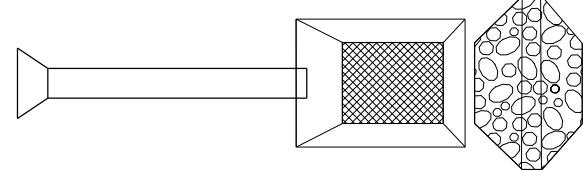


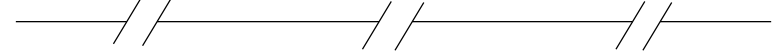
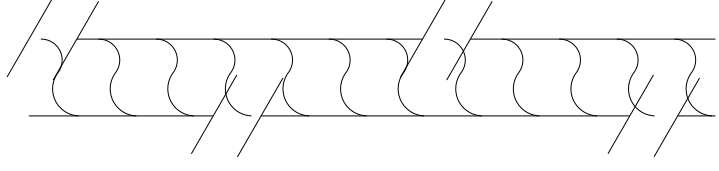
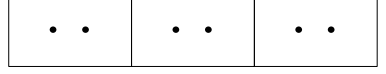
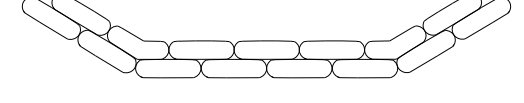
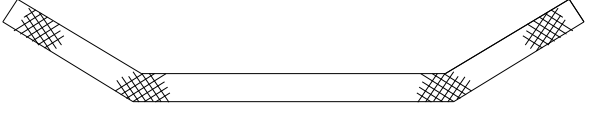
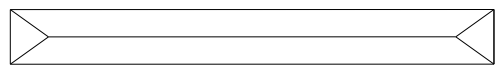
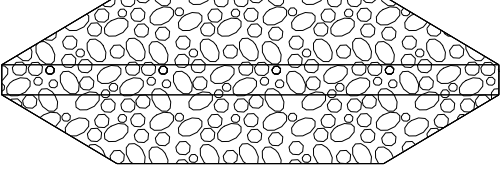
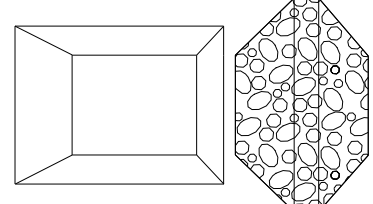


BEST MANAGEMENT PRACTICE (BMP)	SPECIAL DRAWING NUMBER	PLAN SYMBOL	MATERIALS REQUIREMENT REFERENCES	CONSTRUCTION REQUIREMENT REFERENCES	USAGE GUIDELINES
TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	ESC-200-2		665.02, 801, 810, 814 ALDOT LIST II-3	665.03, 665.04, 665.05	A TEMPORARY 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.

NOT TO SCALE

--SPECIFICATIONS--		
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		
SPECIAL DRAWING NO	INDEX NO	
ESC-100-1	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.

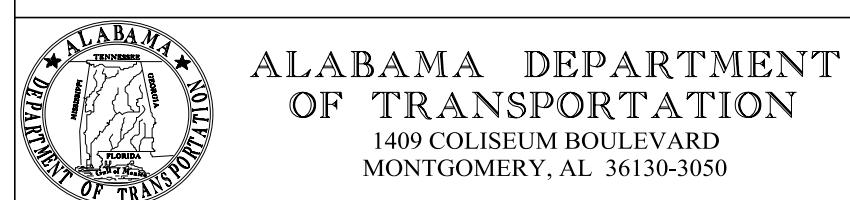
NOTE:

- *** 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



ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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 using same pattern J.F.T. & J.M.M.

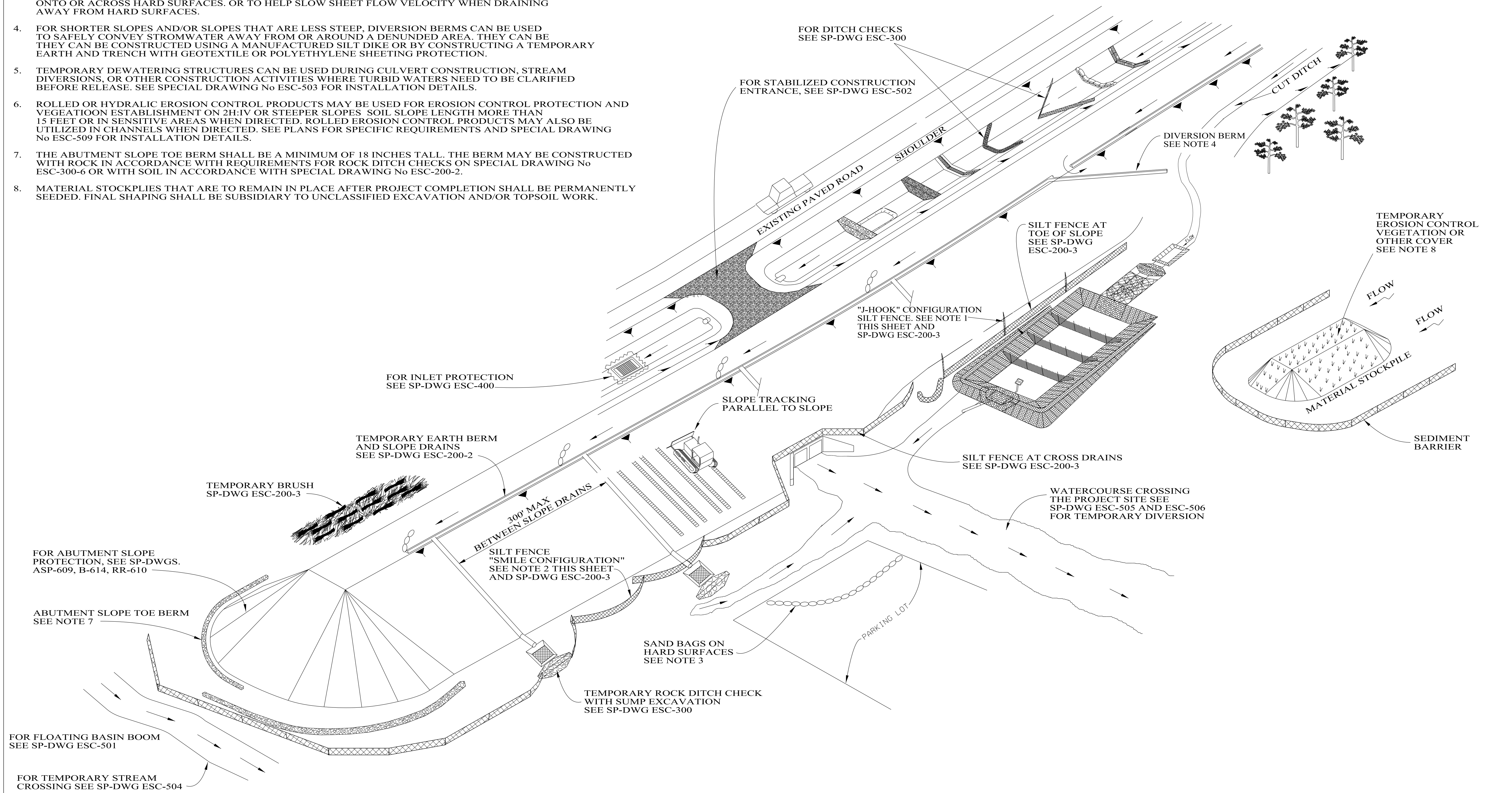
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 7-7-2021

DESIGN BUREAU SPECIAL DRAWING
BEST MANAGEMENT PRACTICE
REFERENCE MATRIX

--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO ESC-100-2	INDEX NO 66502

NOTES:

1. "J HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED IN 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 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.



NOT TO SCALE



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MONTGOMERY, AL 36130-3050

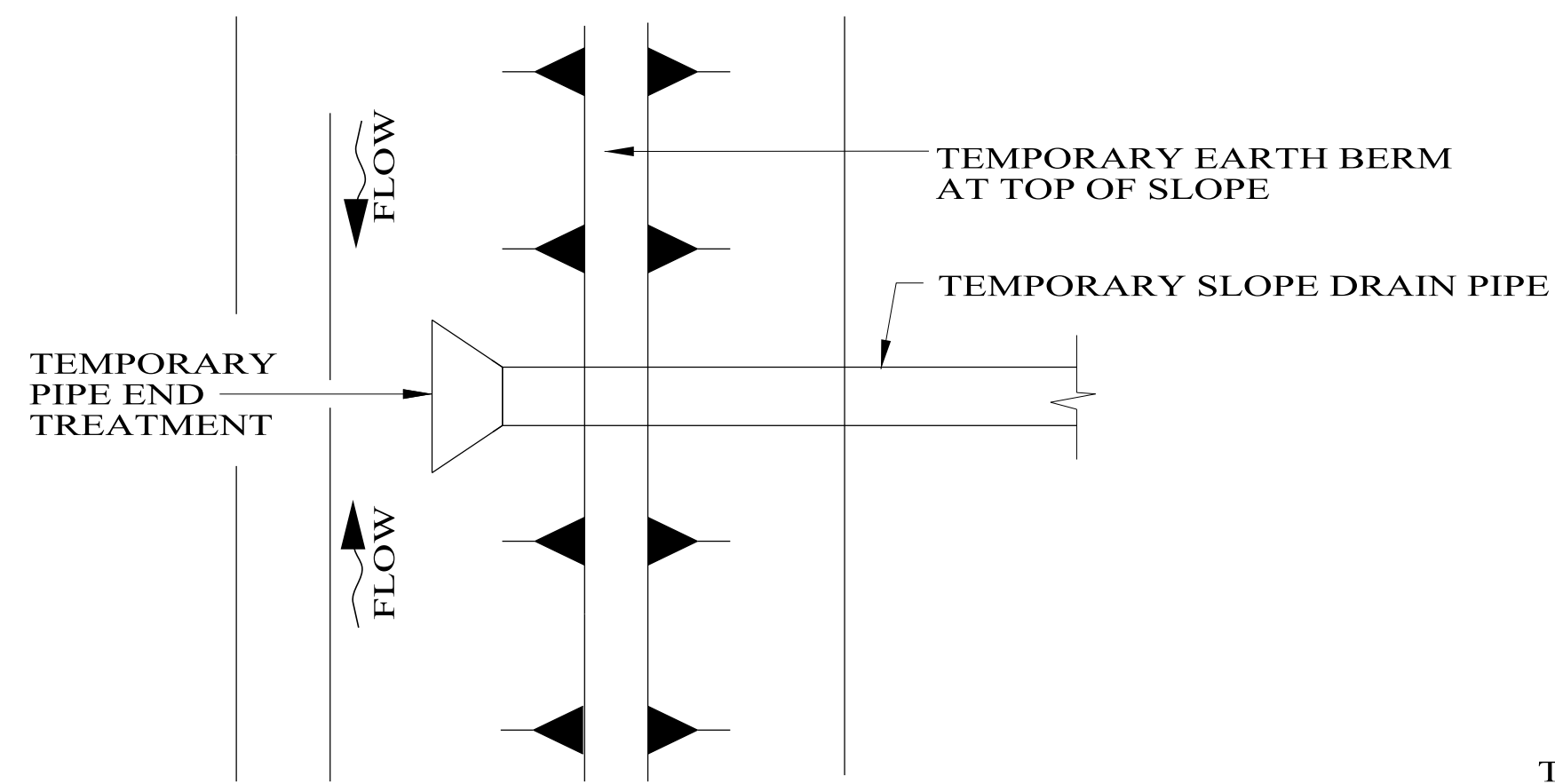
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REVISIONS:
1. Revised Note 6 and added Note 8 & "TEMPORARY SEDIMENTATION BASIN". Attached "SEE SP-DWG ESC-400" to "FOR INLET PROTECTION" on 8-23-2011 by J.F.T.
2. Revised Note 6 and Adjusted graphics of "TEMPORARY ROCK DITCH CHECK" on 10-20-2014 by J.F.T.
3. Revised Note 7 from "SHEET 2 OF 4" to "SHEET 2 OF 5" on 8-10-2016 by J.F.T.
4. 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.
5. Moved the stockpile details further from the stream on 7-13-2021 by D.J.W.

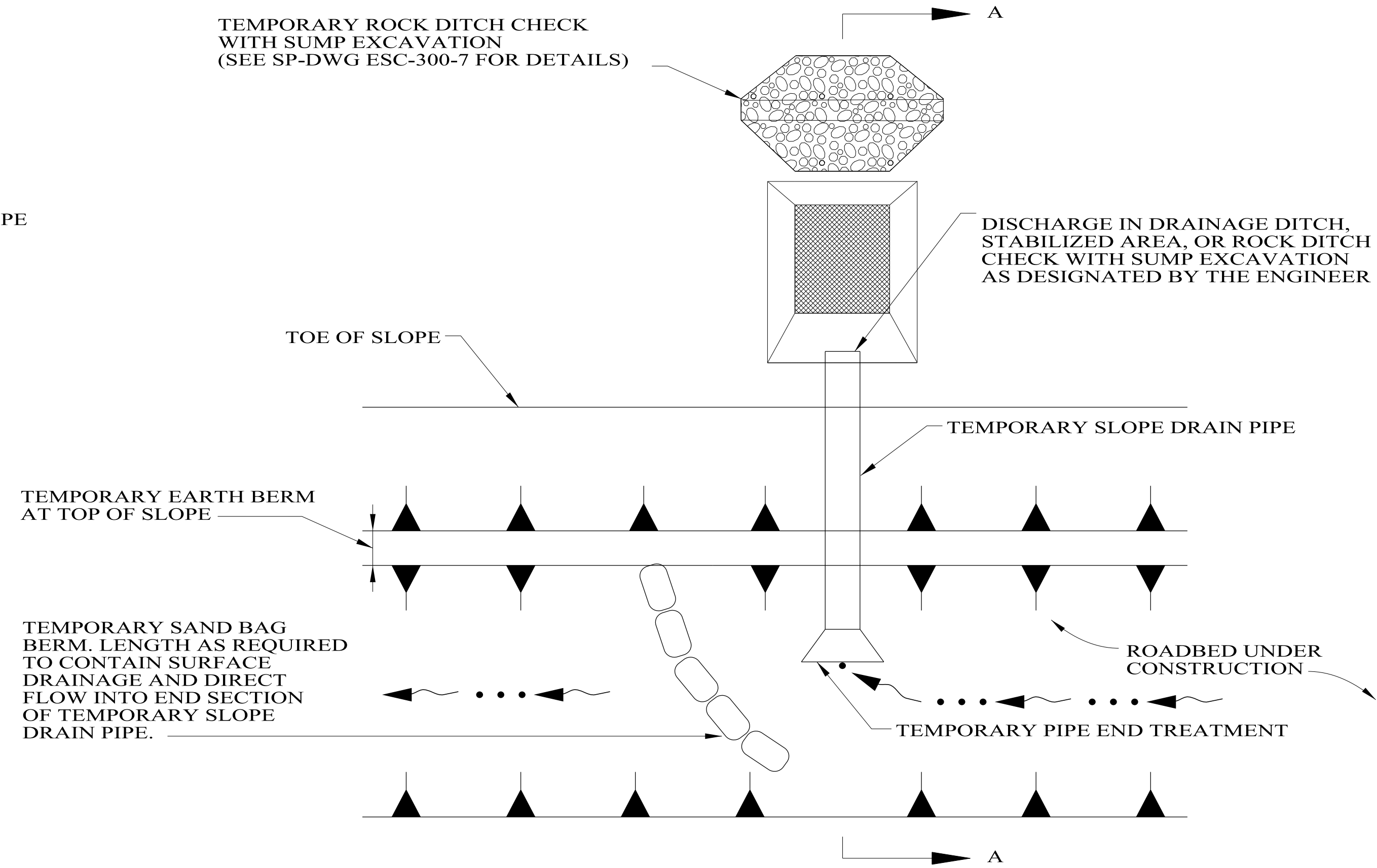
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 7-13-2021

DESIGN BUREAU SPECIAL DRAWING
TYPICAL TEMPORARY EROSION/
SEDIMENT CONTROL APPLICATIONS

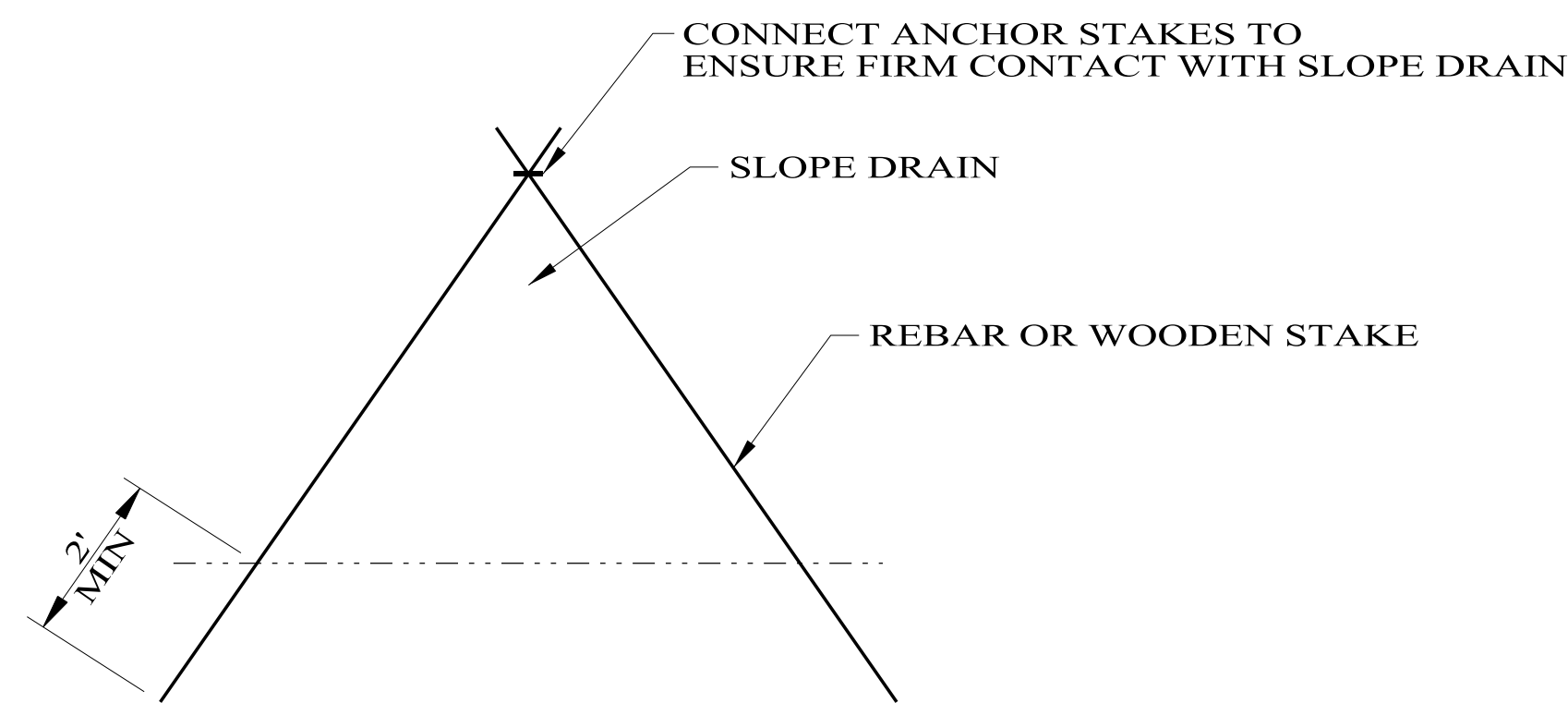
--SPECIFICATIONS--	
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO	INDEX NO
ESC-200-1	66505



PLAN AT LOW POINT

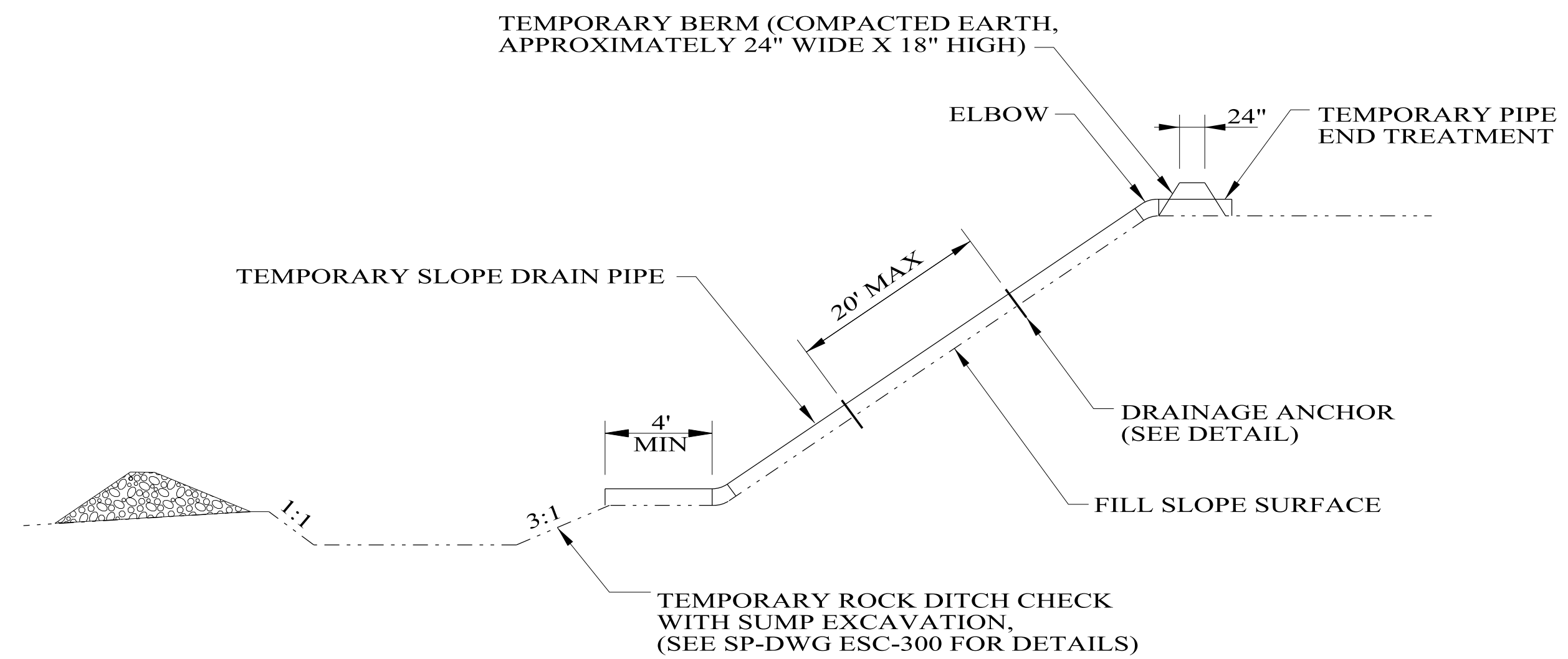


PLAN



RECOMMENDED ANCHOR DETAIL

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

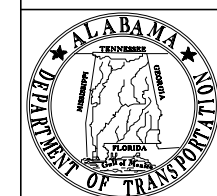


SECTION A-A

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.

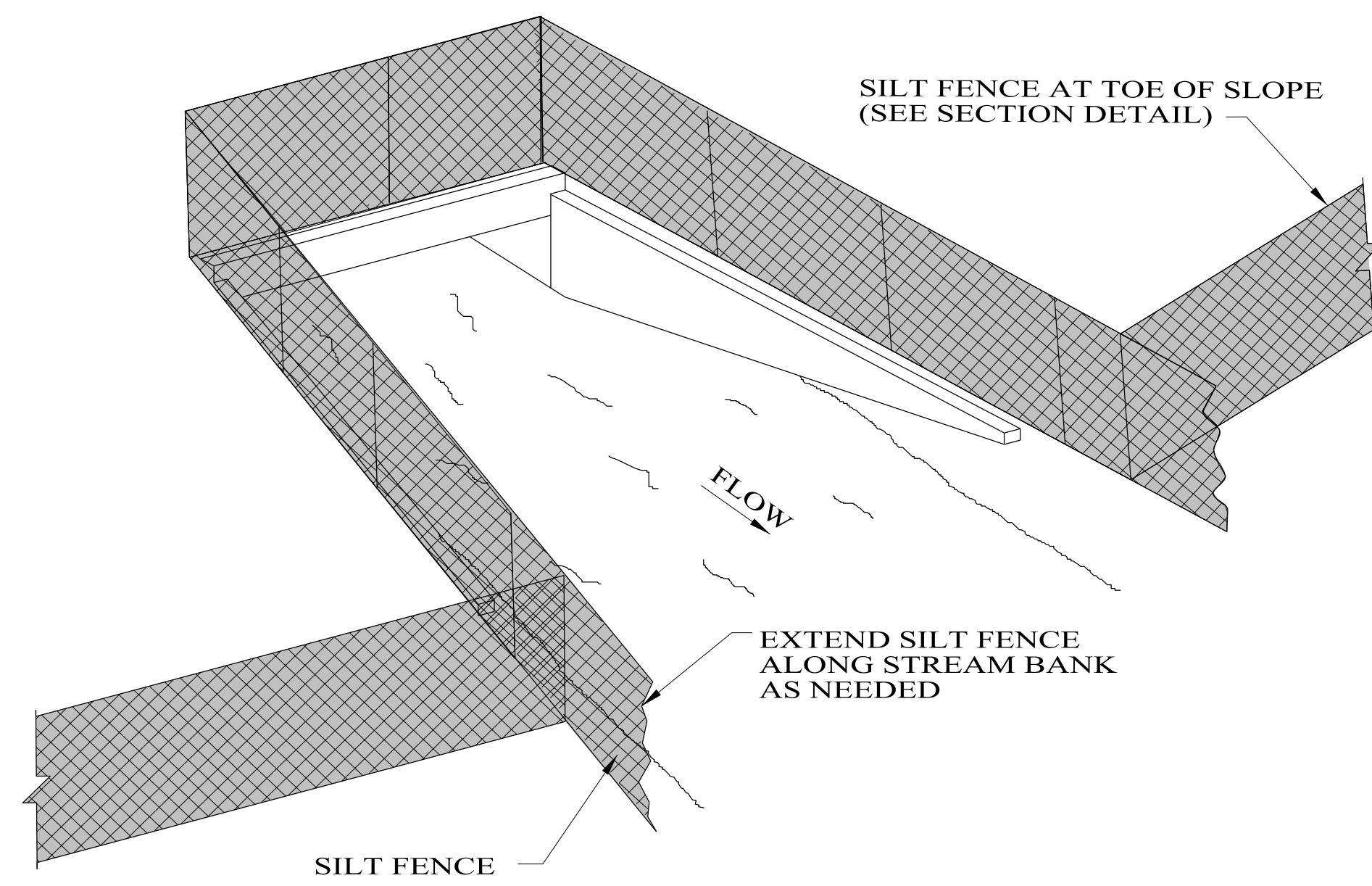
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF TEMPORARY SLOPE DRAIN,
BERMS AND ENERGY DISSIPATOR

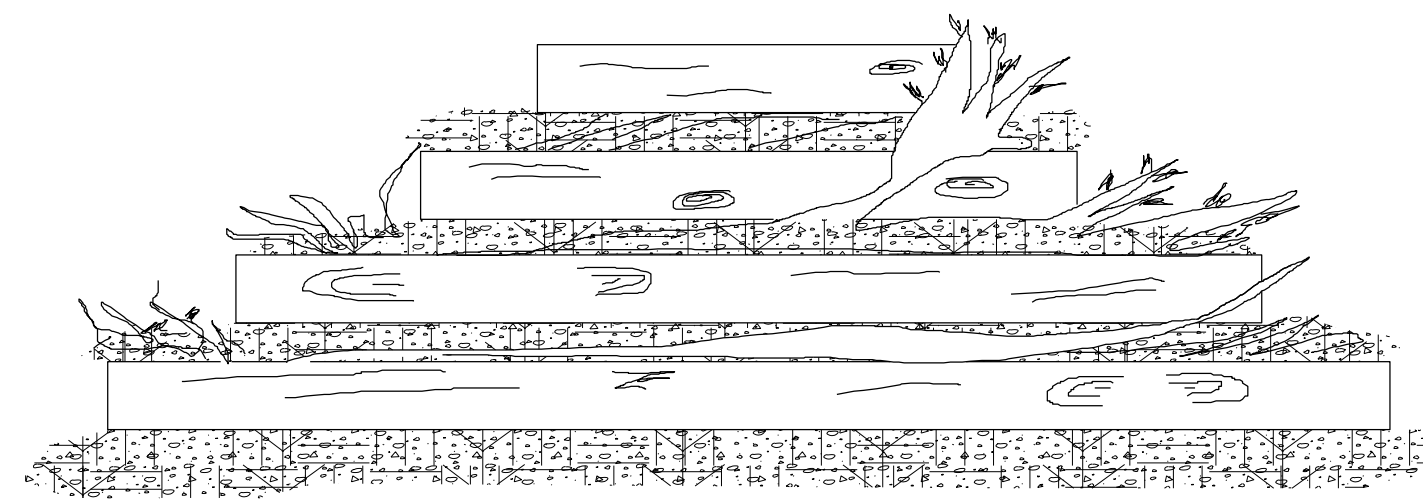
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-200-2

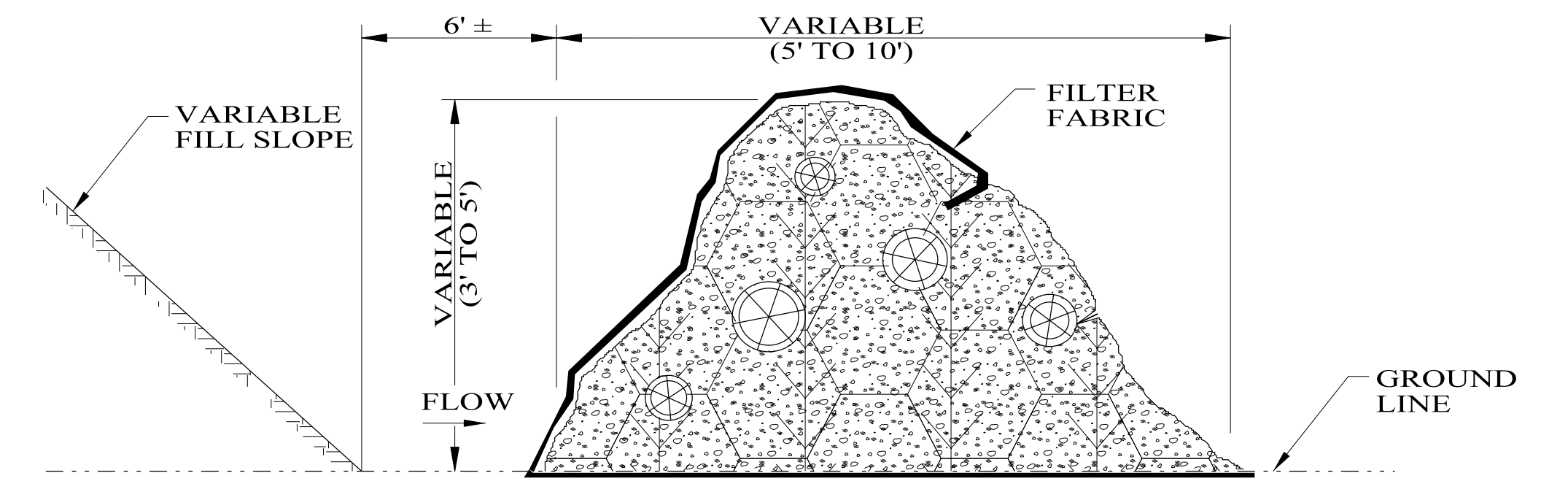
INDEX NO
66506



SEDIMENT BARRIER AT CROSS DRAIN



REAR ELEVATION



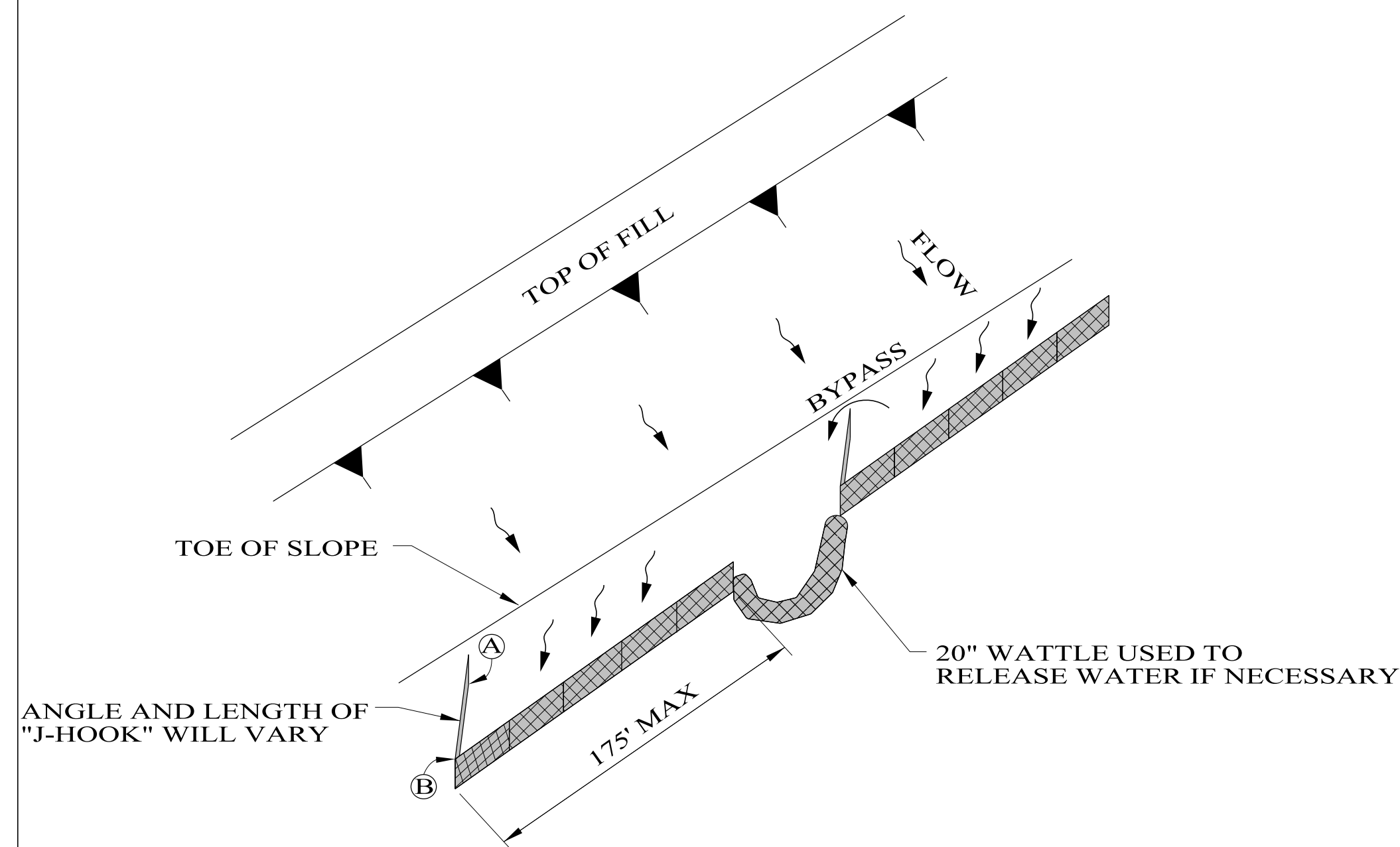
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

NOTES:

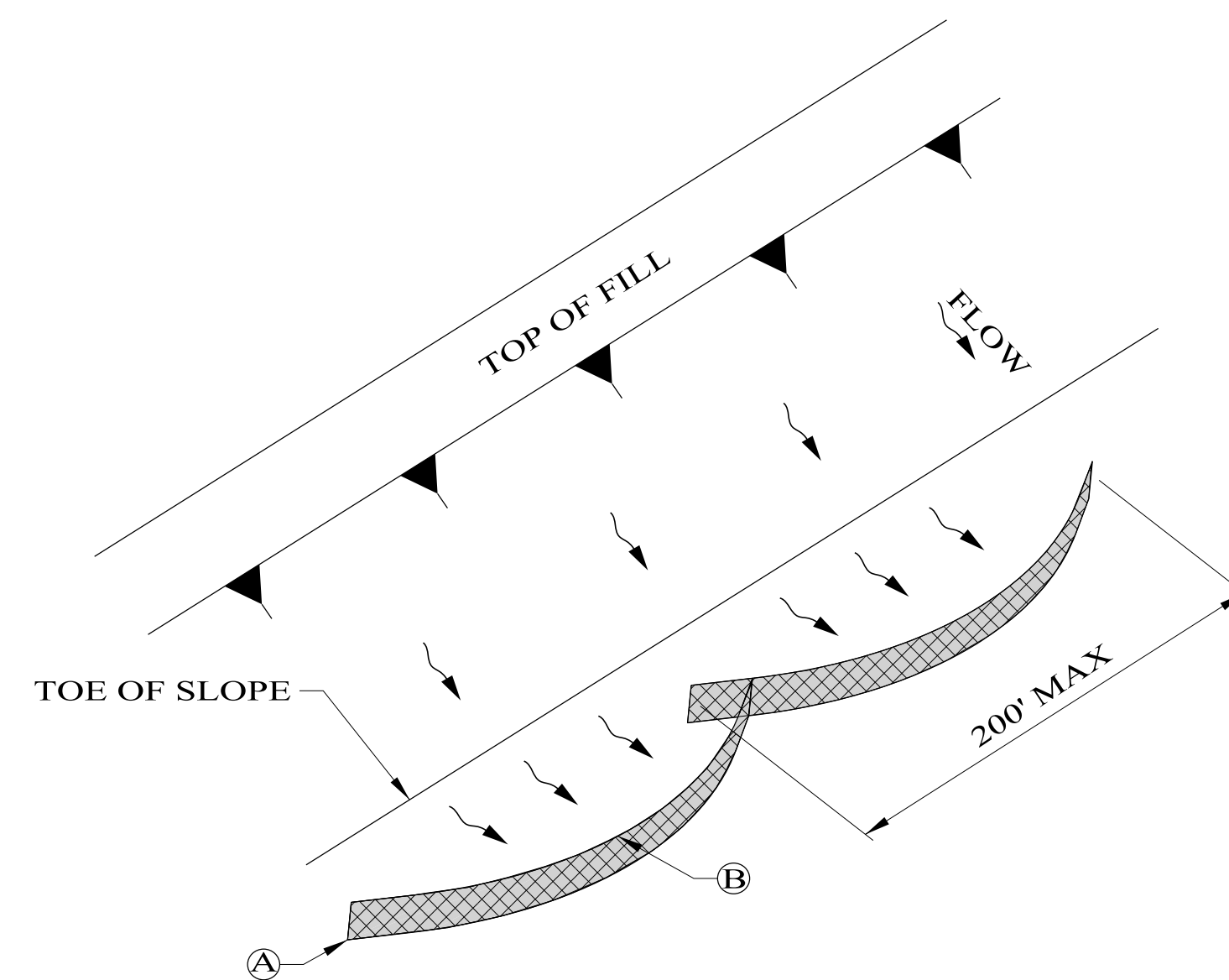
- BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
- PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED 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.



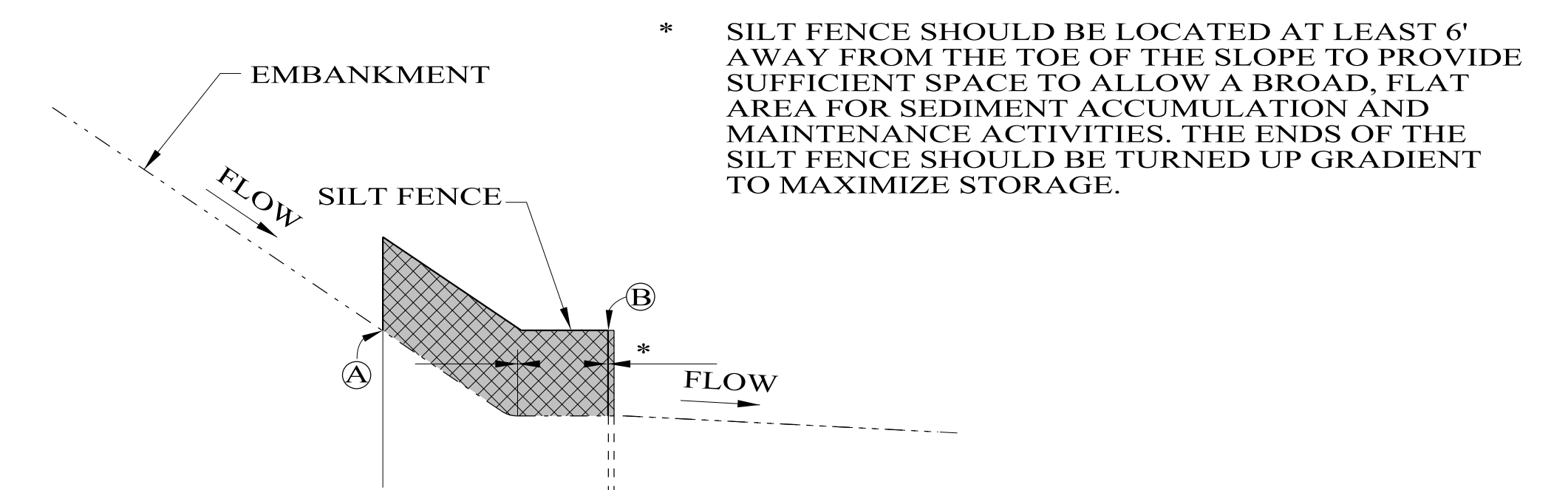
"J-HOOK" SILT FENCE APPLICATION

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).



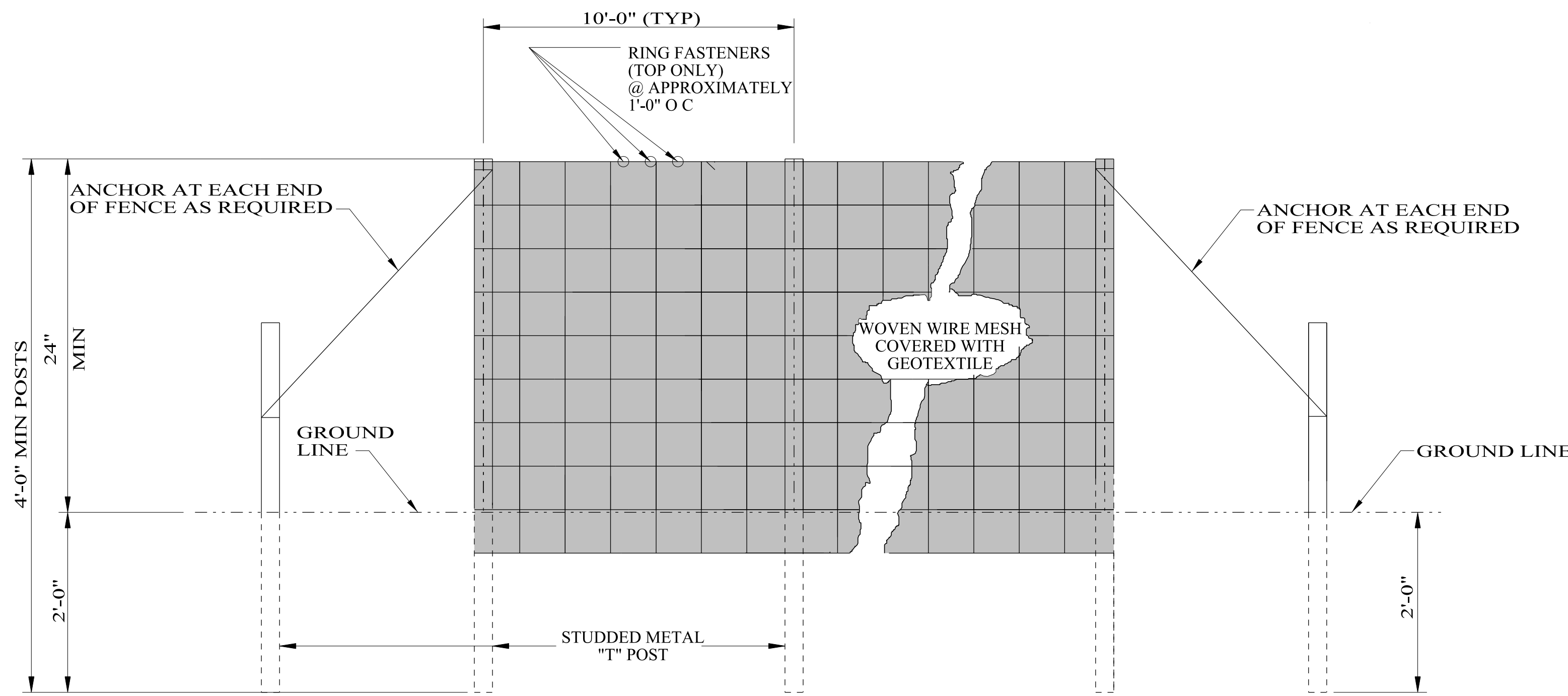
"SMILE-CONFIGURATION" SILT FENCE APPLICATION

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

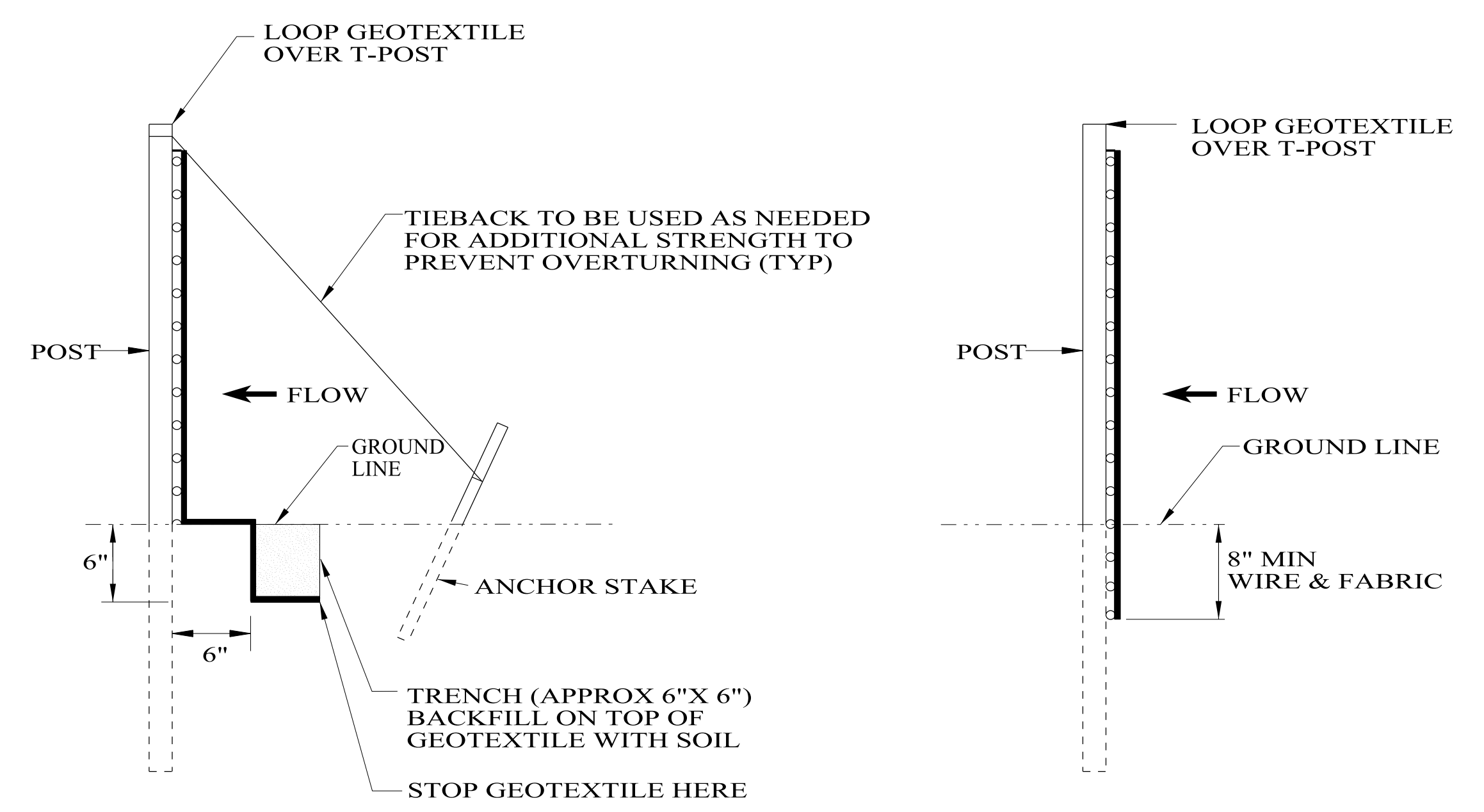


SILT FENCE SECTION AT TOE OF SLOPE

NOT TO SCALE



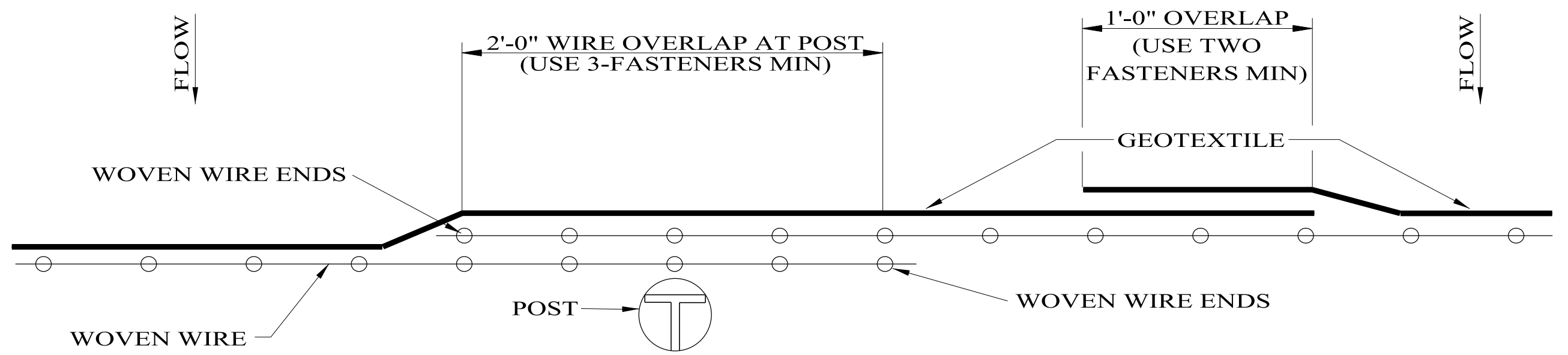
ELEVATION VIEW



METHOD I

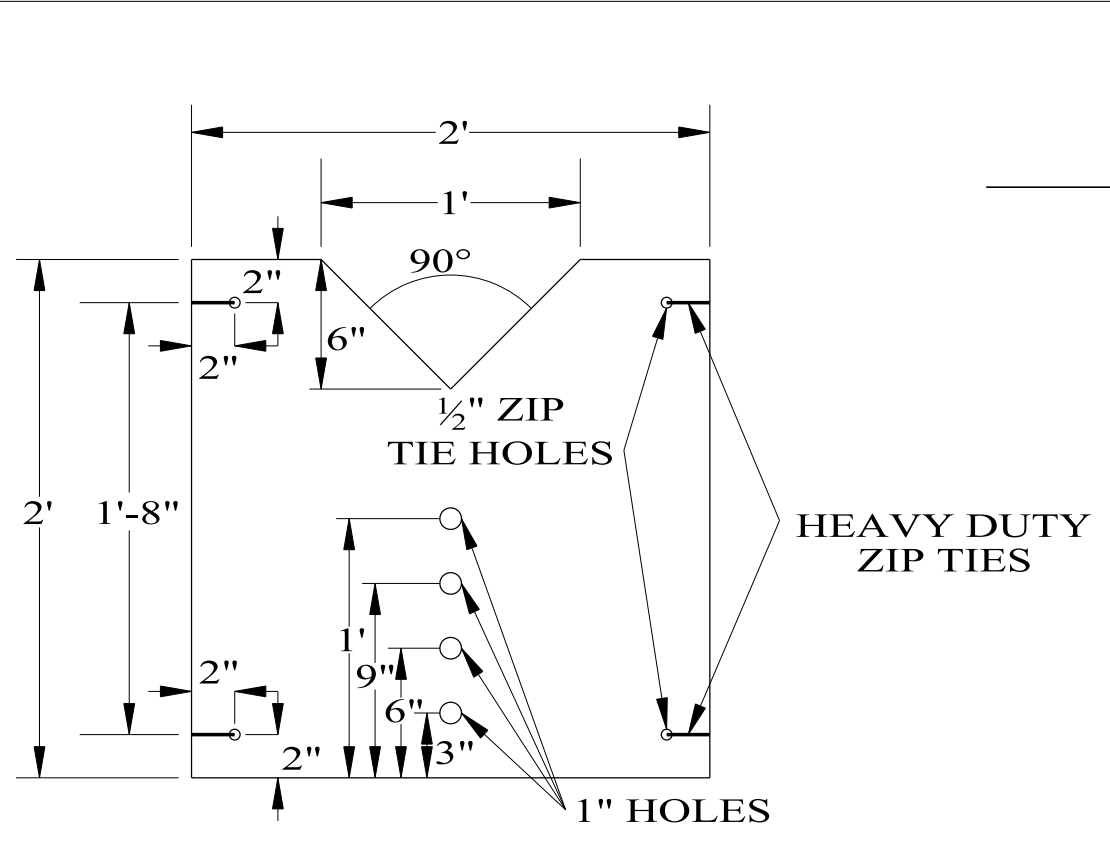
METHOD II
MECHANICAL INSTALLATION

SIDE VIEW



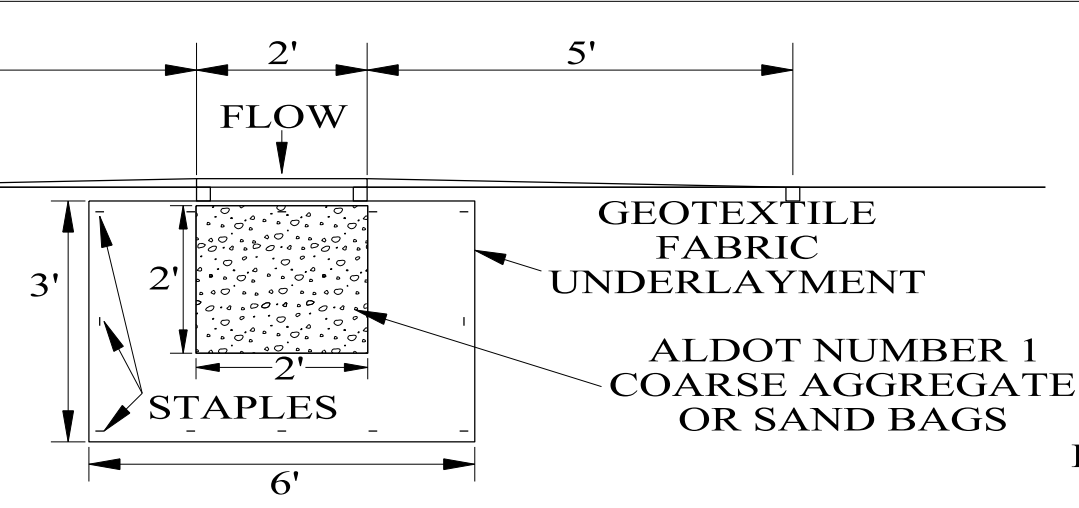
PLAN VIEW
REQUIRED LAPPING

- NOTES:
- METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
 - SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
 - SILT FENCES 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.
 - SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
 - WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATE SEDIMENTATION.
 - FOR AREAS OF CONCENTRATED IMPOUNDMENT, T-POST SPACING SHOULD BE REDUCED TO 5 FT WITH THE INCORPORATION OF A DEWATERING WEIR.
 - THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
 - 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.
 - SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.
 - THE DEWATERING WEIR AND ALL ASSOCIATED ITEMS AND LABOR SHALL BE A SUBSIDIARY OBLIGATION OF THE SILT FENCE.

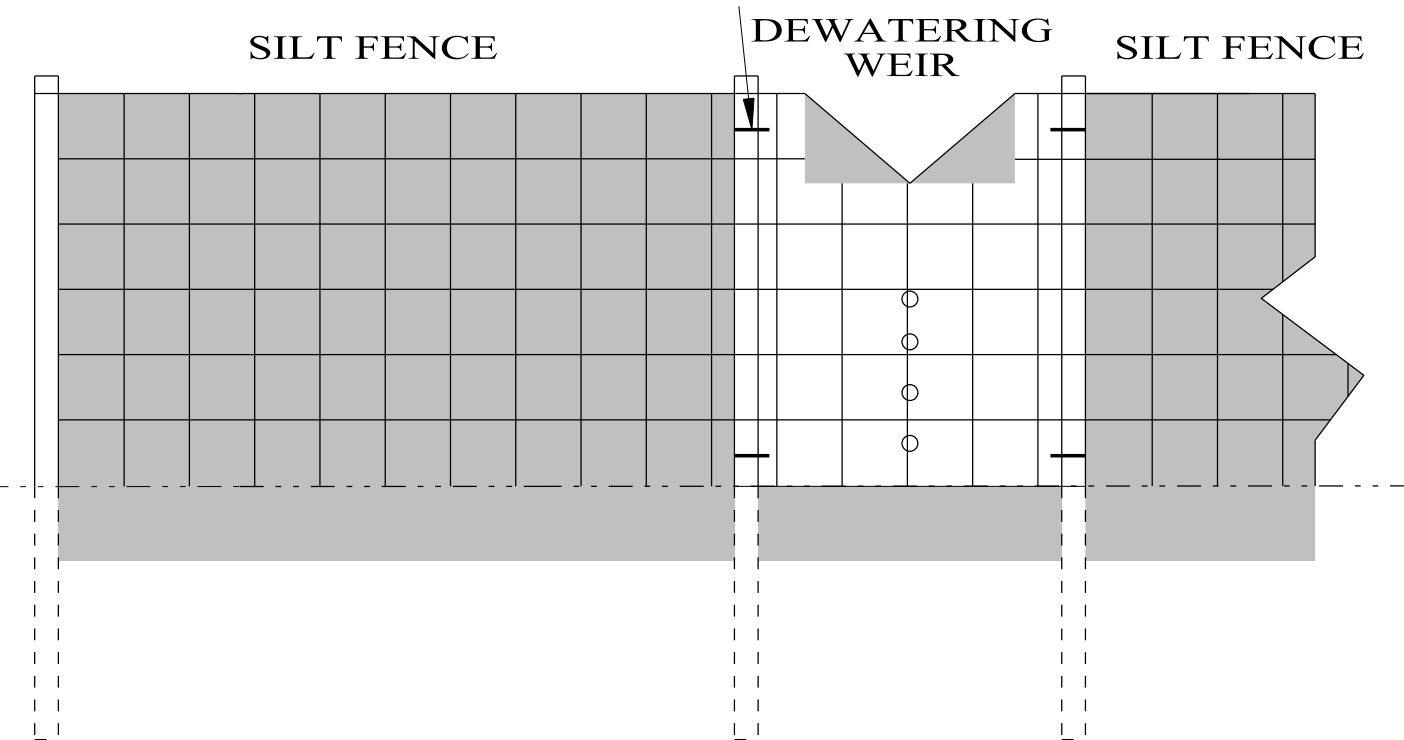


WEIR DETAIL
CONSTRUCTED OF 3/4" PLYWOOD

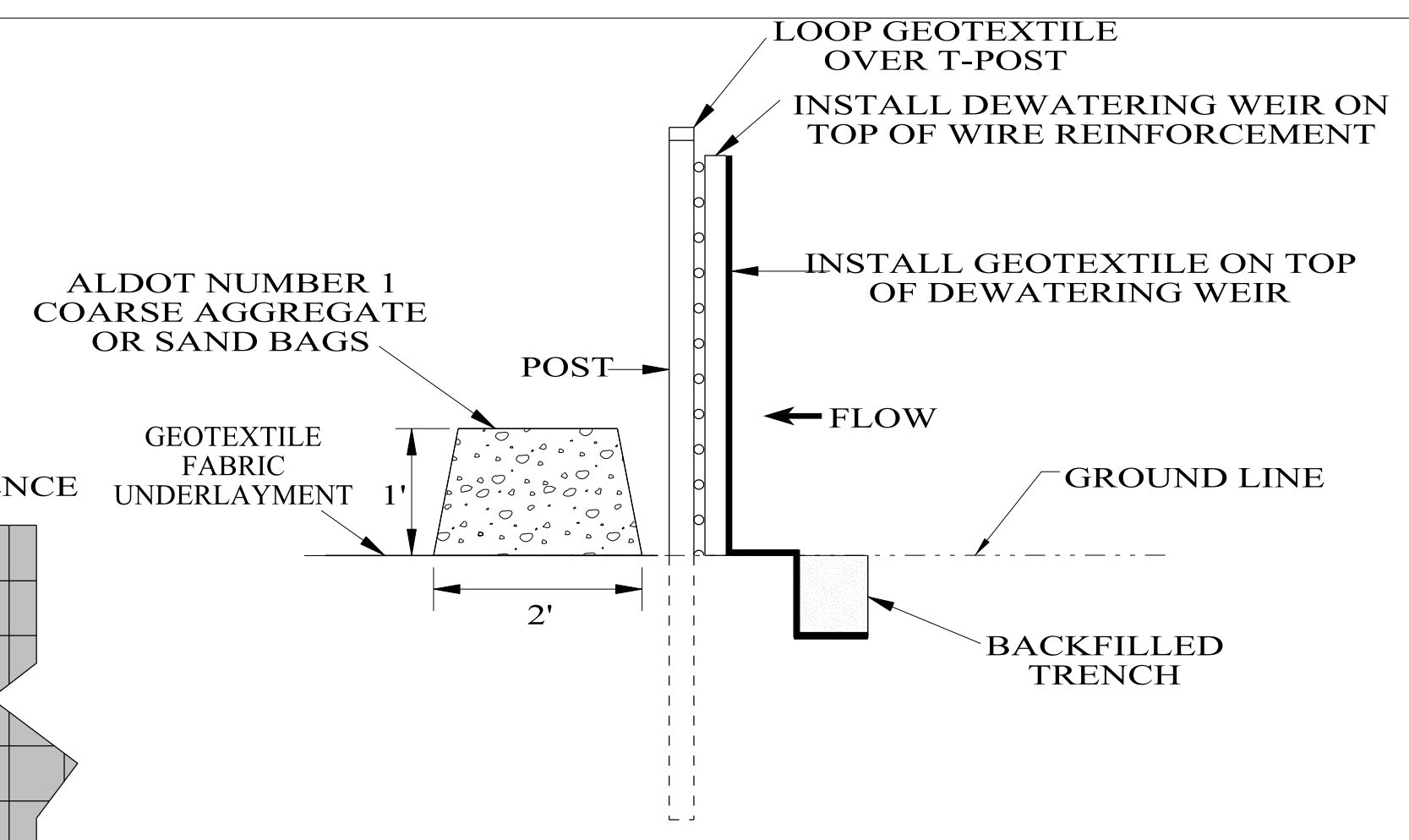
DEWATERING WEIR



PLAN VIEW

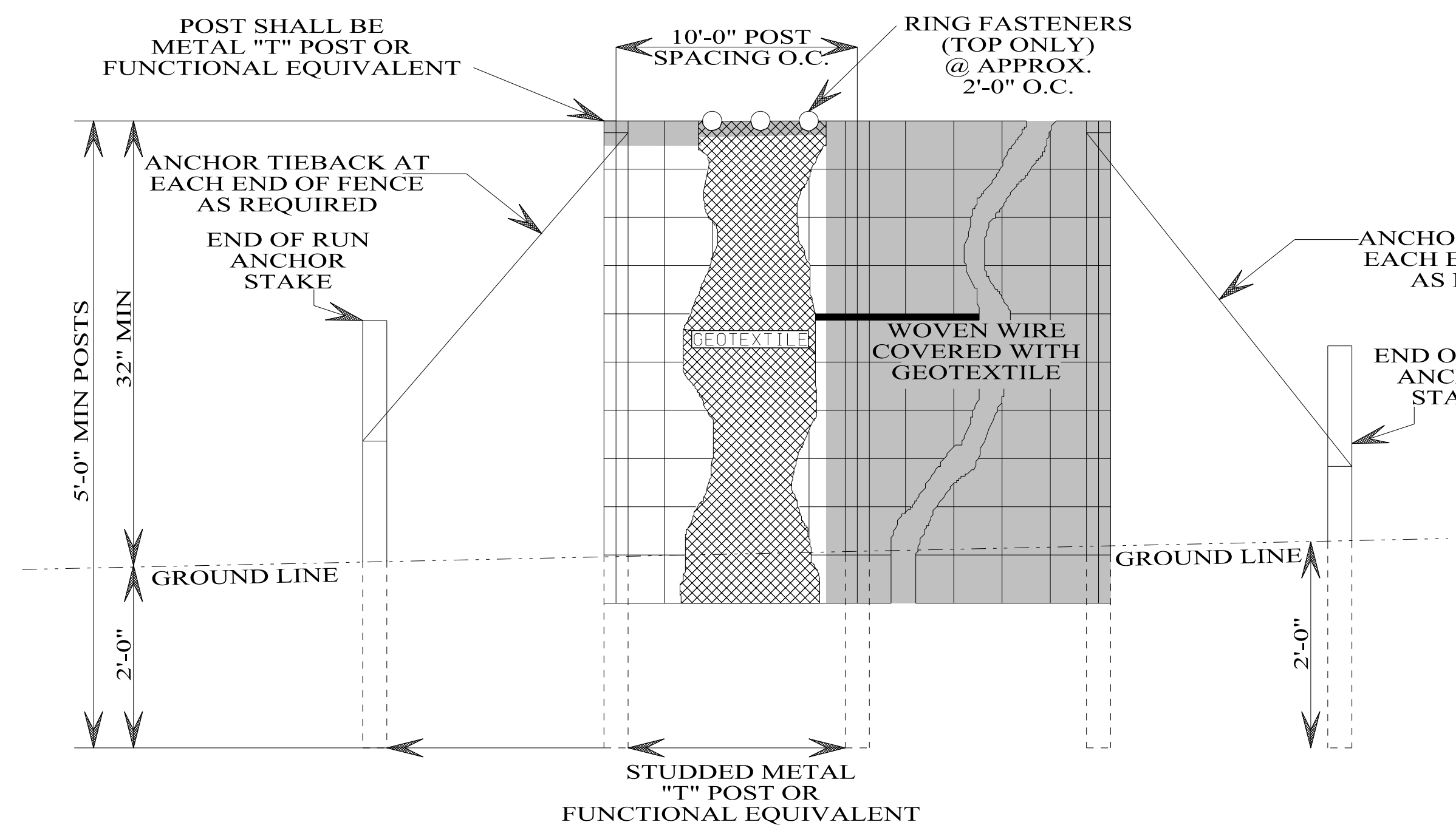


ELEVATION (DOWNSTREAM) VIEW

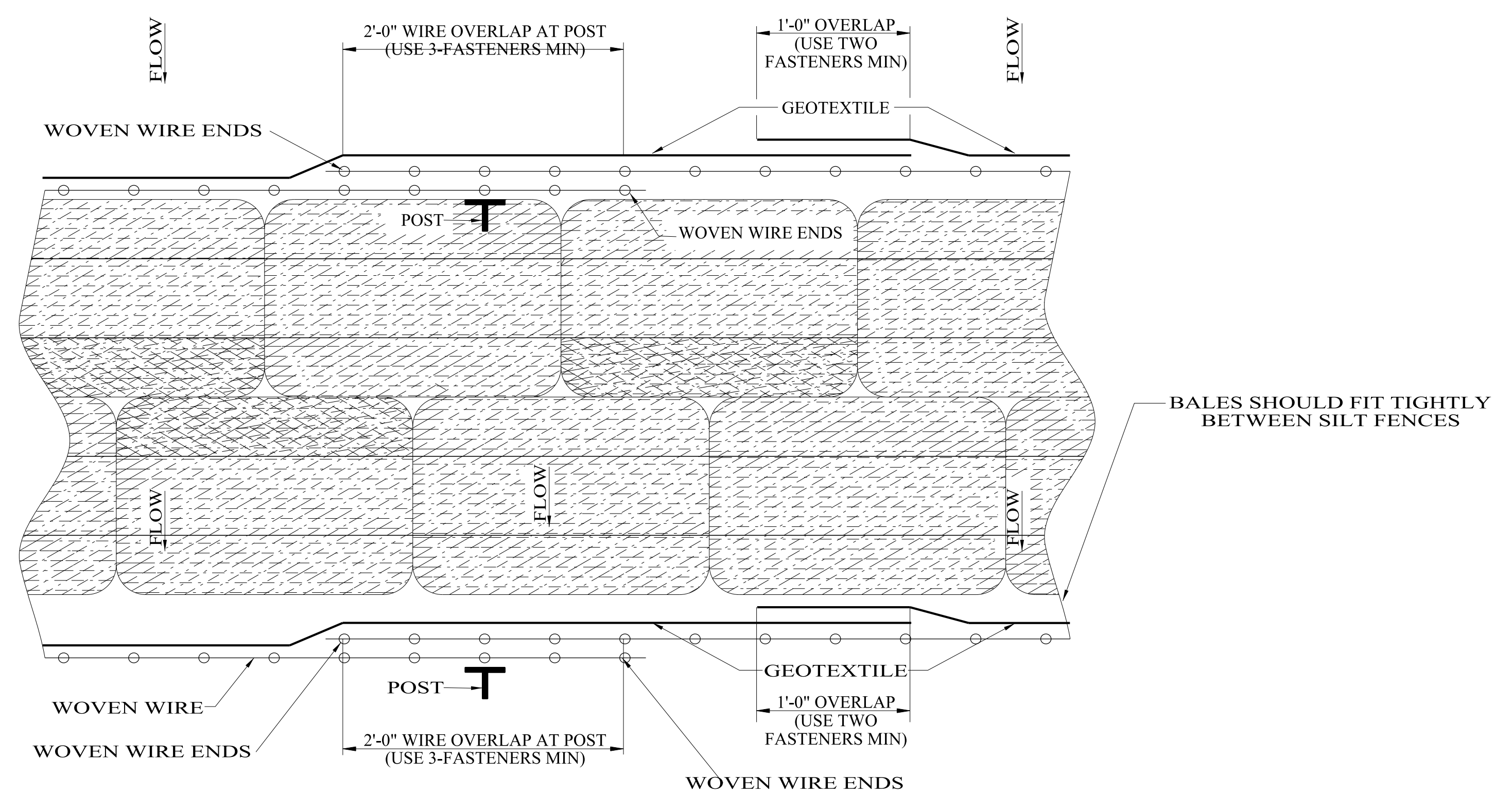


SIDE VIEW

NOT TO SCALE

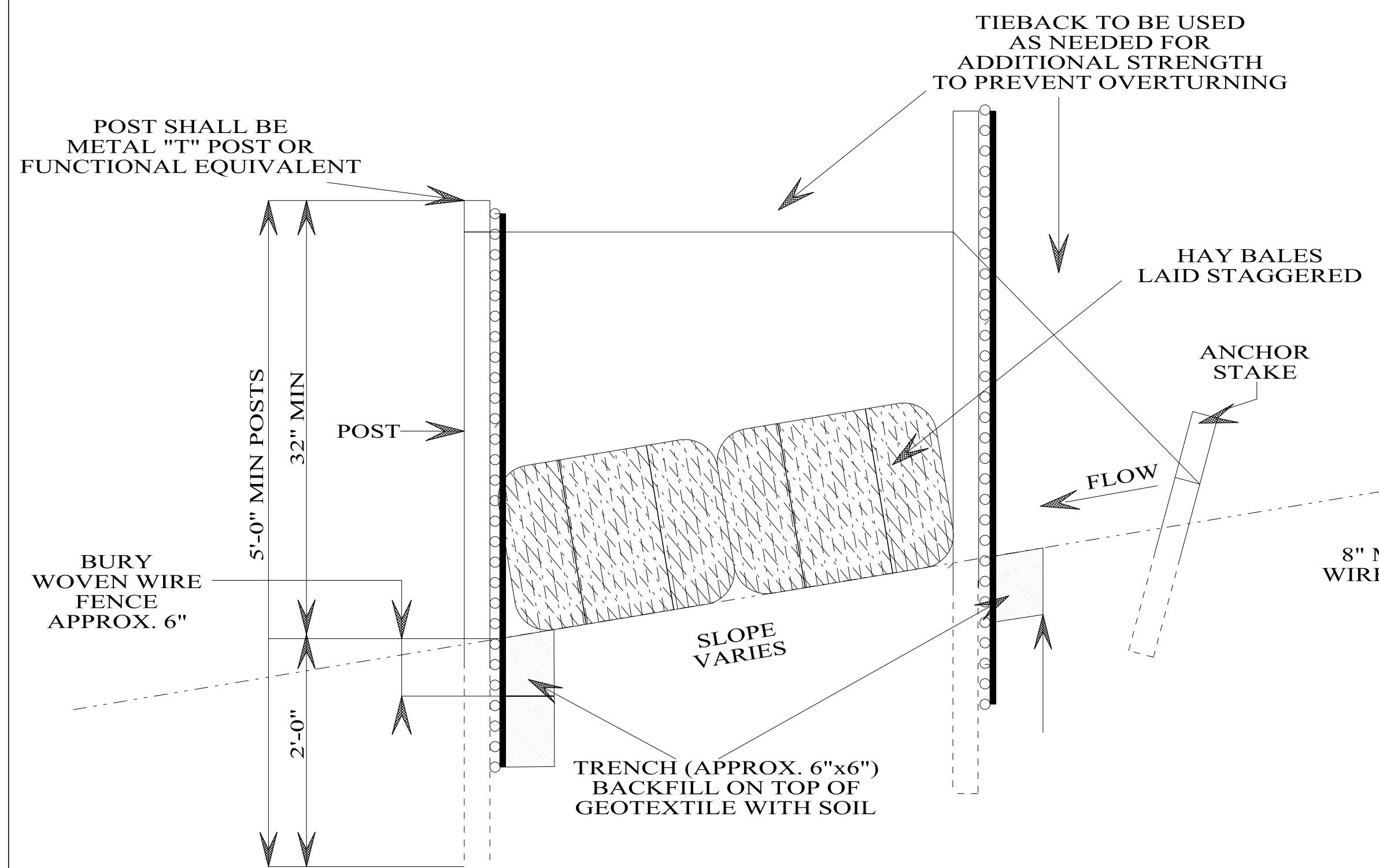


ELEVATION VIEW

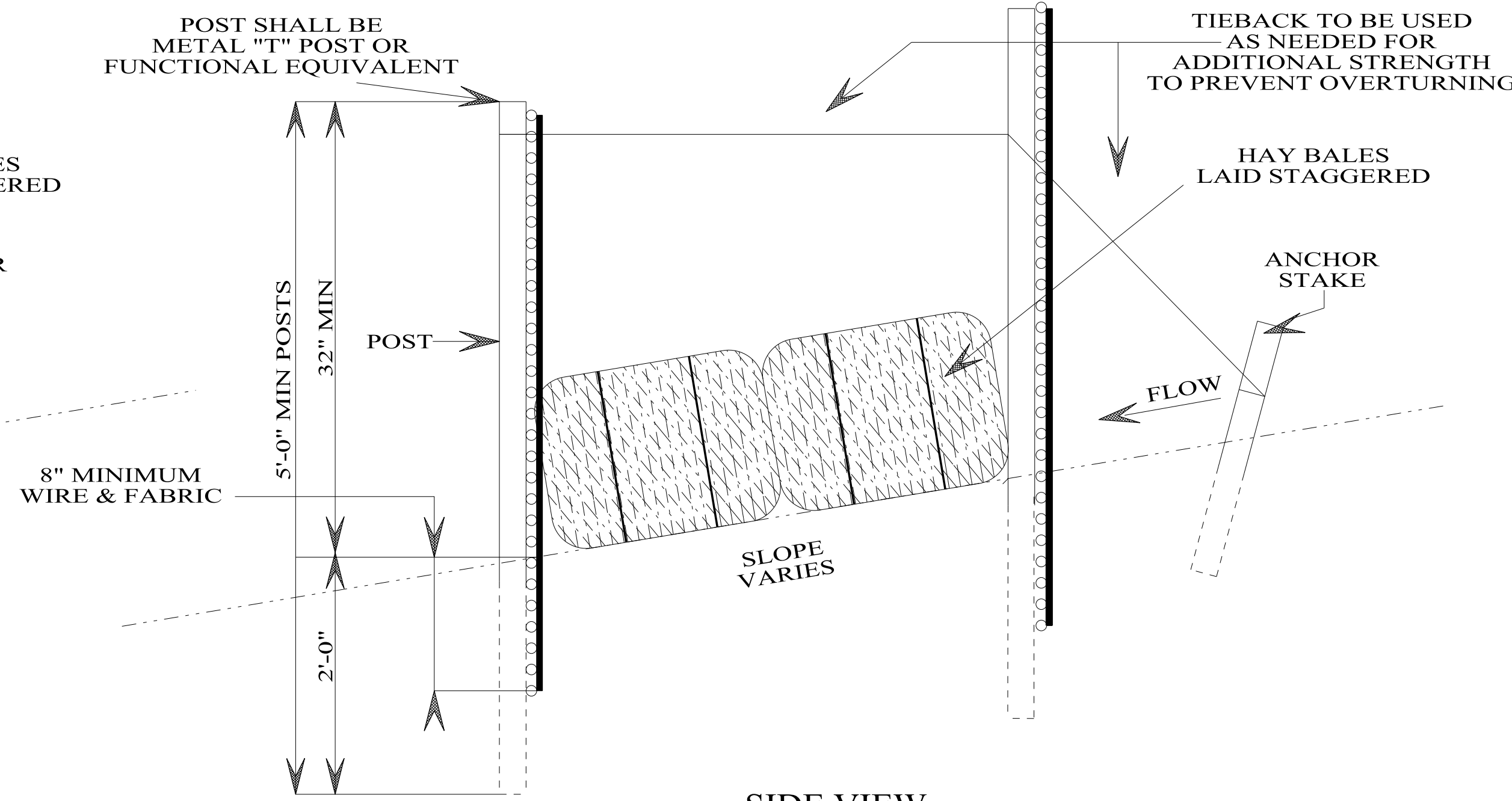


PLAN VIEW
REQUIRED LAPPING

- NOTES:
- METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
 - SEDIMENT RETENTION BARRIER SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
 - 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.
 - 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.
 - WHEREVER POSSIBLE SEDIMENT RETENTION BARRIERS SHALL BE CONSTRUCTED ALONG A CONTOUR WITH THE ENDS TURNED. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
 - THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
 - 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.
 - SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.

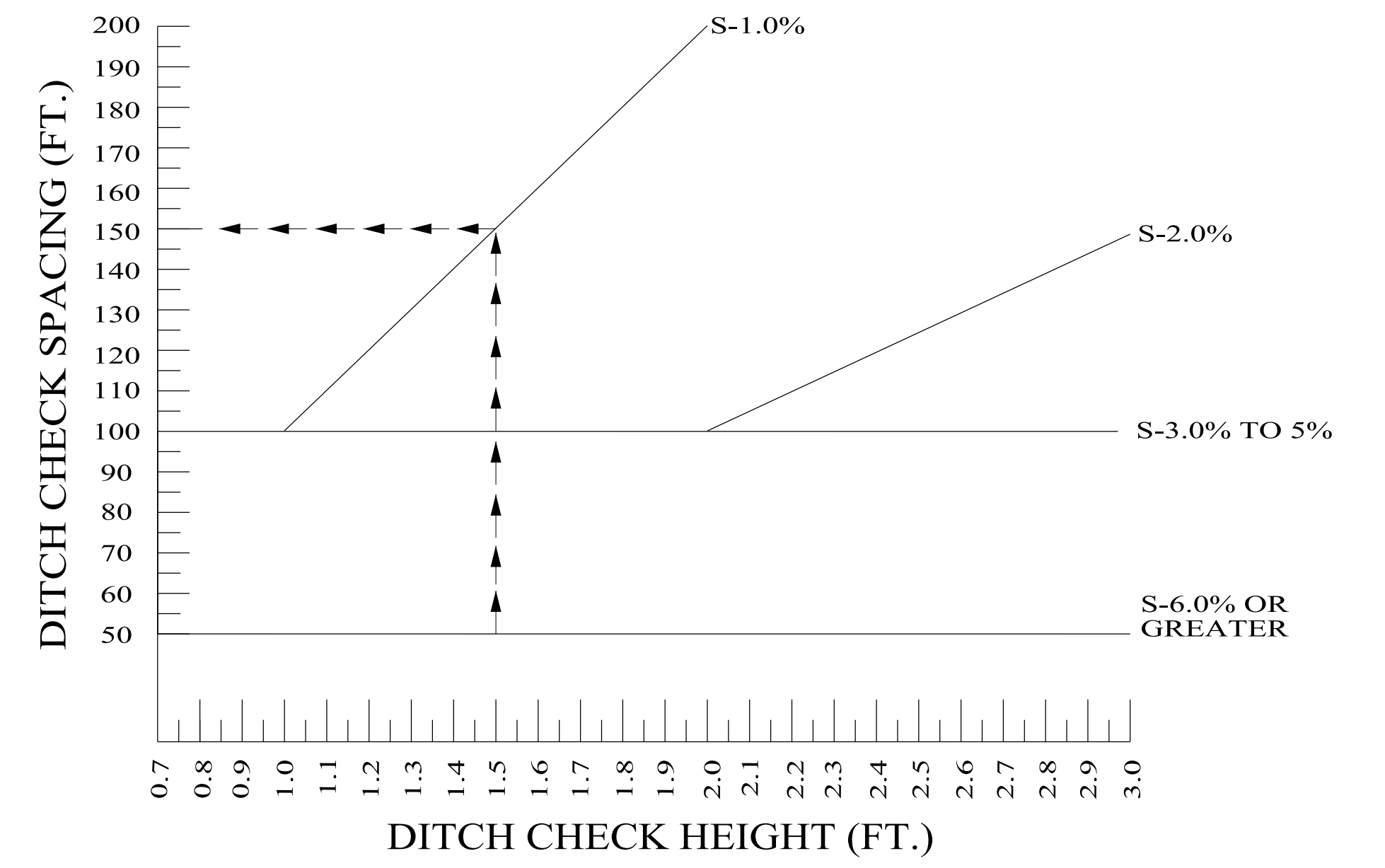
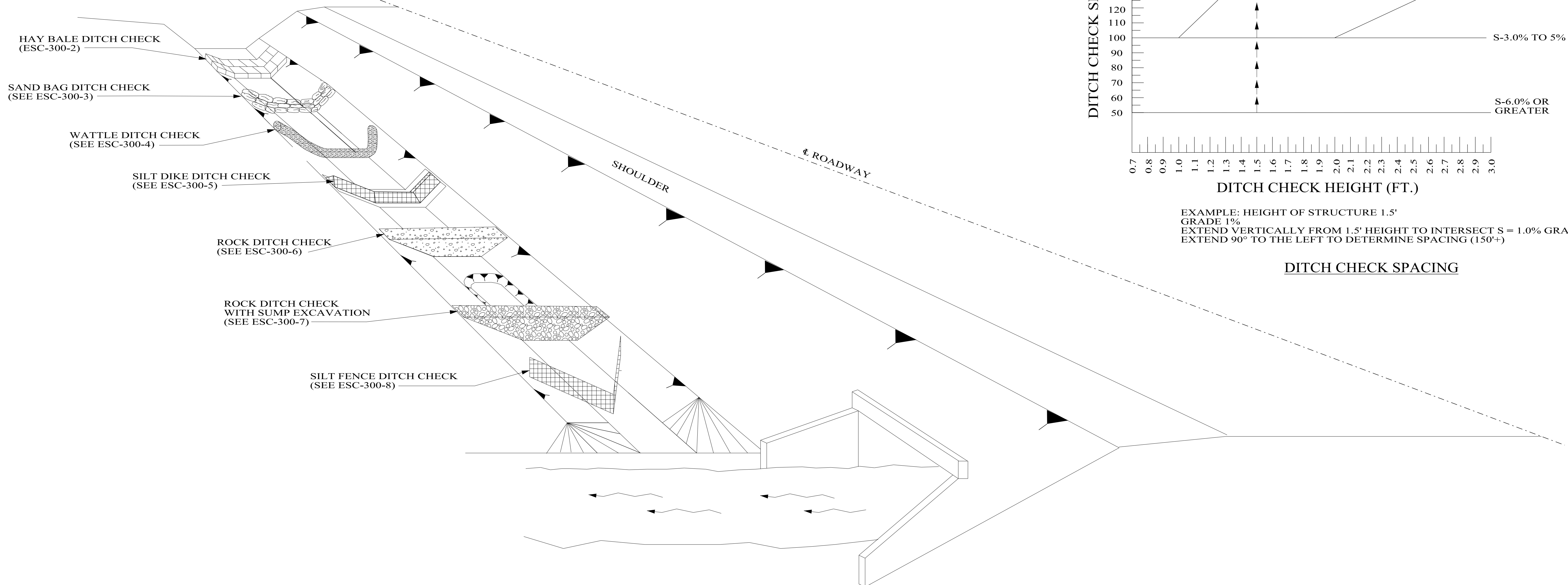


SIDE VIEW
SECTION A-A
METHOD I

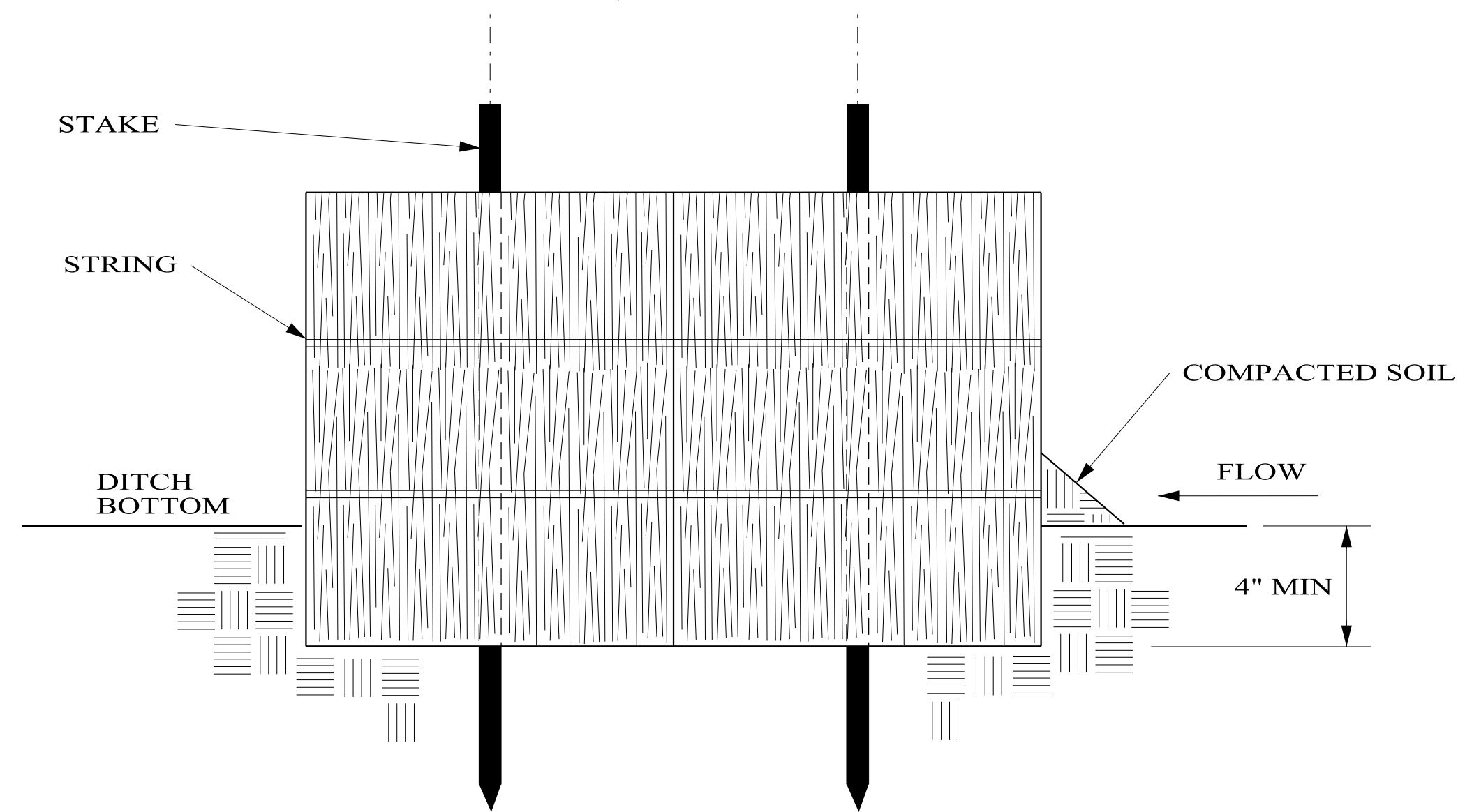


SIDE VIEW
SECTION A-A
METHOD II
MECHANICAL INSTALLATION

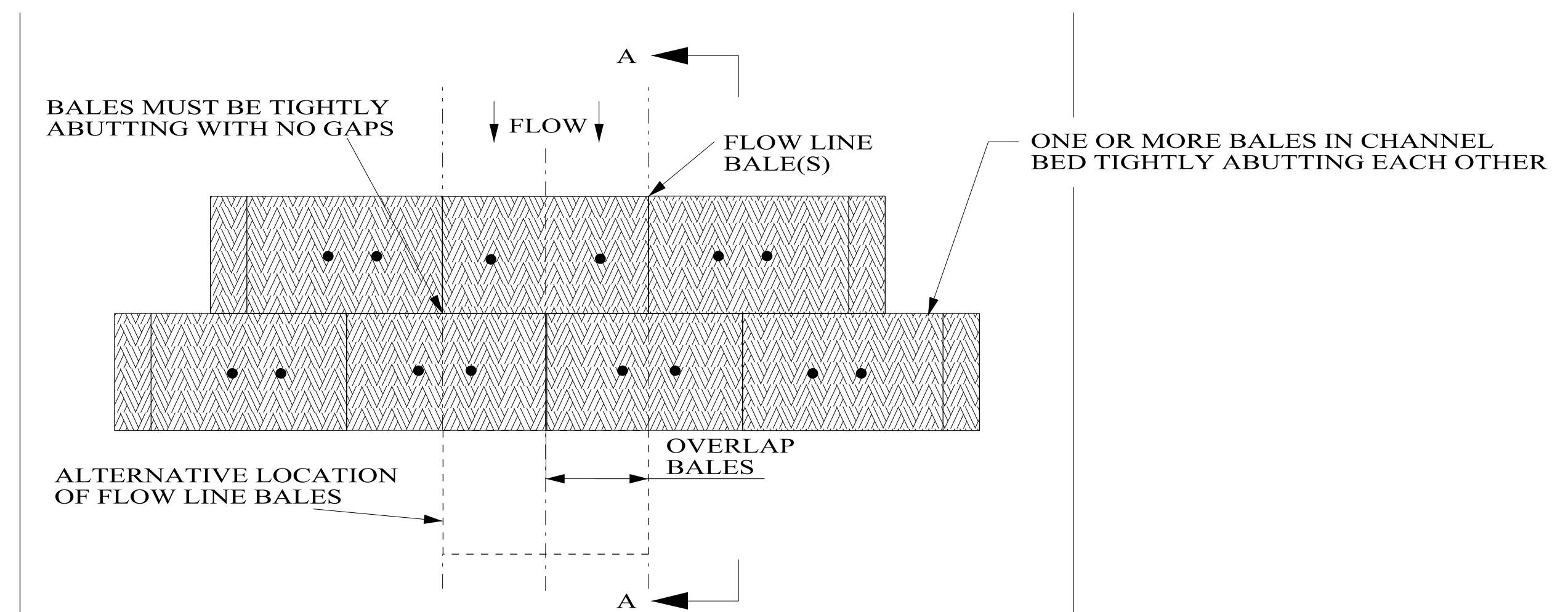
NOT TO SCALE



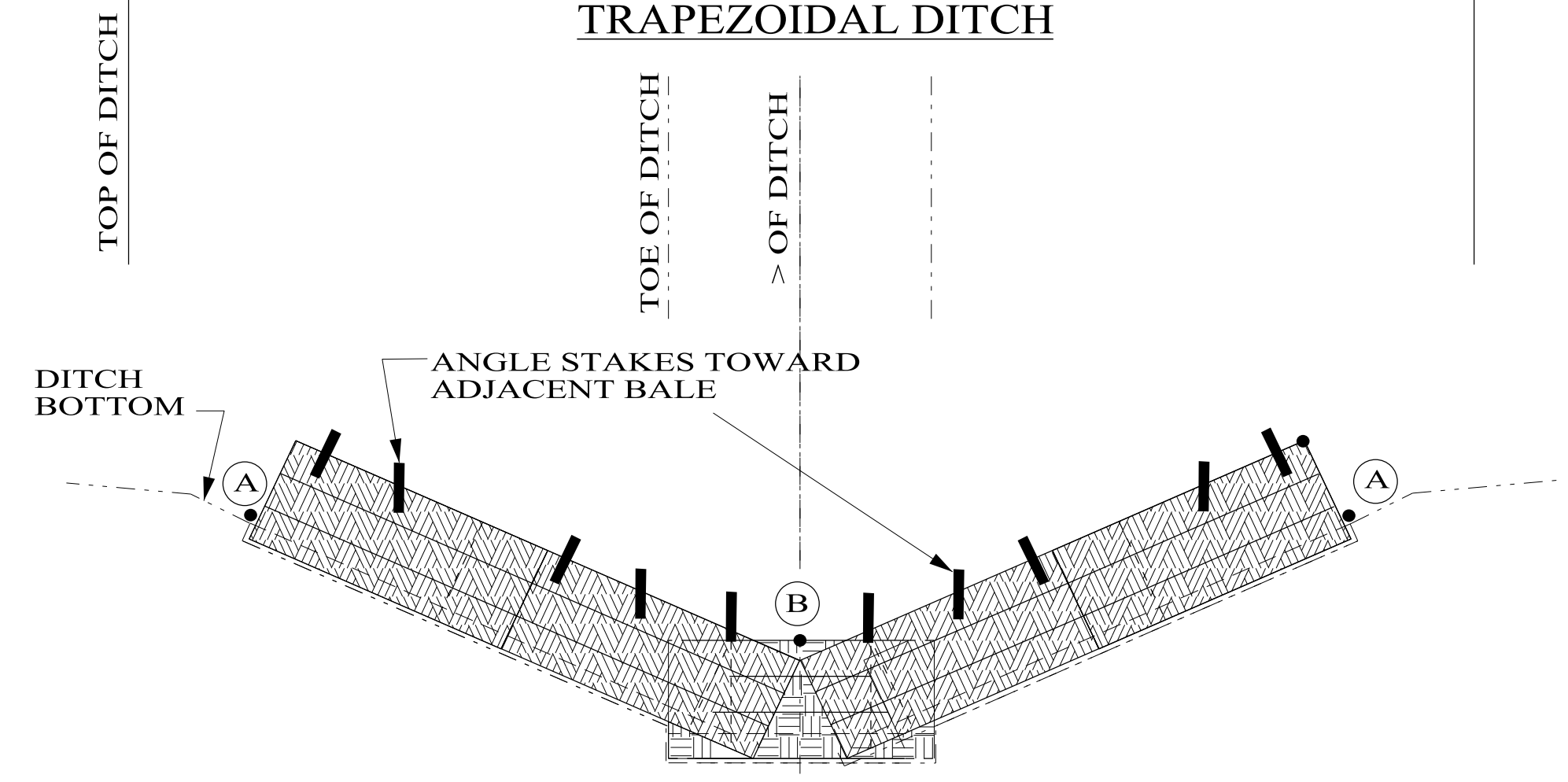
- NOTES:
1. THE DITCH CHECK PERSPECTIVE ILLUSTRATES A TOOL BOX OF TEMPORARY PRACTICES THAT MAY BE DIRECTED OR PERMITTED BY THE ENGINEER. DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS.
 2. SELECTION OF THE APPROPRIATE DITCH CHECK SHOULD BE A FUNCTION OF CONSTRUCTION PHASE, DRAINAGE AREA, DITCH GRADIENT, SOIL TYPE, ECONOMY AND SAFETY.
 3. DITCH CHECKS CAN BE REMOVED FOR MAINTENANCE AND/OR REPLACEMENT BUT MUST REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED. MAINTENANCE INCLUDES REMOVAL OF SEDIMENT BEGINNING WHEN SEDIMENT ACCUMULATION REACHES 1/3 THE CAPACITY OR HEIGHT OF THE STRUCTURE AND NEVER ALLOWING FOR SEDIMENT TO ACCUMULATE MORE THAN 1/2 THE VOLUME OR HEIGHT OF THE DITCH CHECK STRUCTURE.
 4. HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.
 5. SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS.
 6. WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.
 7. SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED. AS CONSTRUCTION PROGRESSES.
 8. THE TYPE AND SIZE OF ROCK USED TO CONSTRUCT ROCK DITCH CHECKS WILL BE SELECTED BY THE DESIGNER AND SHOWN ON THE PLANS. THE SIZE OF ROCK CHOSEN SHOULD BE PROPORTIONAL TO EXPECTED FLOWS AND VELOCITIES. SEDIMENT TRAPPING EFFECTIVENESS MAY BE ADJUSTED BY CHOKING.
 9. ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES TO FACILITATE ON-SITE SEDIMENT TRAPPING. DITCH CHECK WITH SUMP EXCAVATION IS USED WHEN DITCHES IS USED RECEIVE DRAINAGE FROM CUT OR FILL SLOPES OR OTHER CRITICAL AREAS WHERE SOIL EROSION IS EXPECTED. DRAINAGE AREA FOR A TEMPORARY SEDIMENT TRAP SHALL NOT EXCEED 3 ACRES. THEY CAN BE USED IN SERIES TO INCREASE ON-SITE SEDIMENT TRAPPING EFFICIENCY.
 10. DITCH CHECKS SHALL NOT BE PLACED IN LIVE STREAMS.
 11. CONFIGURATION AND SPACING MAY BE ADJUSTED IF APPROVED BY THE ENGINEER TO ACCOMMODATE TRAVELWAY SAFETY, WATER FLOW, OR SOIL AND INSTALLATION CHALLENGES.
 12. SILT FENCE DITCH CHECKS ARE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE, OR SILT FENCE DITCH CHECKS CAN BE JUSTIFIED BASED ON COST. SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.



SECTION A-A



PLAN VIEW
TRAPEZOIDAL DITCH



PROFILE VIEW
TRAPEZOIDAL DITCH

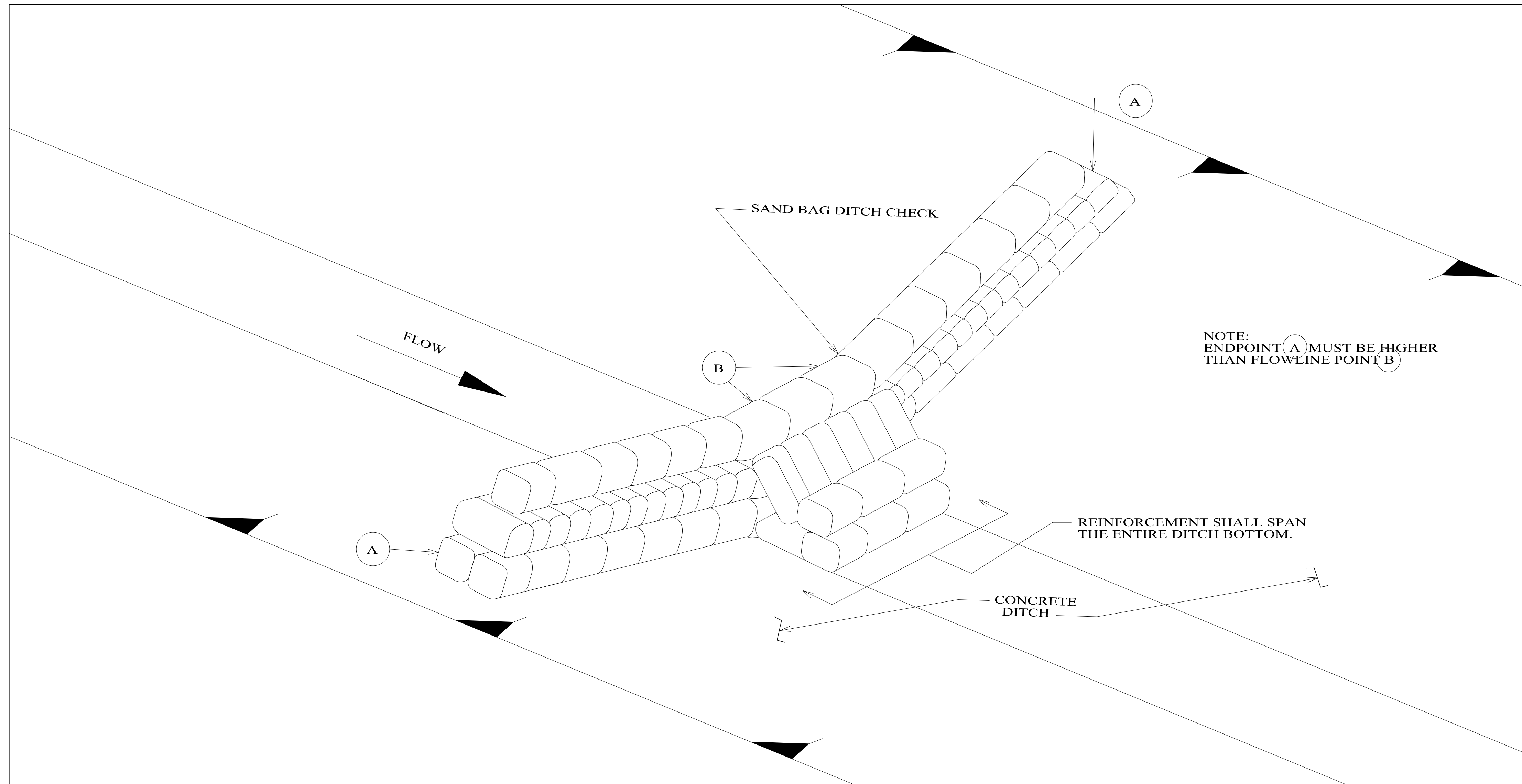
END POINTS (A) MUST BE HIGHER THAN FLOW LINE POINT (B)

- 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.

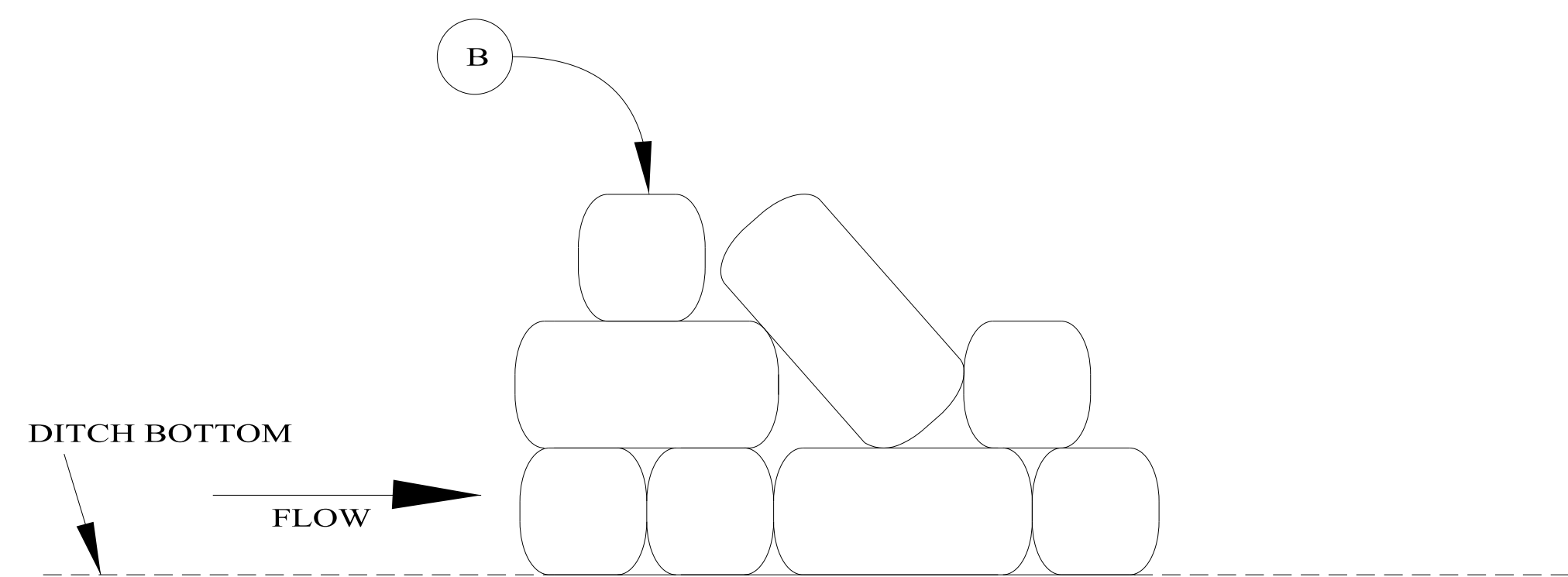
HAY BALE DITCH CHECK SELECTION GUIDELINES

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

NOT TO SCALE



DETAIL (DITCH CHECK)



**SIDE VIEW
(IN DITCH BOTTOM)**

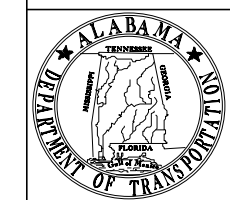
NOTES:

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.

NOT TO SCALE



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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)" 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 10-31-2016 by J.F.T. and J.M.M.

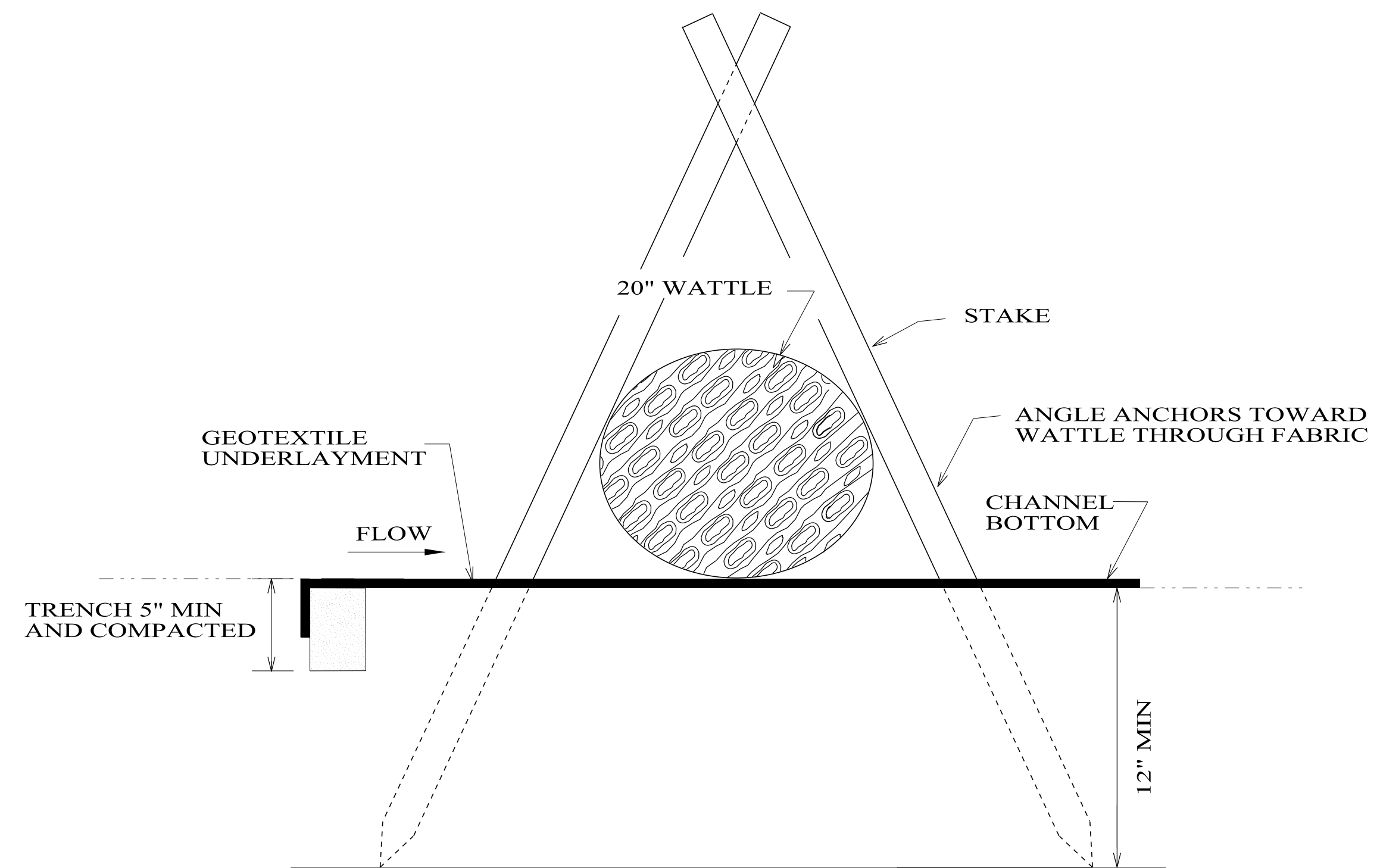
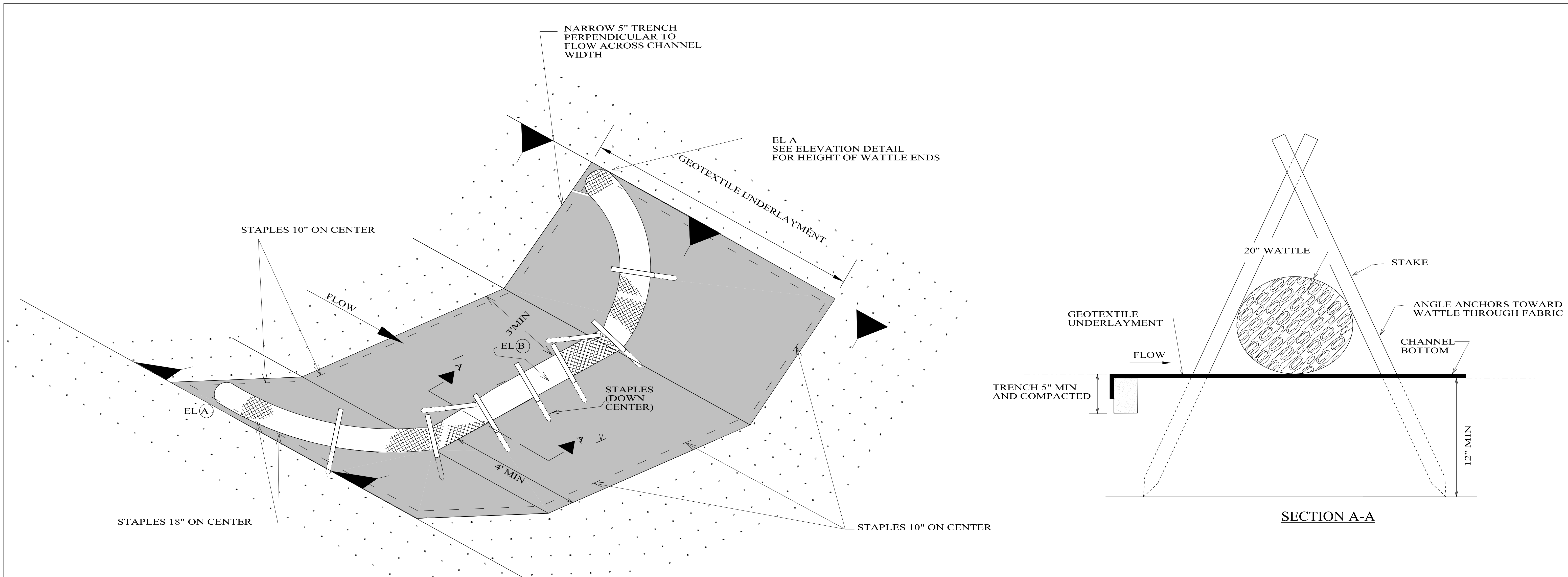
Bureau Sd Engr: D.J.W.
DRAWN BY: J.F.T.
DATE DRAWN: 7-2-2014
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
**DETAILS OF SANDBAG
DITCH CHECK**

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-300-3

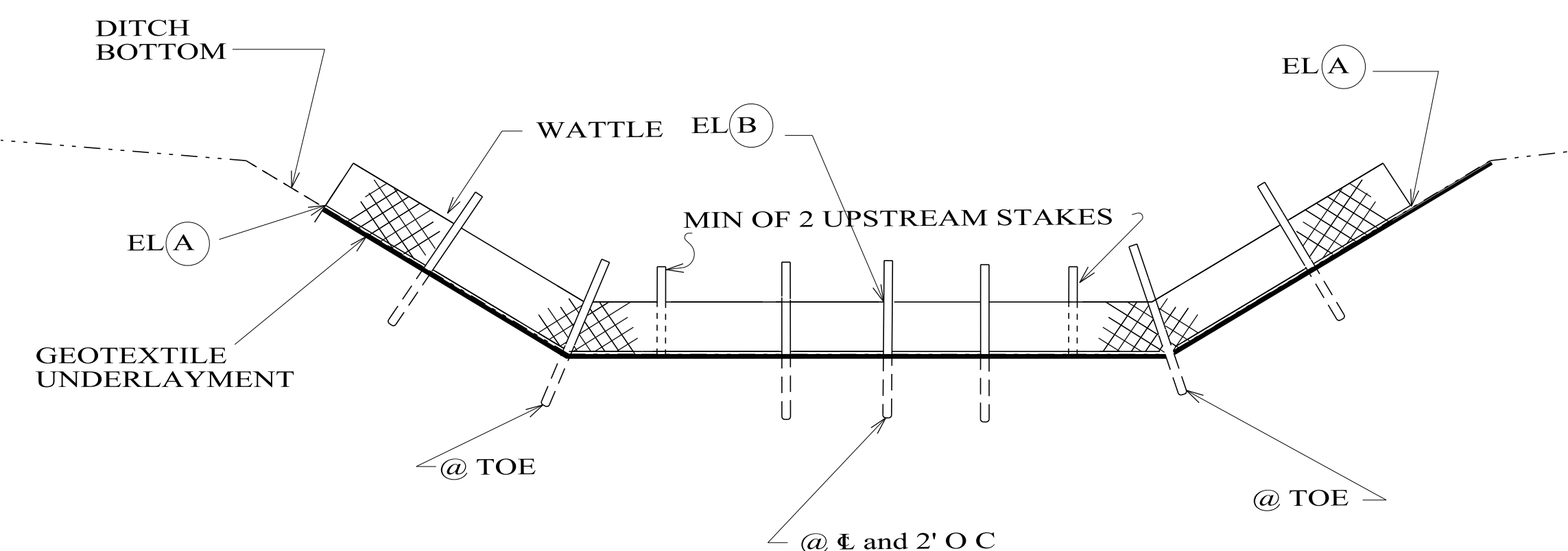
INDEX NO
66514



DETAIL (DITCH CHECK)

NOTES:

1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK 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, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.



ELEVATION DETAIL

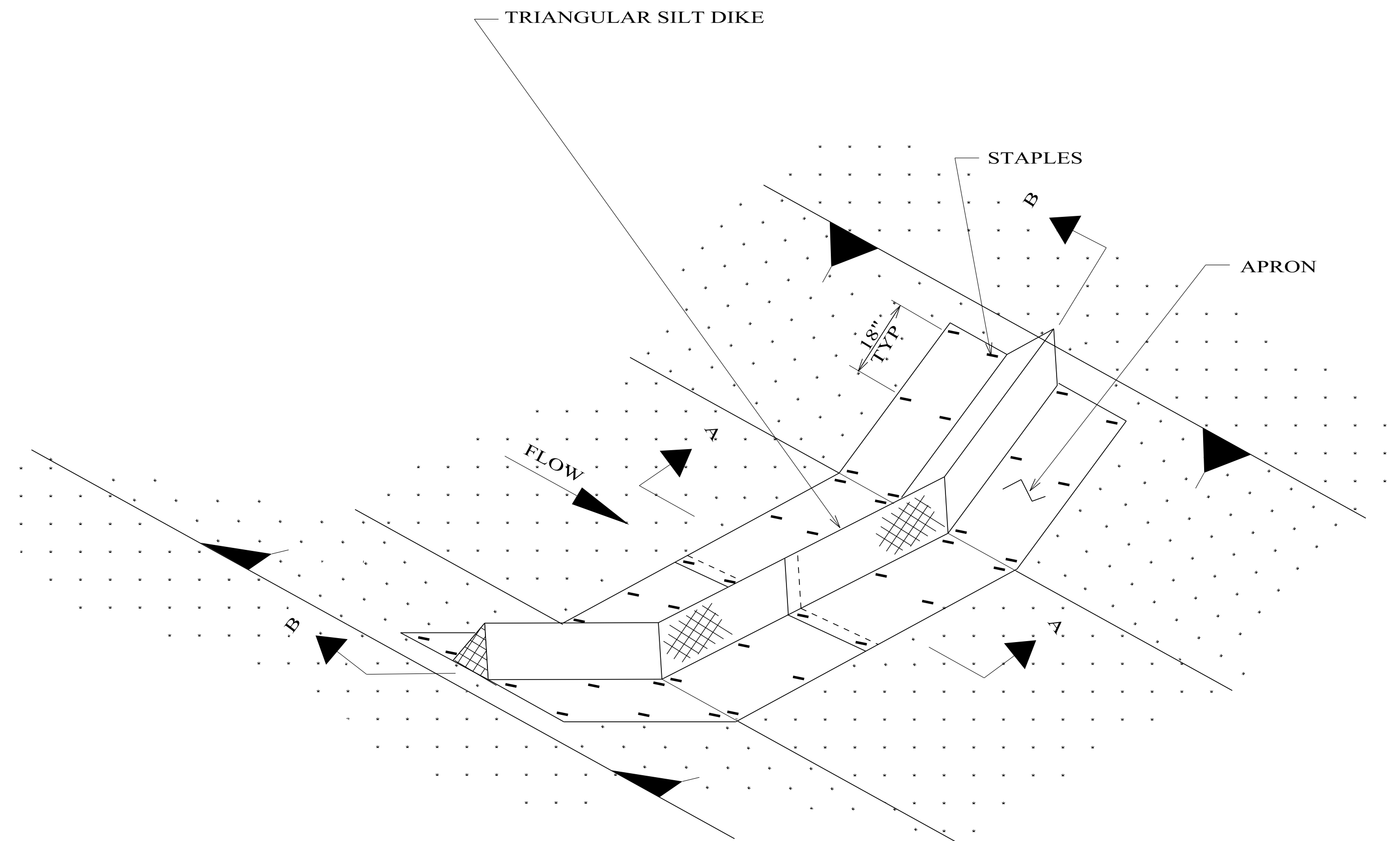
NOTE:
END POINTS A MUST BE HIGHER THAN FLOWLINE POINT B

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

NOT TO SCALE

--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO ESC-300-4	INDEX NO 66515



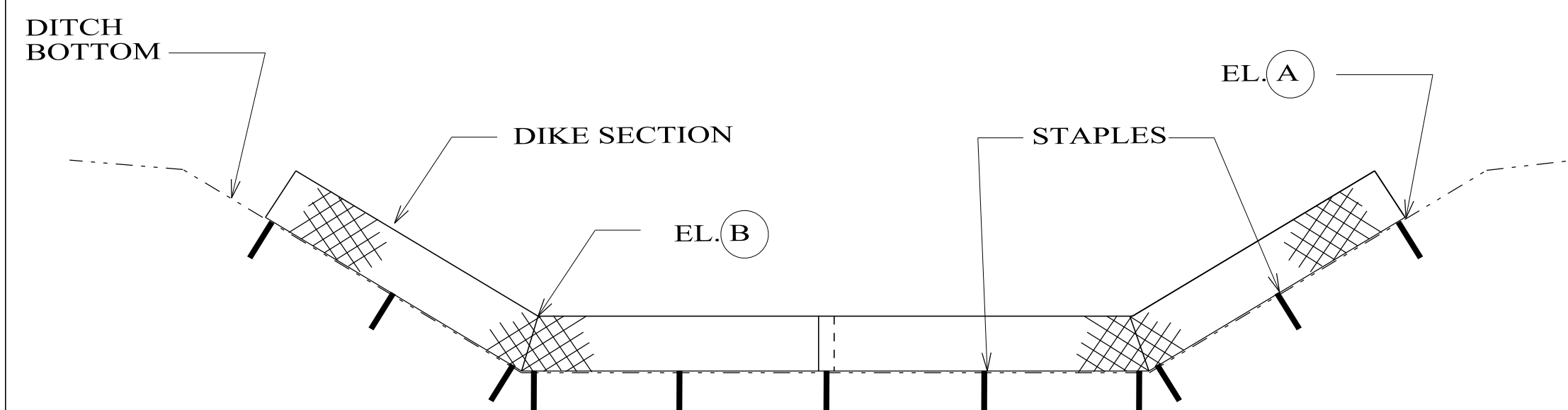
PLAN VIEW

SILT DIKE DITCH CHECK SELECTION GUIDELINES

SILT DIKES CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED.

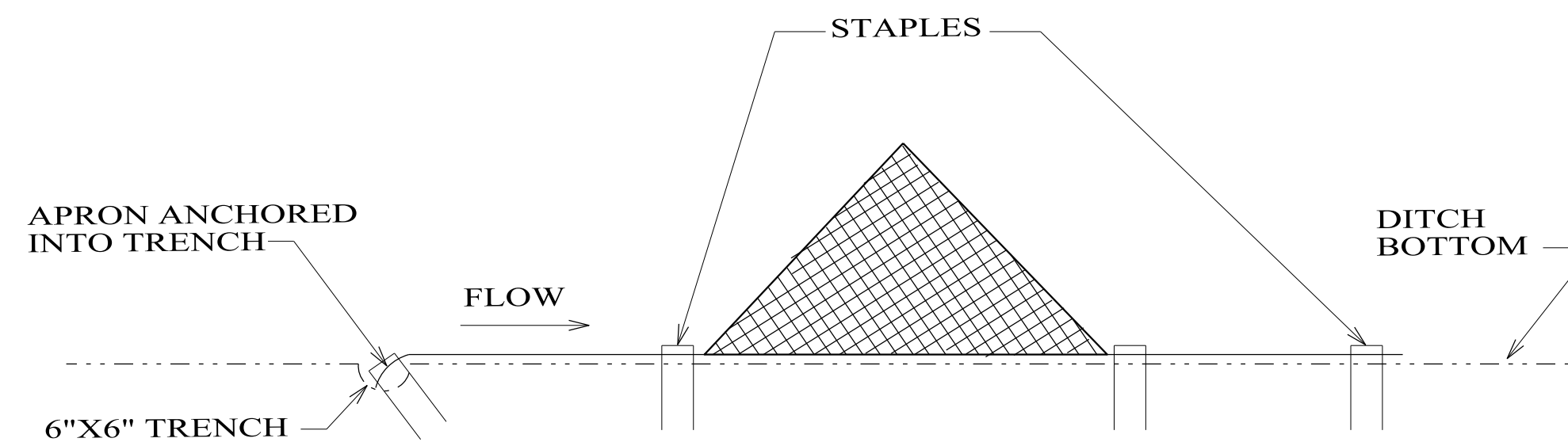
NOTE:

1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN SILT DIKE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ESC-300-1.
2. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



SECTION B-B

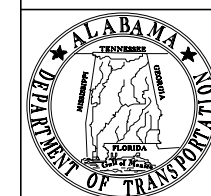
POINT (A) MUST BE HIGHER THAN POINT (B) TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS



NOTE: STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT

SECTION A-A

SILT DIKE INSTALLATION FOR ROADWAY DITCHES



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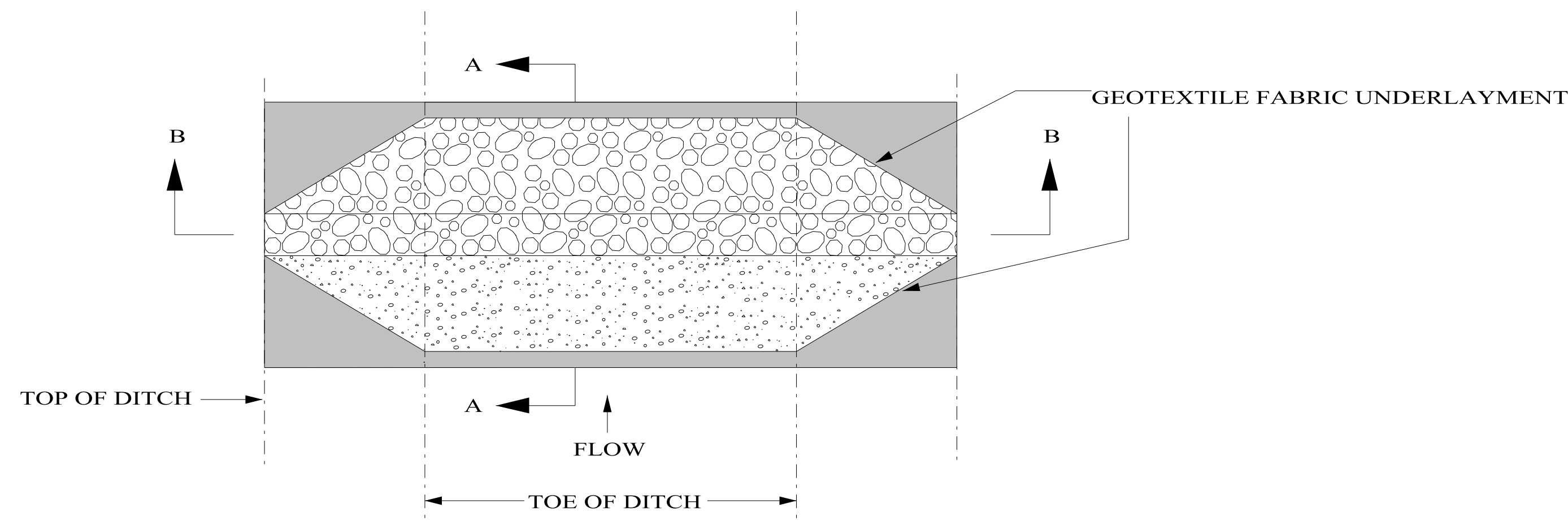
REVISIONS:
1. Revised and repositioned "SECTION B-B" on 9-24-2012 by J.F.T.
2. Revised Note 1 on 10-23-2014 by J.F.T.
3. Updated Special Drawing No. from ESC-300 (SHEET 5 OF 8) to ESC-300-5 on 10-31-2016 by J.F.T. & J.M.M.

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

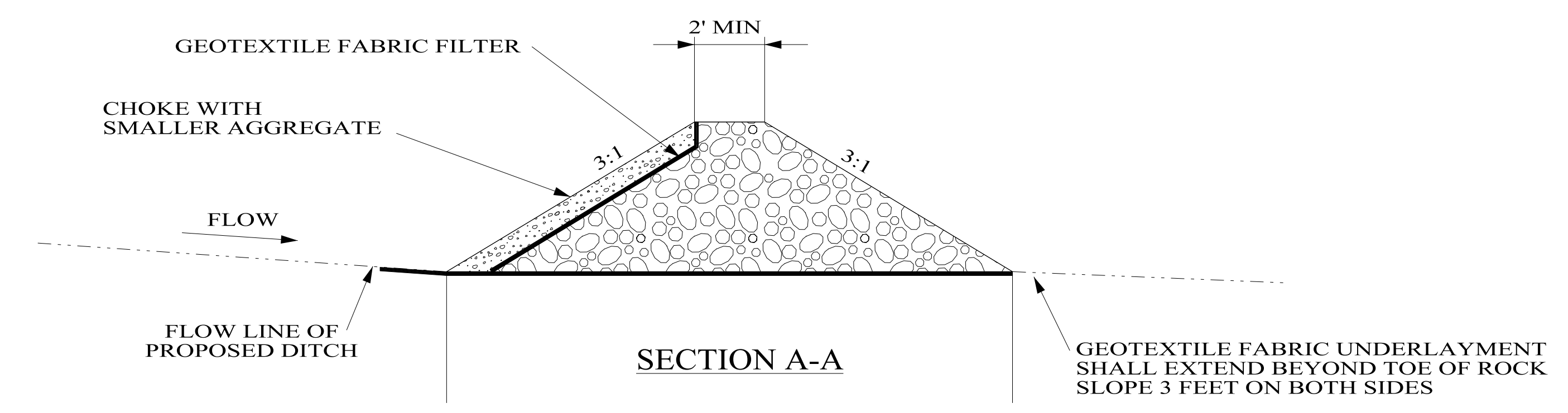
DESIGN BUREAU SPECIAL DRAWING
DETAILS OF SILT DIKE DITCH CHECKS

NOT TO SCALE

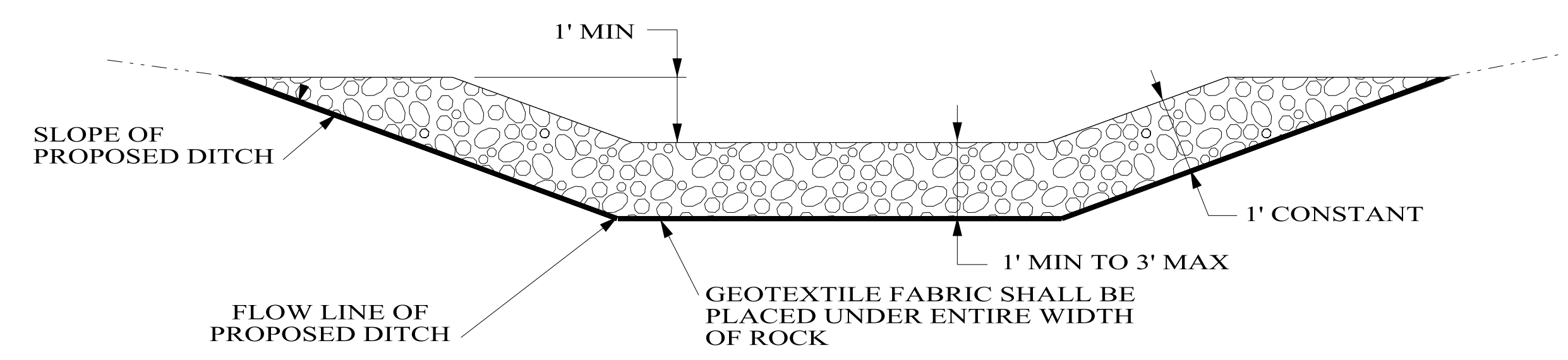
--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		
SPECIAL DRAWING NO	INDEX NO	
ESC-300-5	66516	



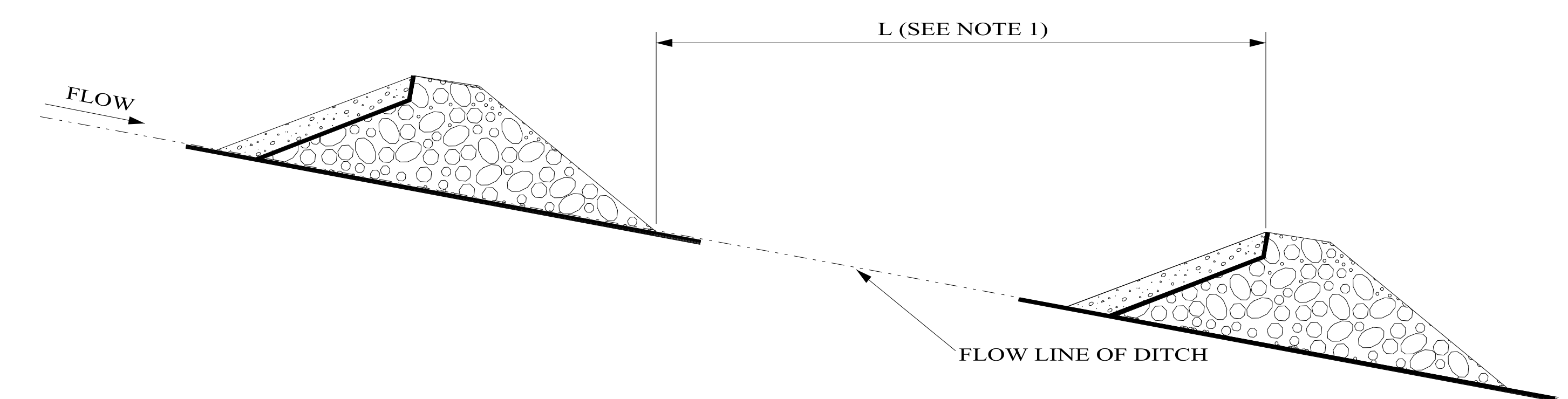
PLAN VIEW
DETAIL FOR TRAPEZOIDAL DITCH



SECTION A-A



SECTION B-B



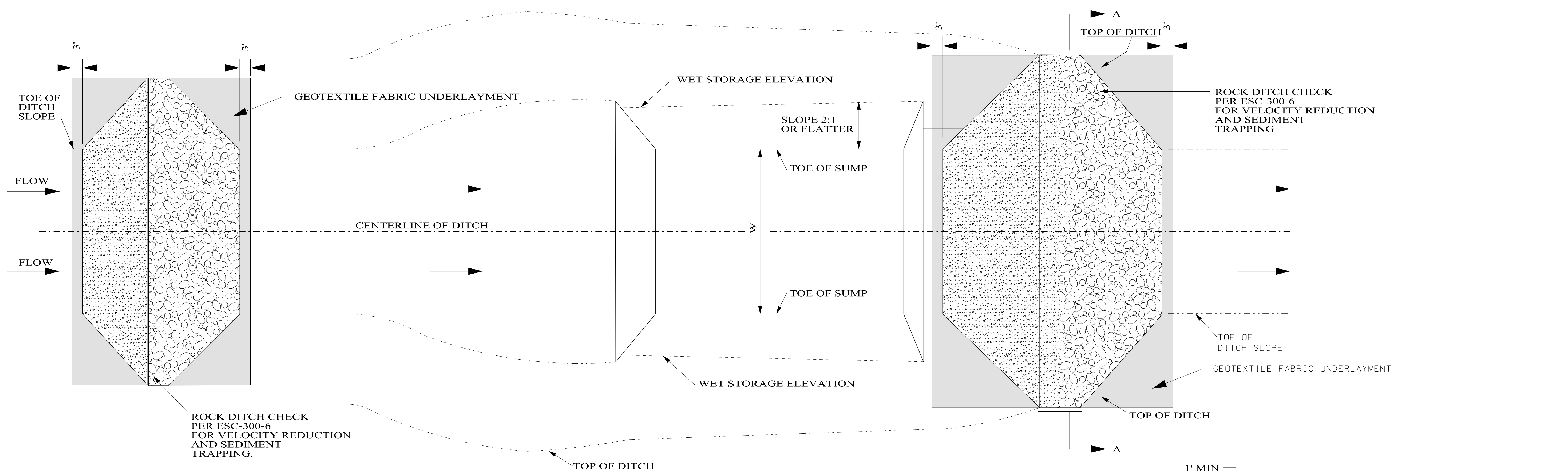
DETAIL FOR SPACING BETWEEN DITCH CHECKS

TEMPORARY ROCK DITCH CHECKS IN ROADSIDE DITCHES

- 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.



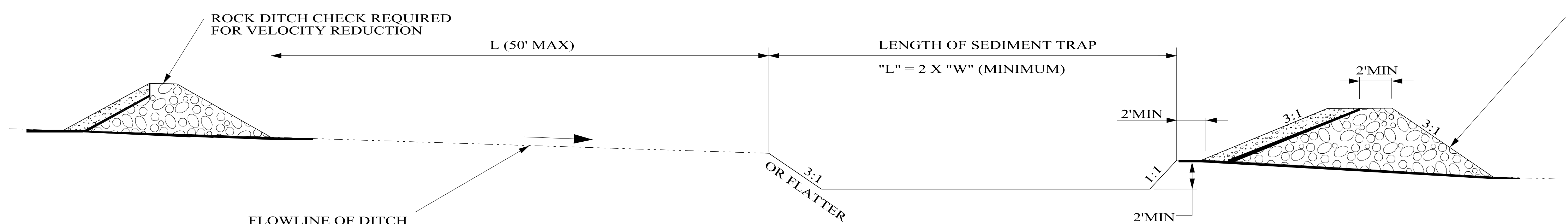
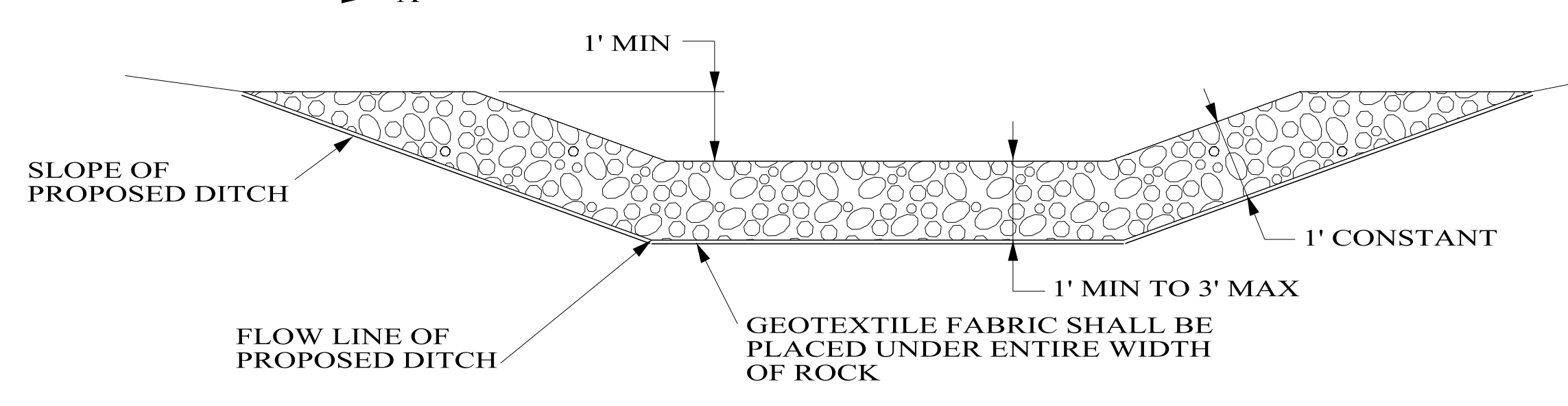
ROCK DITCH CHECK PER ESC-300-6 FOR VELOCITY REDUCTION AND SEDIMENT TRAPPING.

ROCK DITCH CHECK PER ESC-300-6 FOR VELOCITY REDUCTION AND SEDIMENT TRAPPING

PLAN VIEW

SECTION A-A

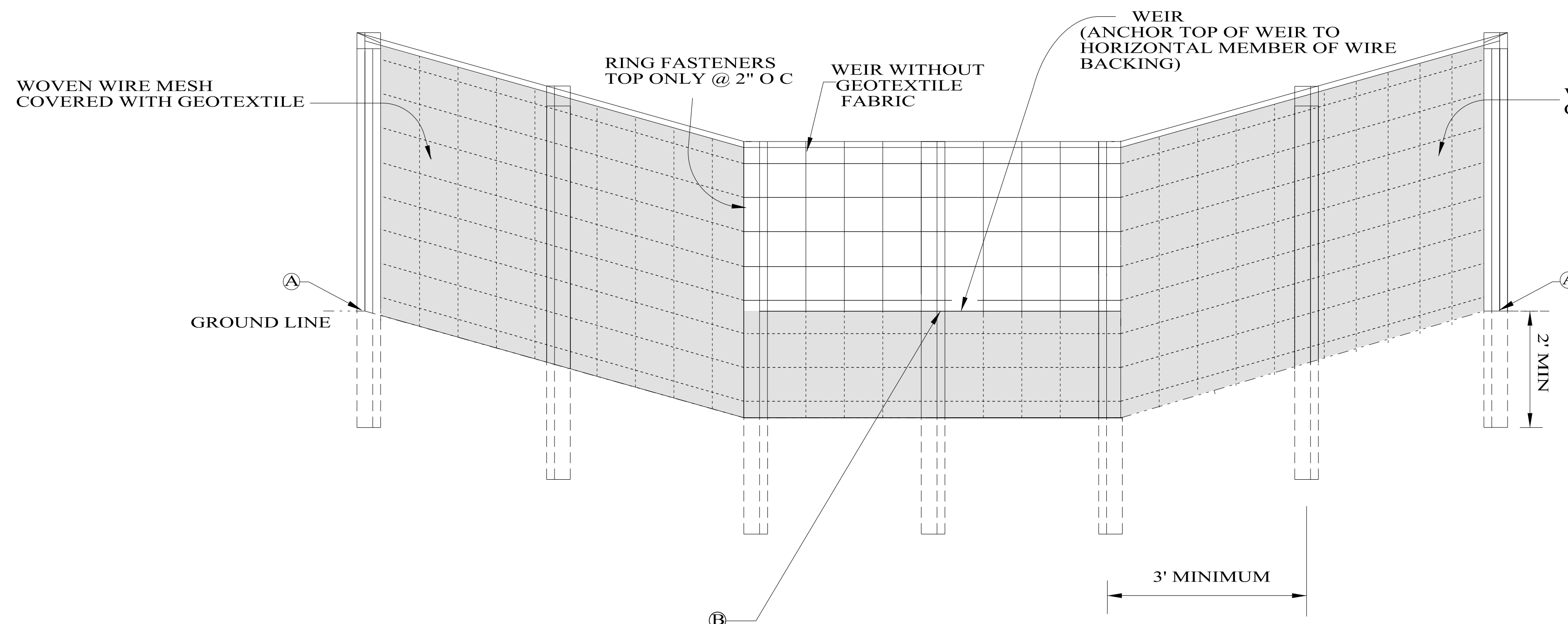
ROCK DITCH CHECK WITH SUMP EXCAVATION SELECTION GUIDELINES
 THE TYPE AND SIZE OF ROCK USED TO CONSTRUCT THE CHECK WILL BE SELECTED BY THE DESIGNER AND SHOWN ON THE PLANS. THE SIZE OF ROCK CHOSEN WILL BE PROPORTIONAL TO EXPECTED FLOWS AND VELOCITIES.



ROCK DITCH CHECK REQUIRED FOR VELOCITY REDUCTION

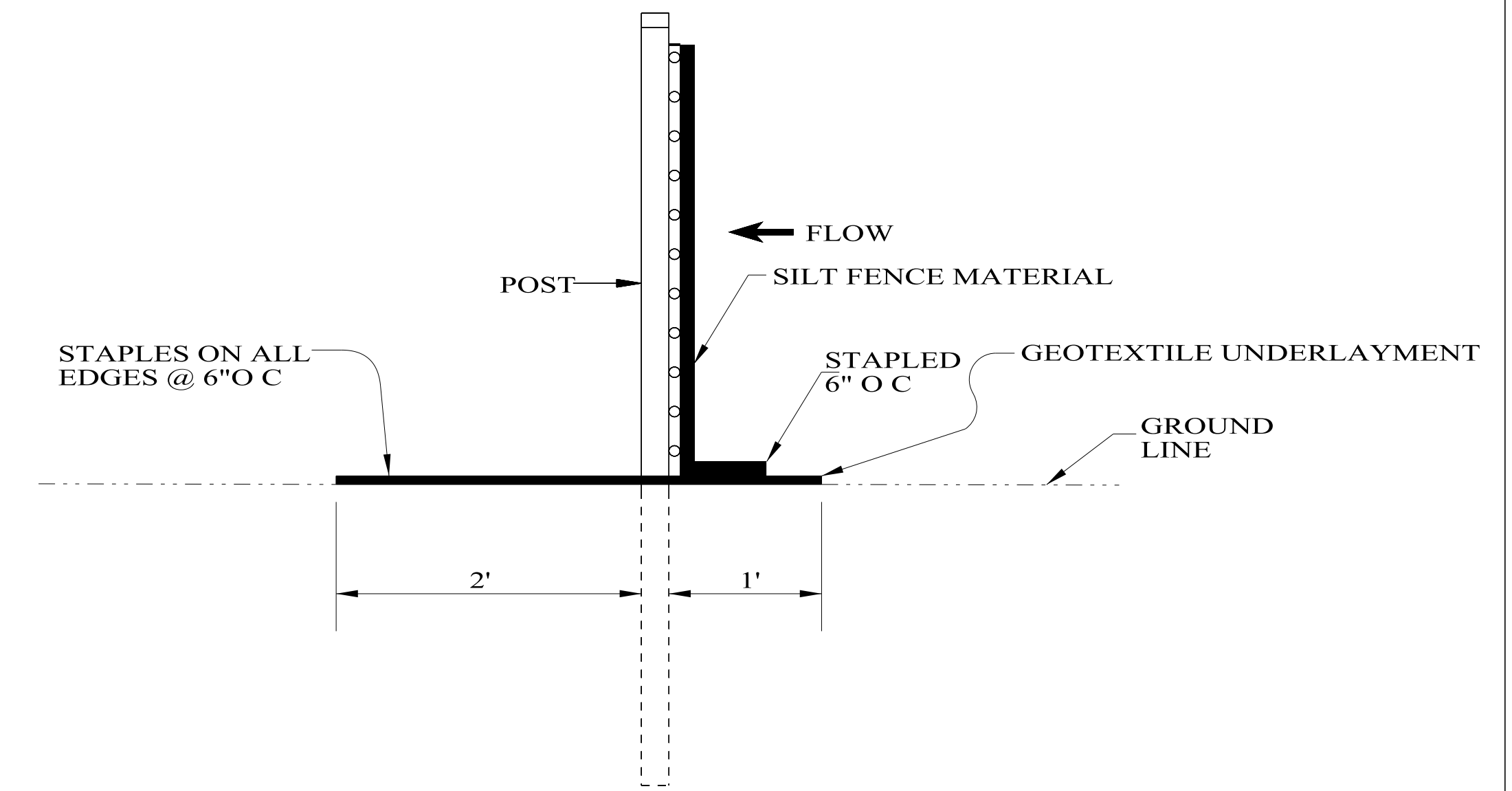
ROCK DITCH CHECK PER ESC-300-6

PROFILE VIEW
DITCH CENTERLINE

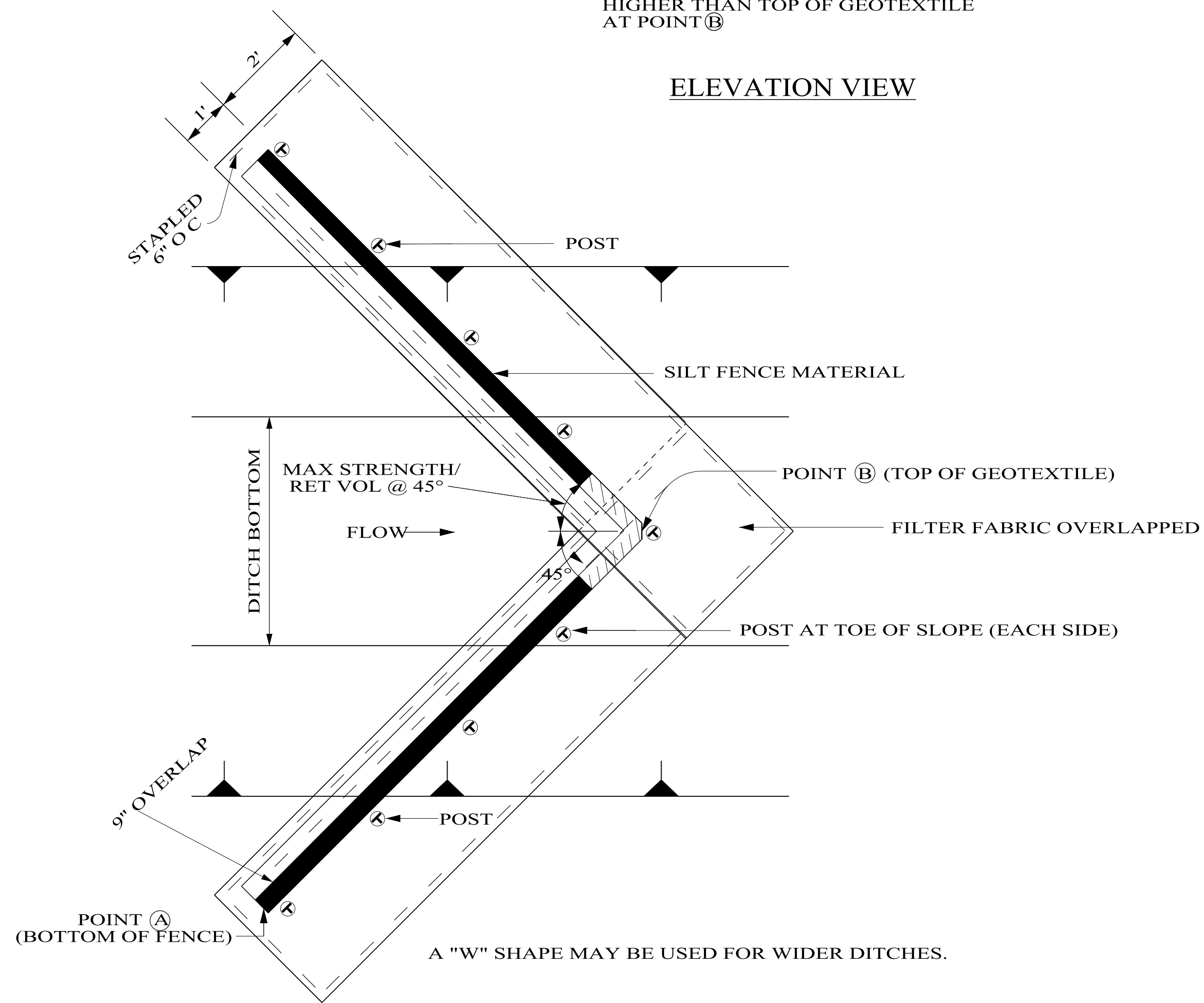


NOTE: END POINTS **A** MUST BE HIGHER THAN TOP OF GEOTEXTILE AT POINT **B**

ELEVATION VIEW



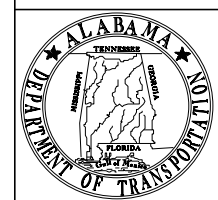
SIDE VIEW



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

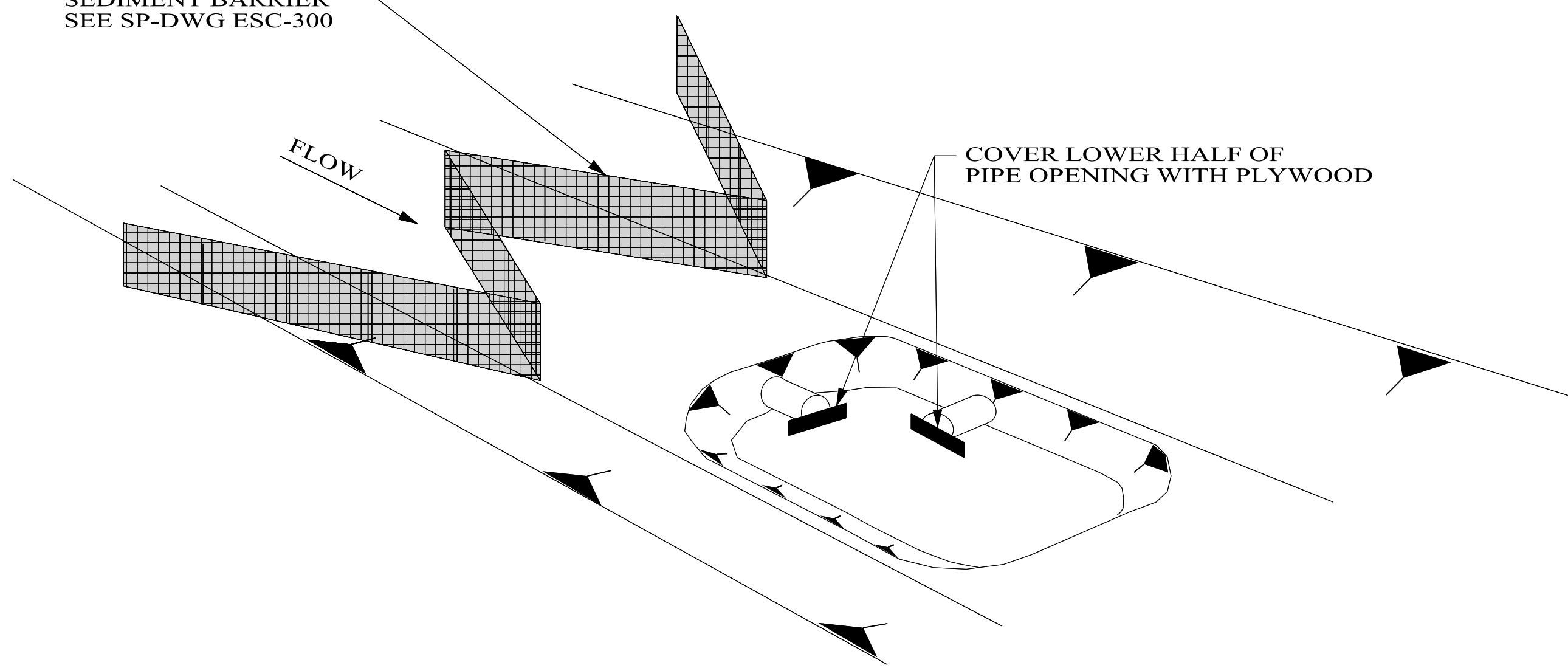
NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-300-8

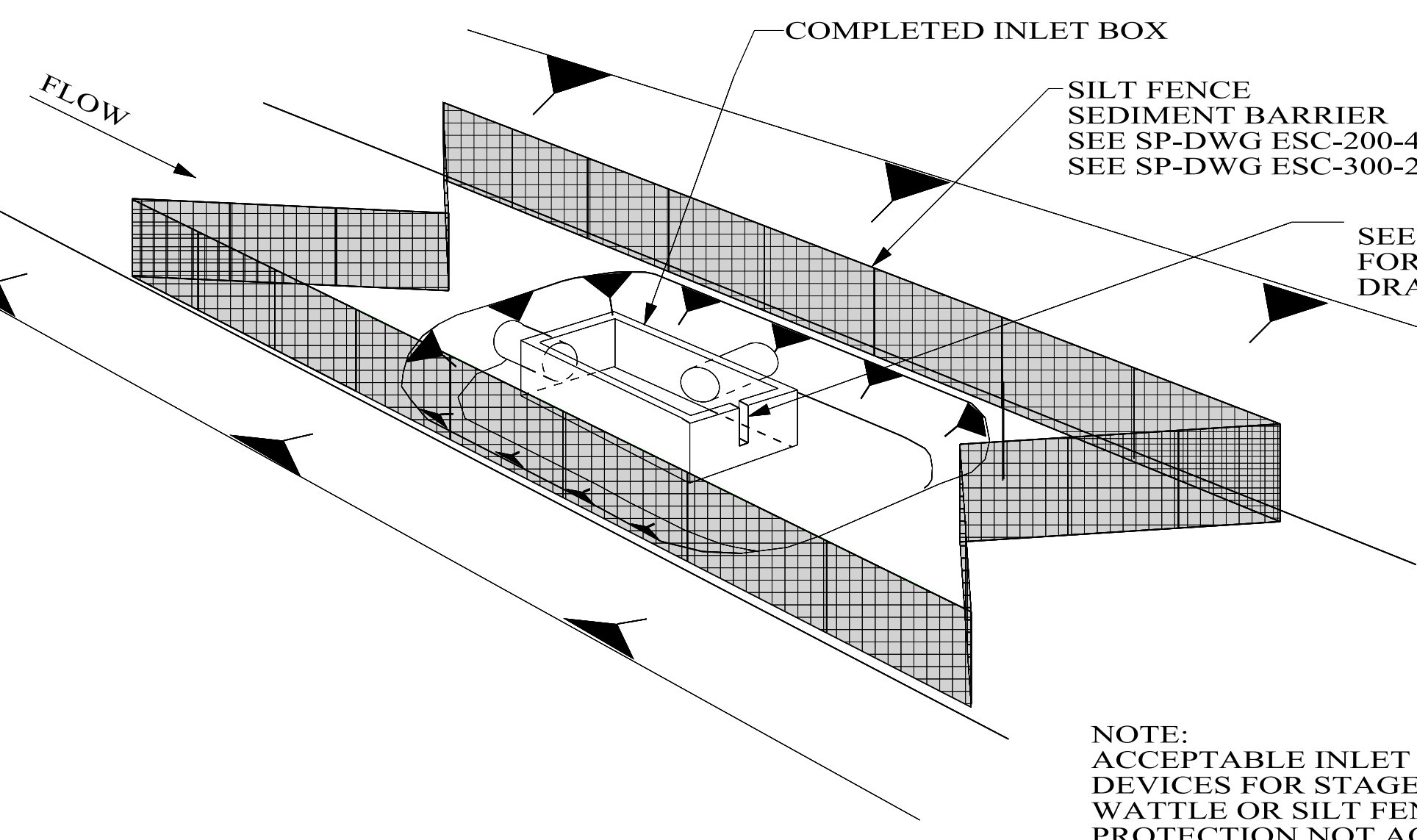
INDEX NO
66519

DITCH CHECK OR
SEDIMENT BARRIER
SEE SP-DWG ESC-300



STAGE 1

INLET/JUNCTION BOX LOCATION EXCAVATED

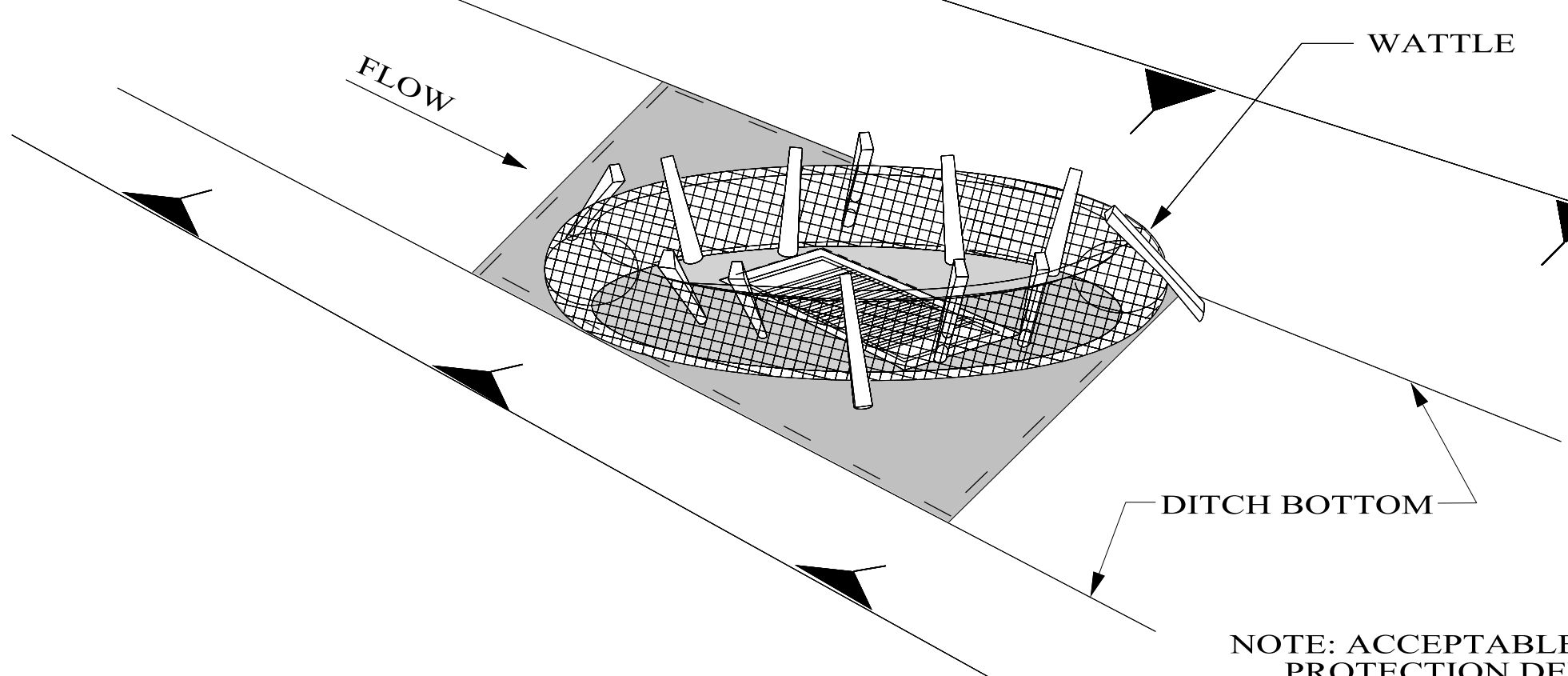


STAGE 2

INLET/JUNCTION BOX
CONSTRUCTED BUT NOT BACKFILLED

NOTE:
ACCEPTABLE INLET PROTECTION
DEVICES FOR STAGE 2 INCLUDE
WATTLE OR SILT FENCE. HAY BALE
PROTECTION NOT ACCEPTABLE
DURING THIS PHASE.

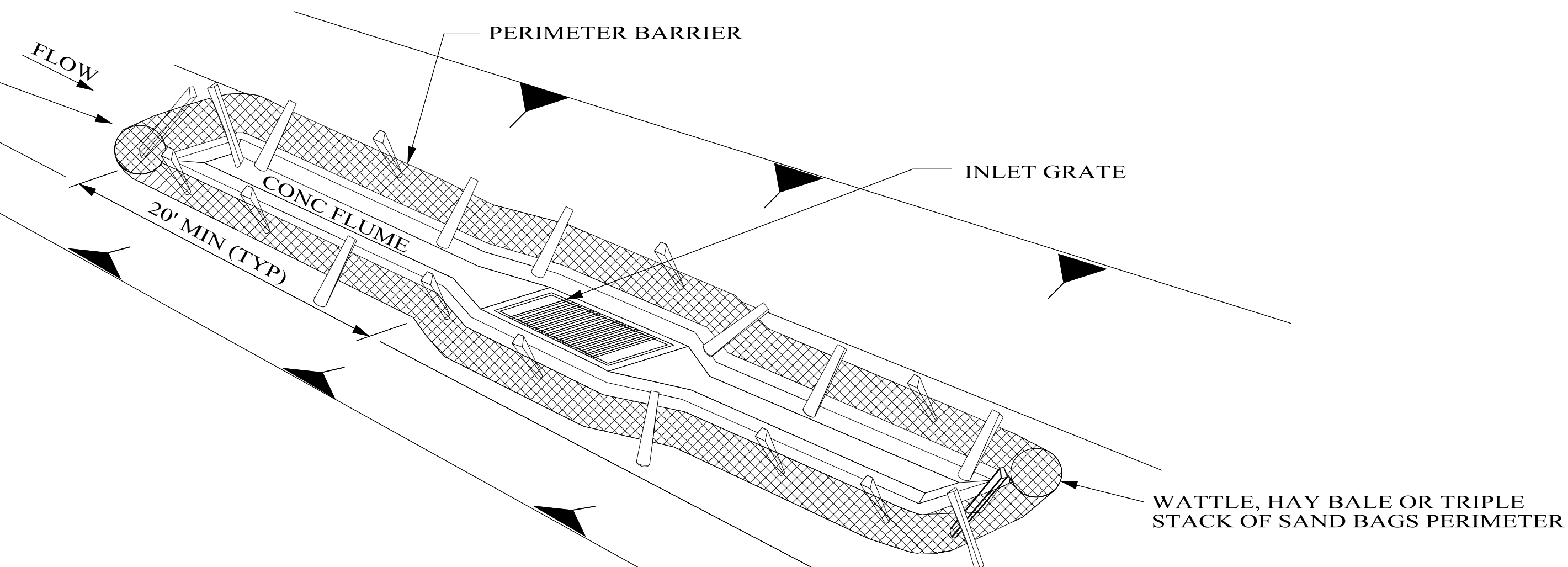
PLACE SAND BAGS
ACROSS FLUME IF
FLUME EXTENDS
BEYOND 20' FROM INLET
SEE SP-DWG ESC-300-3



STAGE 3

INLET CONSTRUCTED AND BACKFILLED

NOTE: ACCEPTABLE INLET PROTECTION FOR STAGE 3 INCLUDES MANUFACTURED INLET PROTECTION DEVICE, COARSE AGGREGATE, WATTLE OR SAND BAGS INSTALLED IN ACCORDANCE WITH SPECIAL DRAWING No ESC-400-2 THRU SPECIAL DRAWING ESC-400-5. HAY BALES NOT ACCEPTABLE PROTECTION DURING THIS STAGE. STAGE 3 MAY BE THE COMPLETION FOR SOME INLETS.



STAGE 4

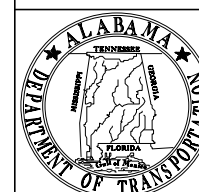
COMPLETED INLET WITH
ADJACENT IMPERMEABLE SURFACE

NOTE:
A MANUFACTURED INLET PROTECTION DEVICE OR SAND BAGS
W/GRAVEL IN ACCORDANCE WITH SPECIAL DRAWING ESC-400-5
MAY BE SUBSTITUTED FOR THE PERIMETER BARRIER
DURING STAGE 4 CONSTRUCTION. STAKE SPACING FOR WATTLES
SHOULD BE A MAXIMUM OF 2 FEET.

DITCH INLET CONSTRUCTION STAGES

NOTES:

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



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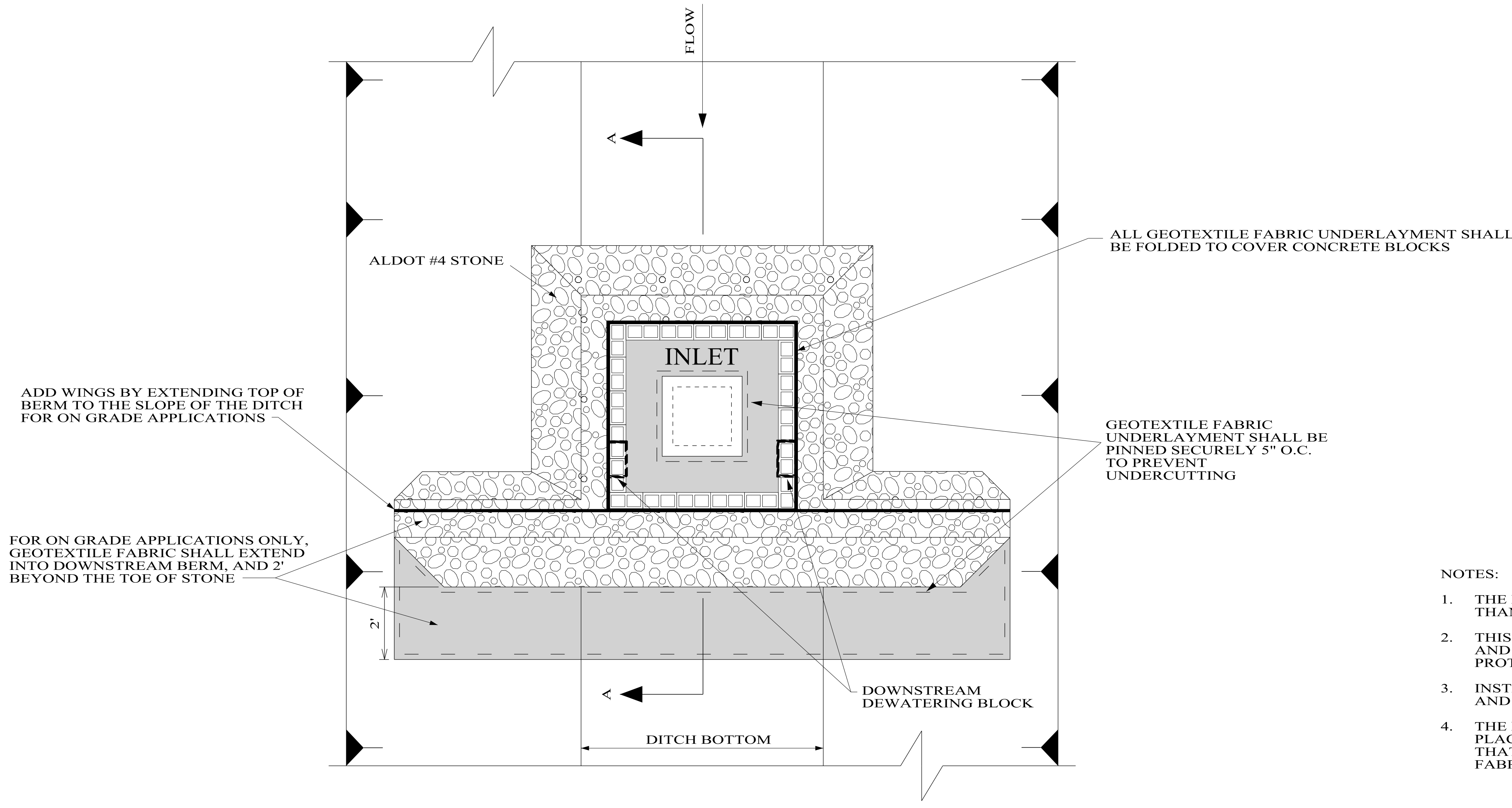
REVISIONS:
1. Revised Note 5 from "SHT 3 OF 5 AND SHT 4 OF 5" to "SHT 3 OF 4 AND SHT 4 OF 4 and removed Notes 3, 4, 5, 6 renumbered & added new No. 6 on 9-2-2011 by J.F.T.
2. Revised and updated "STAGE 3" and "STAGE 4" with new staking on 9-24-2012 by J.F.T.
3. Revised and updated "STAGE 3" note and adjusted "STAGE 4" note. Revised Note 6 on 10-24-2014 by J.F.T.
4. Updated Special Drawing No. from ESC-400 (SHEET 1 OF 5) to ESC-400-1 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
TYPICAL APPLICATIONS AND DETAILS

NOT TO SCALE

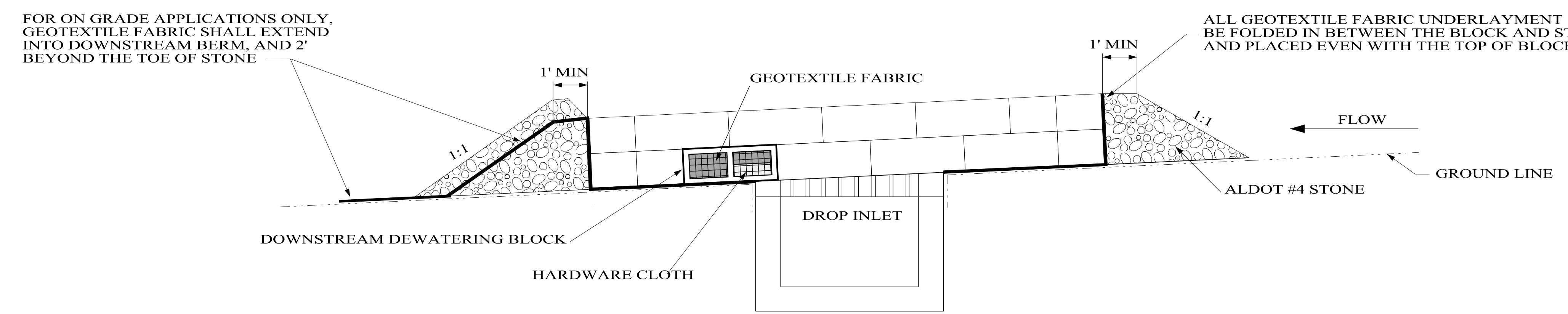
--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		INDEX NO
SPECIAL DRAWING NO	ESC-400-1	66522



PLAN VIEW

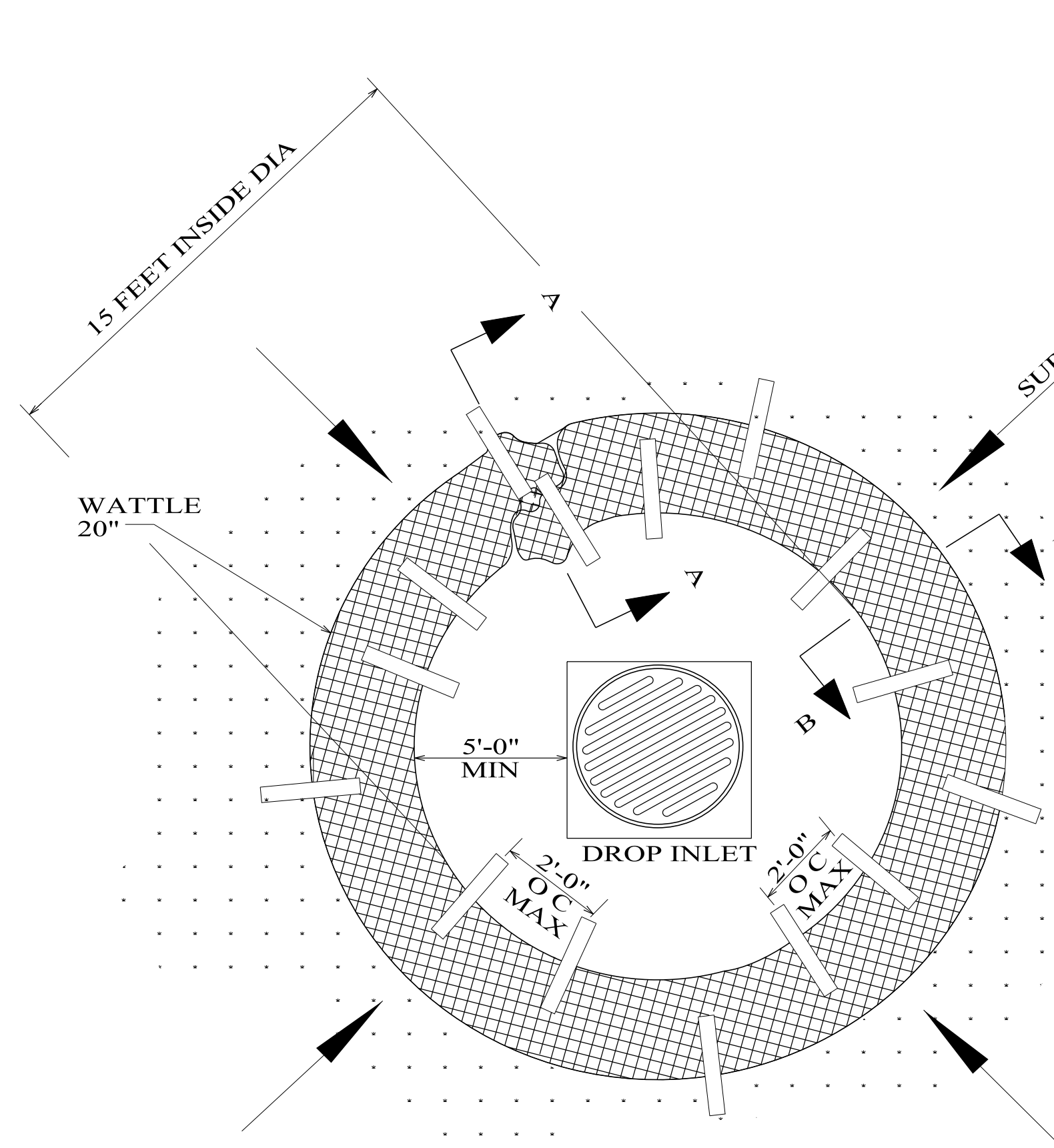
NOTES:

1. THE ELEVATION OF THE TOP OF THE REQUIRED STONE BERM SHALL BE LOWER THAN THE TOP OF THE DITCH.
2. THIS COARSE AGGREGATE INLET PROTECTION MAY ONLY BE UTILIZED DURING STAGE 3 AND STAGE 4 INLET CONSTRUCTION. SEE SPECIAL DRAWING No ESC-400-1 FOR INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS.
3. INSTALL LOOSE CONCRETE BLOCKS UPRIGHT IN A STAGGERED CONFIGURATION FOR FIRST AND SECOND LAYER, WITH THE EXCEPTION OF THE DEWATERING BLOCK.
4. THE DEWATERING BLOCKS SHALL BE CONSTRUCTED BY OVERTURNING CONCRETE BLOCK. PLACE HARDWARE CLOTH BETWEEN GEOTEXTILE AND THE OVERTURNED BLOCK SO THAT BOTH HOLES ARE COVERED. REMOVE 3" RECTANGULAR SECTION OF GEOTEXTILE FABRIC FROM LOWER RIGHT PORTION TO ALLOW DEWATERING WITHIN 48 HOURS.

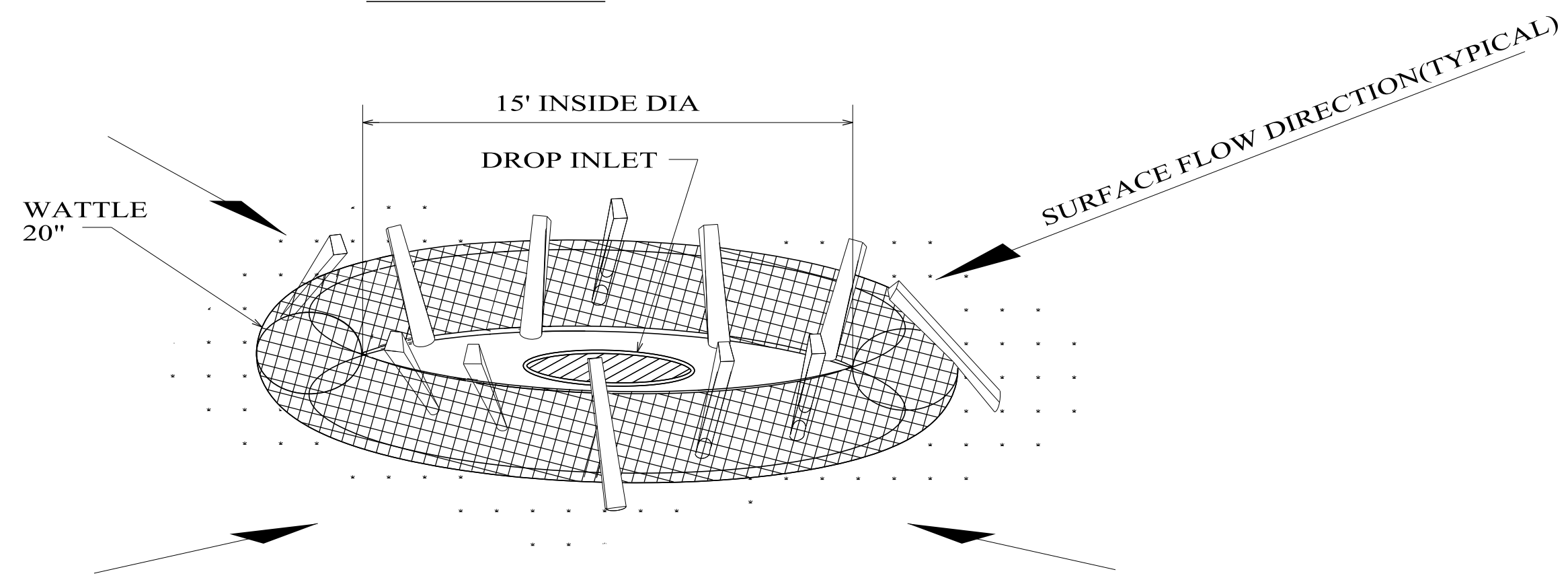


SECTION A-A

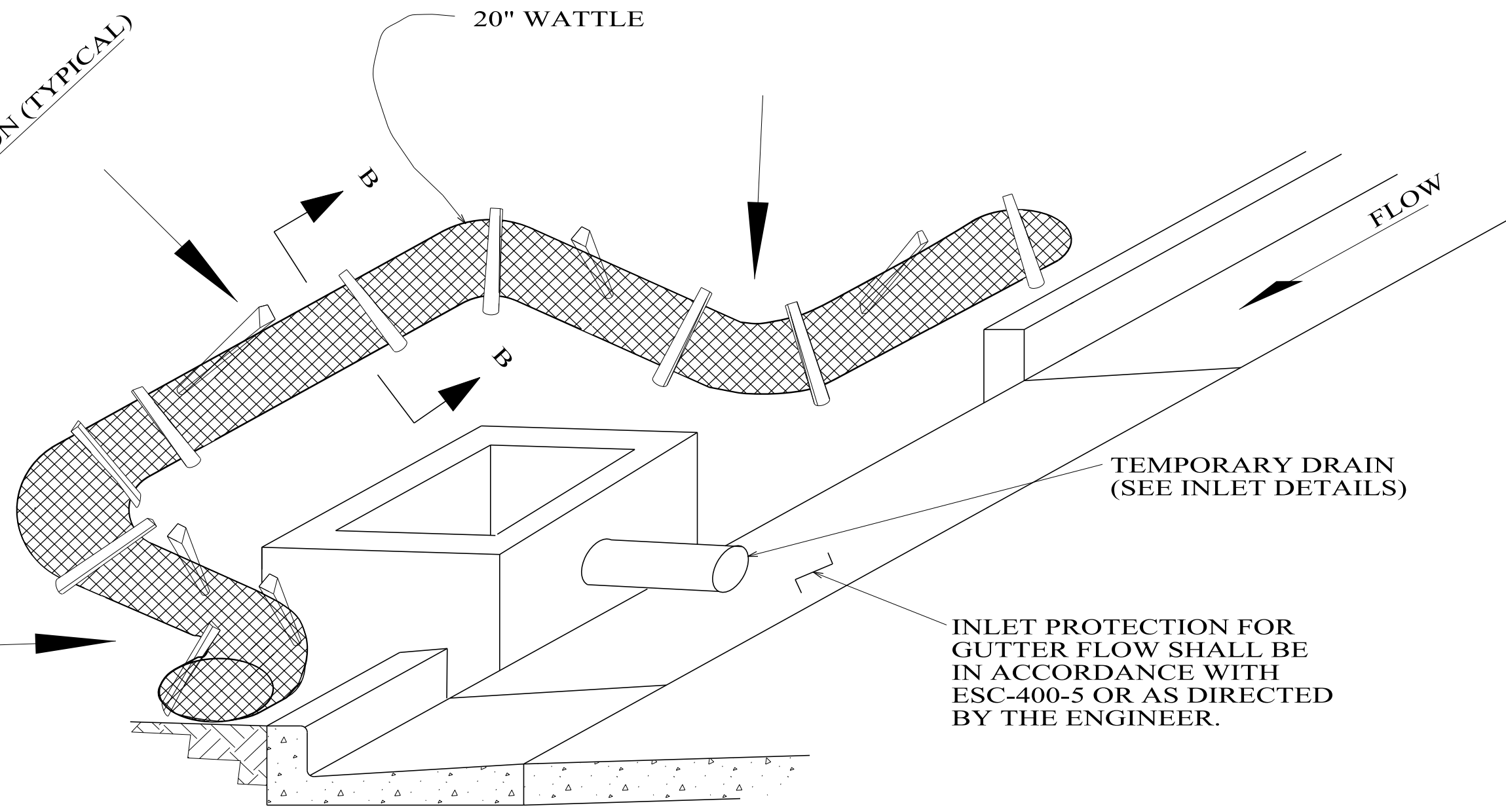
NOT TO SCALE



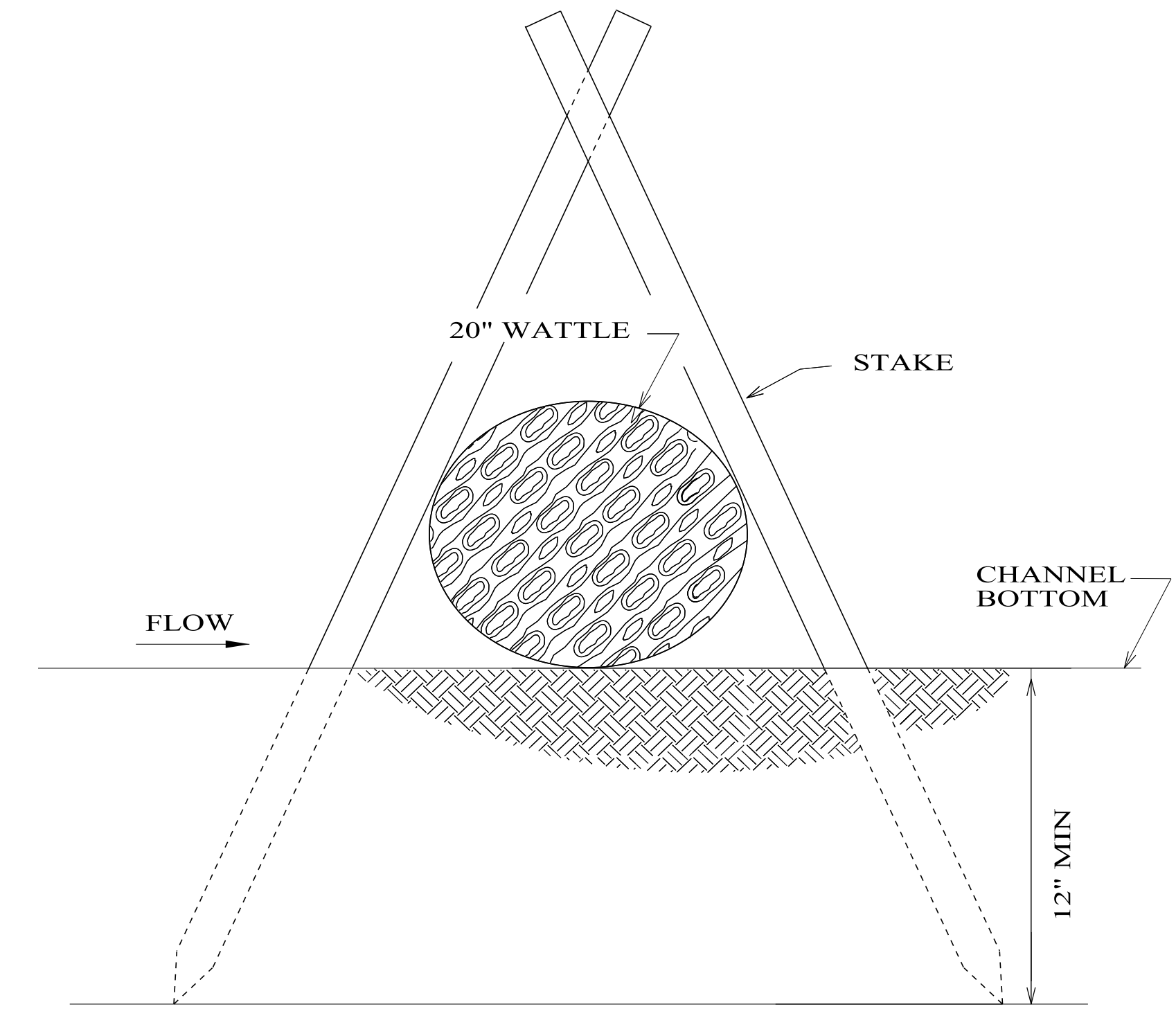
PLAN VIEW



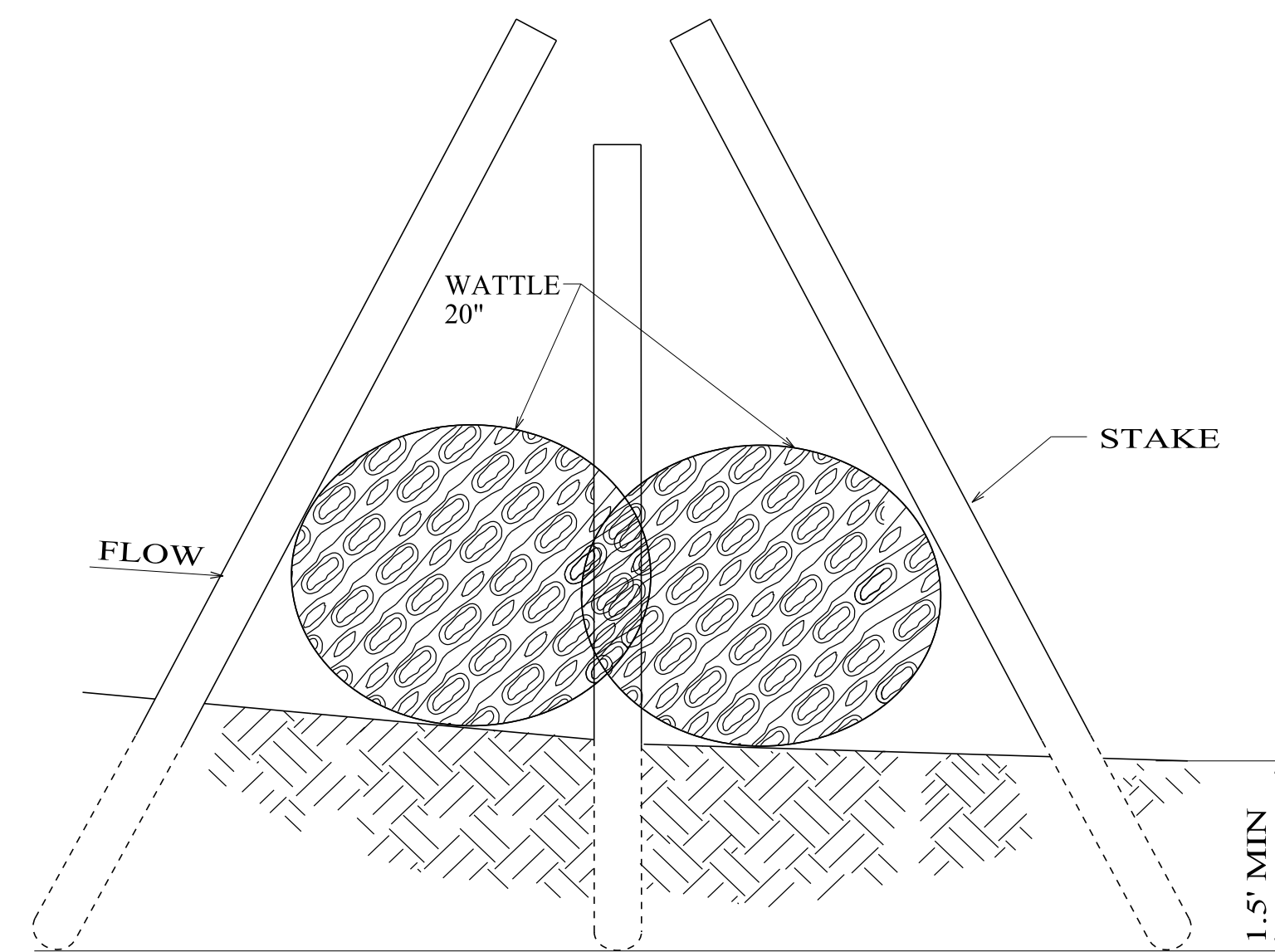
DROP INLET PROTECTION



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



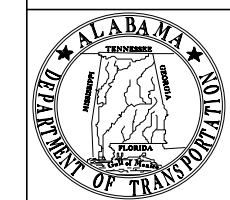
SECTION B-B



SECTION A-A

NOTES:

1. 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.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1' MIN, 3' MAX).
3. SEE ALDOT LIST II-24 FOR APPROVED WATTLES.
4. 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

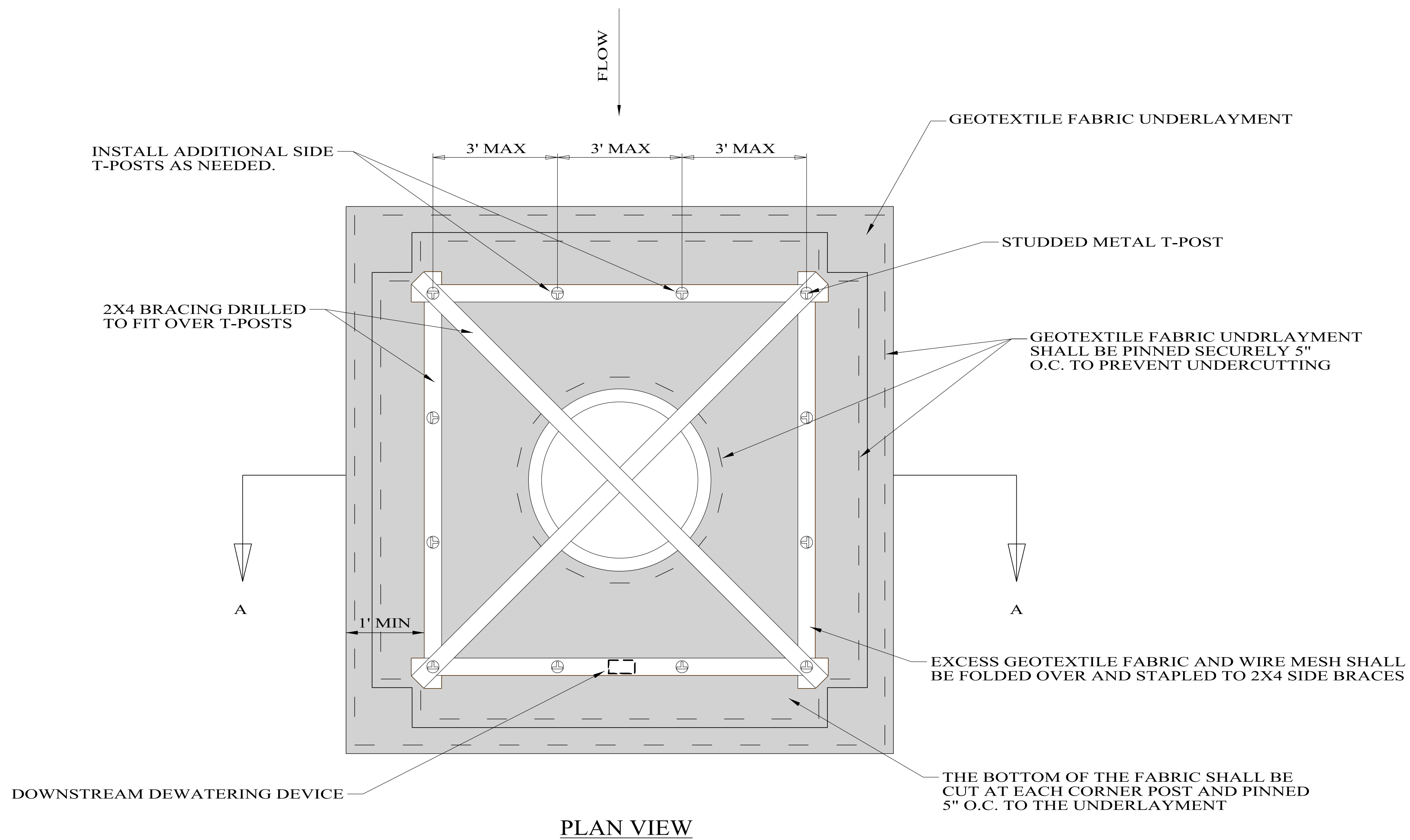
DESIGN BUREAU SPECIAL DRAWING
**INLET PROTECTION DETAILS
OF WATTLES**

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

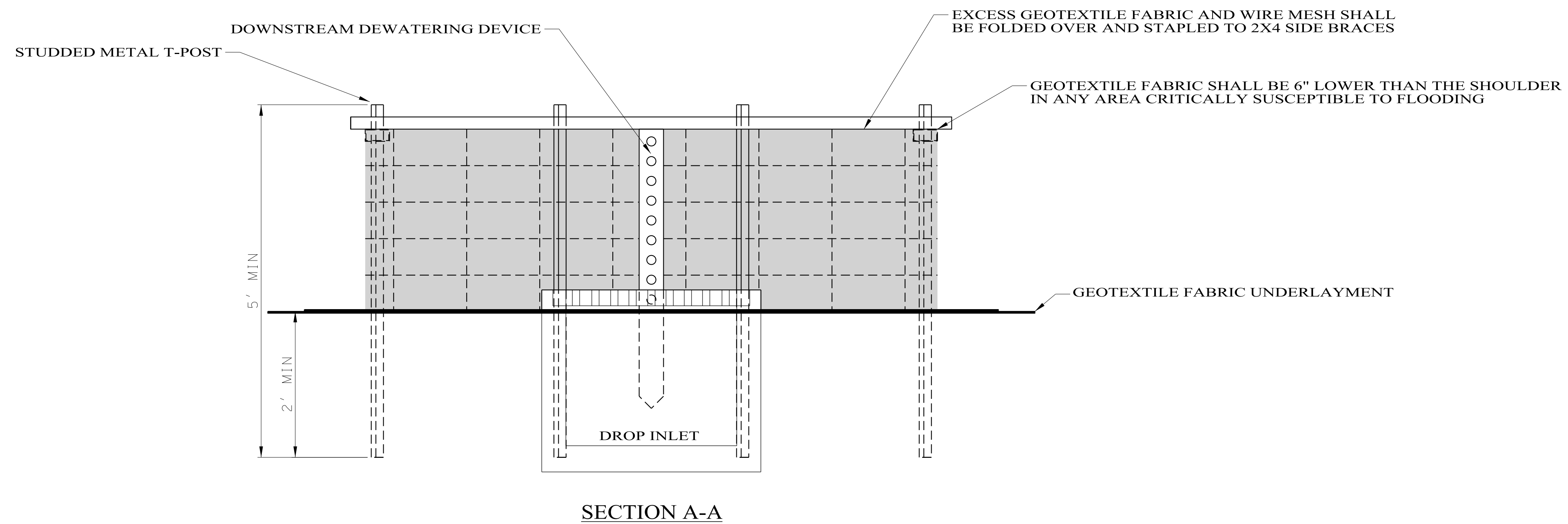
SPECIAL DRAWING NO
ESC-400-3

INDEX NO
66524

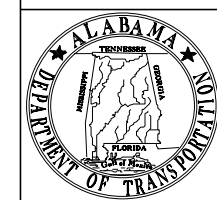


NOTES:

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.

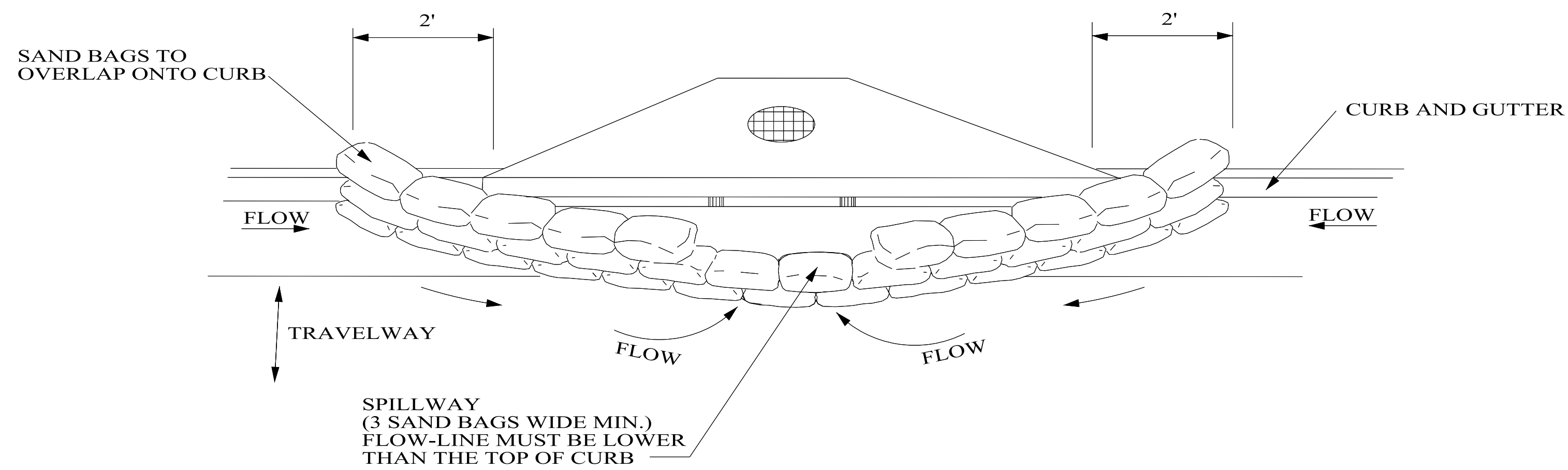
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2016
REVISED DATE:

DESIGN BUREAU SPECIAL DRAWING
INLET PROTECTION
DETAILS OF SILT FENCE

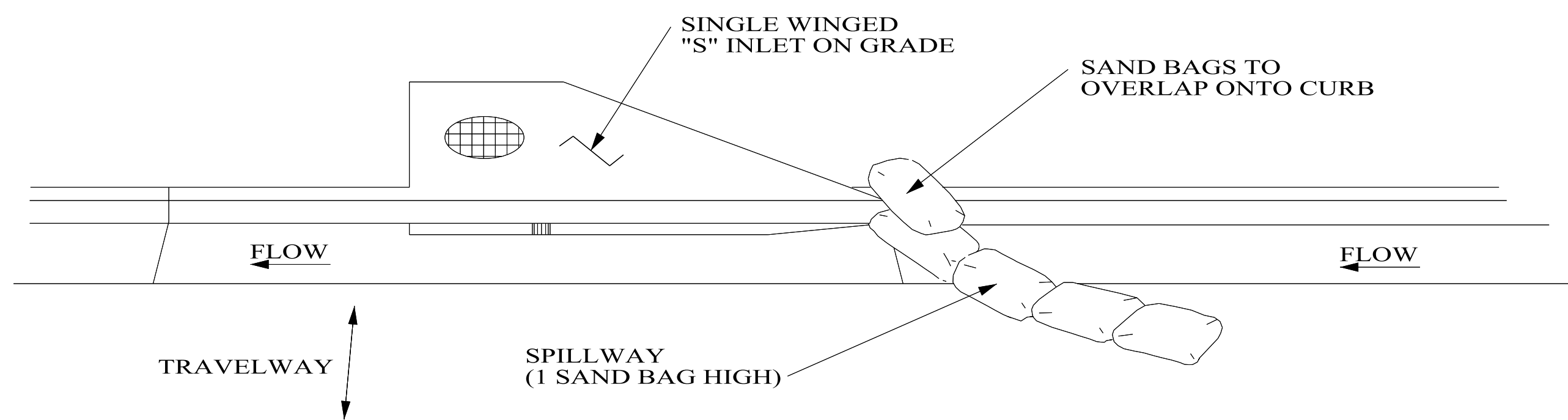
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
ESC-400-4

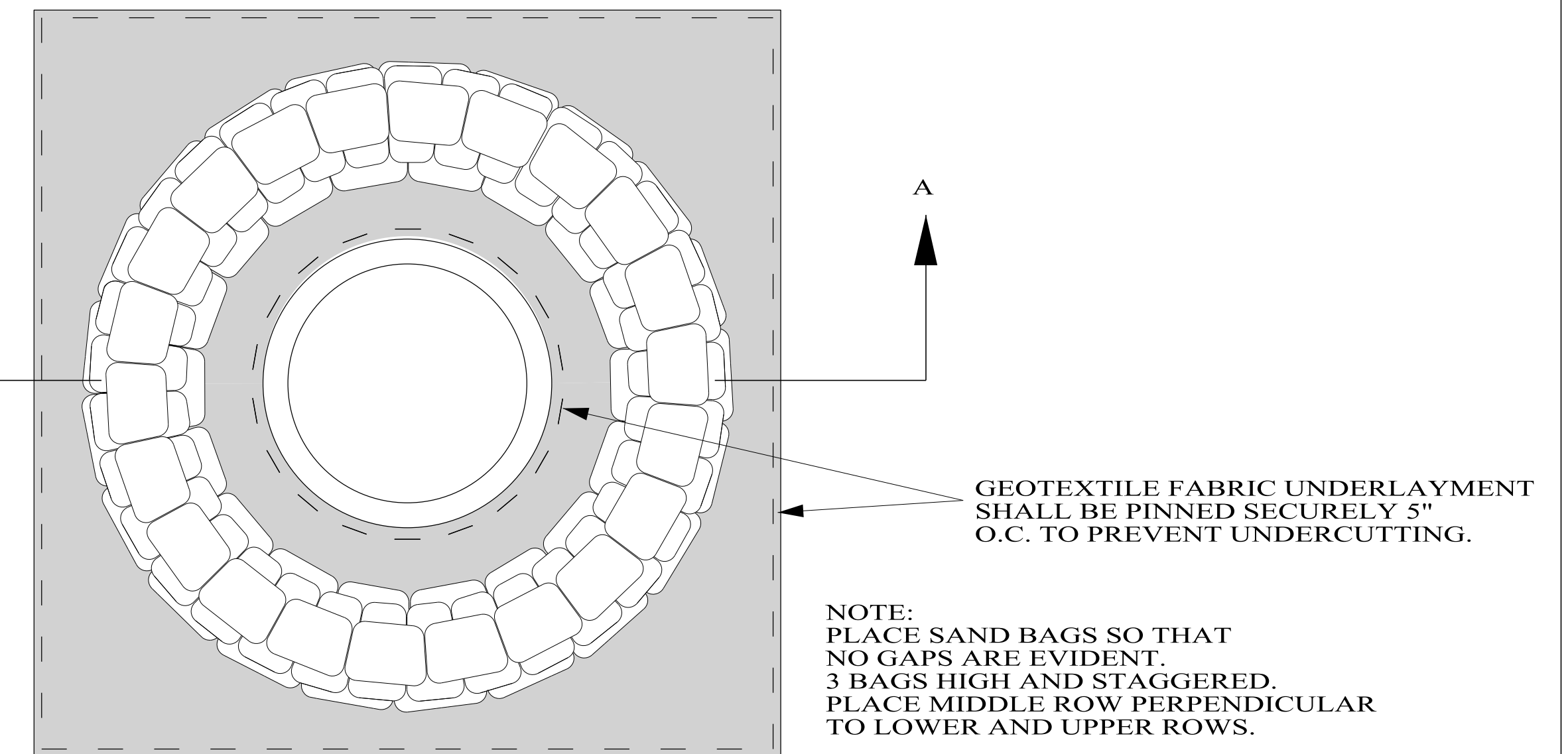
INDEX NO
66525



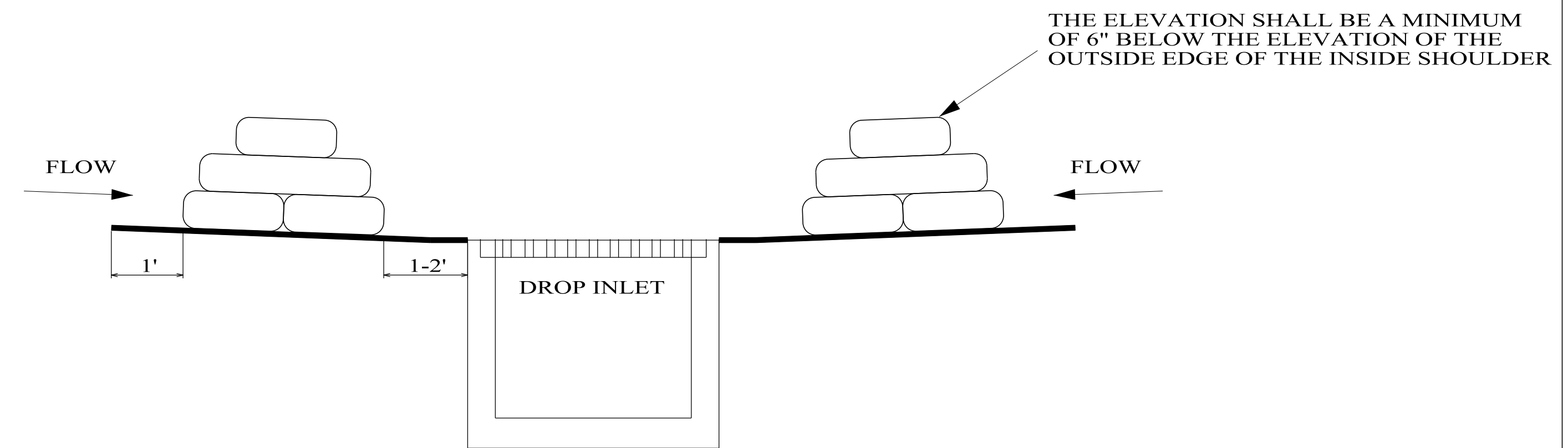
TYPICAL (SAND BAG) PROTECTION FOR INLET IN SAG



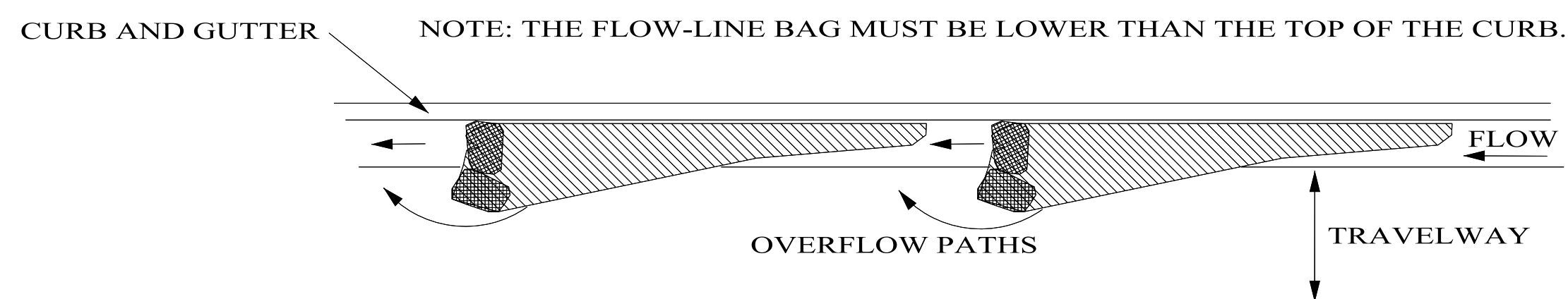
TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE



**DROP INLET
PLAN VIEW**



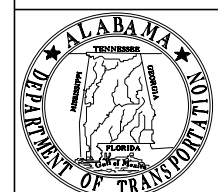
**SECTION A-A
SAND BAG BARRIER**



**CURB AND GUTTER SEDIMENT
CONTAINMENT SYSTEM**

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.



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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.

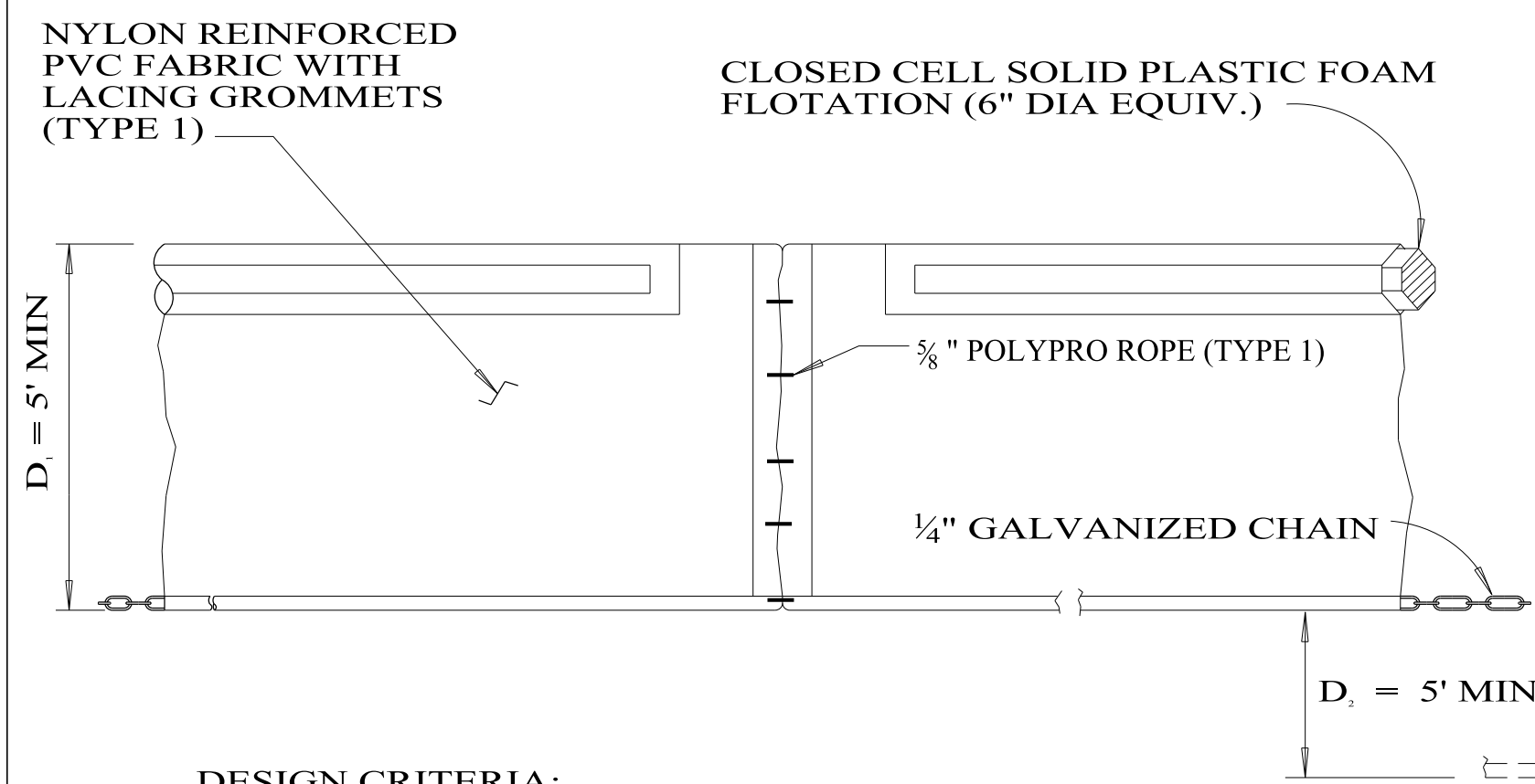
4. Changed PLAN VIEW, SECTION A-A, and note at lower right corner of PLAN VIEW, also added two callouts on 10-31-2016 by J.M.M.
5. Updated Special Drawing No. from ESC-400 (SHEET 5 OF 5) to ESC-400-5 and others using same pattern on 10-31-2016 by J.F.T. & J.M.M.

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

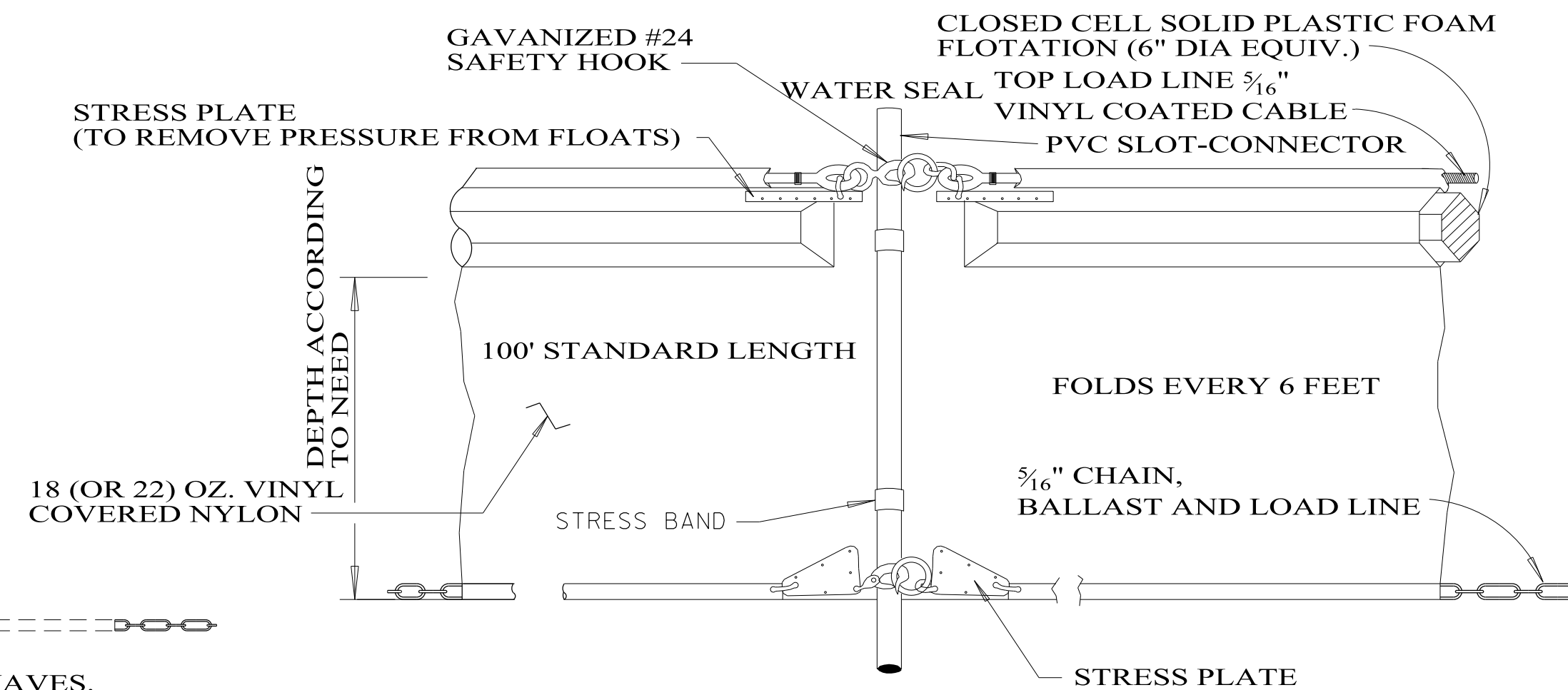
--SPECIFICATIONS--	
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO	INDEX NO
ESC-400-5	66526



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.

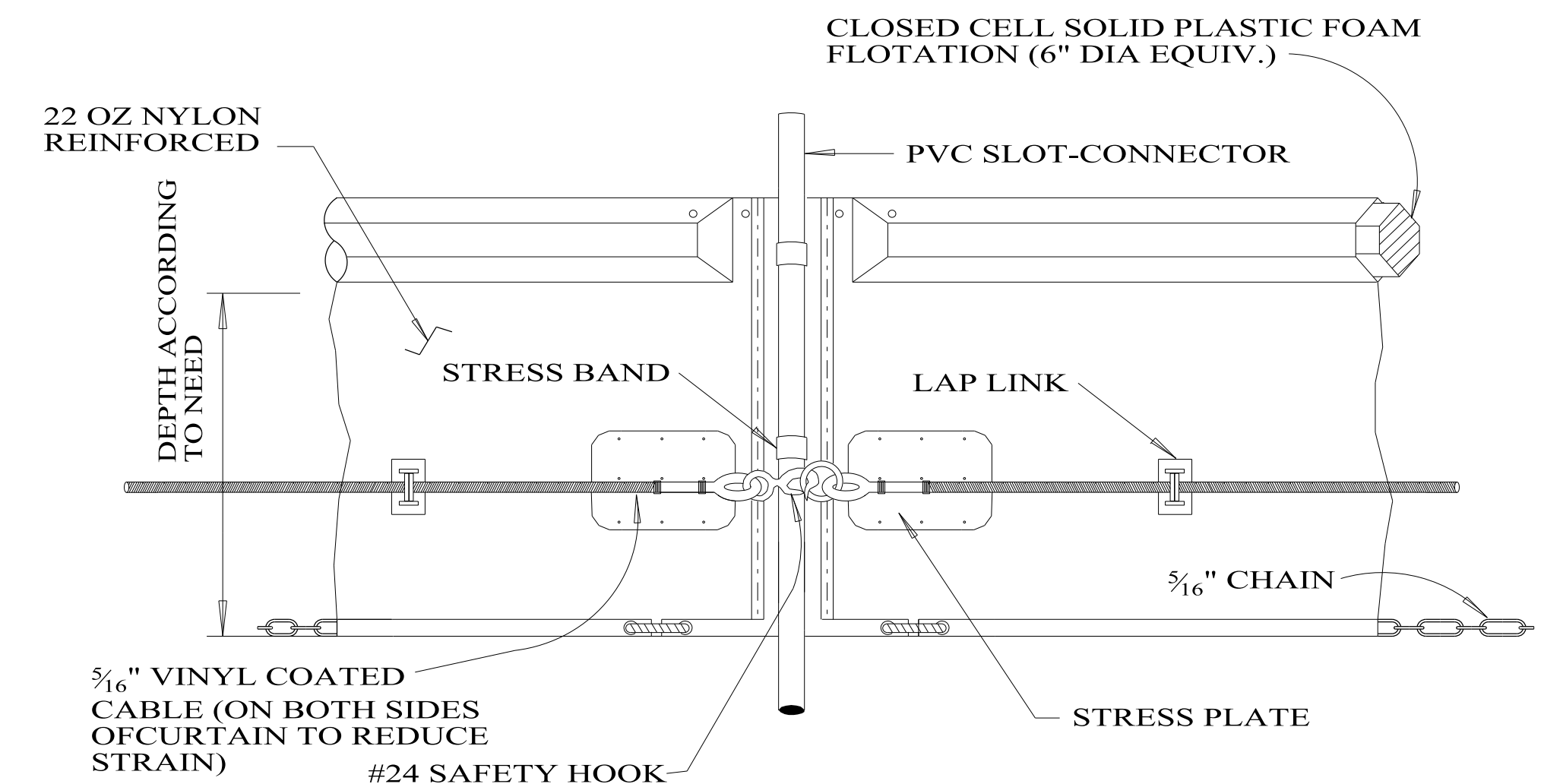
D = (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D = (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

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.

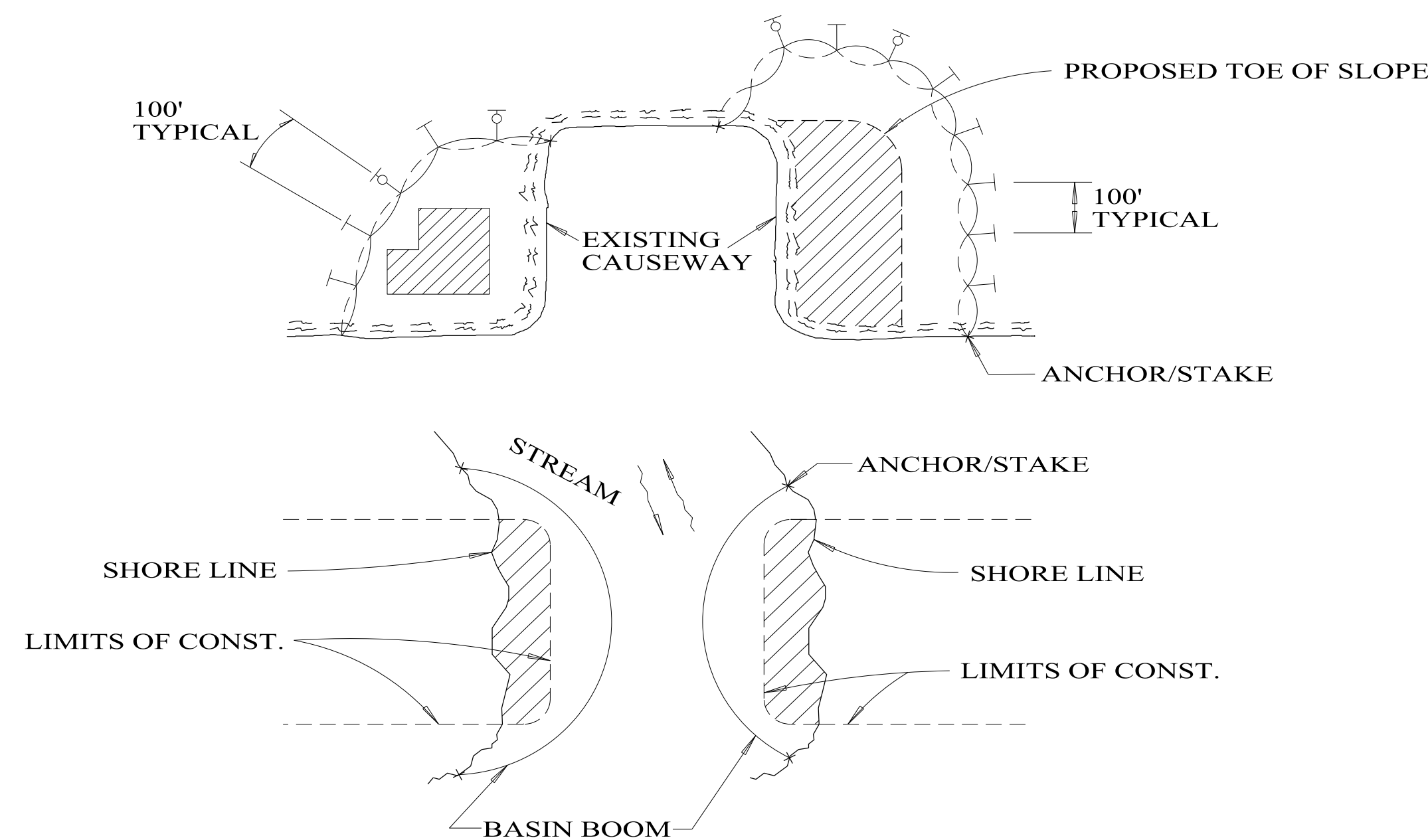
TYPE 2



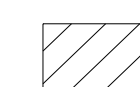
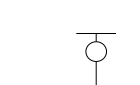

TYPE 3 CONFIGURATION SHOULD BE USED IN AREAS WHERE CONSIDERABLE CURRENT ($\leq 5'$ PER SECOND) MAY BE PRESENT, WHERE TIDAL ACTION MAY BE PRESENT, AND/OR WHERE THE CURTAIN IS POTENTIALLY SUBJECT TO WIND AND WAVE ACTION.

TYPE 3

TYPICAL FLOATING BASIN BOOM INSTALLATION



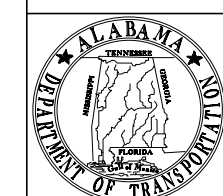
LEGEND

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

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR SELECTION OF THE APPROPRIATE TYPE OF FLOATING BASIN BOOM AND INSTALLATION METHODS BASED ON WATER BODY CONDITIONS.
2. FLOATING BASIN BOOMS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS.
3. FLOATING BASIN BOOMS CAN BE STAKED AND/OR ANCHORED IN STILL OR MOVING WATERS.
4. 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.
5. 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:

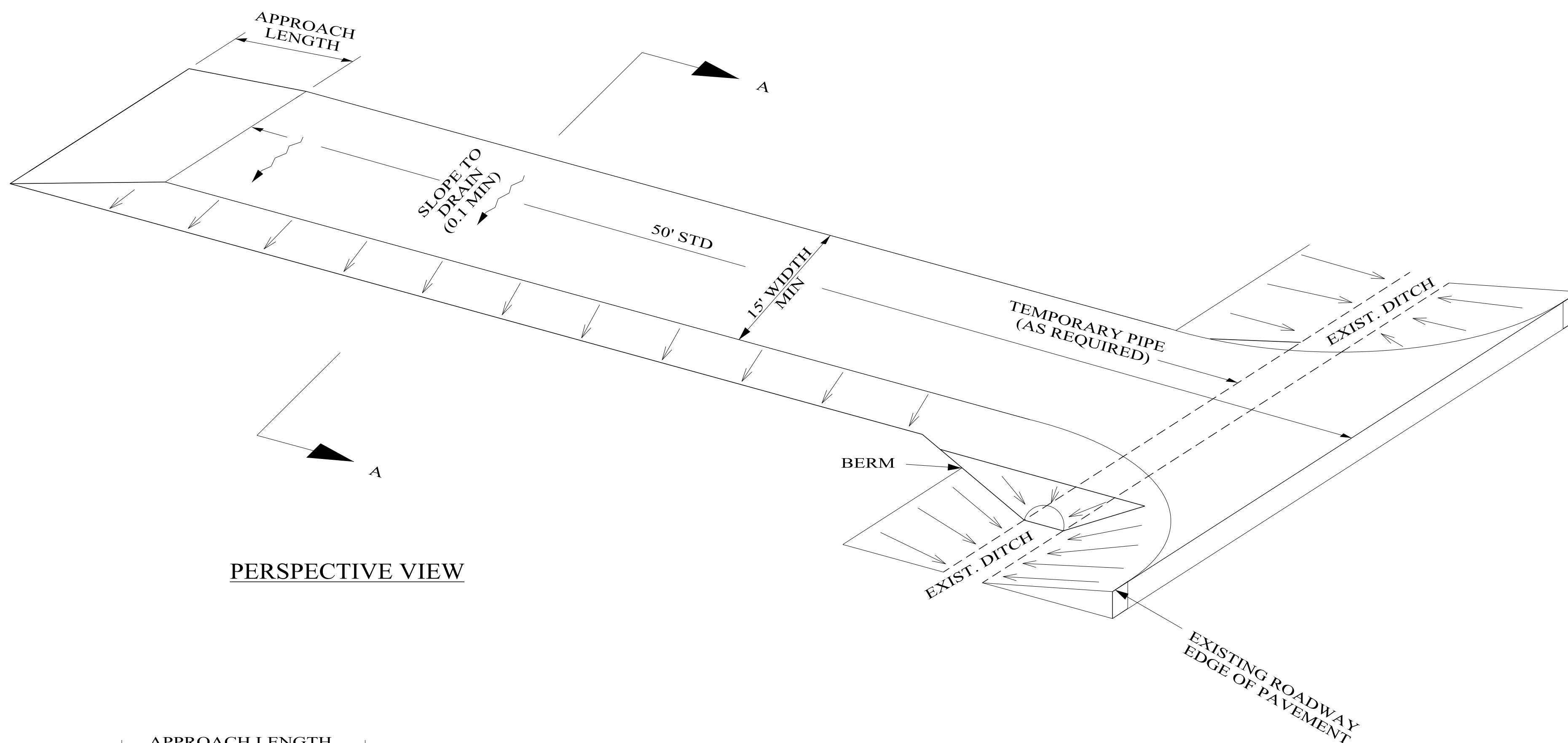
NOT TO SCALE

DESIGN BUREAU SPECIAL DRAWING
FLOATING BASIN BOOM

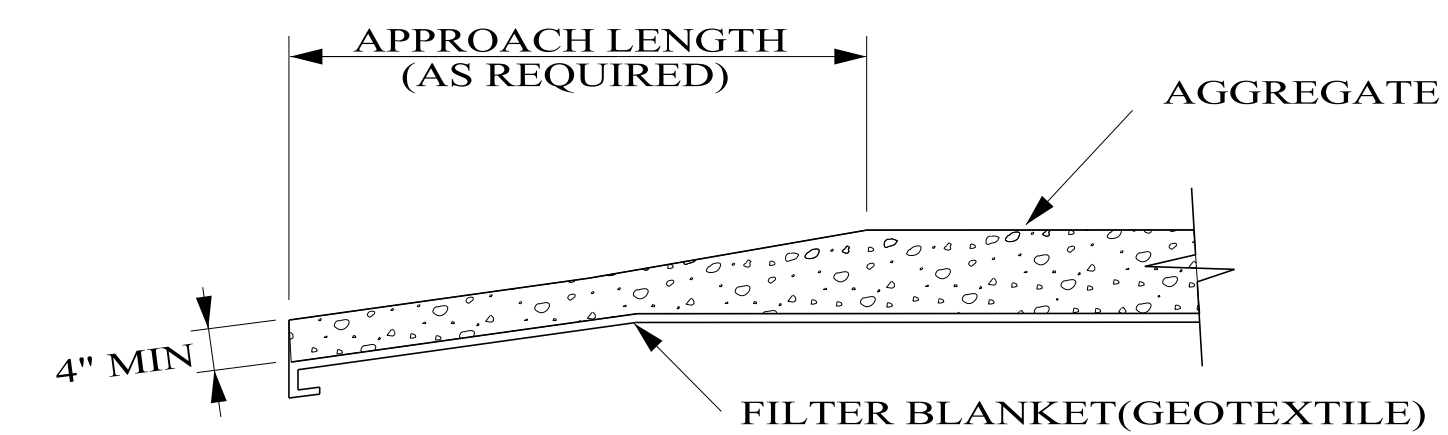
--SPECIFICATIONS--
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SPECIAL DRAWING NO
ESC-501

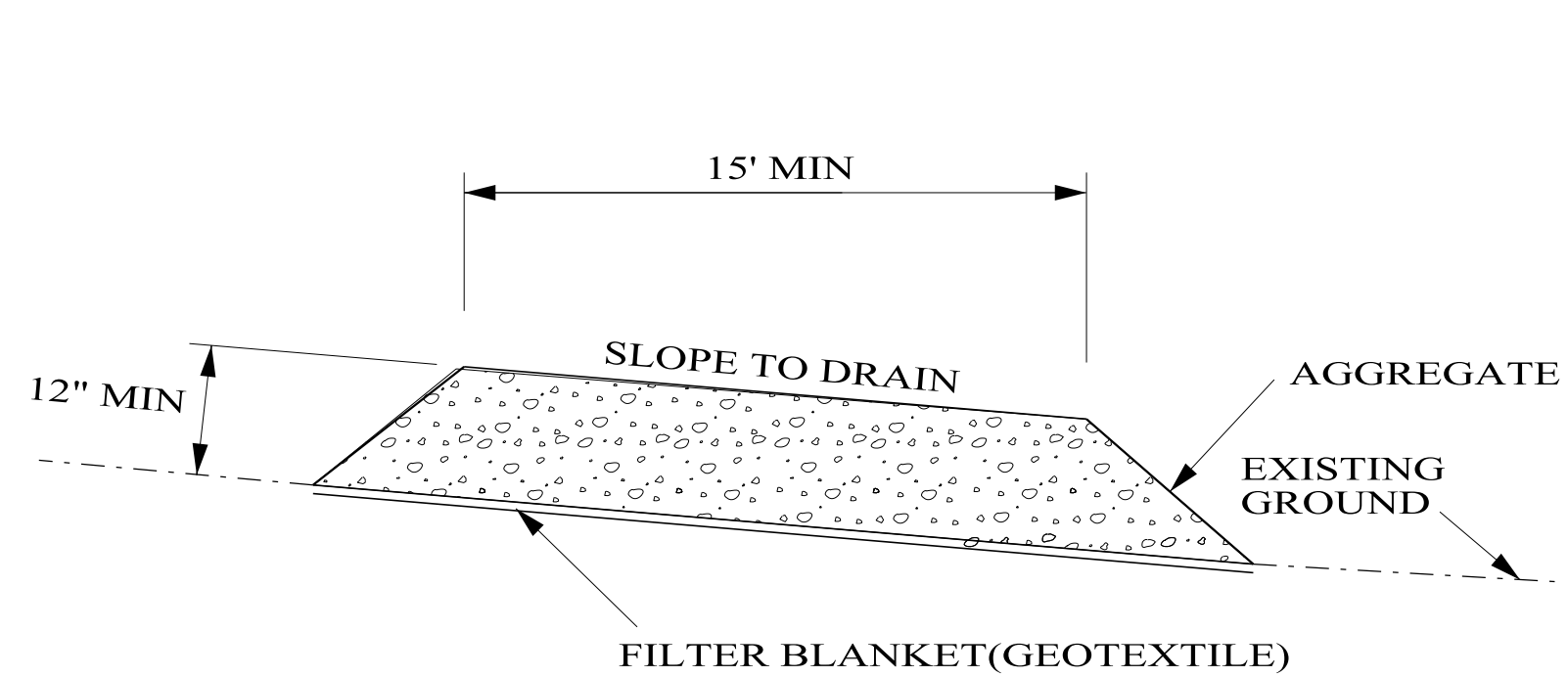
INDEX NO
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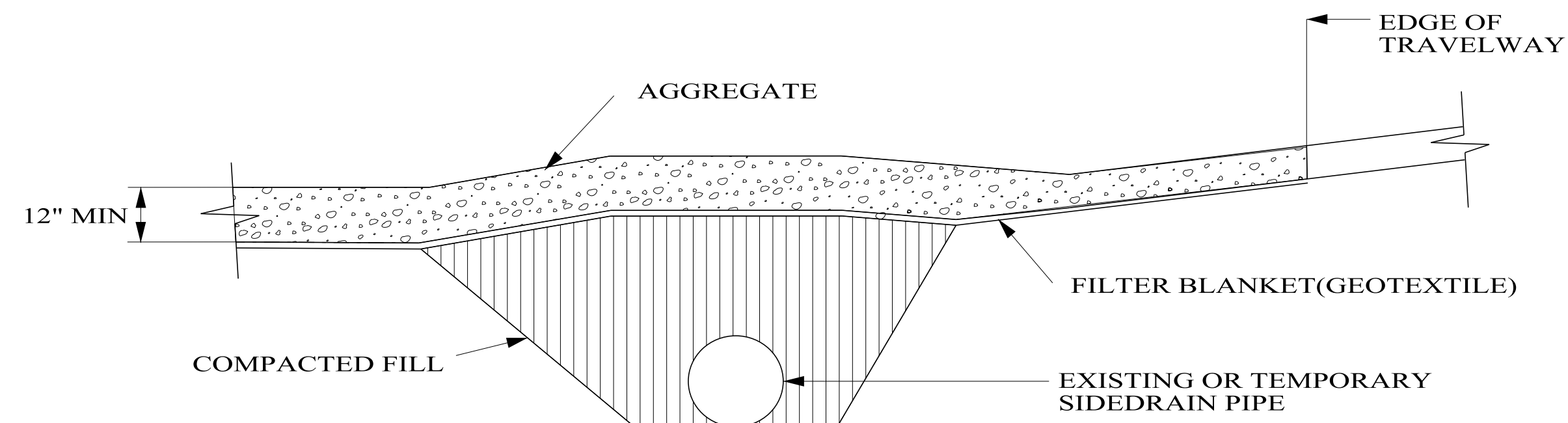
PERSPECTIVE VIEW



TRANSITION DETAIL



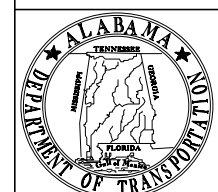
SECTION A-A



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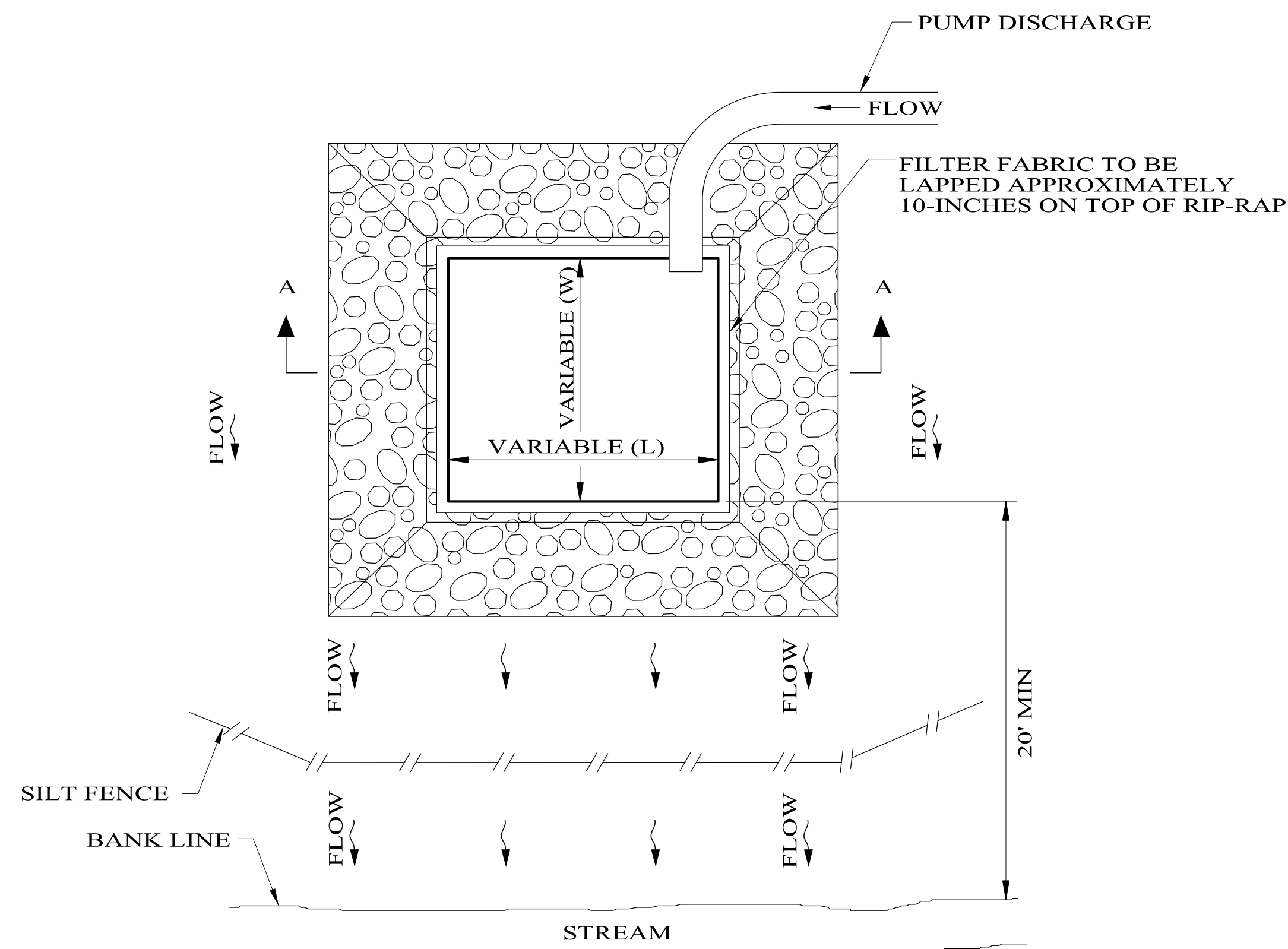
REVISIONS:
1. Changed Plan View to Perspective View & revised Note 1 on 8-24-2011 by J.F.T.

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

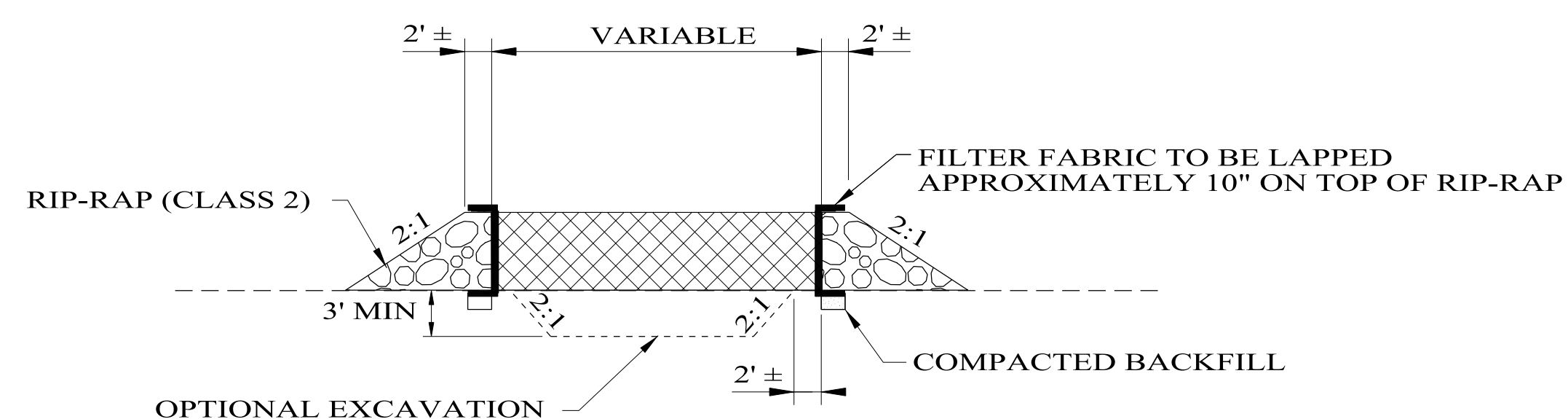
DESIGN BUREAU SPECIAL DRAWING
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

--SPECIFICATIONS--	
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO	INDEX NO
ESC-502	66532



PLAN VIEW

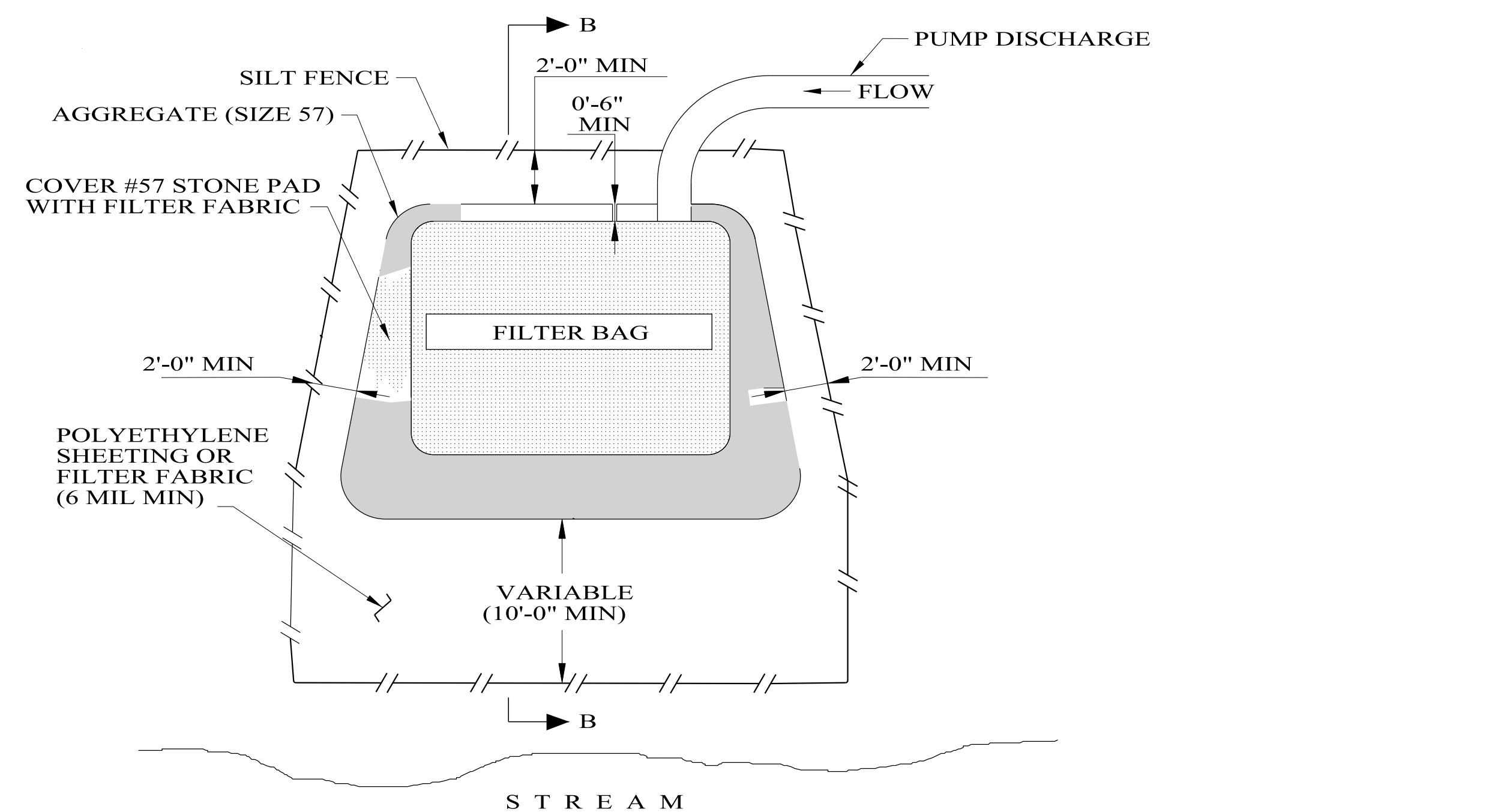


SECTION A-A

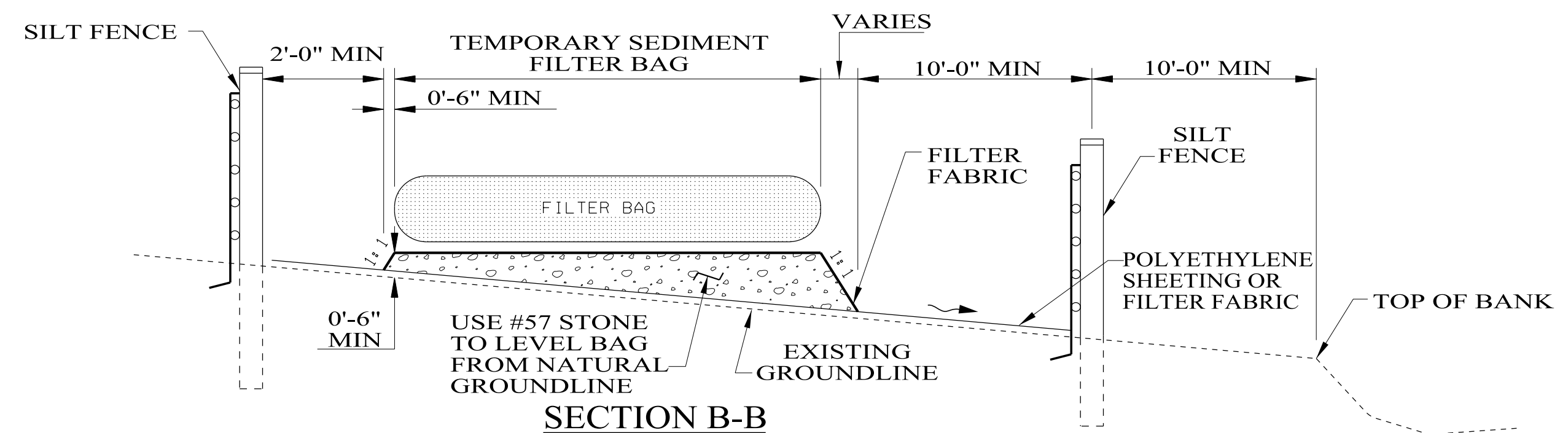
**TEMPORARY DEWATERING STRUCTURE
(BERM AND FABRIC)**

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

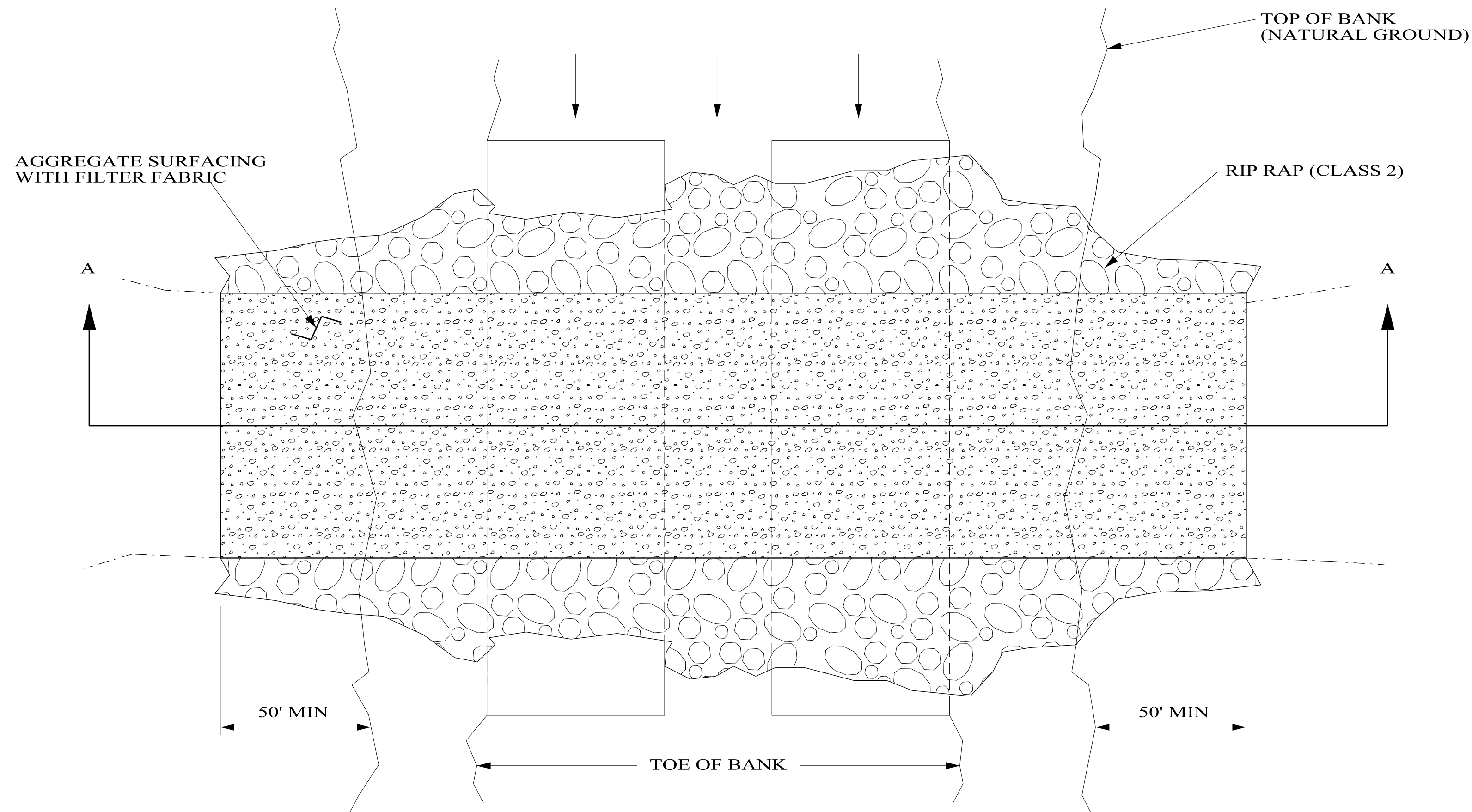
TEMPORARY DEWATERING STRUCTURE (FILTER BAG)

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				
TYPE	PUMP (DIA.)	RATE		STRUCTURE VOLUME REQUIRED (CUBIC FEET)
		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.

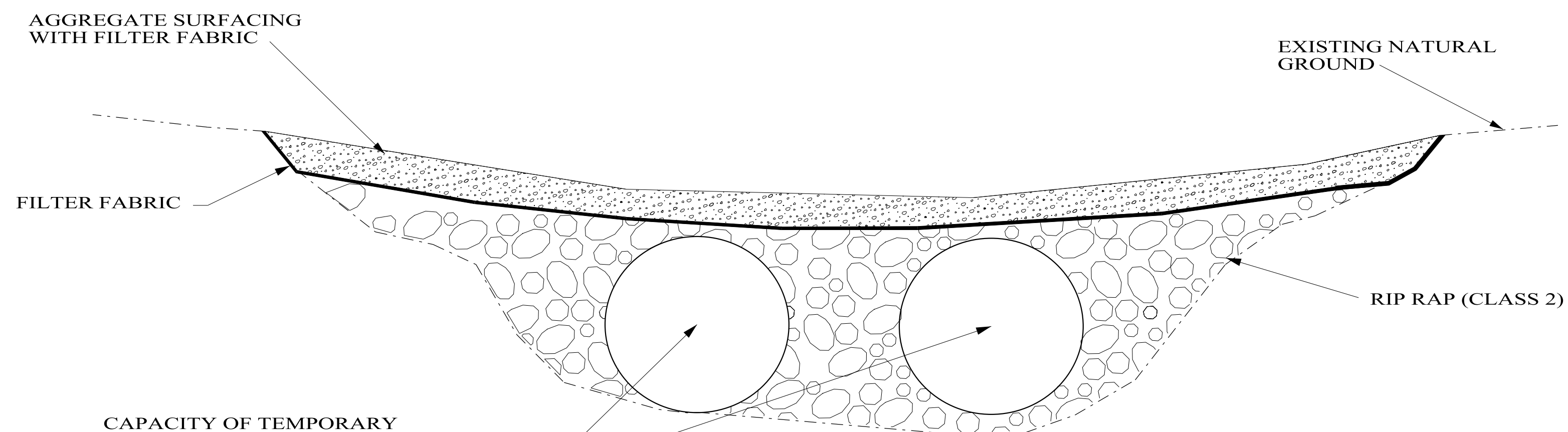


PLAN VIEW

TEMPORARY CULVERT STREAM CROSSING

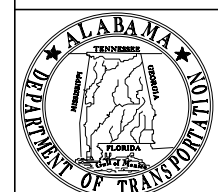
NOTES:

- 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.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR MAY PROPOSE OTHER OPTIONS FOR TEMPORARY STREAM CROSSINGS SUCH AS STEEL/TIMBER BRIDGE, FORD OR MATS.
- 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.
- CONTRACTOR SHALL SUBMIT DETAILED STREAM CROSSING PLAN IN ACCORDANCE WITH ALDOT SPECIFICATION SECTION 107.23.



SECTION A-A

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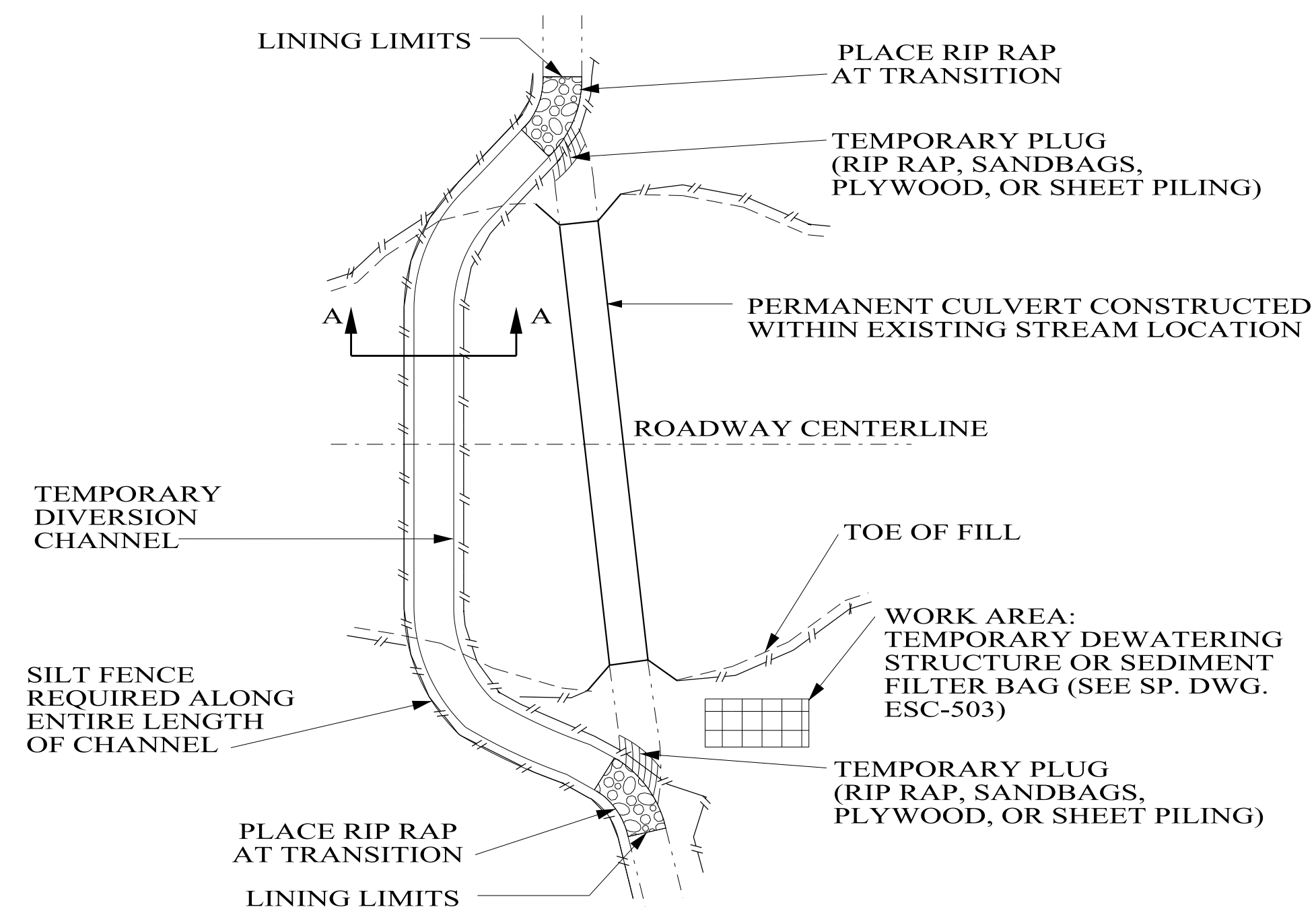
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REVISIONS:
1. Corrected Section A-A to show the low point in the center of the Channel and expanded Note No. 7 on 7-12-2007 by W.W.A.
2. Added Note 8 on 8-23-2011 by J.F.T.

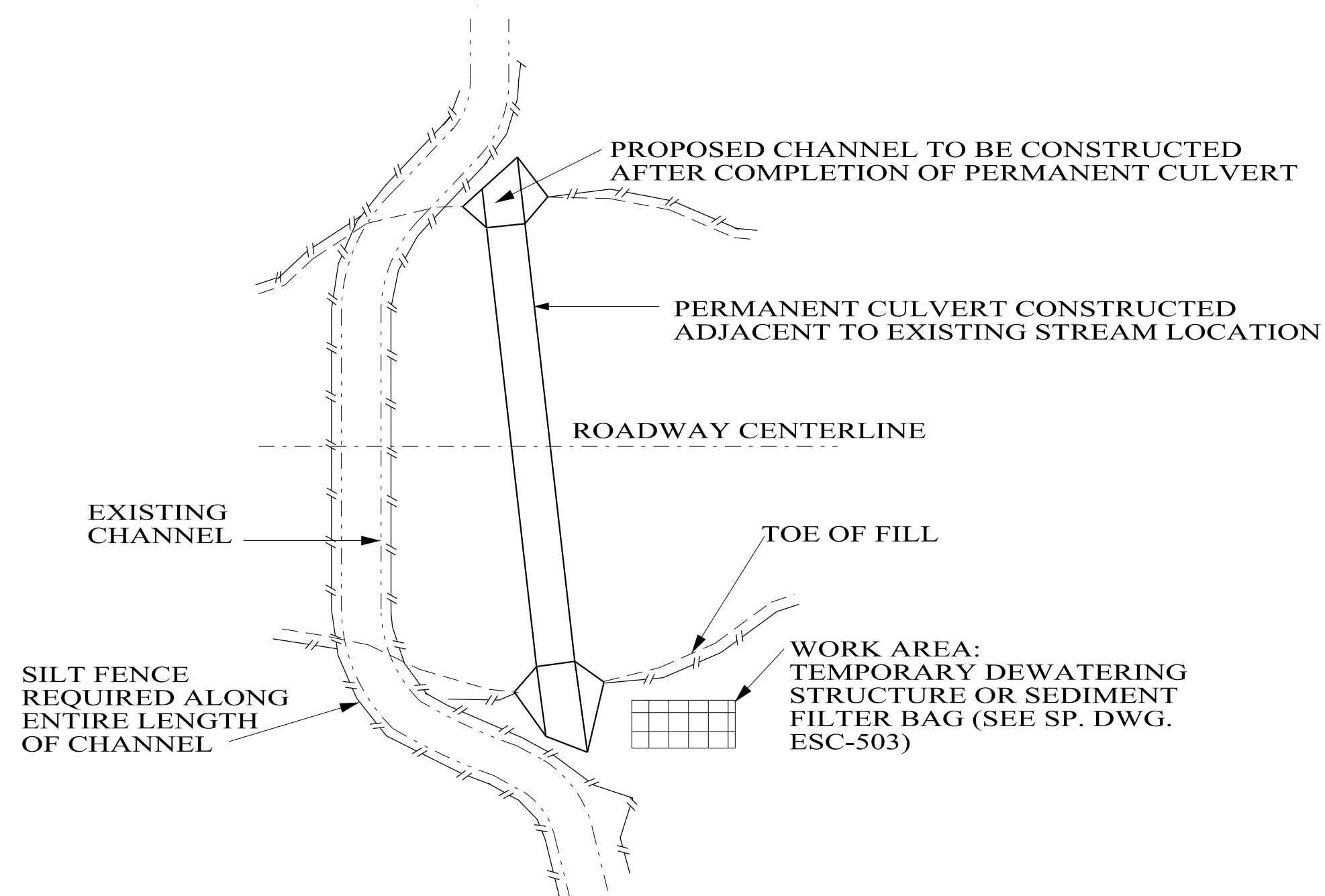
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 8-23-2011

DESIGN BUREAU SPECIAL DRAWING
TEMPORARY CULVERT
STREAM CROSSING

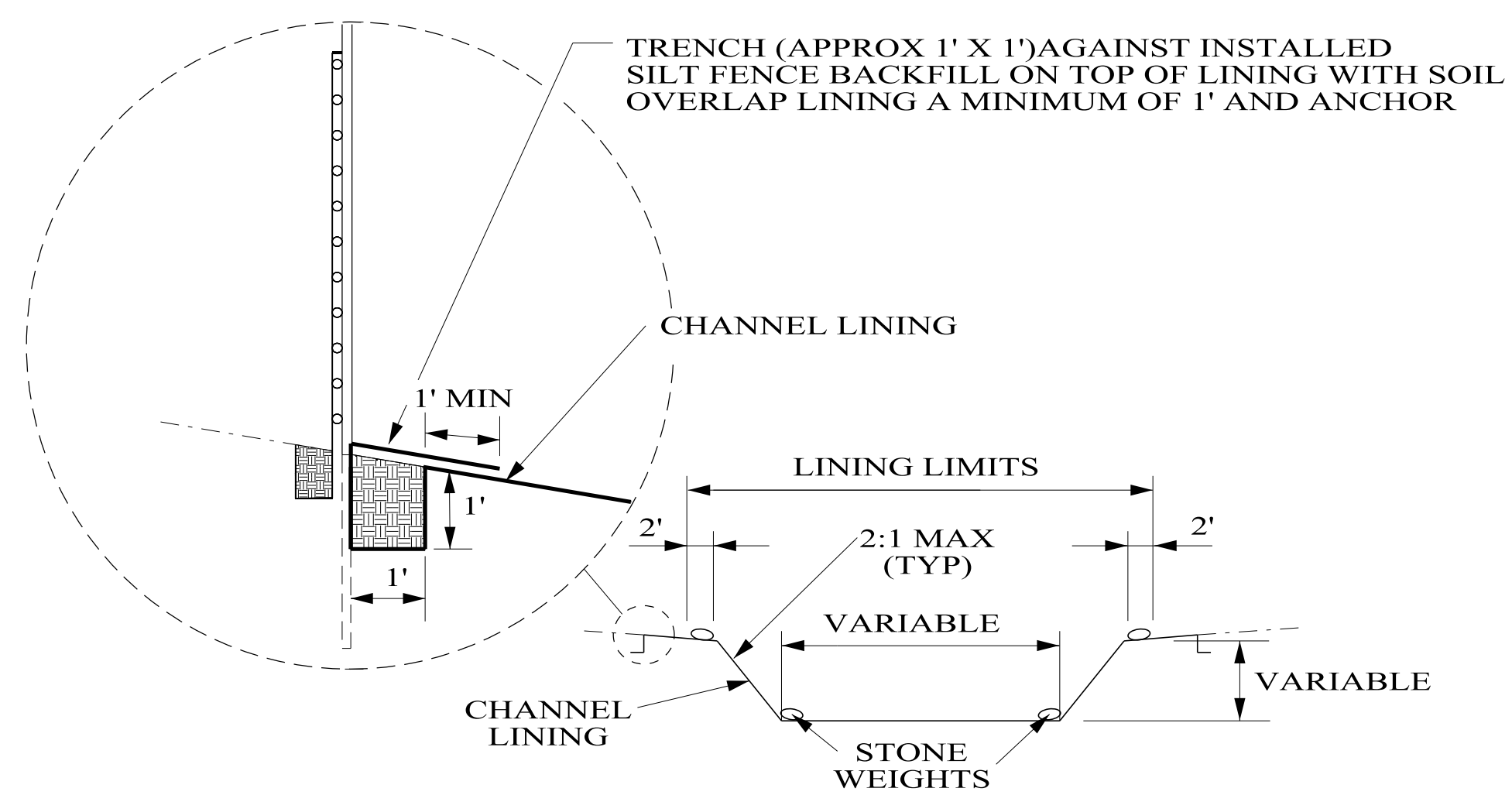
--SPECIFICATIONS--		INDEX NO
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		
SPECIAL DRAWING NO		
ESC-504	66538	



**CULVERT CONSTRUCTED
WITHIN EXISTING STREAM**

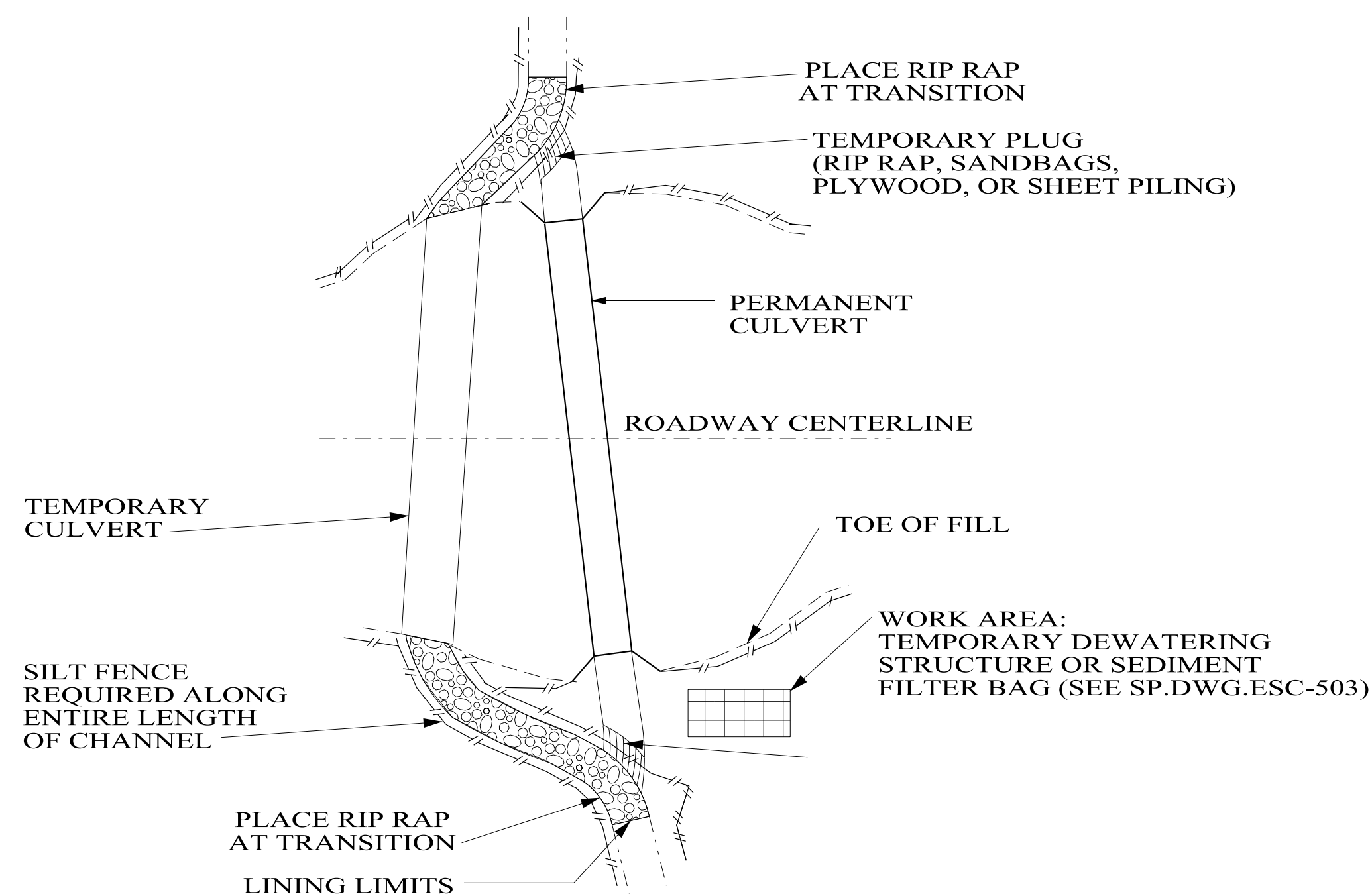


**CULVERT CONSTRUCTED
OUTSIDE EXISTING STREAM**



SECTION A-A

**TEMPORARY DIVERSION CHANNEL
WITH GEOTEXTILE FABRIC OR PLASTIC LINING**

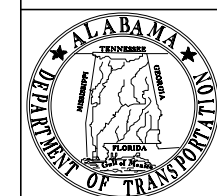


**TEMPORARY CULVERT
USED DURING CONSTRUCTION**

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.

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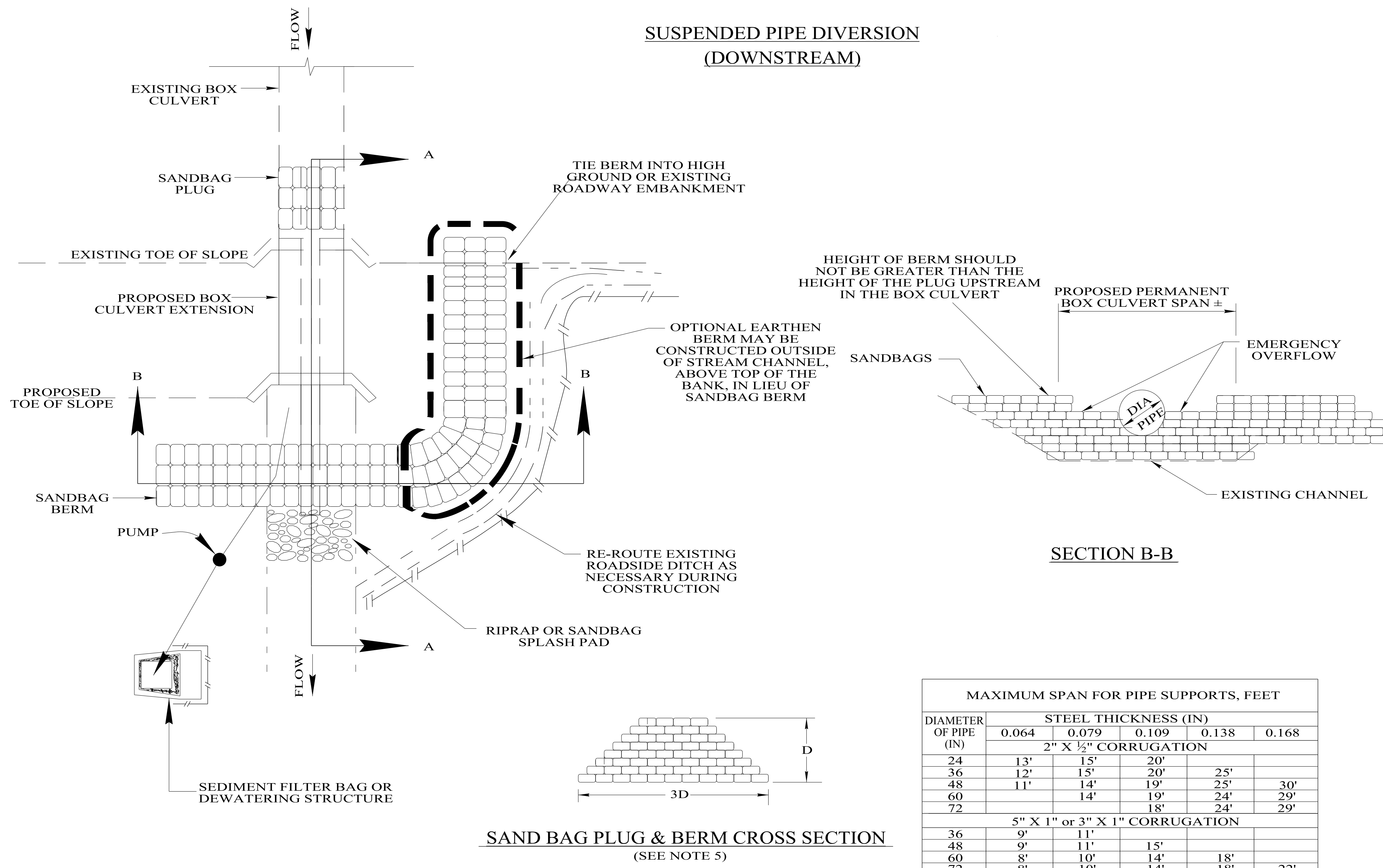
REVISIONS:
1. Updated "SECTION A-A" and deleted original Note No.'s 9 & 10 then renumbered on 8-24-2011 by J.F.T.

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

SECTION B-B

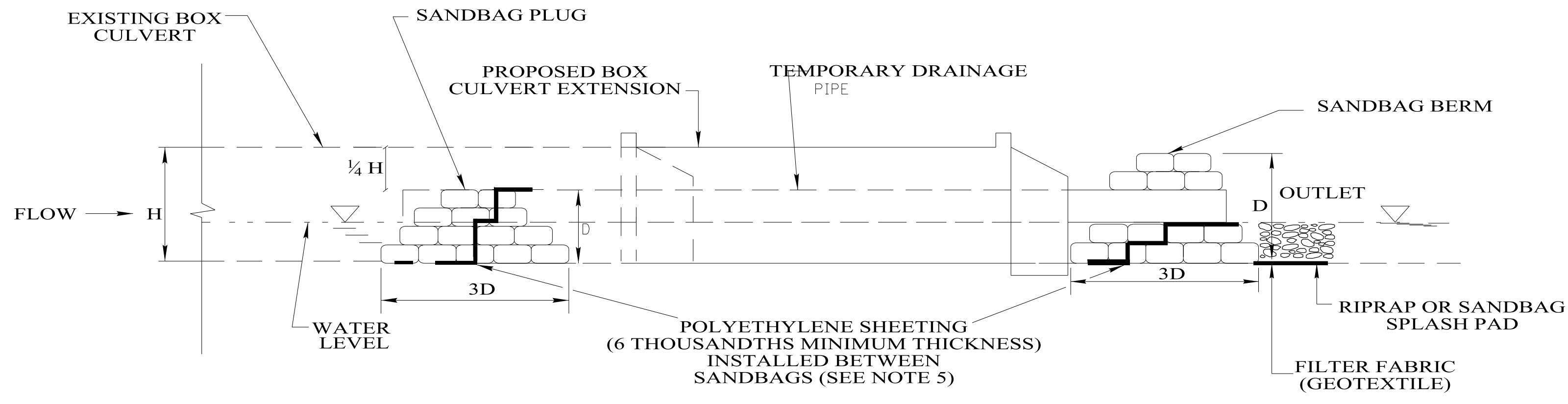
**SAND BAG PLUG & BERM CROSS SECTION
(SEE NOTE 5)**

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

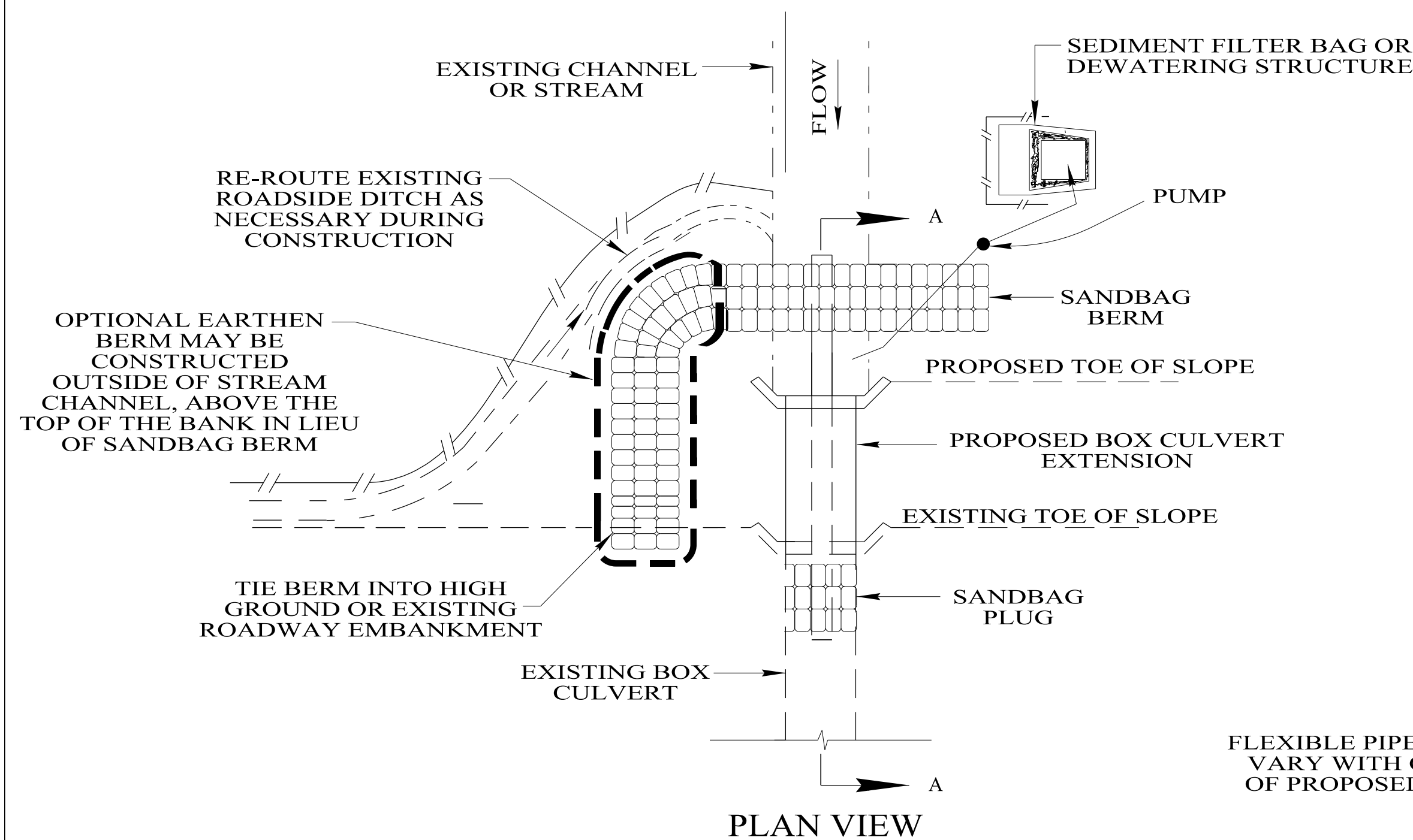
SUSPENDED PIPE DIVERSION (DOWNSTREAM) GENERAL NOTES

- 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.

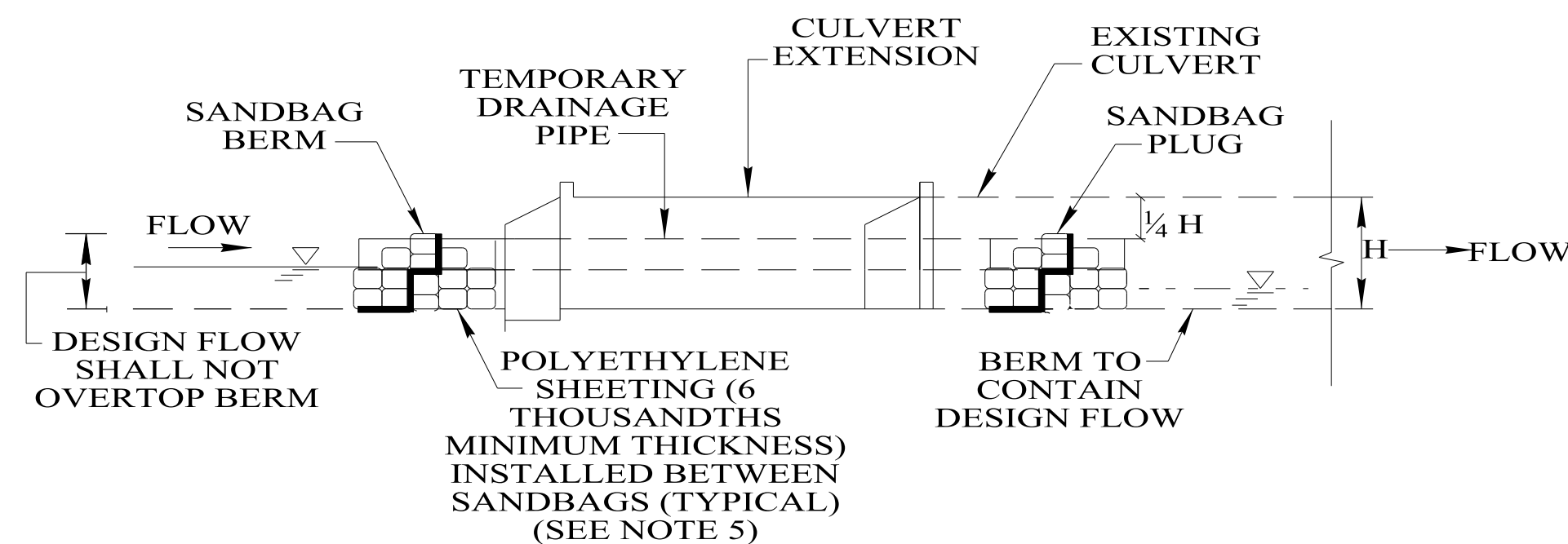


SECTION A-A

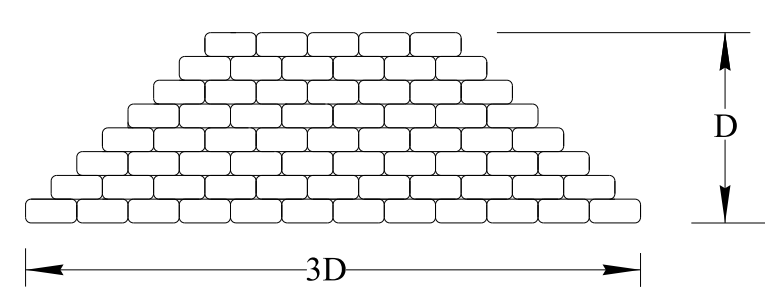
**SUSPENDED PIPE DIVERSION
(UPSTREAM)**



PLAN VIEW



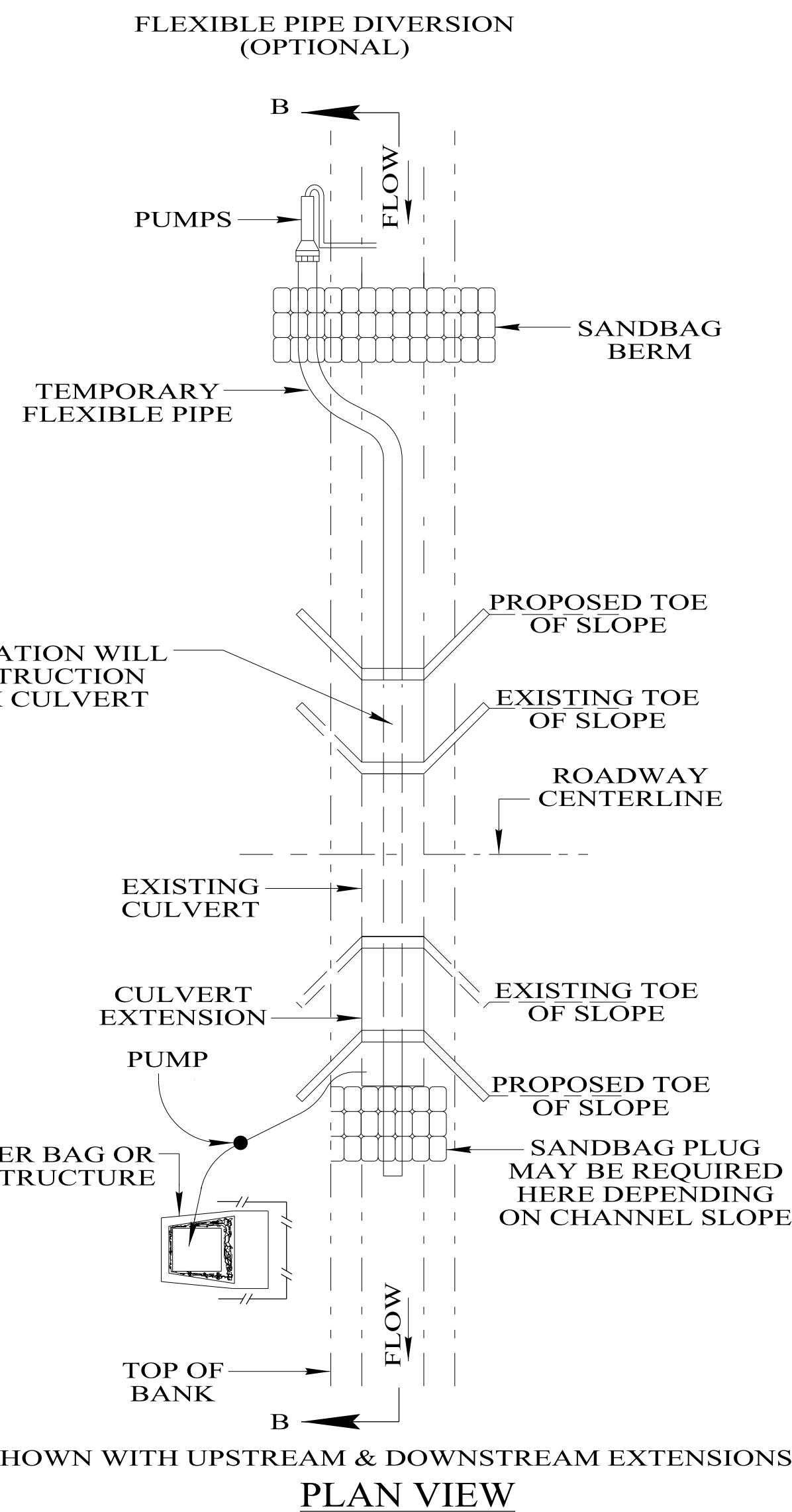
SECTION A-A



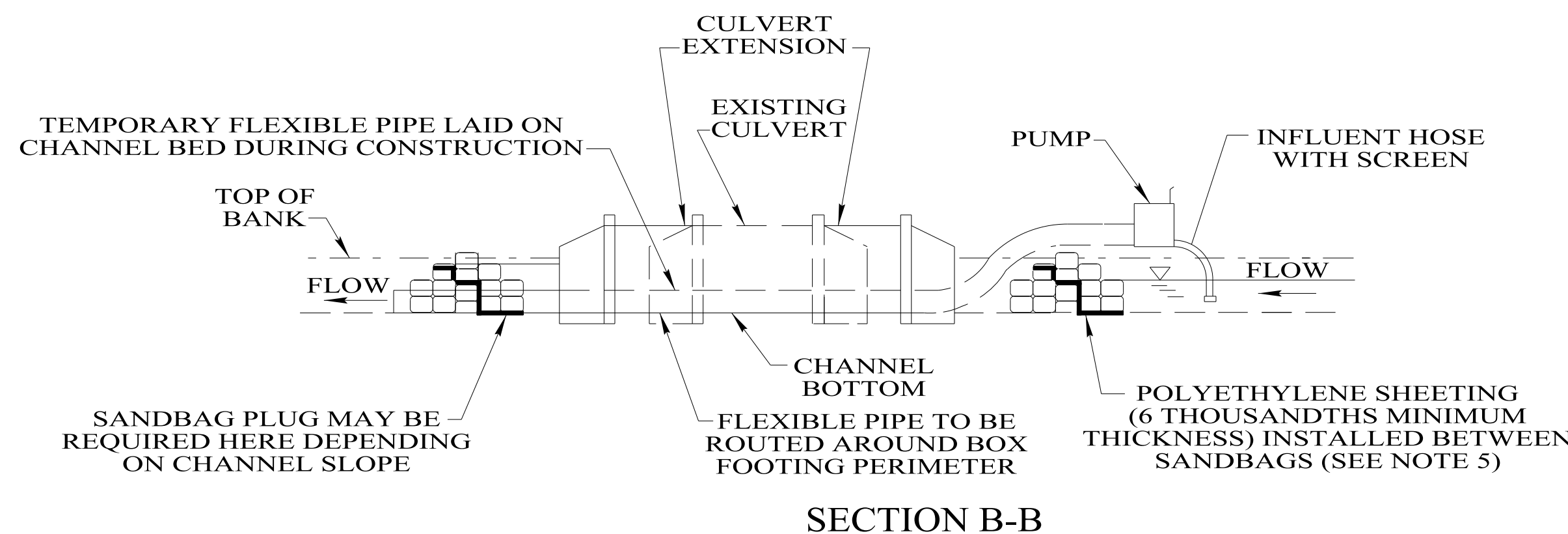
**SAND BAG PLUG & BERM CROSS SECTION
(SEE NOTE 5)**

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'
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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



PLAN VIEW



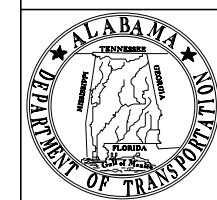
SECTION B-B

SUSPENDED PIPE DIVERSION (UPSTREAM) 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 BERM IN THE CHANNEL AND THE SANDBAG PLUG IN THE BOX CULVERT 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 JOINTS 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.
- 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.

NOT TO SCALE

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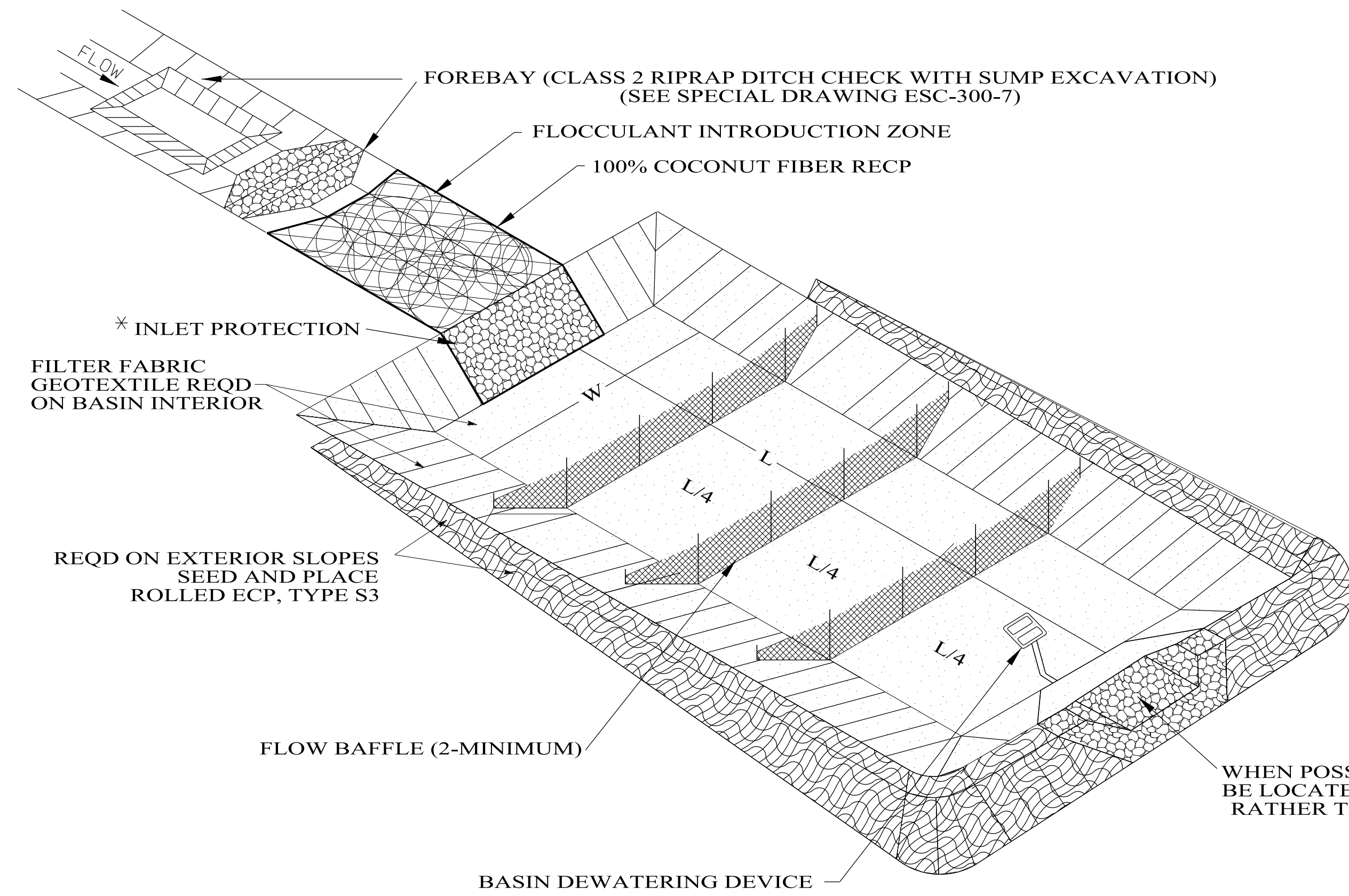
REVISIONS:
1. Added to CADD on 3-29-2010 by J.F.T.
2. Corrected Silt Fence linestyle on 8-24-2011 by J.F.T.
3. Updated Special Drawing No. from ESC-506 (SHEET 2 OF 2) to ESC-506-2 on 11-1-2016 by J.F.T. & J.M.M.

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

DESIGN BUREAU SPECIAL DRAWING
**SUSPENDED PIPE DIVERSION
(UPSTREAM)**

SPECIAL DRAWING NO
ESC-506-2

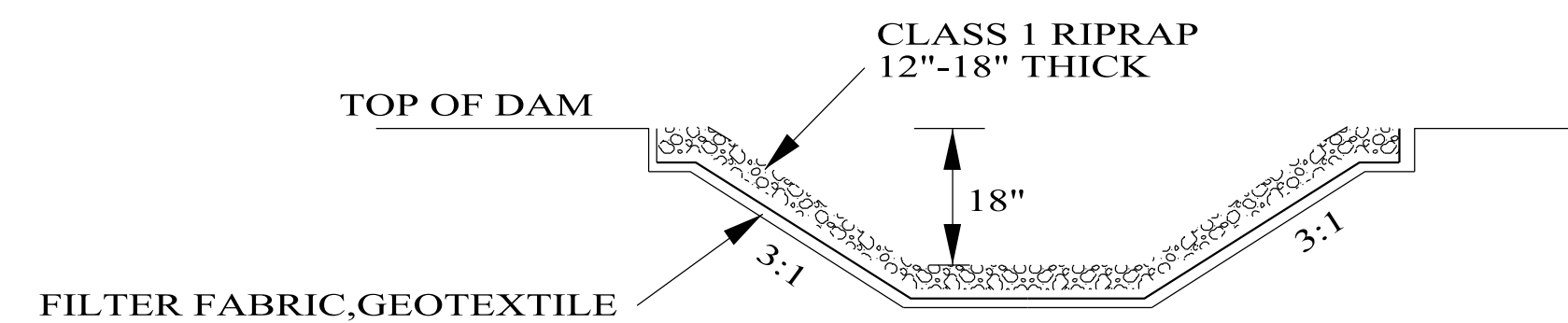
INDEX NO
66545



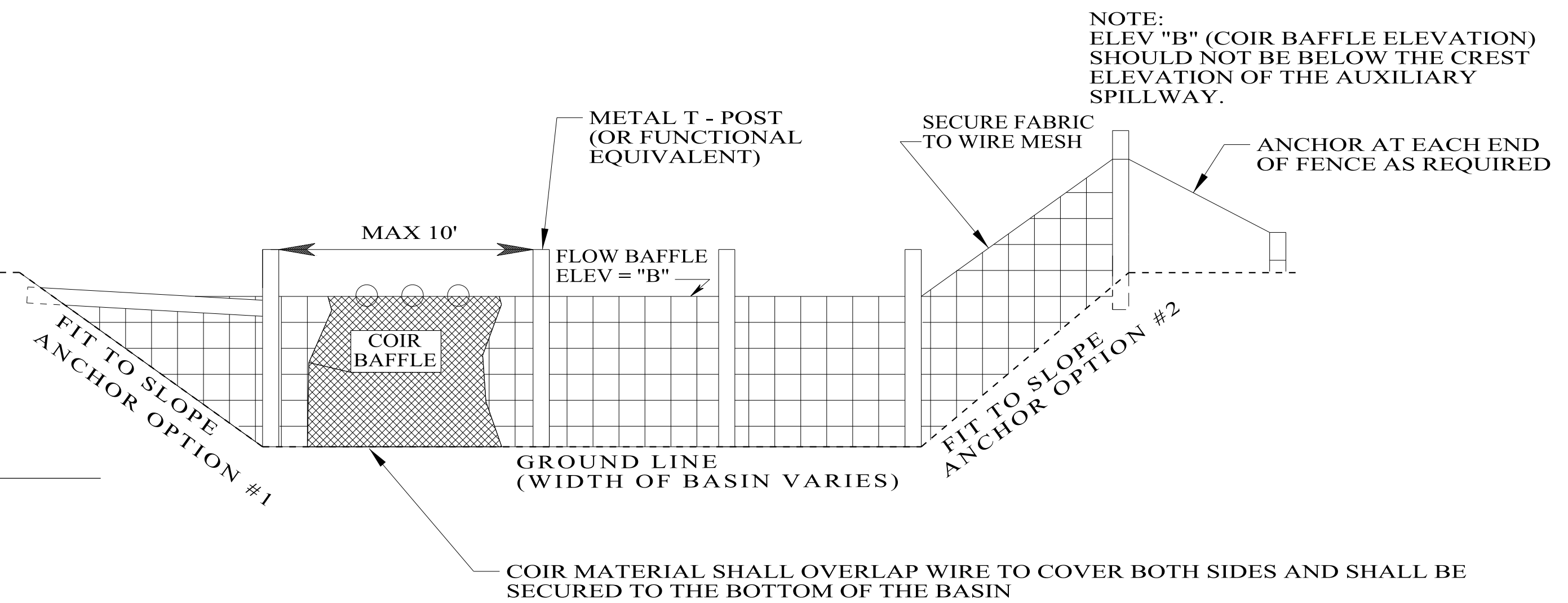
PERSPECTIVE VIEW

NOTES:

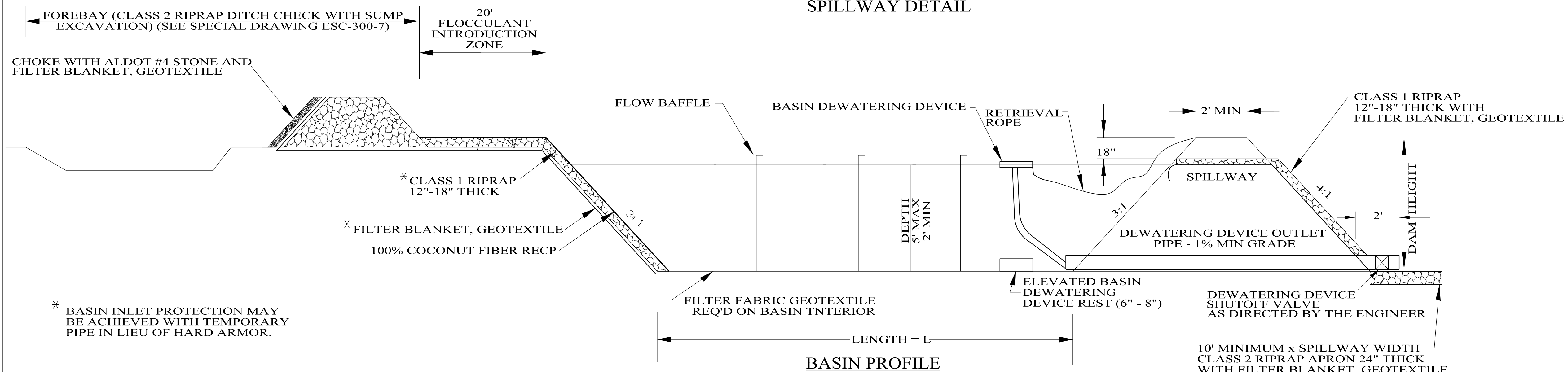
1. INLET AND SPILLWAY LOCATIONS TO BE ADJUSTED TO FIT EXISTING SITE CONTOURS. (BASIN IS NOT NECESSARILY RECTANGULAR SHAPED)
2. BAFFLES SHALL BE CONSTRUCTED OF 100% COCONUT (COIR) FIBER MATERIAL SUPPORTED BETWEEN POSTS WITH A WIRE MESH BACKING AS SHOWN BELOW. ROWS SHALL BE EVENLY SPACED THROUGH THE BASIN.
3. THE FLOCCULANT INTRODUCTION ZONE AND BASIN ENTRY SHALL BE TOPPED WITH 100% COCONUT (COIR) FIBER MATERIAL RECP THAT EXTENDS TO THE TOE OF THE SLOPE. MATERIAL PROPERTIES SHALL MEET THE SAME REQUIREMENTS AS GIVEN FOR FLOW BAFFLES.
4. FLOCCULANT SHALL BE PLACED AT THE INLET END OF THE BASIN IN THE FLOCCULANT INTRODUCTION ZONE. FLOCCULANT CONDITION SHALL BE MONITORED AND SHALL BE REPLACED WHEN IT NO LONGER APPEARS TO BE EFFECTIVE.
5. DO NOT CONSTRUCT TEMPORARY SEDIMENTATION BASIN IN FLOODWAY.
6. TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED UTILIZING EXISTING GROUND SURFACE WHERE POSSIBLE TO MINIMIZED DISTURBANCE.



SPILLWAY DETAIL

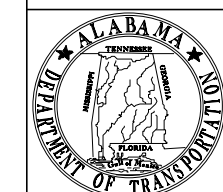


FLOW BAFFLE DETAIL



BASIN PROFILE ALONG THE CENTERLINE

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REVISIONS:
1. Changed hatching to show change in material and revised text in "PERSPECTIVE VIEW" on 9-24-2012 by J.F.T.
2. Revised "FLOW BAFFLE DETAIL" on 10-24-2014 by J.F.T.
3. Correct sheet reference "ESC-300, sheet 7 of 8" to "ESC-300-7" on 12-6-2016 by L.V.S.
4. Added coconut fiber callouts. Added new Note 3 and renumbered others accordingly on 8-20-2020 by D.J.W.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 1-15-2009
REVISED DATE: 8-20-2020

DESIGN BUREAU SPECIAL DRAWING
TEMPORARY SEDIMENTATION BASIN

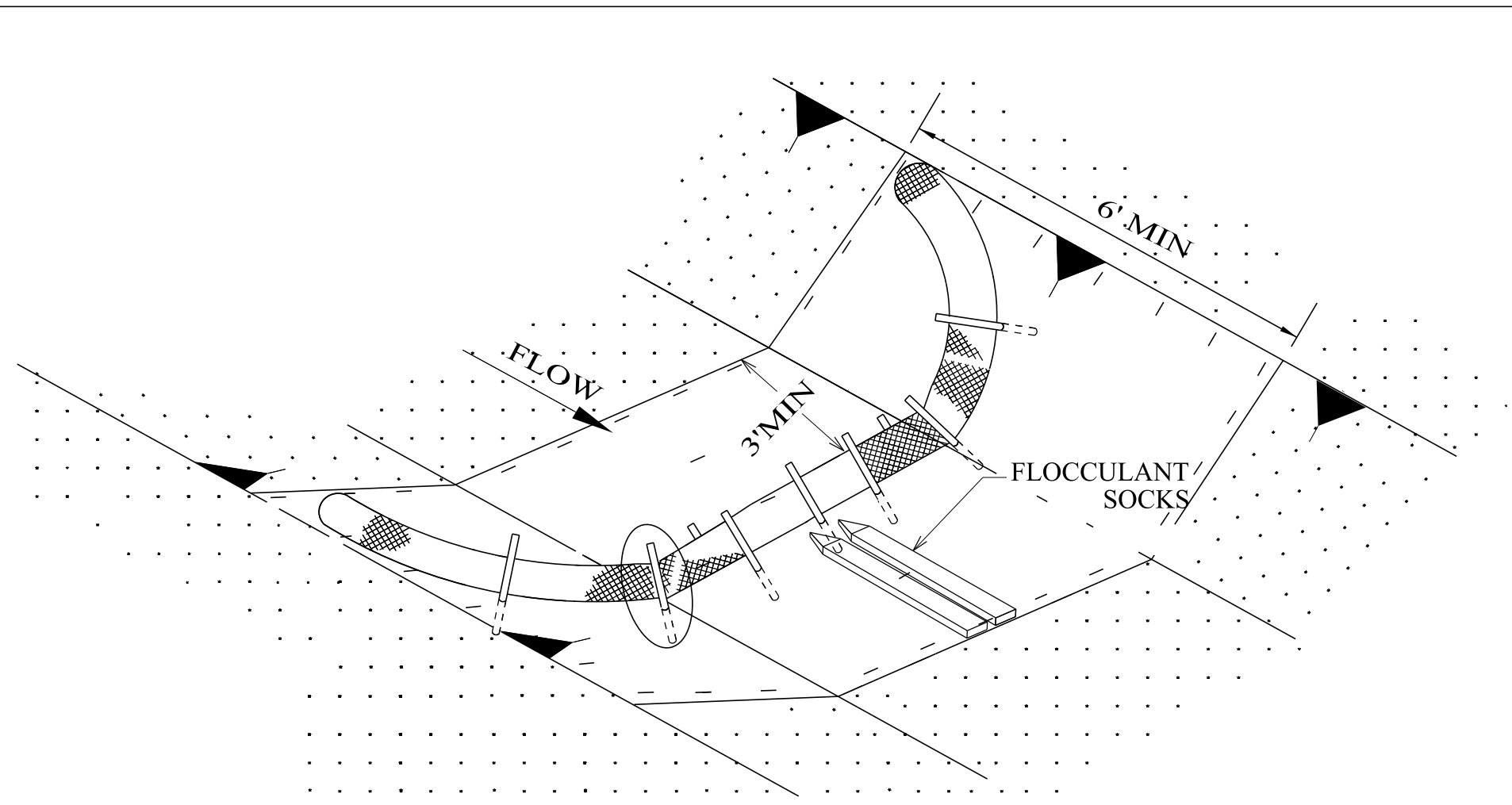
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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO

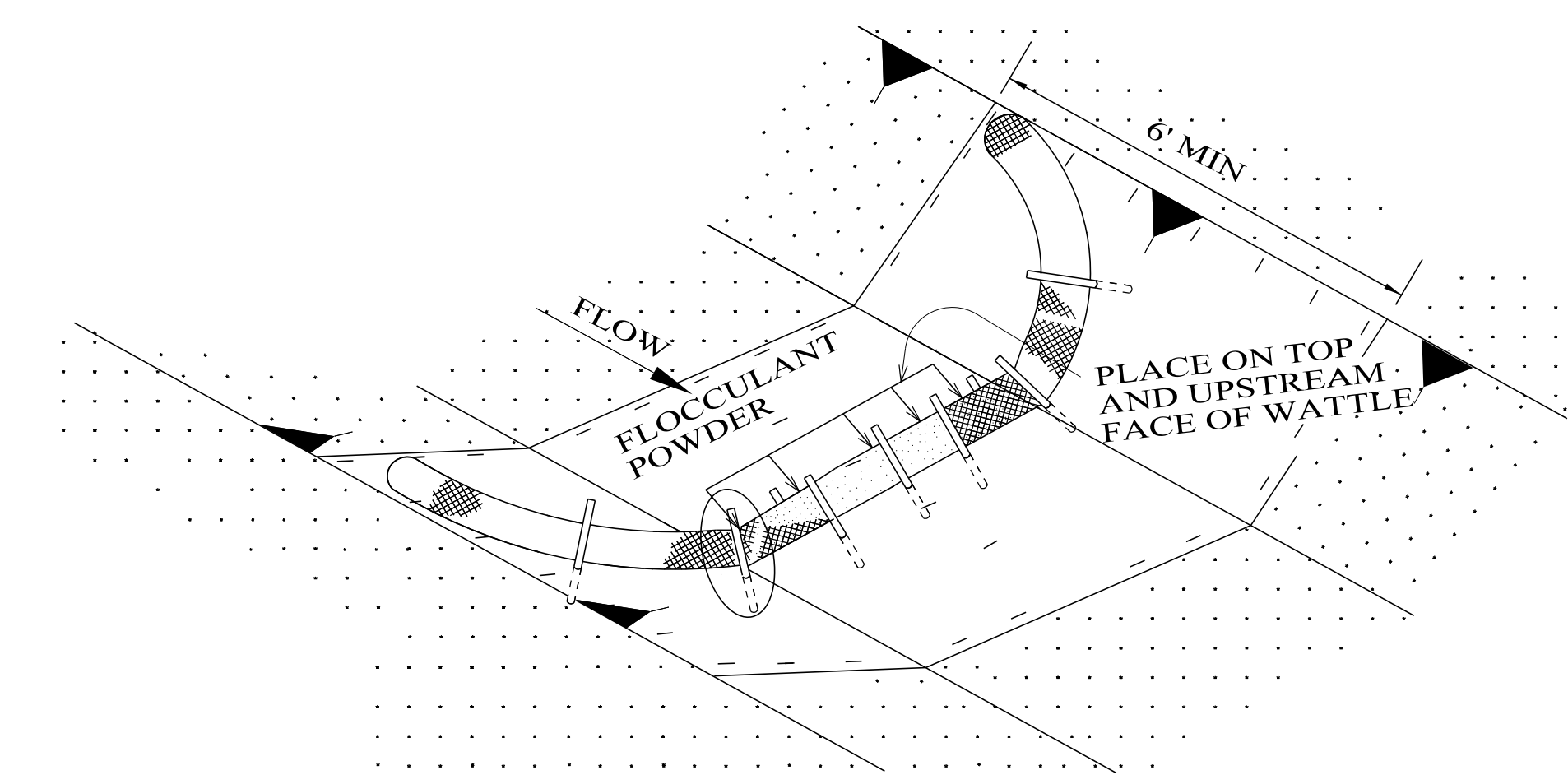
ESC-507

INDEX NO

66548

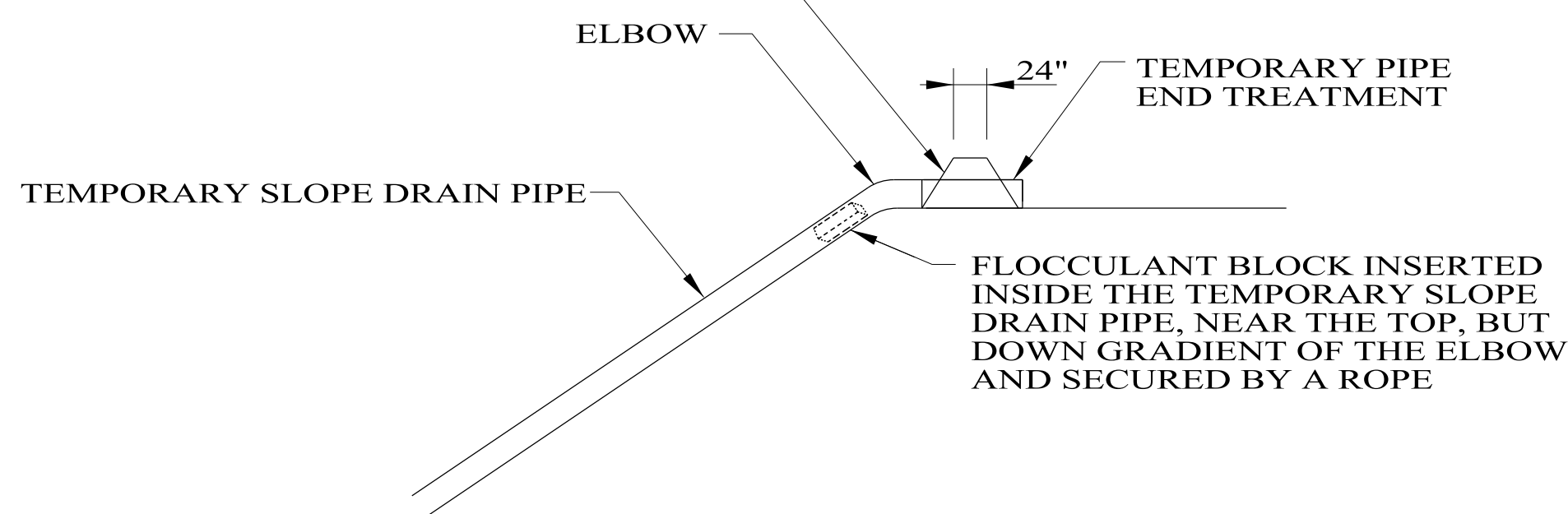


**FLOCCULANT SOCK USE
WITH WATTLE DITCH CHECK**
(SEE SPECIAL DRAWING ESC-300-4)

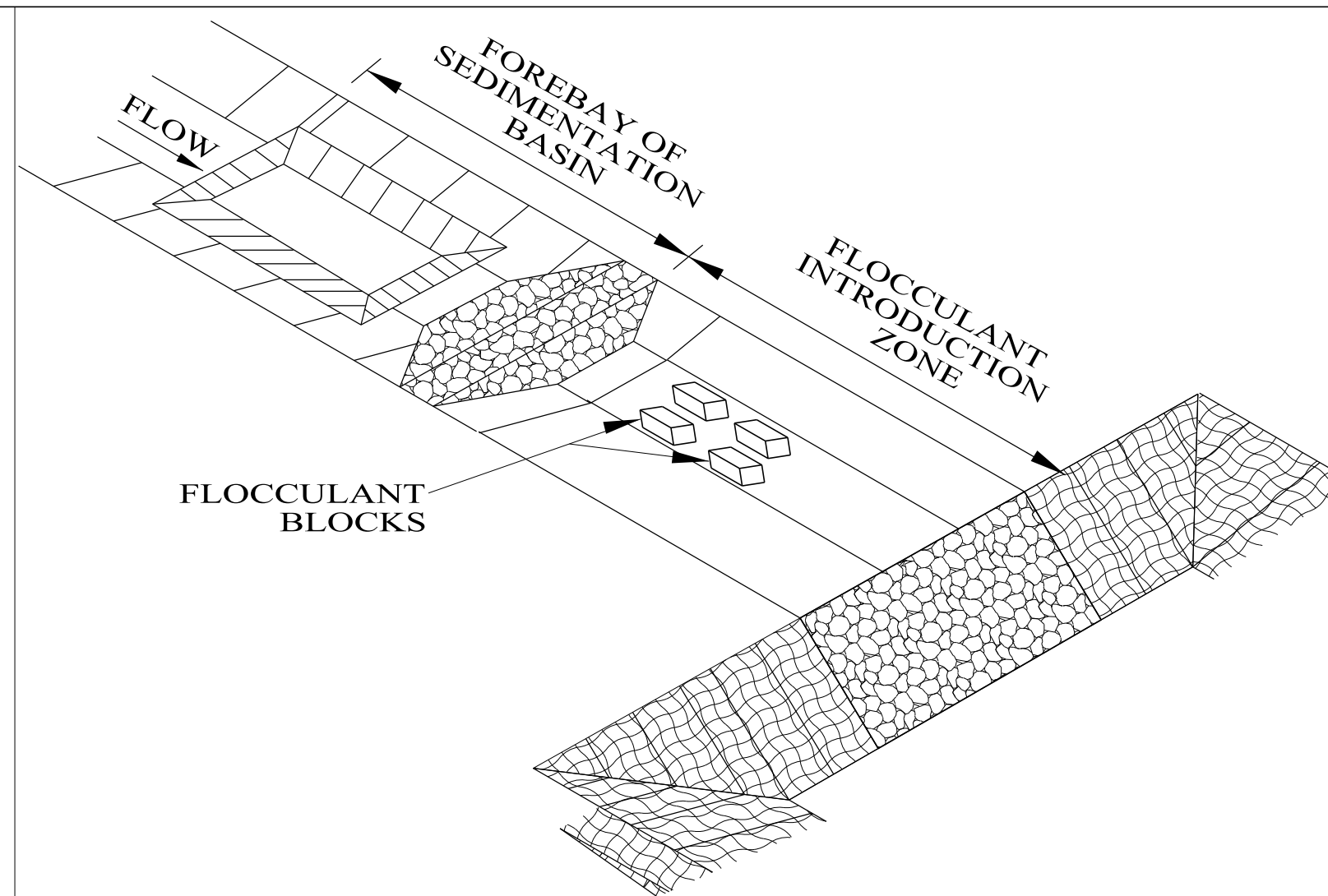


**FLOCCULANT POWDER USE
WITH WATTLE DITCH CHECK**
(SEE SPECIAL DRAWING ESC-300-4)

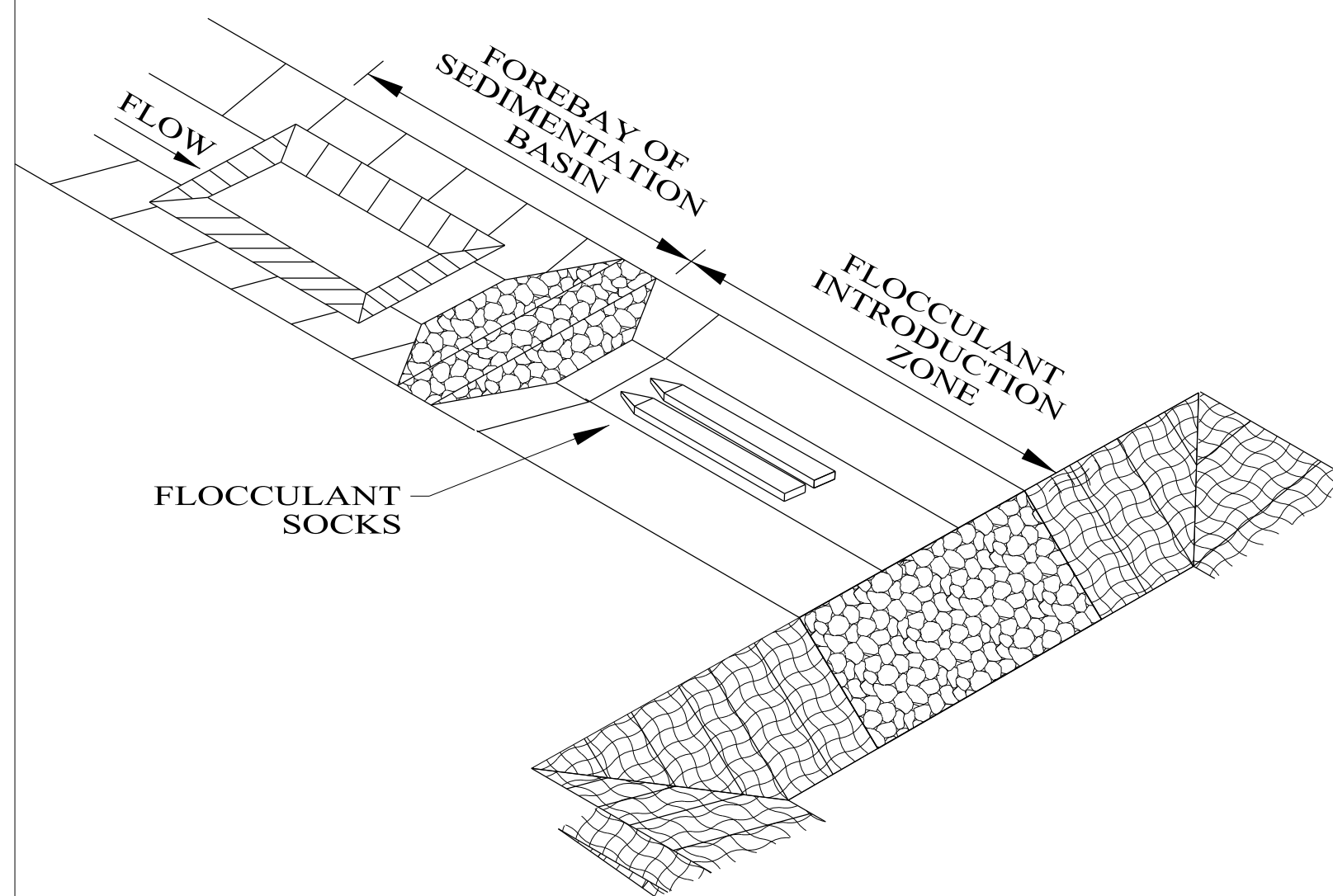
TEMPORARY BERM (COMPACTED EARTH,
APPROXIMATELY 24" WIDE X 18" HIGH)



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



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

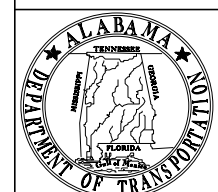


**FLOCCULANT SOCK USE
WITH SEDIMENTATION BASIN**
(SEE SPECIAL DRAWING ESC-507)

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.
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.

DESIGN BUREAU SPECIAL DRAWING
DRAWN BY: D.J.W.
DATE DRAWN: 9-24-2012
REVISED DATE: 8-31-2020

FLOCCULANT USAGE GUIDE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

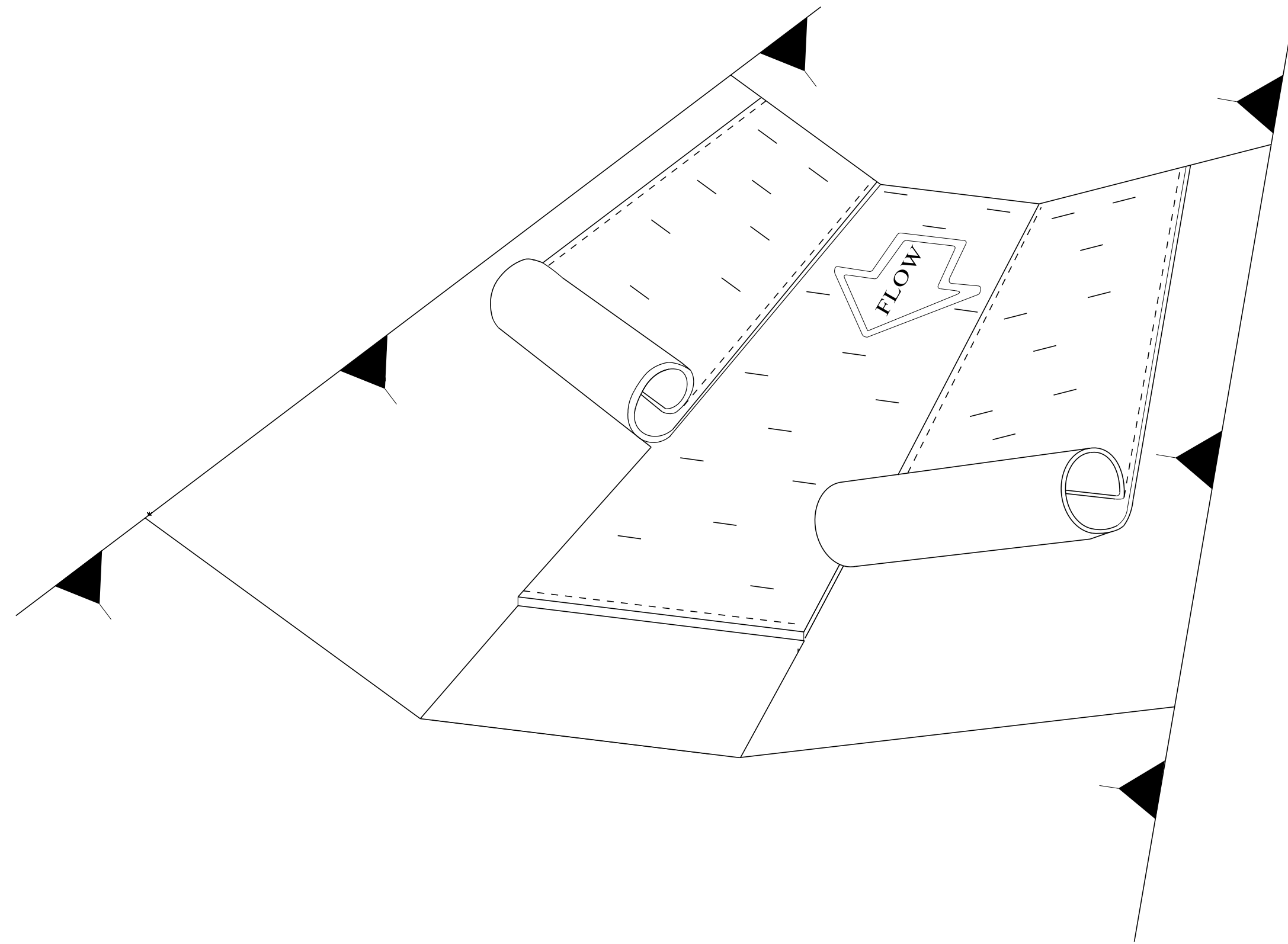
SPECIAL DRAWING NO

ESC-508

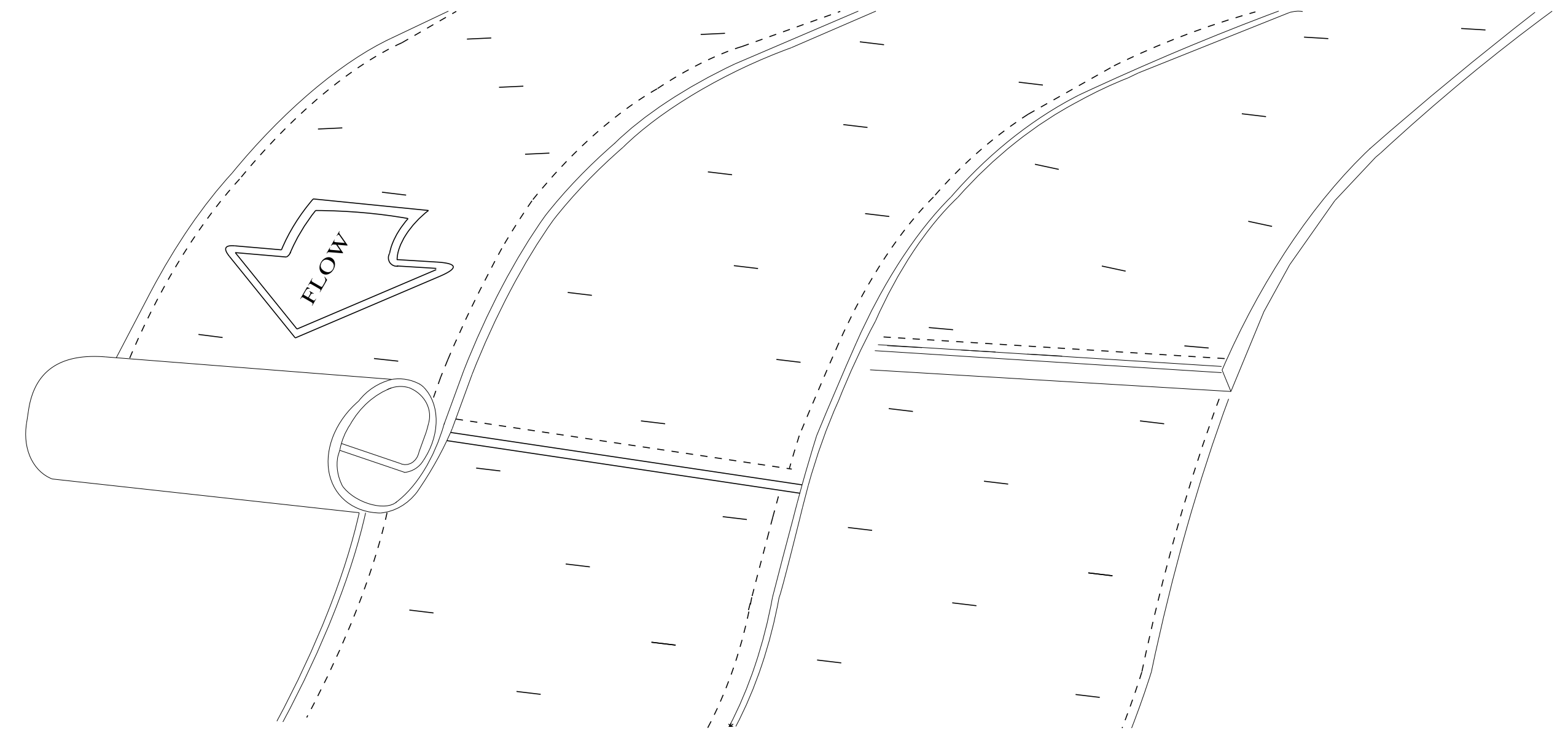
INDEX NO

67201

CHANNEL INSTALLATION DETAIL



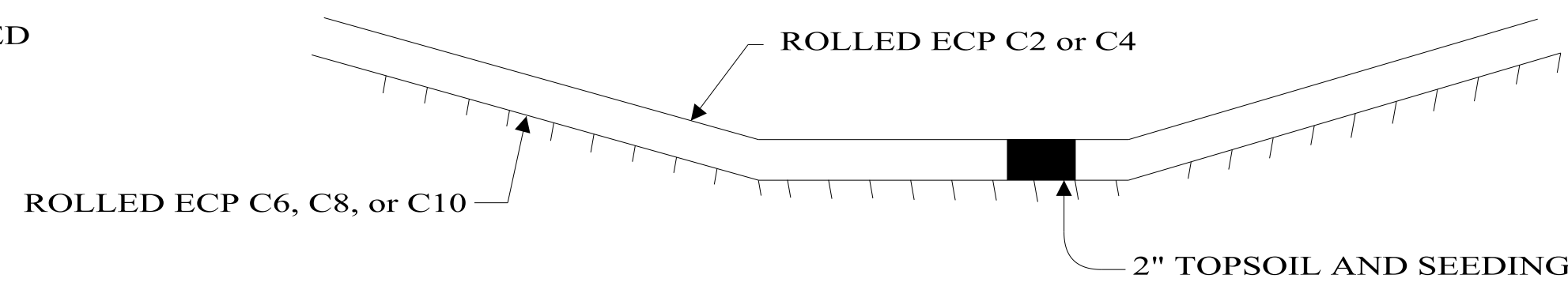
SLOPE INSTALLATION DETAIL



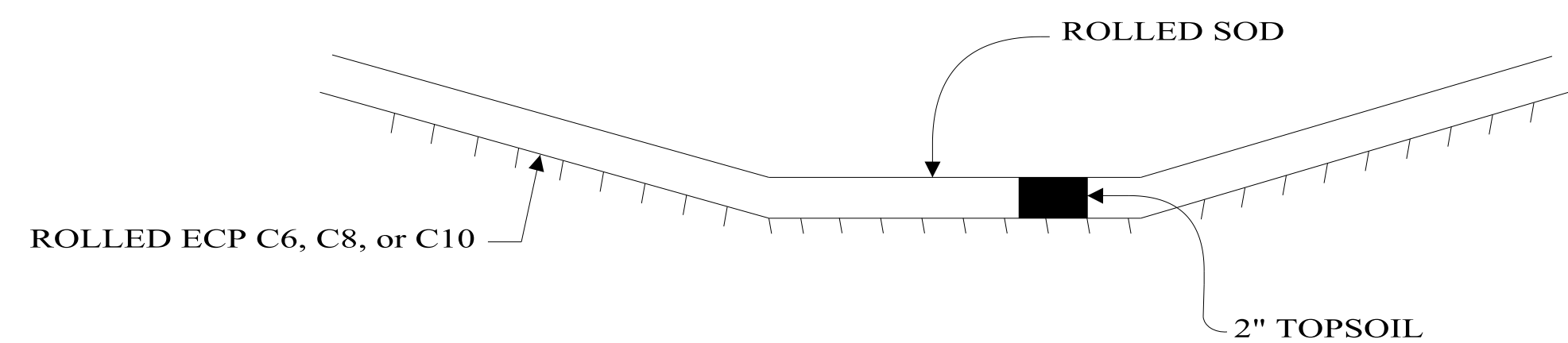
CROSS SECTION

OPTION A (SEE NOTE 5)

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



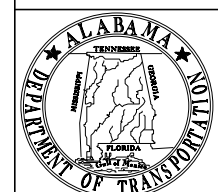
OPTION B (SEE NOTE 5)



NOTES:

1. 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.
2. STAPLES SHALL BE PLACED ON OVERLAPS, AT THE TOE OF THE RECP, AND THROUGHOUT THE RECP INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO ENSURE THE RECP IS IN CONTACT WITH THE UNDERLYING SOIL.
3. HYDRAULIC EROSION CONTROL PRODUCTS SHALL BE INSTALLED BY SPRAYING IN OPPOSING DIRECTIONS TO PROVIDE A SOLID BLANKET OF PRODUCT. RECPs SHALL BE APPLIED BY EQUIPMENT AND AT A RATE THAT MEETS THE RECOMMENDATIONS OF THE PRODUCT MANUFACTURER SPECIFIC TO THE SLOPE.
4. 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.
5. 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.
6. 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

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SPECIAL DRAWING NO
ESC-509

INDEX NO
65901