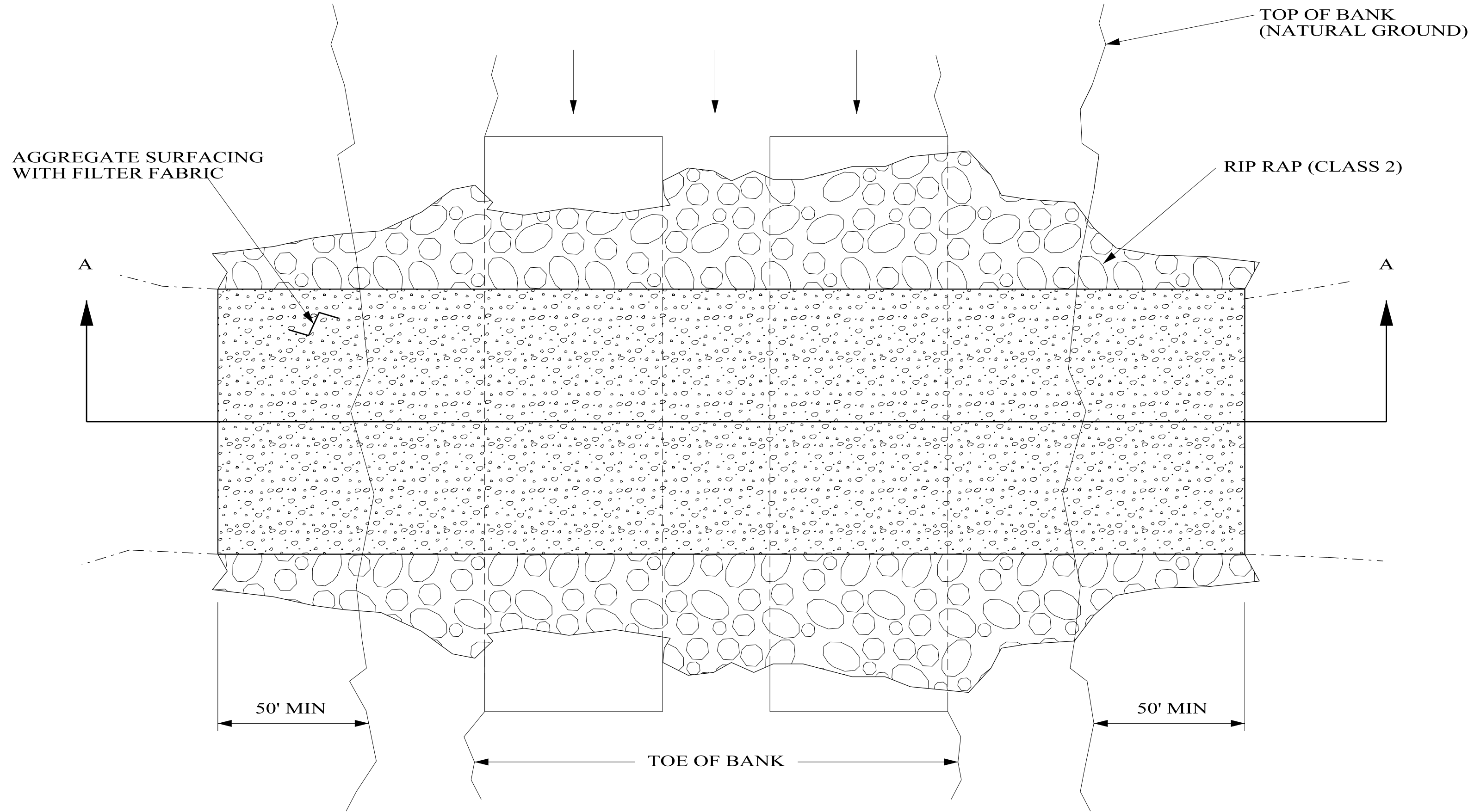
TEMPORARY DEWATERING STRUCTURE (FILTER BAG)

NOTES:

1. FILTER BAGS ARE TYPICALLY USED FOR DEWATERING COFFER DAMS, TRENCHES, SPREAD FOOTINGS AND ENCLOSED DITCHES ETC. IN URBAN AREAS AND NEAR SENSITIVE WATER BODIES.
2. THE CONTRACTOR SHALL EXERCISE NOT TO BURST OR DAMAGE THE TEMPORARY SEDIMENT FILTER BAG WHEN PUMPING.
3. SEDIMENT SHOULD BE DISPOSED OF IN UPLAND AREAS AWAY FROM WATER BODIES. AFTER REMOVAL OF ACCUMULATED SEDIMENT. DISPOSE OF THE FILTER FABRIC BAG WITH OTHER ITEMS OF CONSTRUCTION DEBRIS.
4. FILTER BAGS MAY ALSO BE PLACED IN AN EXCAVATED PIT FOR REDUNDANCY.
5. THE DETAILS SHOWN ARE OPTIONAL RECOMMENDATIONS, BUT NOT MANDATORY.

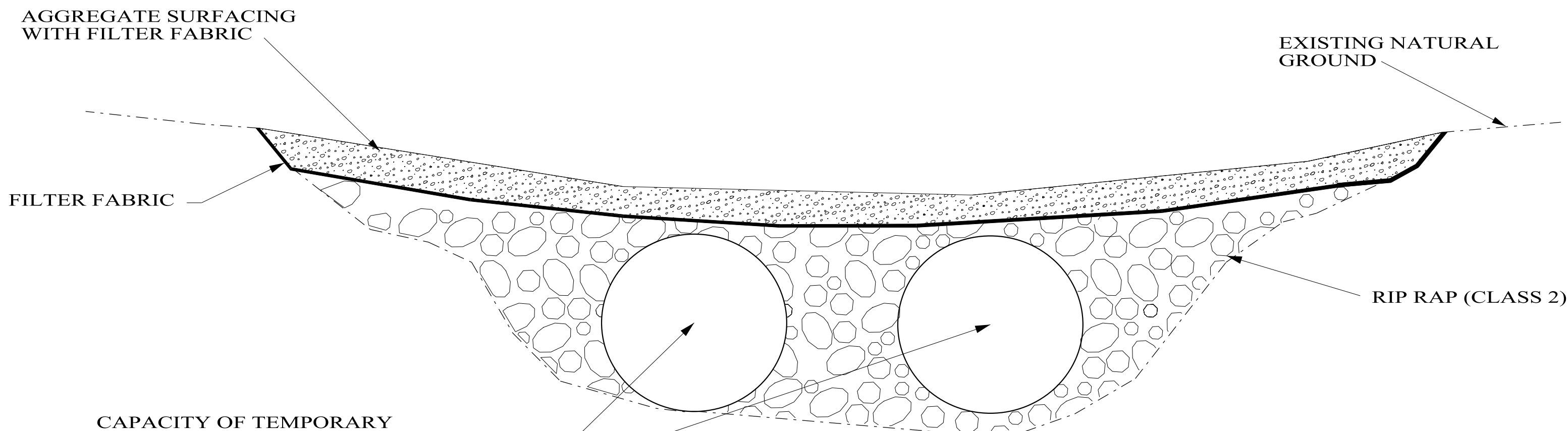
TEMPORARY DEWATERING STRUCTURE VOLUMES				
PUMP		RATE		STUCTURE VOLUME REQUIRED (CUBIC FEET)
TYPE	(DIA.)	MANUF. CAPACITY	GPM (GALLONS PER MINUTE)	
CONSTRUCTION	2 IN	8,400 GPH	140 GPM	2,240 CF
	3 IN	15,600 GPH	260 GPM	4,160 CF
	4 IN	30,000 GPH	500 GPM	8,000 CF
	6 IN	66,000 GPH	1,100 GPM	17,600 CF

VOLUME OF DEWATERING STRUCTURE SHOWN IN EROSION AND SEDIMENT CONTROL PLANS IS TO BE BASED ON USE OF 4 INCH CONSTRUCTION PUMP SHOWN IN THE ABOVE TABLE.



PLAN VIEW

TEMPORARY CULVERT STREAM CROSSING

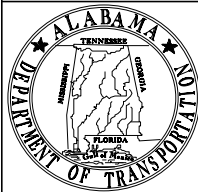


SECTION A-A

NOTES:

1. TEMPORARY CULVERT STREAM CROSSINGS PROVIDE A MEANS FOR VEHICLES AND EQUIPMENT TO SAFELY CROSS A WATERCOURSE WHILE MINIMIZING DAMAGE TO THE CHANNEL AND/OR BANKS.
2. TEMPORARY CULVERT STREAM CROSSINGS, WHEN PERMITTED BY THE ENGINEER, SHALL BE CONSTRUCTED TO SAFELY PASS EXPECTED MEAN WATER FLOW OF THE STREAM FOR THE TIME OF YEAR AND LENGTH OF TIME THAT THEY ARE INSTALLED.
3. TEMPORARY STREAM CROSSINGS SHALL BE DESIGNED TO ENSURE STRUCTURAL INTEGRITY AND STABILITY, AND MAINTAIN NORMAL DOWNSTREAM FLOWS. THE USE OF INSTREAM CROSSINGS AND INSTREAM AGGREGATE FILL SHALL BE MINIMIZED TO THE EXTENT PRACTICABLE.
4. A CONTINUOUS PROGRAM OF EFFECTIVE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO AND CONCURRENT WITH ANY TYPE OF CONSTRUCTION ACTIVITY WITHIN THE BANKS OF A STREAM. WHEN A CROSSING IS NO LONGER NEEDED, THE STREAMBED AND STREAM BANKS SHALL BE RESTORED TO PRE-DISTURBANCE CONDITIONS, OR SUCH A CONDITION THAT PROVIDES SUBSTANTIALLY EQUIVALENT PROTECTION OF WATER QUALITY.
5. LOCATIONS OR TYPES OF TEMPORARY CULVERT STREAM CROSSINGS WILL NOT BE SHOWN ON THE PLANS AS REQUIRED ITEMS NOR WILL REQUIREMENTS FOR MATERIALS OR CONSTRUCTION BE FOUND IN THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR MAY PROPOSE OTHER OPTIONS FOR TEMPORARY STREAM CROSSINGS SUCH AS STEEL/TIMBER BRIDGE, FORD OR MATS.
7. THE DETAILS PROVIDED DEPICT A TYPICAL TEMPORARY CULVERT STREAM CROSSING. THE DETAILS SHOWN ARE OPTIONAL RECOMMENDATIONS, BUT NOT MANDATORY. PERMITTING APPROVAL REQUIREMENTS MAY PROHIBIT THE PLACEMENT OF MATERIAL WITHIN STREAM BANKS.
8. CONTRACTOR SHALL SUBMIT DETAILED STREAM CROSSING PLAN IN ACCORDANCE WITH ALDOT SPECIFICATION SECTION 107.23.

NOT TO SCALE



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REVISIONS:
1. Corrected Section A-A to show the low point in the center of the Channel and expanded Note No. 7 on 7-12-2007 by W.W.A.
2. Added Note 8 on 8-23-2011 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 8-23-2011

DESIGN BUREAU SPECIAL DRAWING
TEMPORARY CULVERT
STREAM CROSSING

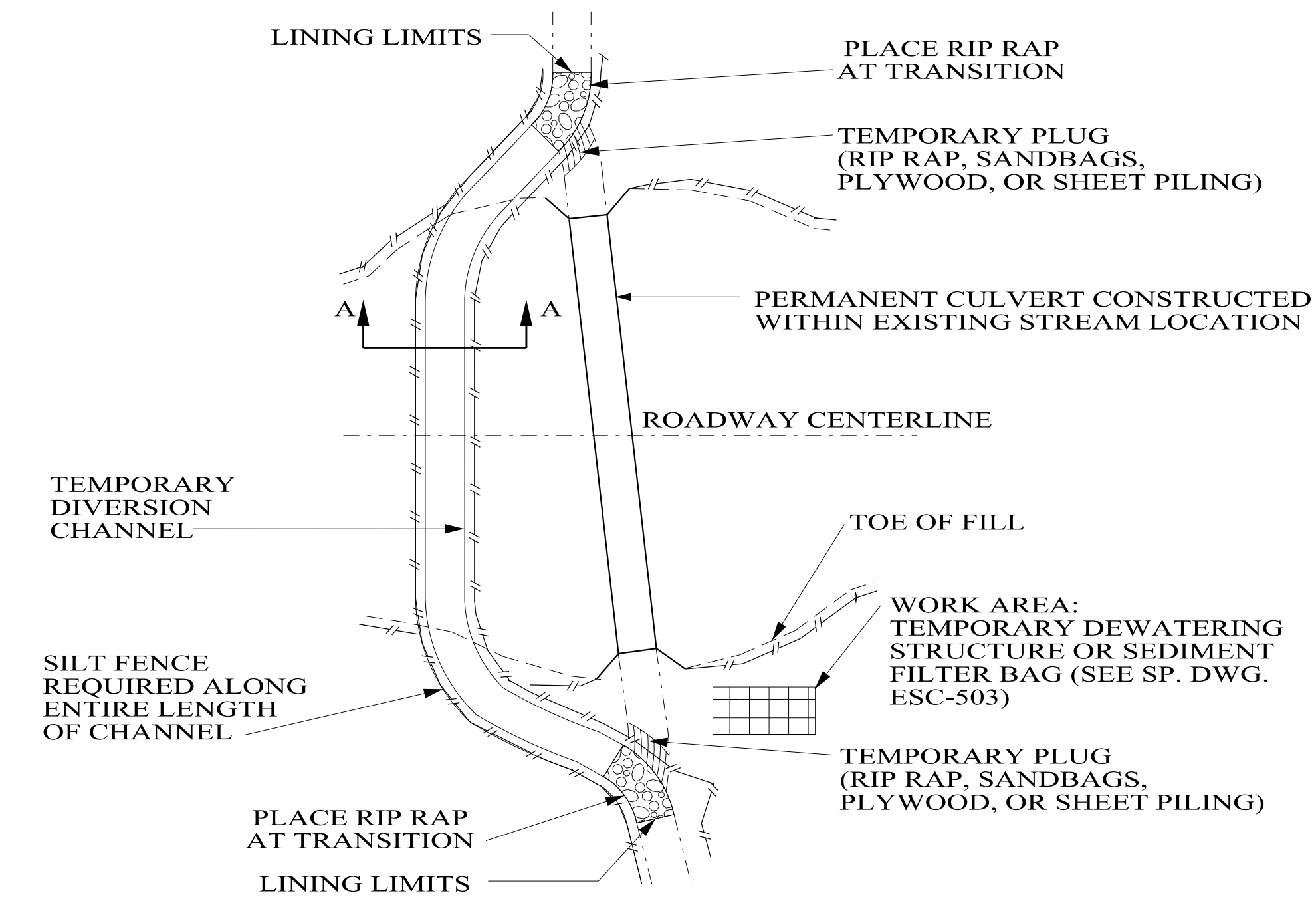
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

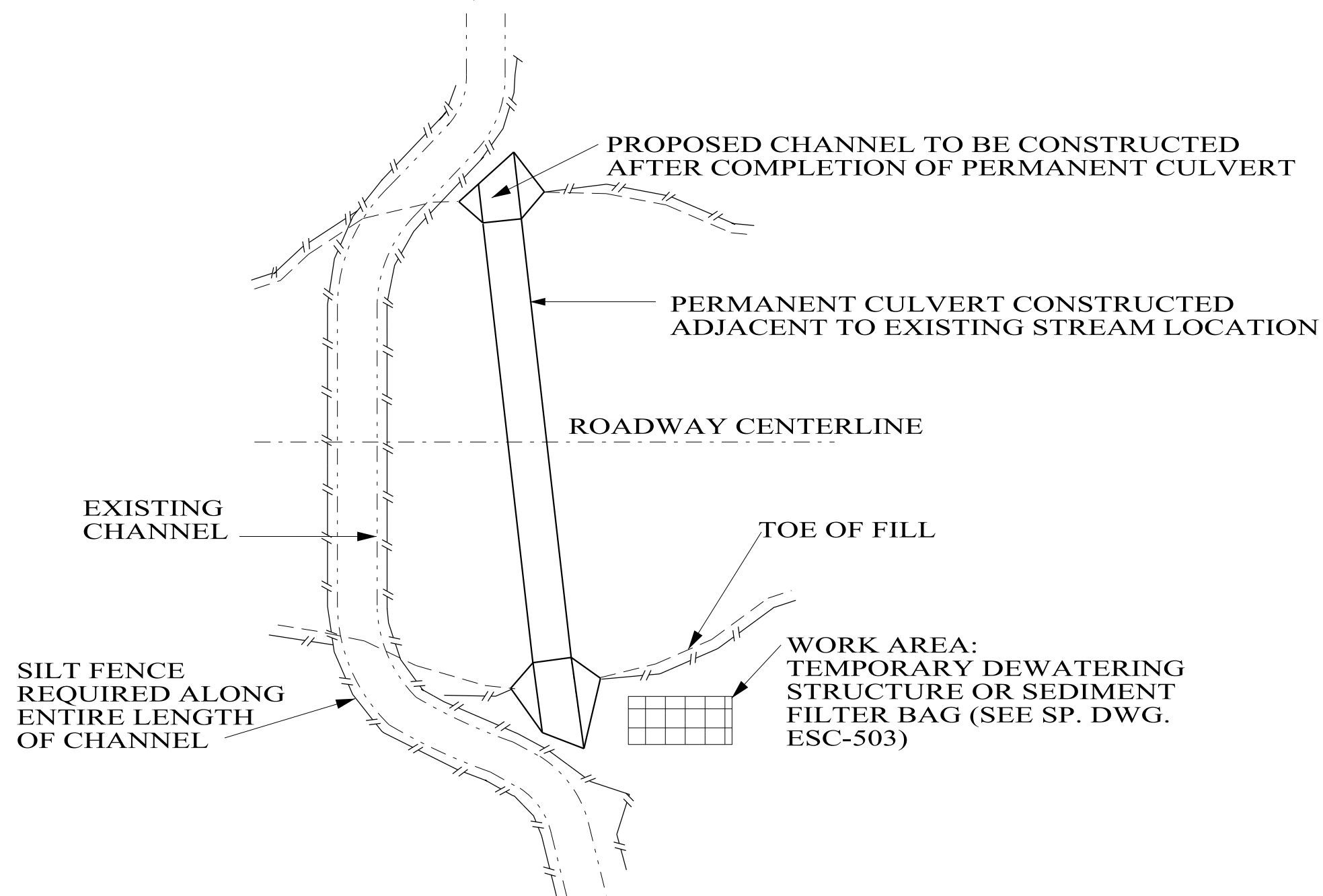
ESC-504

INDEX NO

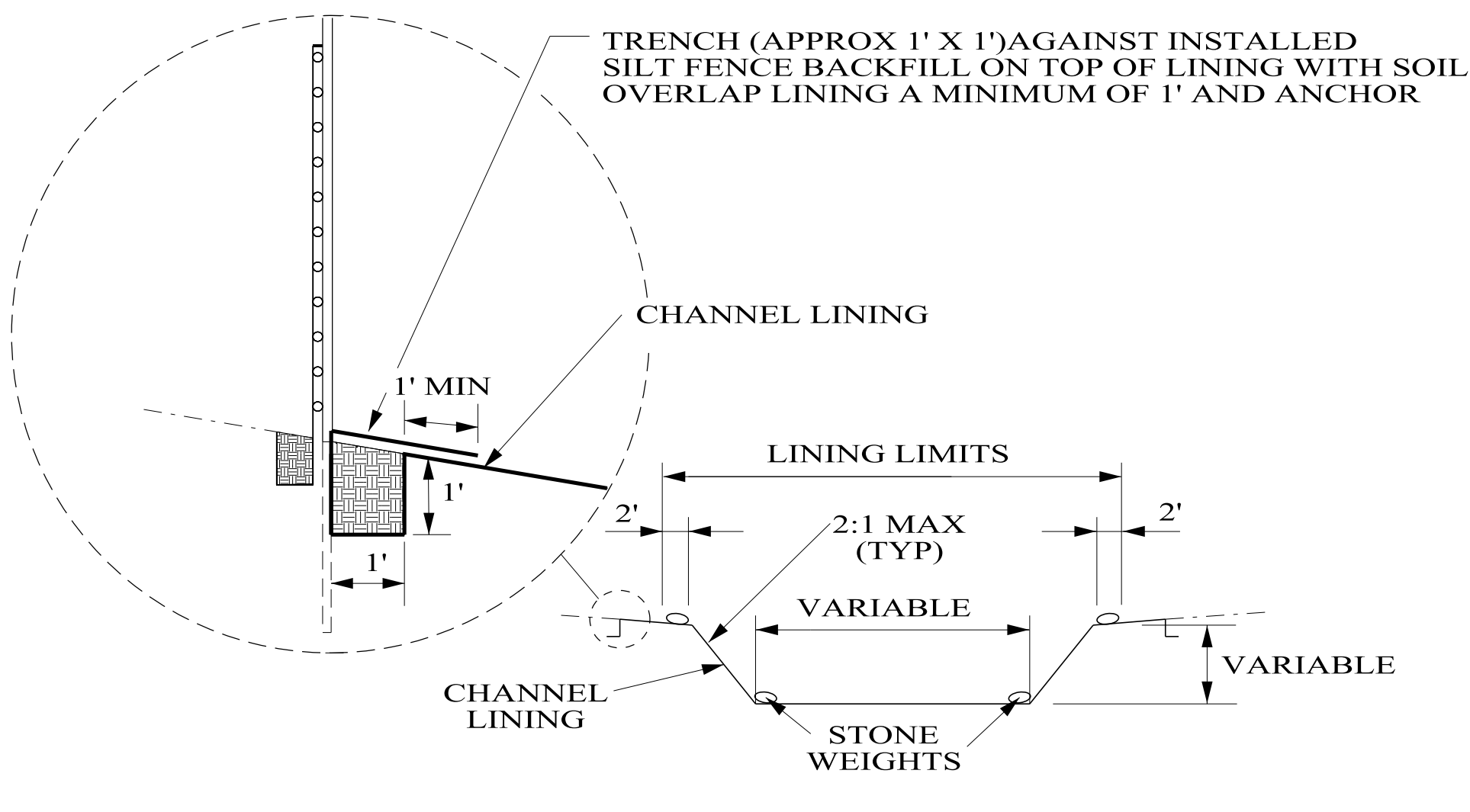
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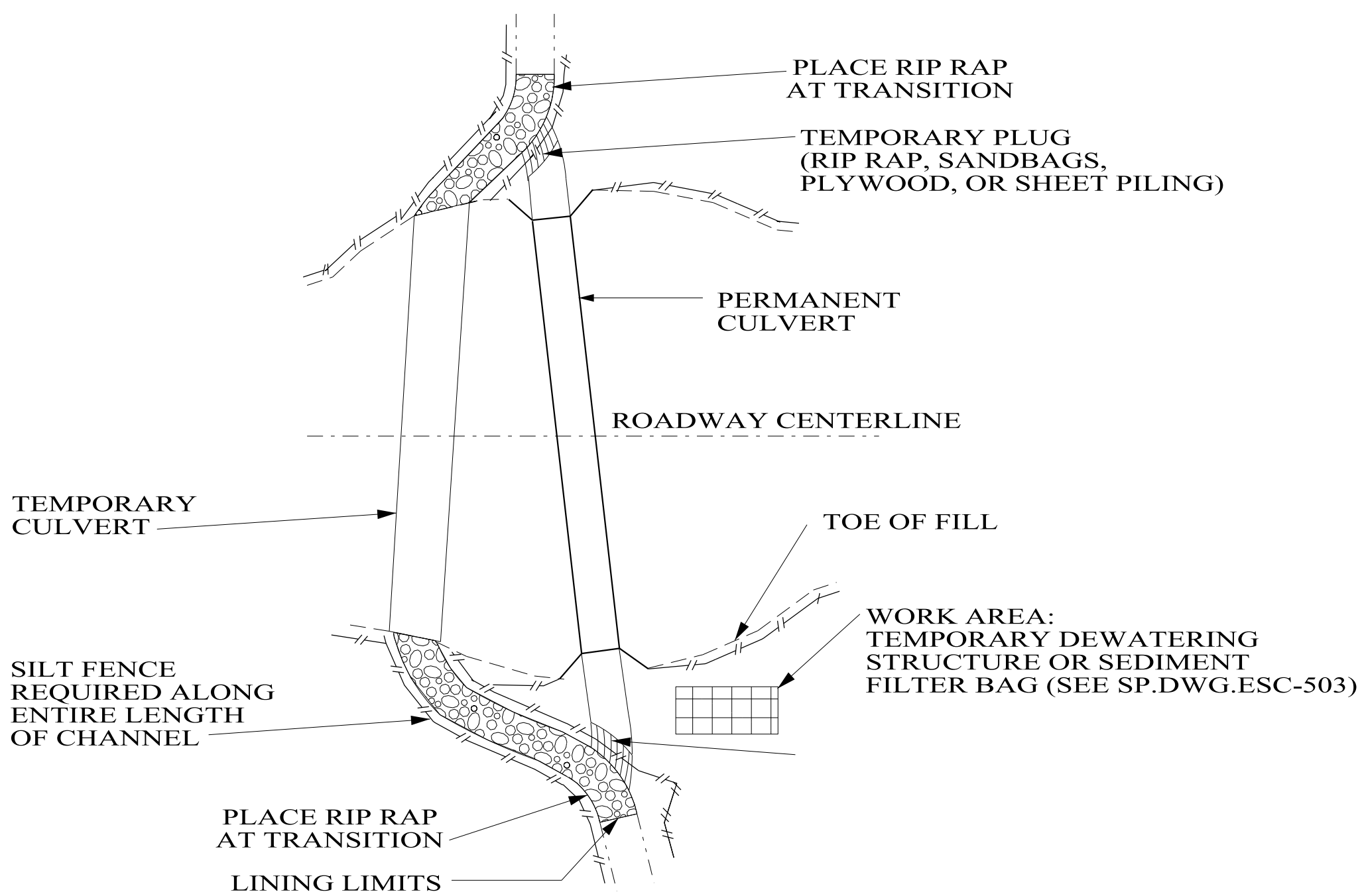
CULVERT CONSTRUCTED
WITHIN EXISTING STREAM



CULVERT CONSTRUCTED
OUTSIDE EXISTING STREAM



SECTION A-A
TEMPORARY DIVERSION CHANNEL
WITH GEOTEXTILE FABRIC OR PLASTIC LINING

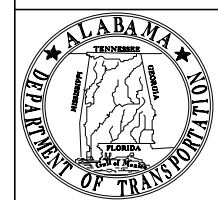


TEMPORARY CULVERT
USED DURING CONSTRUCTION

NOTES:

1. TEMPORARY DIVERSION CHANNELS MAY BE USED TO DIVERT NORMAL STREAM PATH FLOW FROM AN ERODIBLE AREA UNTIL SUCH AREAS CAN BE STABILIZED.
2. CONTRACTOR SHALL DETERMINE CULVERT AND DIVERSION CHANNEL SIZES, CONSTRUCTION METHODS AND MATERIALS FOR TEMPORARY CULVERT CROSSINGS.
3. FILTER FABRIC OR SUITABLE PLASTIC SHEETING MAY BE USED WITHOUT RIP-RAP FOR CHANNEL FLOW VELOCITIES OF LESS THAN 3.0 FPS.
4. RIP-RAP WITH FILTER FABRIC MAY BE USED FOR CHANNEL FLOW VELOCITIES OF 3.0 FPS TO 9.0 FPS. THE RIP-RAP SHALL BE SIZED USING FHWA HEC-15 DESIGN OF ROADSIDE CHANNELS WITH FLEXIBLE LININGS.
5. LOCATIONS OR TYPES OF TEMPORARY DIVERSION WILL NOT BE SHOWN ON THE PLANS AS REQUIRED ITEMS NOR WILL REQUIREMENTS FOR MATERIALS OR CONSTRUCTION BE FOUND IN THE STANDARD SPECIFICATIONS.
6. DIVERSION CHANNEL SHALL BE STABILIZED AND INSPECTED BY THE ENGINEER BEFORE FLOW IS DIVERTED.
7. DURING CONSTRUCTION OF DIVERSION CHANNEL, DAMAGE TO THE EXISTING STREAM, CANOPY REMOVAL, AND DEPTH OF THE CHANNEL CONSTRUCTION SHALL BE MINIMIZED.
8. NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY BEFORE DIVERTING WATER FROM THE EXISTING CHANNEL. WHERE THIS IS NOT FEASIBLE, TEMPORARY FLOW DIVERSION STRUCTURES CAN BE USED UNTIL WORK IS COMPLETE. THESE STRUCTURES CAN BE ANY NON-ERODIBLE MATERIAL.
9. CONSTRUCTION OF THE CHANNEL RELOCATIONS AND CULVERTS SHALL PROCEED AS FOLLOWS:
 - 9.1. CONSTRUCT A MEANDERING TEMPORARY CHANNEL CHANGE ADJACENT TO THE PROPOSED CULVERT TO DIVERT WATER TEMPORARILY DURING THE CULVERT CONSTRUCTION. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 - 9.2. RELOCATE CHANNEL AND CONSTRUCT CULVERT SIMULTANEOUSLY.
 - 9.3. SOD AND/OR RIP-RAP RECONSTRUCTED BANKS AT TRANSITIONS. THE UPPER CHANNEL PLUG IS TO REMAIN IN PLACE UNTIL SUBNOTE (9.1) THROUGH (9.4) UNDER THIS HEADING ARE COMPLETED TO INSURE THAT ALL CONSTRUCTION IS IN THE DRY.
 - 9.4. IF AN EARTH PLUG IS NECESSARY AT THE DOWNSTREAM END OF THE CHANNEL IT SHOULD BE REMOVED FIRST, THEN REMOVE THE UPPER PLUG TO RELEASE WATER INTO THE RECONSTRUCTED CHANNEL.
 - 9.5. PLUGS SHOULD REMAIN IN PLACE UNTIL PERMANENT STABILIZATION OF THE NEW WATER COURSE IS COMPLETED. REMOVAL OF PLUGS SHOULD ONLY BE PERFORMED FOLLOWING ACCEPTANCE OF ALL STABILIZATION WORK BY THE ENGINEER.
10. THE DETAILS PROVIDED DEPICT TYPICAL TEMPORARY DIVERSION CHANNELS. THE DETAILS SHOWN ARE OPTIONAL RECOMMENDATIONS, BUT NOT MANDATORY.
11. THE CONTRACTOR MAY PROPOSE THE USE OF OTHER DIVERSION OPTIONS SUCH AS PIPING, PUMPING OR STAGED CONSTRUCTION.
12. WITH THE EXCEPTION OF SILT FENCE, ALL ITEMS AND WORK ASSOCIATED WITH STREAM DIVERSIONS ARE SUBSIDIARY TO THE CULVERT CONSTRUCTION AND SHALL NOT BE PAID DIRECTLY.

NOT TO SCALE



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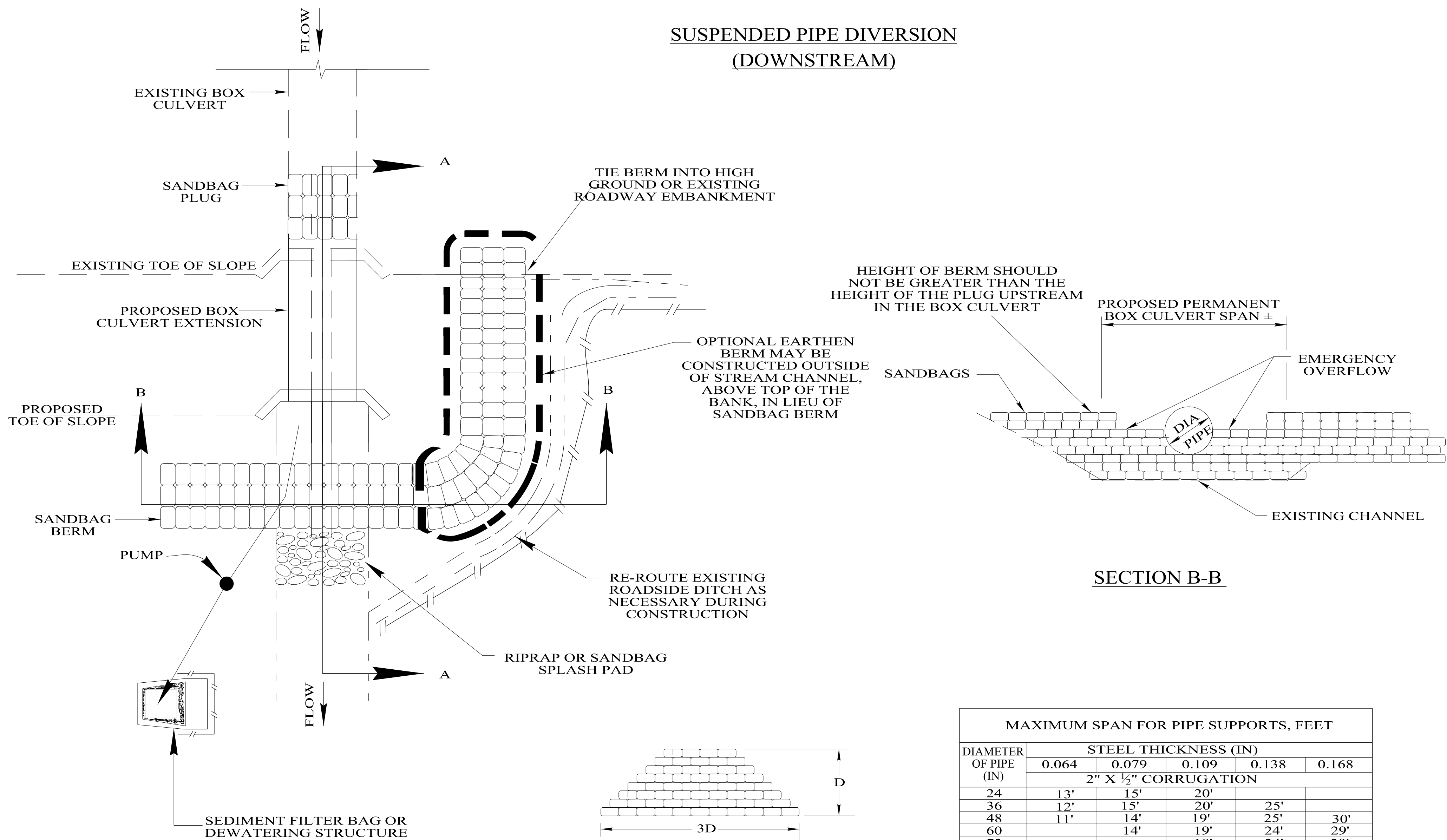
REVISIONS:
1. Updated "SECTION A-A" and deleted original Note No.'s 9 & 10 then renumbered on 8-24-2011 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 8-24-2011

DESIGN BUREAU SPECIAL DRAWING
TEMPORARY STREAM DIVERSION

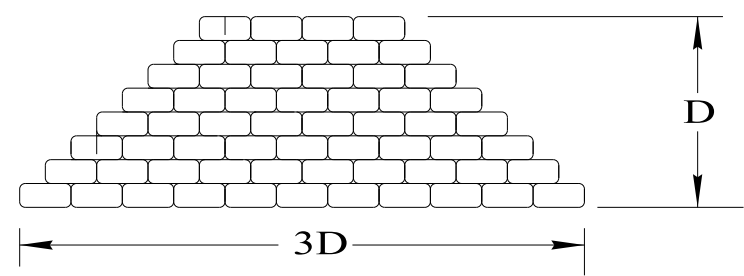
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION
SPECIAL DRAWING NO
ESC-505
INDEX NO
66541

SUSPENDED PIPE DIVERSION
(DOWNSTREAM)



PLAN VIEW

SAND BAG PLUG & BERM CROSS SECTION
(SEE NOTE 5)

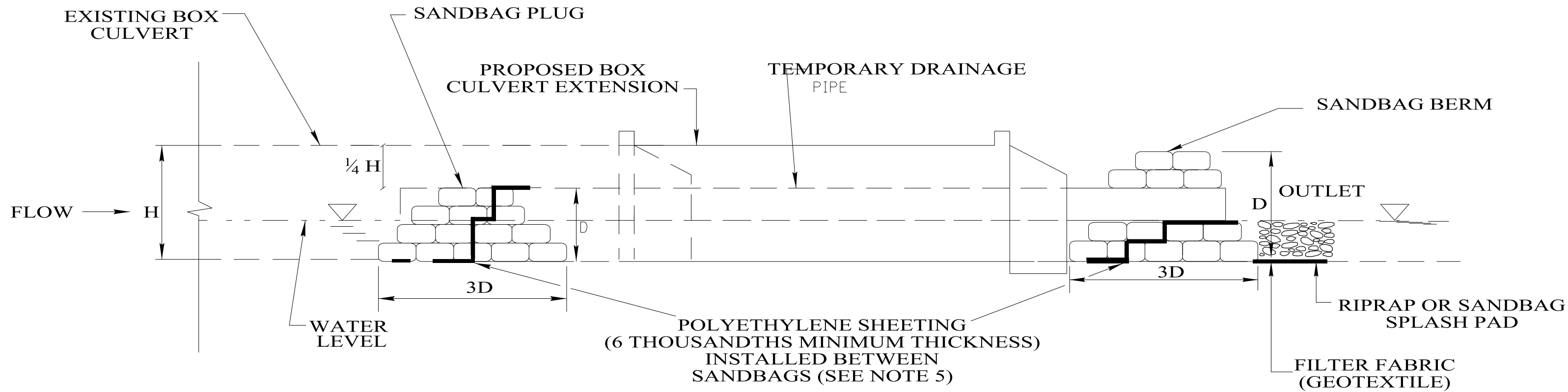


MAXIMUM SPAN FOR PIPE SUPPORTS, FEET					
DIAMETER OF PIPE (IN)	STEEL THICKNESS (IN)				
	0.064	0.079	0.109	0.138	0.168
	2" X 1/2" CORRUGATION				
24	13'	15'	20'		
36	12'	15'	20'	25'	
48	11'	14'	19'	25'	30'
60		14'	19'	24'	29'
72			18'	24'	29'
5" X 1" or 3" X 1" CORRUGATION					
36	9'	11'			
48	9'	11'	15'		
60	8'	10'	14'	18'	
72	8'	10'	14'	18'	22'

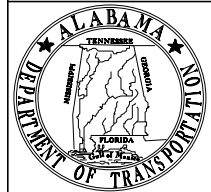
FOR PIPE SIZES NOT SHOWN, REFER TO NEXT LARGER SIZE

SUSPENDED PIPE DIVERSION (DOWNSTREAM) GENERAL NOTES

- SUSPENDED PIPE DIVERSIONS MAY BE USED TO ALLOW BOX CULVERT EXTENSIONS TO BE CONSTRUCTED WHILE SEPARATED FROM FLOWING WATER, IN THE DRY, THUS REDUCING SEDIMENTATION. FLEXIBLE PIPE DIVERSION MAY BE UTILIZED ON STREAMS WITH INTERMITTANT FLOW WHERE THE DURATION OF CONSTRUCTION IS EXPECTED TO BE BRIEF.
- THE CONTRACTOR SHALL DETERMINE THE SIZE OF THE SUSPENDED PIPE WHICH SHALL BE DESIGNED USING A 2-YEAR STORM FREQUENCY FLOW RATE.
- SUSPENDED PIPE DIVERSIONS MAY BE USED WHERE ADVERSE IMPACTS WILL NOT BE CAUSED BY WATER PONDED UPSTREAM OF THE PIPE.
- THE SANDBAG PLUG AT THE DOWNSTREAM END OF THE SUSPENDED PIPE DIVERSIONS SHOULD BE CONSTRUCTED TO A HEIGHT EQUAL TO THREE QUARTERS OF THE RISE OF THE BOX CULVERT.
- POLYETHYLENE SHEETING (6 THOUSANDTHS MINIMUM THICKNESS) SHALL BE PLACED INSIDE THE SANDBAG PLUG IN THE BOX CULVERT AND THE SANDBAG BERM WITHIN THE CHANNEL IN ORDER TO PROVIDE THE BEST POSSIBLE SEAL. SANDBAGS ON THE DOWNSTREAM SIDE OF THE SHEETING SHOULD BE PLACED FIRST, AND THEN SHEETING PLACED ON THESE BAGS. AS MUCH AS POSSIBLE, THE SHEETING SHOULD BE FITTED AROUND THE PIPE. THE REMAINING SANDBAGS WOULD THEN BE PLACED ON THE SHEETING. WHERE MULTIPLE SHEETS ARE USED, THEY SHOULD OVERLAP A MINIMUM OF 18 INCHES.
- THE PROPOSED CULVERT CONSTRUCTION SHALL BE SEALED FROM THE EXISTING STREAM BY MEANS OF A SANDBAG BERM WHICH WILL BE TIED INTO EITHER HIGH GROUND BESIDE THE CHANNEL OR THE EXISTING ROADWAY EMBANKMENT, UP TO THE 2-YEAR FLOOD LEVEL.
- THE TEMPORARY DRAINAGE PIPE WILL BE SUPPORTED AT ALL JOINTS AND AT INTERVALS NOT TO EXCEED THE VALUES SPECIFIED IN THE TABLE "MAXIMUM SPAN FOR PIPE SUPPORTS." SUPPORTS MAY CONSIST OF SANDBAGS, CONCRETE BLOCKS, WOODEN FRAMES, OR ANY OTHER MATERIAL SUFFICIENT TO SUPPORT THE WEIGHT OF THE PIPE WHEN IT IS FLOWING FULL. SUPPORTS AT JOINT SHALL BE A MINIMUM OF 18 INCHES IN LENGTH, ALONG THE TEMPORARY DRAINAGE PIPE AND CENTERED ON THE JOINT. SUPPORTS SHOULD "CRADLE" THE TEMPORARY DRAINAGE PIPE TO ENSURE THAT IT WILL NOT ROLL DURING CONSTRUCTION OF THE BOX CULVERT.
- ALL PIPE JOINTS SHALL BE PROPERLY BANDED OR OTHERWISE PROVIDED WITH A REASONABLE SEAL AGAINST LEAKAGE.
- FOR DETAILS OF THE OPTIONAL FLEXIBLE PIPE DIVERSION USING PUMPS, SEE SUSPENDED PIPE DIVERSION (UPSTREAM) DETAIL.
- CONSTRUCTION SHALL PROCEED AS FOLLOWS:
 - INSTALL TEMPORARY DRAINAGE PIPE ON ITS SUPPORTS INSIDE THE CULVERT TO BE EXTENDED.
 - CONSTRUCT THE SANDBAG BERM AT THE UPSTREAM END OF THE SUSPENDED PIPE DIVERSIONS.
 - CONSTRUCT THE SANDBAG PLUG AT THE DOWNSTREAM END OF THE SUSPENDED PIPE DIVERSIONS.
 - ONCE THE BOX CULVERT EXTENSION HAS BEEN COMPLETED, REMOVE THE DOWNSTREAM SANDBAG STRUCTURE, EXCEPT THOSE BAGS NEEDED TO SUPPORT THE END OF THE PIPE. THE UPSTREAM SANDBAG STRUCTURE SHOULD THEN BE REMOVED GRADUALLY, IN ORDER TO ALLOW THE UPSTREAM WATER LEVEL TO DRAWDOWN AT A SAFE RATE.
 - REMOVE THE TEMPORARY DRAINAGE PIPE, SUPPORTS AND ANY REMAINING SANDBAGS.
- TEMPORARY DRAINAGE PIPE, SANDBAG PLUGS, BERMS, AND SUPPORTS SHALL BE INSPECTED WEEKLY OR AFTER EVERY RAIN EVENT. ANY NEEDED REPAIRS SHALL BE DONE IMMEDIATELY. ANY DEBRIS WHICH HAS ACCUMULATED AT THE INLET OF THE SUSPENDED PIPE DIVERSIONS SHALL BE IMMEDIATELY REMOVED.
- LOCATIONS OR TYPES OF TEMPORARY DIVERSION WILL NOT BE SHOWN ON THE PLANS AS REQUIRED ITEMS OF WORK NOR WILL REQUIREMENTS FOR MATERIALS OR CONSTRUCTION BE FOUND IN THE STANDARD SPECIFICATIONS.
- THE DETAILS PROVIDED DEPICT TYPICAL SUSPENDED PIPE DIVERSION (UPSTREAM). THE DETAILS SHOWN ARE OPTIONAL RECOMMENDATIONS, BUT ARE NOT MANDATORY.
- THE CONTRACTOR MAY PROPOSE THE USE OF OTHER DIVERSION OPTIONS.
- IT IS THE CONTRACTOR'S CHOICE WHICH METHOD OF DIVERSION THEY USE. ALL COST SHALL BE BORNE BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE QUALITY OF THE WATERS ORIGINATING OFF OF THE RIGHT-OF-WAY AND ENTERING THE PROJECT SITE ARE NOT TO BE DIMINISHED AS THE WATER FLOWS THROUGH AND LEAVES THE SITE.



SECTION A-A



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REVISIONS:

- Added to CADD on 3-29-2010 by J.F.T.
- Corrected Silt Fence linestyle on 8-24-2011 by J.F.T.
- Updated Special Drawing No. from ESC-506 (SHEET 1 OF 2) to ESC-506-1 on 11-1-2016 by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY: _____
DATE DRAWN: _____
REVISED DATE: 11-1-2016

DESIGN BUREAU SPECIAL DRAWING
SUSPENDED PIPE DIVERSION
(DOWNSTREAM)

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

ESC-506-1

INDEX NO

66544

(UPSTREAM)



FOR PIPE SIZES NOT SHOWN, REFER TO NEXT LARGER SIZE



- NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO.

INDEX NO

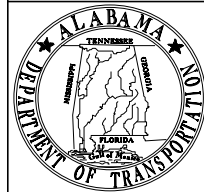
DESIGN BUREAU SPECIAL DRAWING

SUSPENDED PIPE DIVERSION (UPSTREAM)

ESC-506-2

66545

Bureau Std Engr: D.J.W.
DRAWN BY: _____
DATE DRAWN: _____
REVISED DATE: 1-1-2016

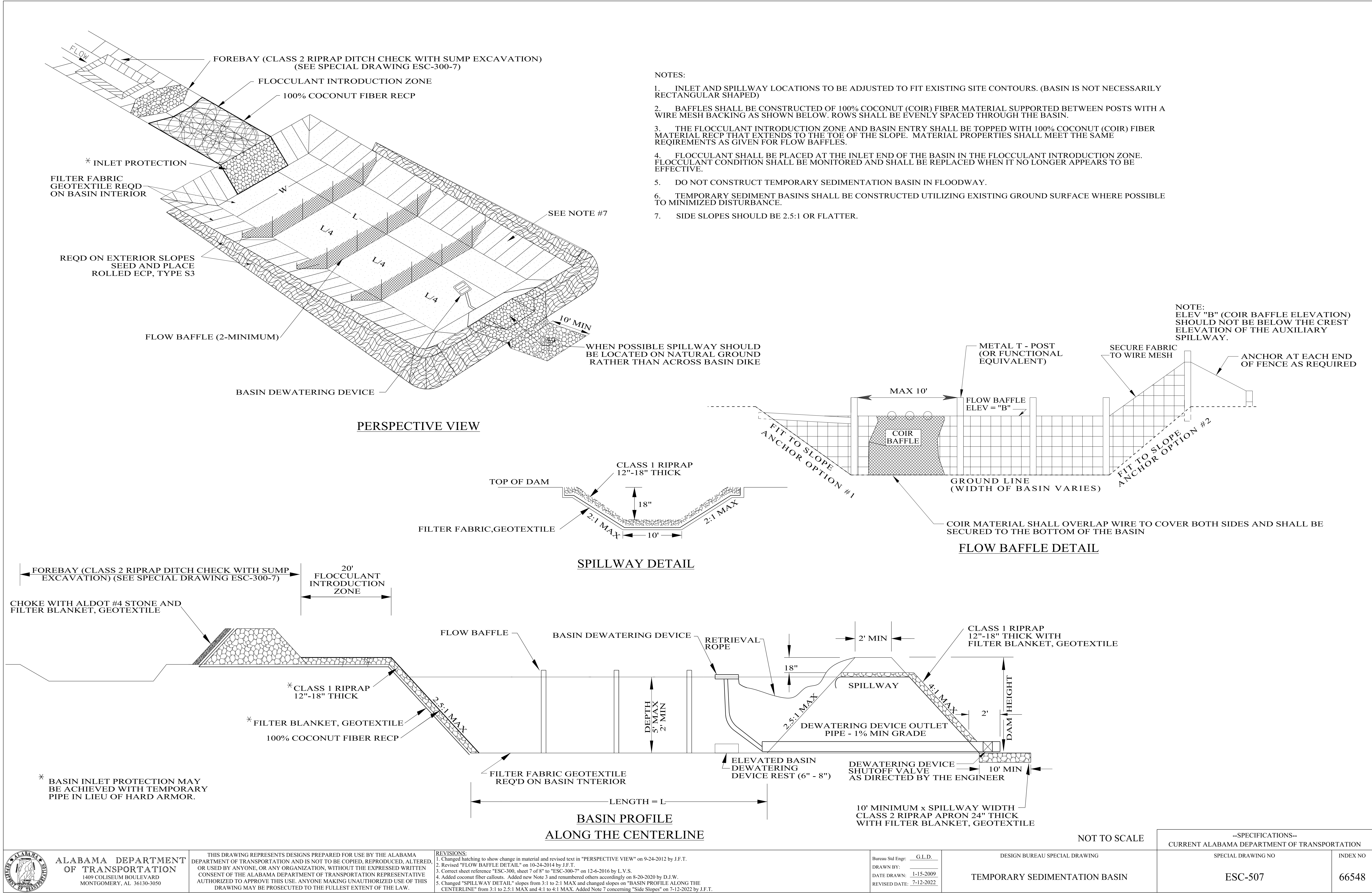


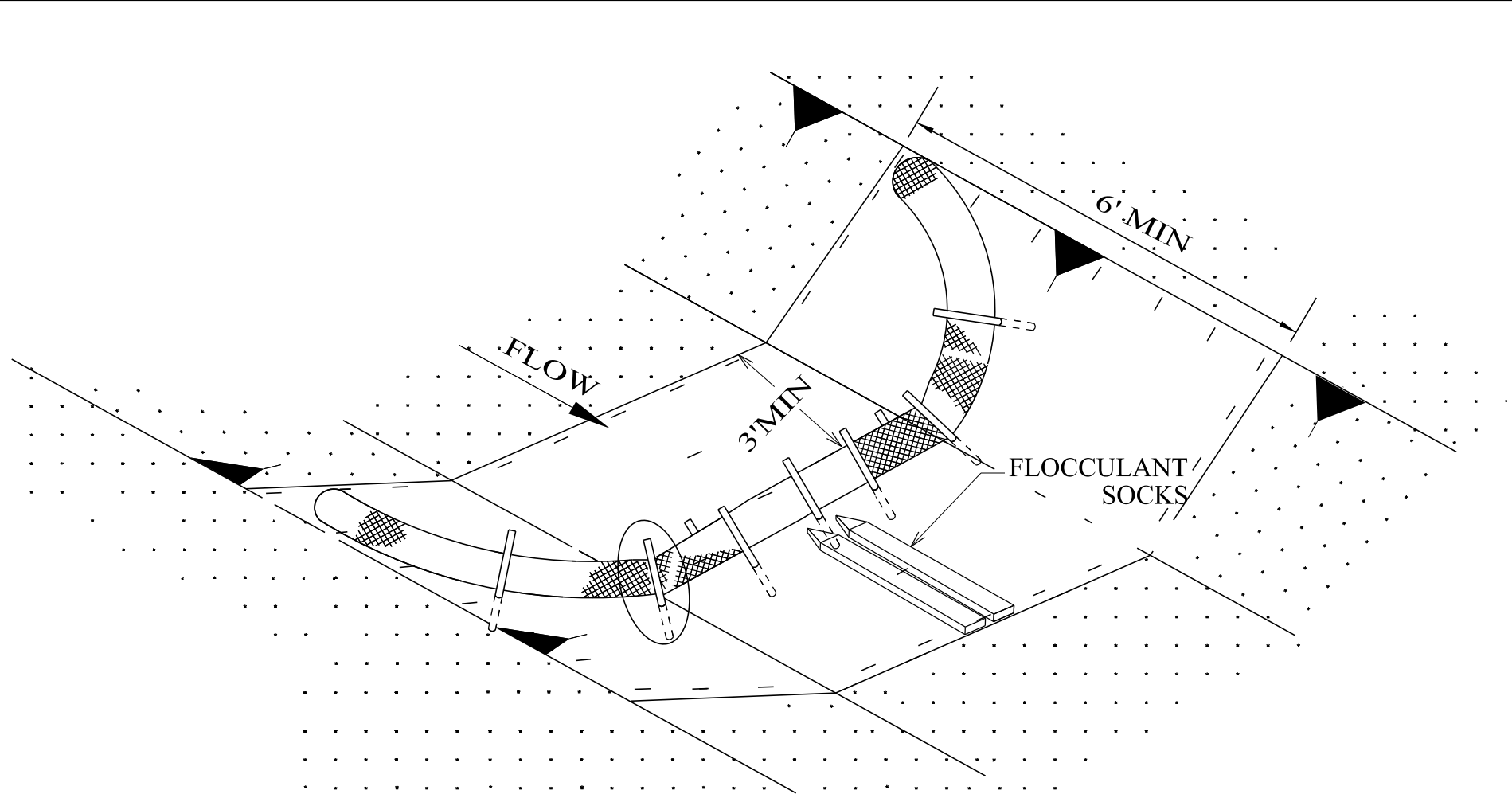
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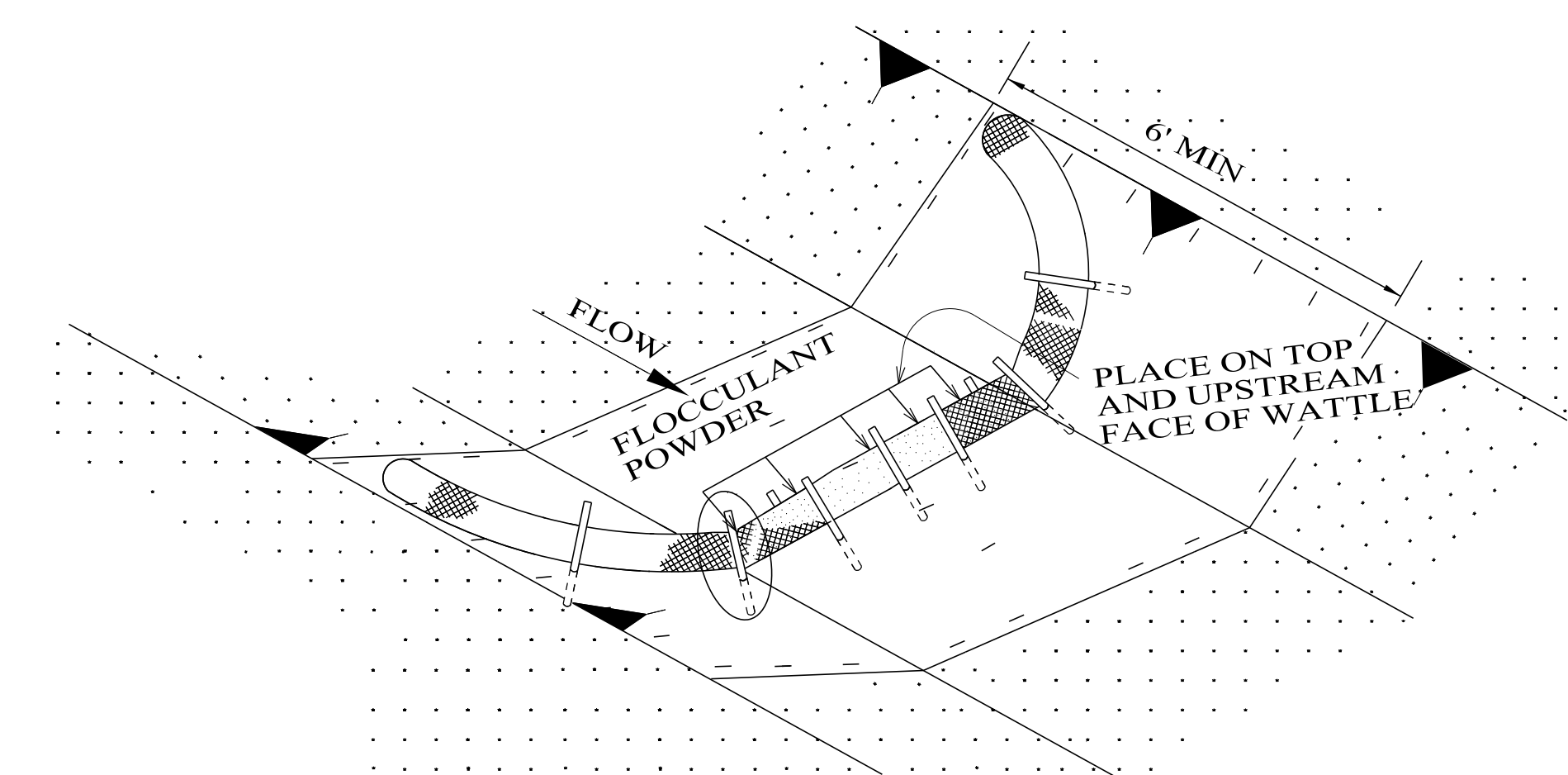
REVISIONS:

1. Added to CADD on 3-29-2010 by J.F.T.
2. Corrected Silt Fence linestyle on 8-24-2011 by J.F.T.
3. Updated Special Drawing No. from ESC-506 (SHEET 2 OF 2) to ESC-506-2 on 11-1-2016 by J.F.T. & J.M.M.

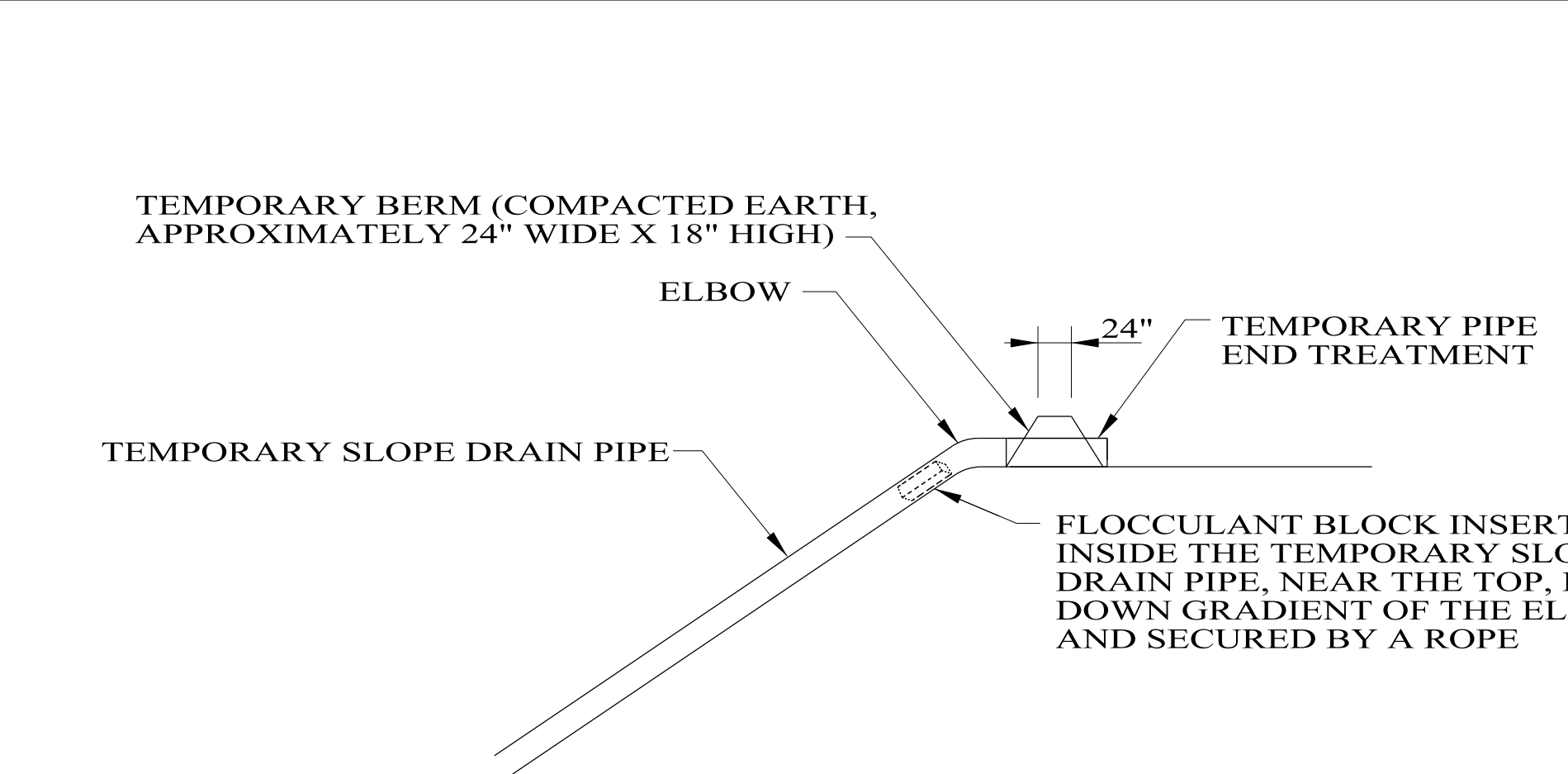




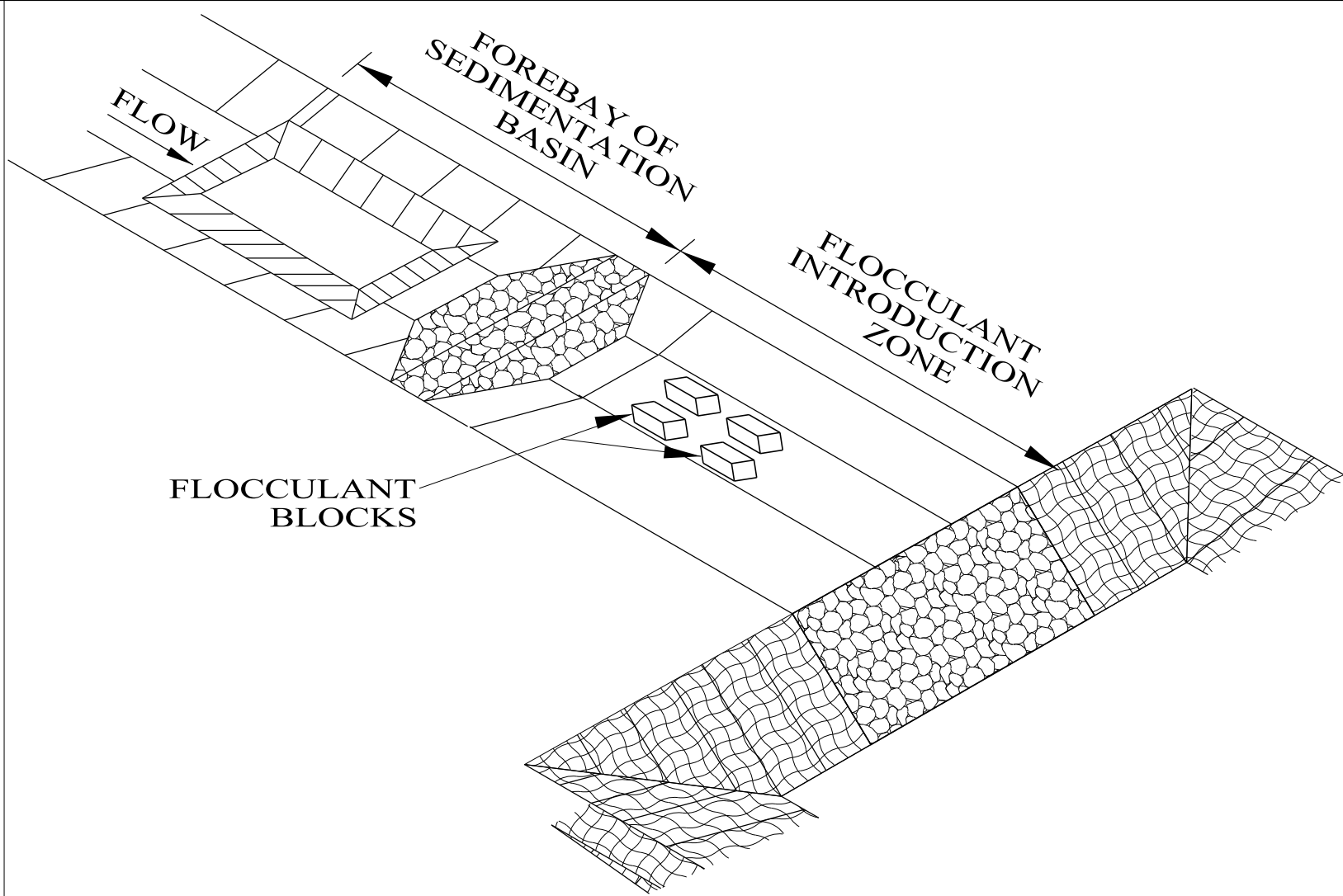
**FLOCCULANT SOCK USE
WITH WATTLE DITCH CHECK**
(SEE SPECIAL DRAWING ESC-300-4)



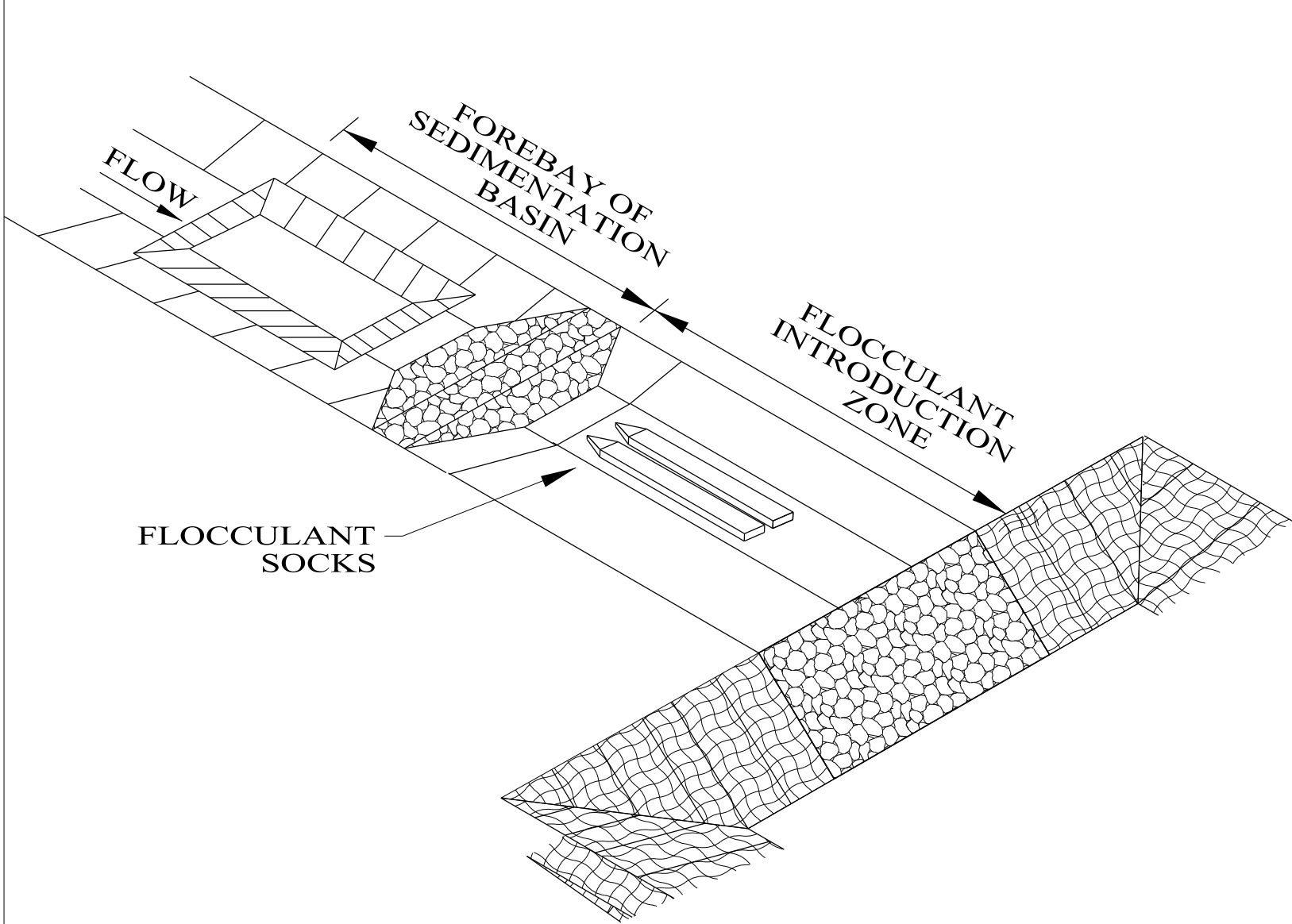
**FLOCCULANT POWDER USE
WITH WATTLE DITCH CHECK**
(SEE SPECIAL DRAWING ESC-300-4)



**FLOCCULANT BLOCK USE
WITH TEMPORARY SLOPE DRAIN**
(SEE SPECIAL DRAWING ESC-200-2)

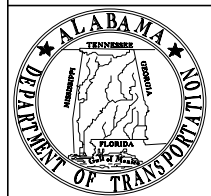


**FLOCCULANT BLOCK USE
WITH SEDIMENTATION BASIN**
(SEE SPECIAL DRAWING ESC-507)



**FLOCCULANT SOCK USE
WITH SEDIMENTATION BASIN**
(SEE SPECIAL DRAWING ESC-507)

- NOTES:
1. AN ALDOT LIST OF APPROVED FLOCCULANTS CAN BE FOUND IN THE MSDSAR MANUAL LIST II-24 "TEMPORARY EROSION AND SEDIMENT CONTROL PRODUCTS."
 2. FLOCCULANTS ARE SOIL SPECIFIC AND MUST BE SELECTED BASED ON SOIL AND RUNOFF TESTING.
 3. HEAVY SEDIMENT AND SAND SHOULD BE REMOVED PRIOR TO THE LOCATION OF FLOCCULANT APPLICATION.
 4. PASSIVE DOSING OF FLOCCULANTS REQUIRES FLOWING WATER WITH A MODERATE VELOCITY.
 5. FLOCCULANTS REQUIRE AN INITIAL PERIOD OF MIXING/AGITATION FOLLOWED BY A PERIOD OF LOW VELOCITY TO ALLOW THE SETTLING OF PARTICLES.
 6. SEDIMENT CONTROL MEASURES MUST BE UTILIZED TO CAPTURE THE FLOCCULATED MATERIAL AND PREVENT RE-SUSPENSION PRIOR TO DISCHARGE.
 7. FLOCCULANT SHOULD NEVER BE APPLIED DIRECTLY TO LIVE STREAMS OR WATERS OF THE STATE.
 8. FLOCCULANT BLOCKS CAN DRY OUT PREVENTING DISSOLUTION, BLOCKS MUST BE PROTECTED FROM THE SUN AND SHOULD REMAIN HYDRATED IF POSSIBLE.
 9. FLOCCULANT SOCKS SHALL BE INSTALLED IN THE CORRECT ORDER AND ORIENTATION AS PER MANUFACTURER'S INSTRUCTIONS. FLOCCULANT SOCKS WILL FLATTEN WHEN EMPTY INDICATING THE NEED FOR REPLACEMENT.
 10. POWDER FORMS OF FLOCCULANT TYPICALLY MUST BE REAPPLIED AFTER EACH RAIN EVENT.
 11. FLOCCULANTS SHOWN ON DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES TO INDICATE LOCATION OF APPLICATION. DOSING SHALL BE APPLIED AS PER MANUFACTURER'S RECOMMENDATIONS.



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REVISIONS:
1. Revised Sheet Numbers of "FLOCCULANT SOCK USE WITH WATTLE DITCH CHECK" and "FLOCCULANT POWDER USE WITH WATTLE DITCH CHECK" on 10-20-2014 by J. Bureau
2. Corrected Sheet References from "ECS-300, Sheet 4 of 8" & "...Sheet 2 of 8" to "ESC-300-4" & "ESC-300-2" on 12-6-2016 by L.V.S.
3. Modified Note 9 and added Note 11. Deleted quantity requirements for all flocculant items on 8-31-2020 by D.J.W.

DESIGNED BY: D.J.W.
DRAWN BY:
DATE DRAWN: 9-24-2012
REVISED DATE: 8-31-2020

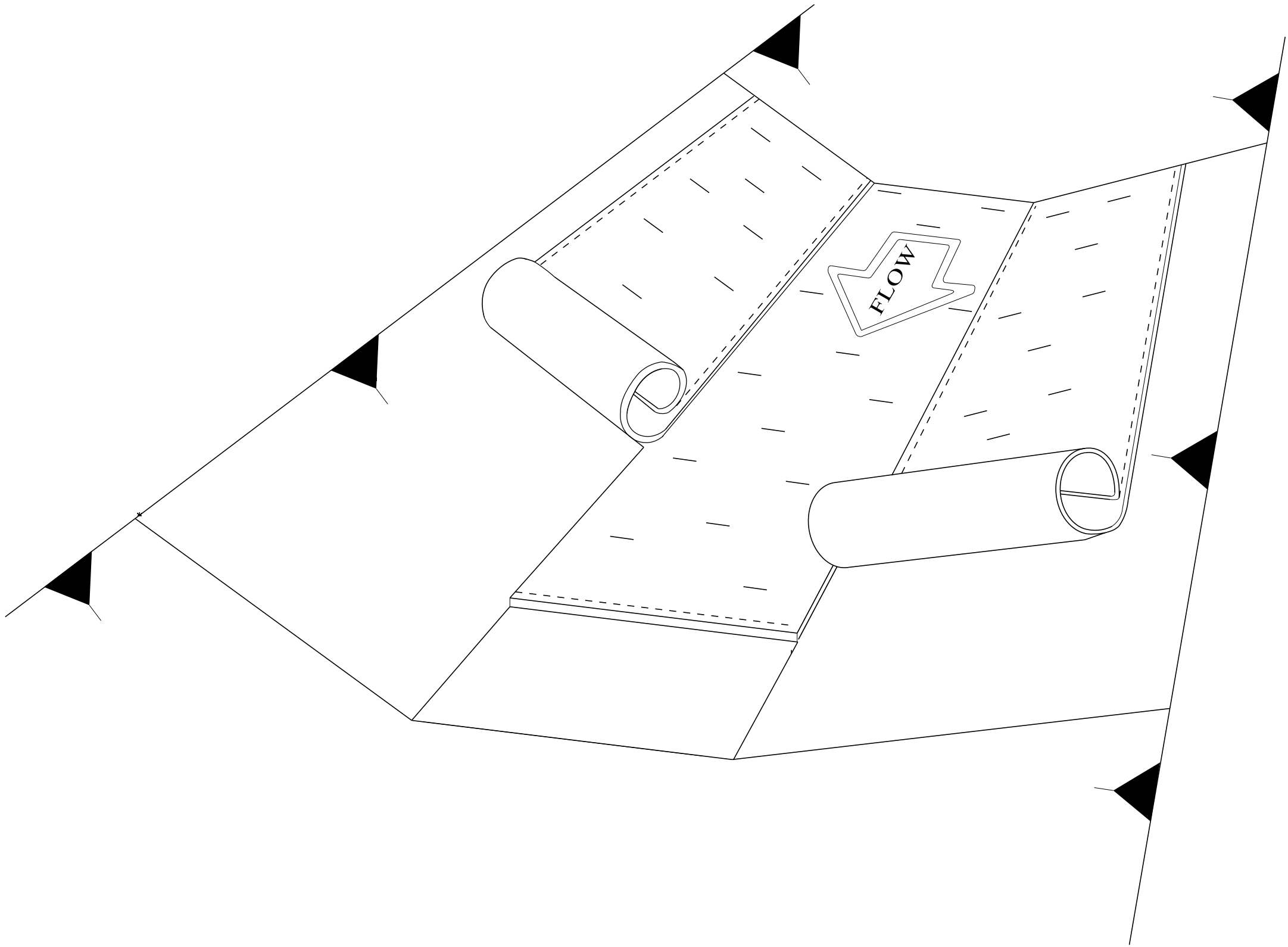
DESIGN BUREAU SPECIAL DRAWING
FLOCCULANT USAGE GUIDE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-508

INDEX NO
67201

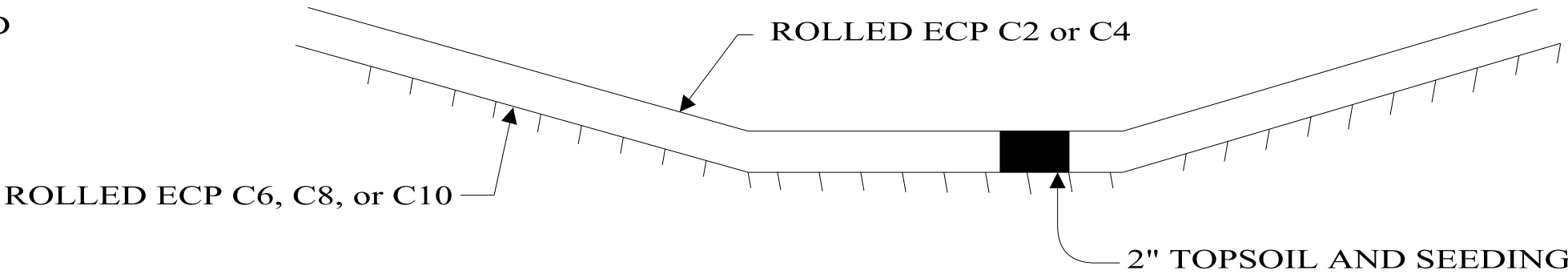
CHANNEL INSTALLATION DETAIL



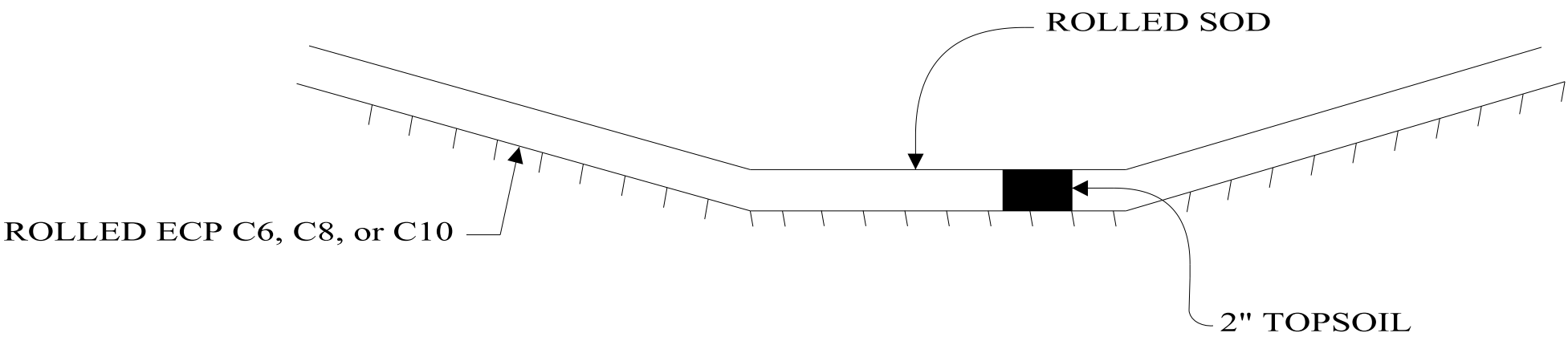
CROSS SECTION

OPTION A (SEE NOTE 5)

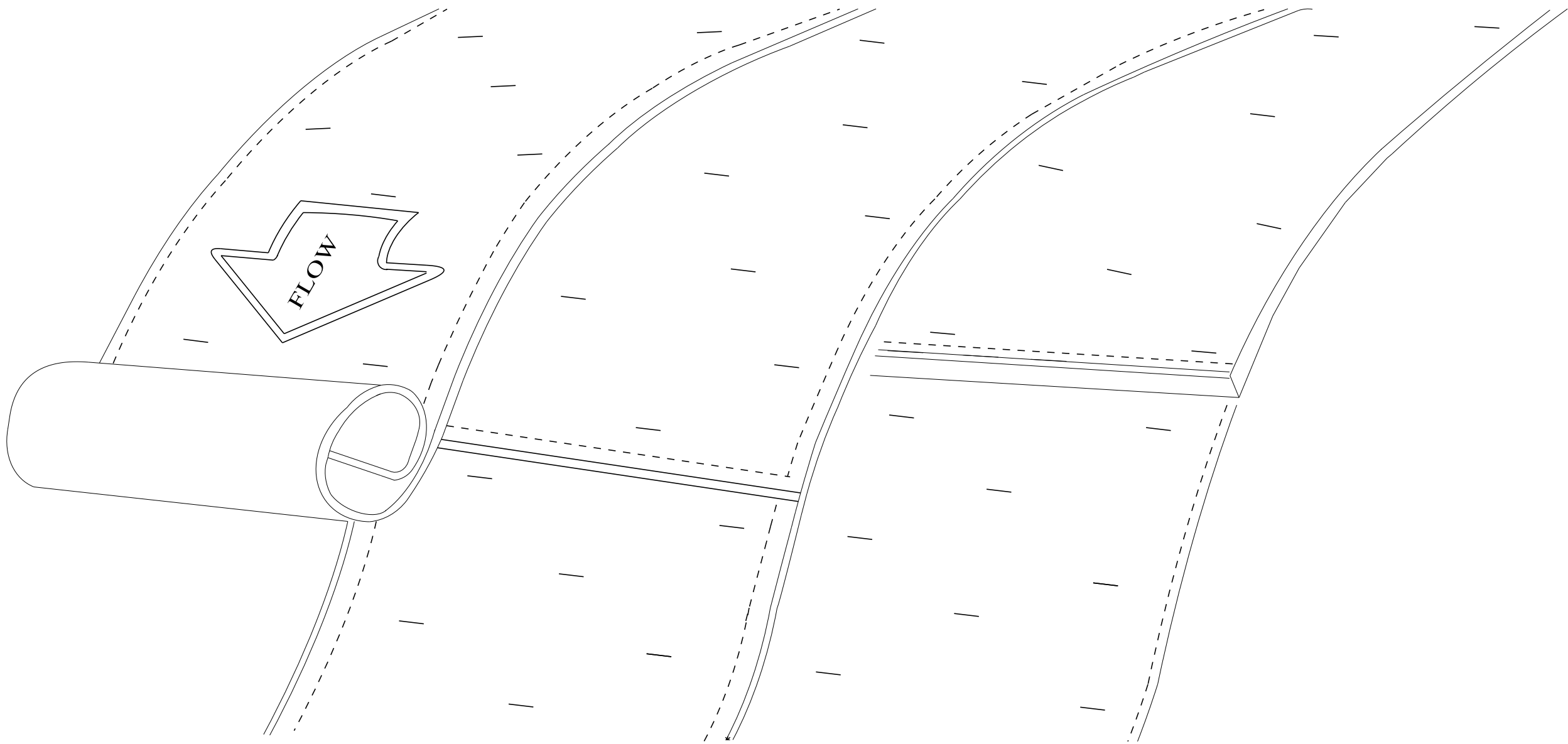
NOTE:
ONLY TO BE USED
WHERE FLOW CAN
BE DIVERTED UNTIL
VEGETATION HAS
BEEN ESTABLISHED



OPTION B (SEE NOTE 5)



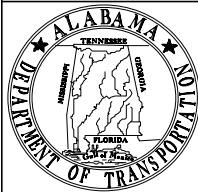
SLOPE INSTALLATION DETAIL



NOTES:

- ROLLED EROSION CONTROL PRODUCTS SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF FLOW. THERE SHALL BE AN ANCHOR TRENCH AT THE UPSTREAM EDGE OF THE INSTALLATION. UPSTREAM RECPs SHALL OVERLAP ANY DOWNSTREAM RECPs. ADJACENT RECPs SHALL ALSO BE OVERLAPPED.
- STAPLES SHALL BE PLACED ON OVERLAPS, AT THE TOE OF THE RECP, AND THROUGHOUT THE RECP INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMEDATIONS TO ENSURE THE RECP IS IN CONTACT WITH THE UNDERLYING SOIL.
- HYDRAULIC EROSION CONTROL PRODUCTS SHALL BE INSTALLED BY SPRAYING IN OPPOSING DIRECTIONS TO PROVIDE A SOLID BLANKET OF PRODUCT. HECps SHALL BE APPLIED BY EQUIPMENT AND AT A RATE THAT MEETS THE RECOMMENDATIONS OF THE PRODUCT MANUFACTURER SPECIFIC TO THE SLOPE.
- HYDRAULIC EROSION CONTROL PRODUCTS SHOULD NOT BE INSTALLED IN AREAS SUBJECT TO CHANNELIZED FLOW OR AREAS HAVING A POTENTIAL TO FLOOD DURING A LOCAL 2 YEAR, 24 HOUR STORM EVENT.
- RECP TYPE C2 AND C4 ARE TO BE PLACED ON TOP OF SEEDING. RECP TYPE C6, C8 AND C10 ARE TO BE PLACED BELOW THE TOPSOIL AND SEEDING. THE TOPSOIL AND SEEDING MUST BE COVERED BY EITHER SOD OR RECP TYPE C2 OR C4 (SEE OPTIONS A AND B). ONLY USE OPTION A IF WATER CAN BE KEPT OUT OF THE CHANNEL UNTIL VEGETATED. IF NOT, USE OPTION B.
- SEE ALDOT LIST II-11 FOR APPROVED ROLLED AND HYDRAULIC EROSION CONTROL PRODUCTS.

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REVISIONS:
1. Added to CADD on 10-21-2014 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY: J.F.T.
DATE DRAWN: 10-17-2014
REVISED DATE: 10-21-2014

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF ROLLED
AND HYDRAULIC EROSION
CONTROL PRODUCT INSTALLATION

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

ESC-509

INDEX NO

65901