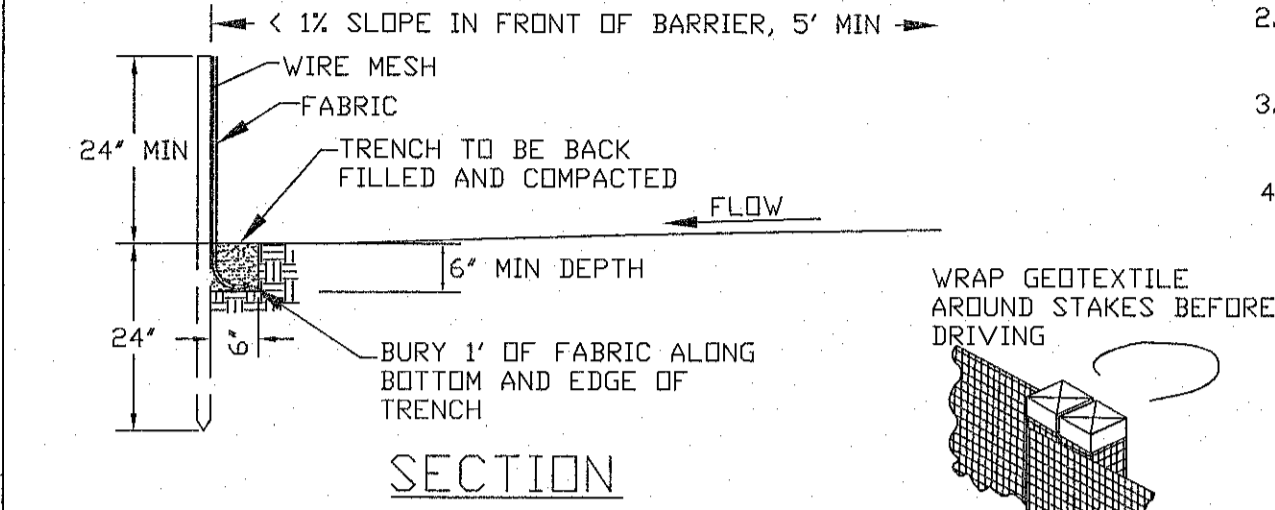
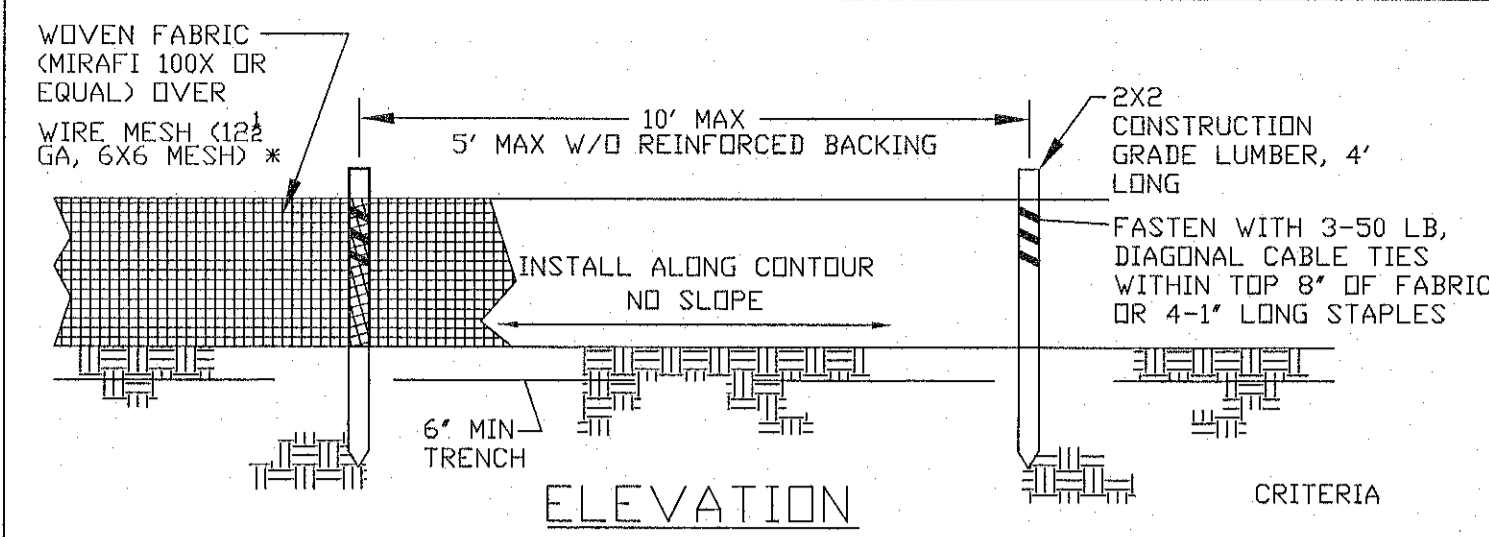


- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  - TERRACING INCLUDES LOGS, WATTLE & FILTER SOCKS.

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ENGINEERING DEPARTMENT  
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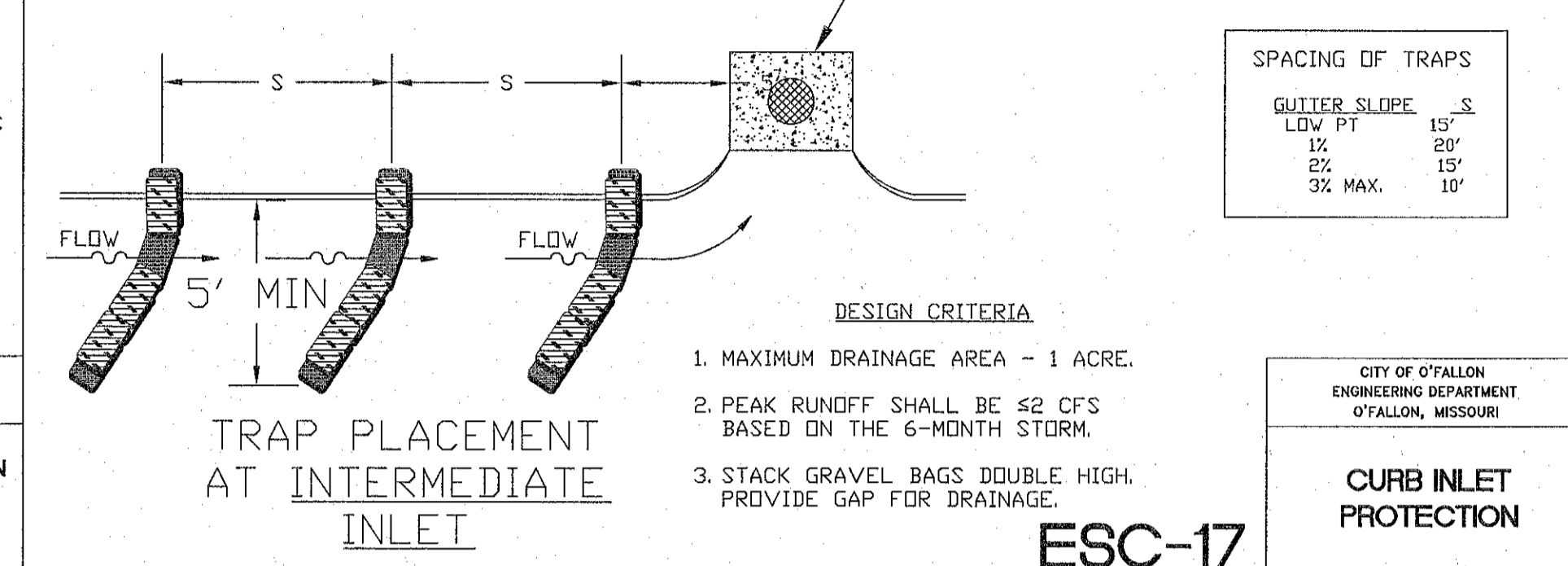
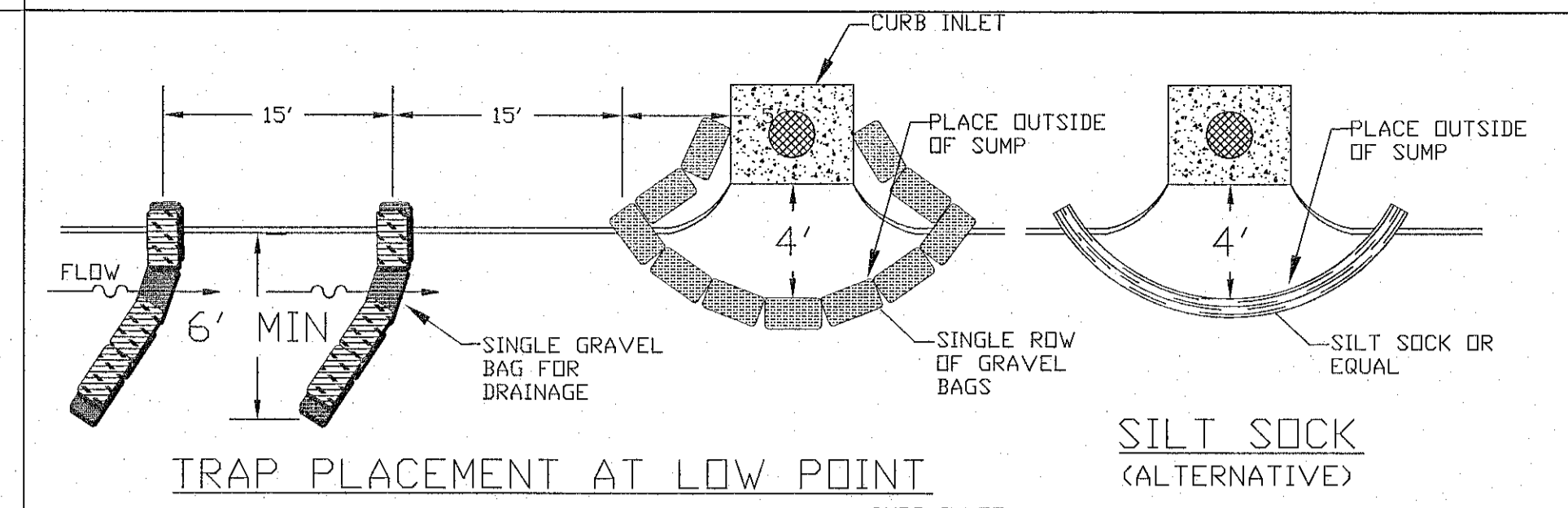
**SPACING CHART  
FOR ESC DEVICES**



- CRITERIA**
- SILT FENCE SHALL BE 24 INCHES HIGH.
  - SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
  - GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
  - WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

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O'FALLON, MISSOURI

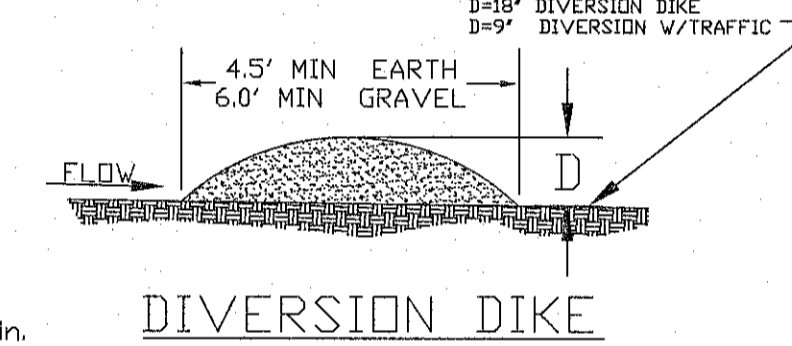
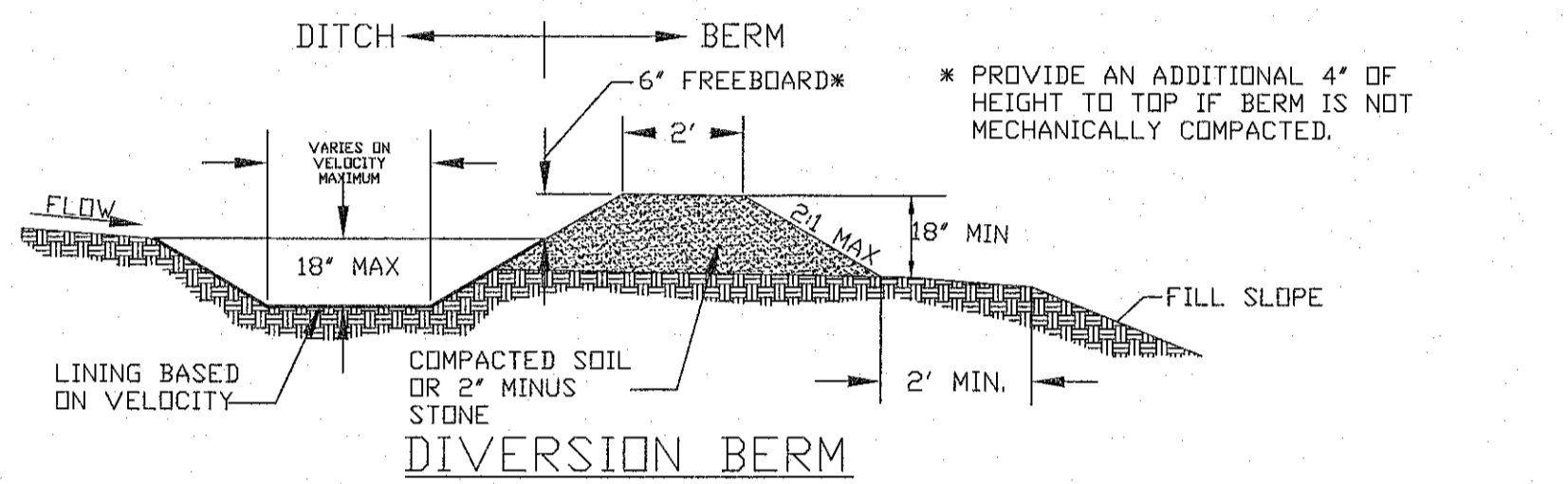
**SILT FENCE INSTALLATION  
SHEET FLOW (ONLY)**



- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
  - PEAK RUNOFF SHALL BE ≤ 2 CFS BASED ON THE 6-MONTH STORM.
  - STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

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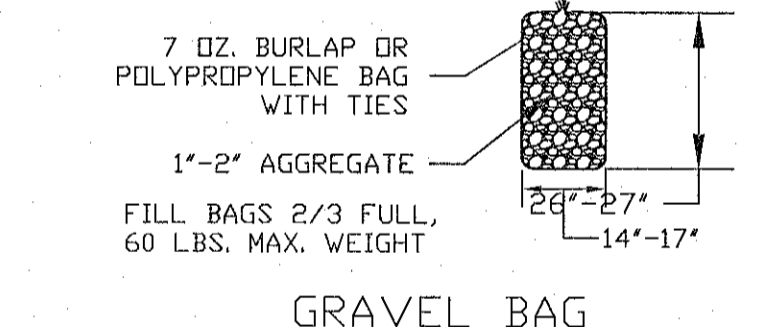
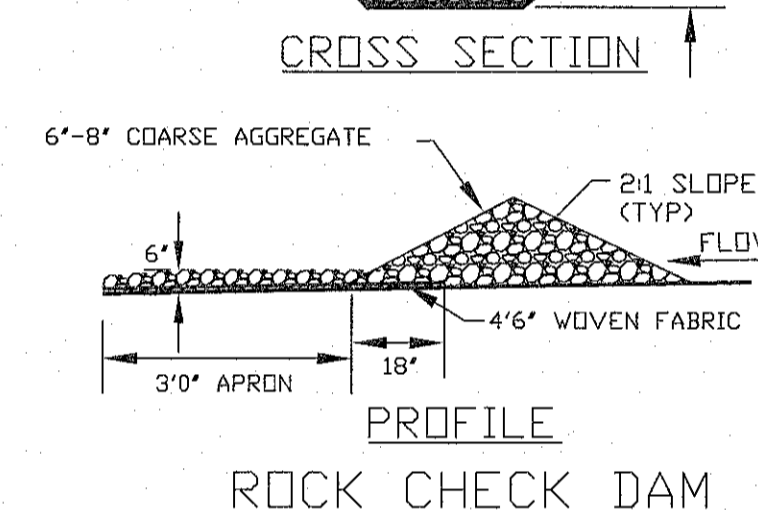
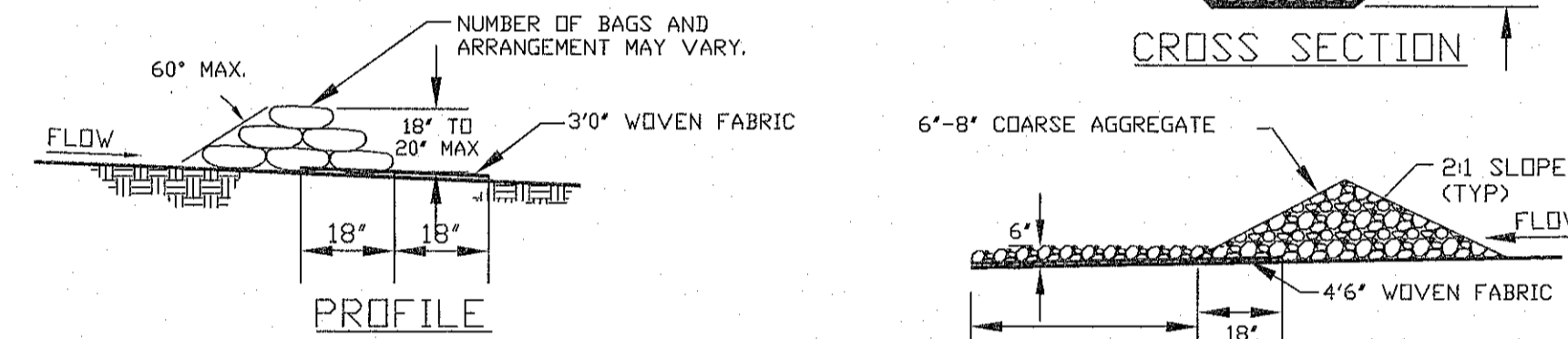
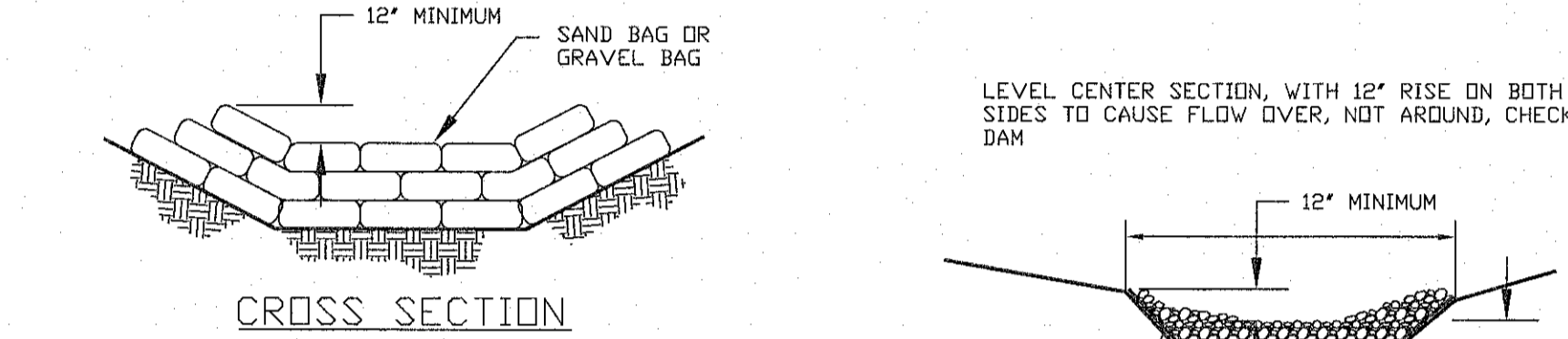
**CURB INLET  
PROTECTION**



- DESIGN CRITERIA**
- DIVERSIONS SHALL BE USED FOR DRAINAGE AREAS ≤ 3 ACRES.
  - DIVERSION CHANNELS SHALL BE DESIGNED TO CONVEY THE 6-MO STORM AT NON-EROSIVE VELOCITIES.
  - CRITICAL LOCATIONS SHALL BE DESIGNED FOR THE 15YR / 20MIN. STORM.
  - MAXIMUM CHANNEL SLOPE OF 3% WITHOUT CHECK DAMS.
  - SWALE SEDIMENT TRAPS ARE TO BE USED IN HIGHLY ERODIBLE AREAS.
  - CHANNELS SHALL BE PROTECTED USING APPROPRIATE CHANNEL LINERS.
  - CHANNEL OUTLETS MUST BE STABILIZED.
  - STORM SEWERS MAY BE USED IN LIEU OF OPEN CHANNELS.

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ENGINEERING DEPARTMENT  
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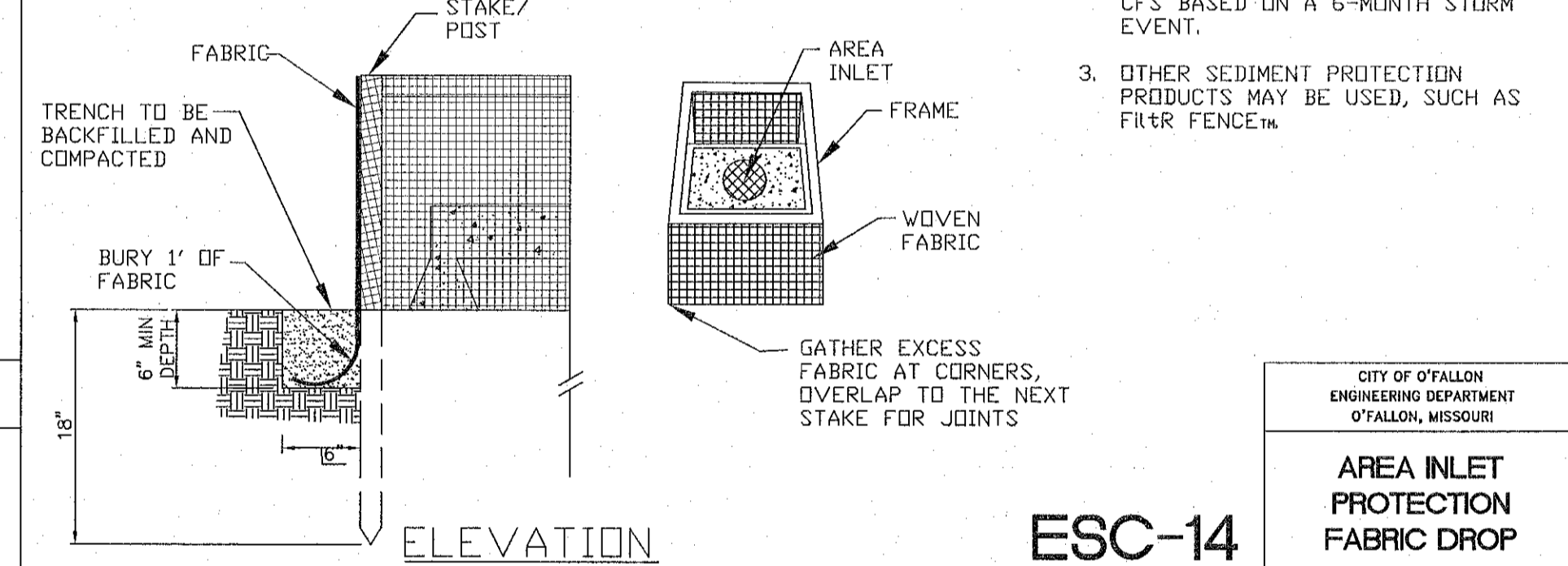
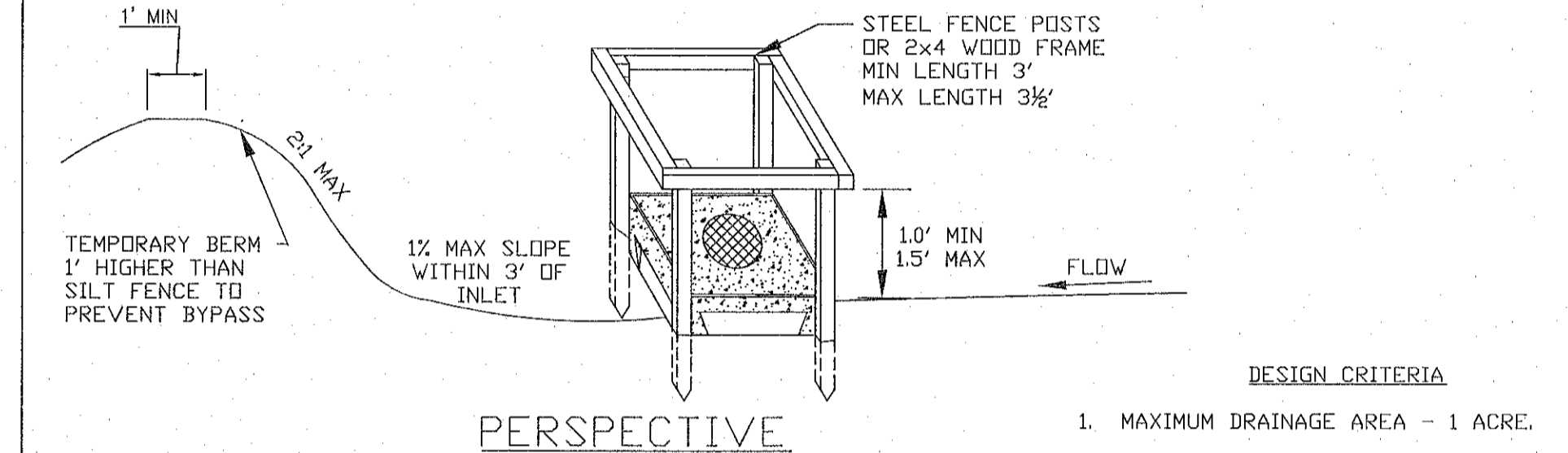
**DIVERSION BERMS  
+ DIKES**



- NOTE:**
- CHECK DAMS MAY BE CONSTRUCTED OF SEVERAL ESC CHECK DAM PRODUCTS.
  - SEE TABLE 60-12 AND ESC 1 FOR CHECK DAM SPACING.

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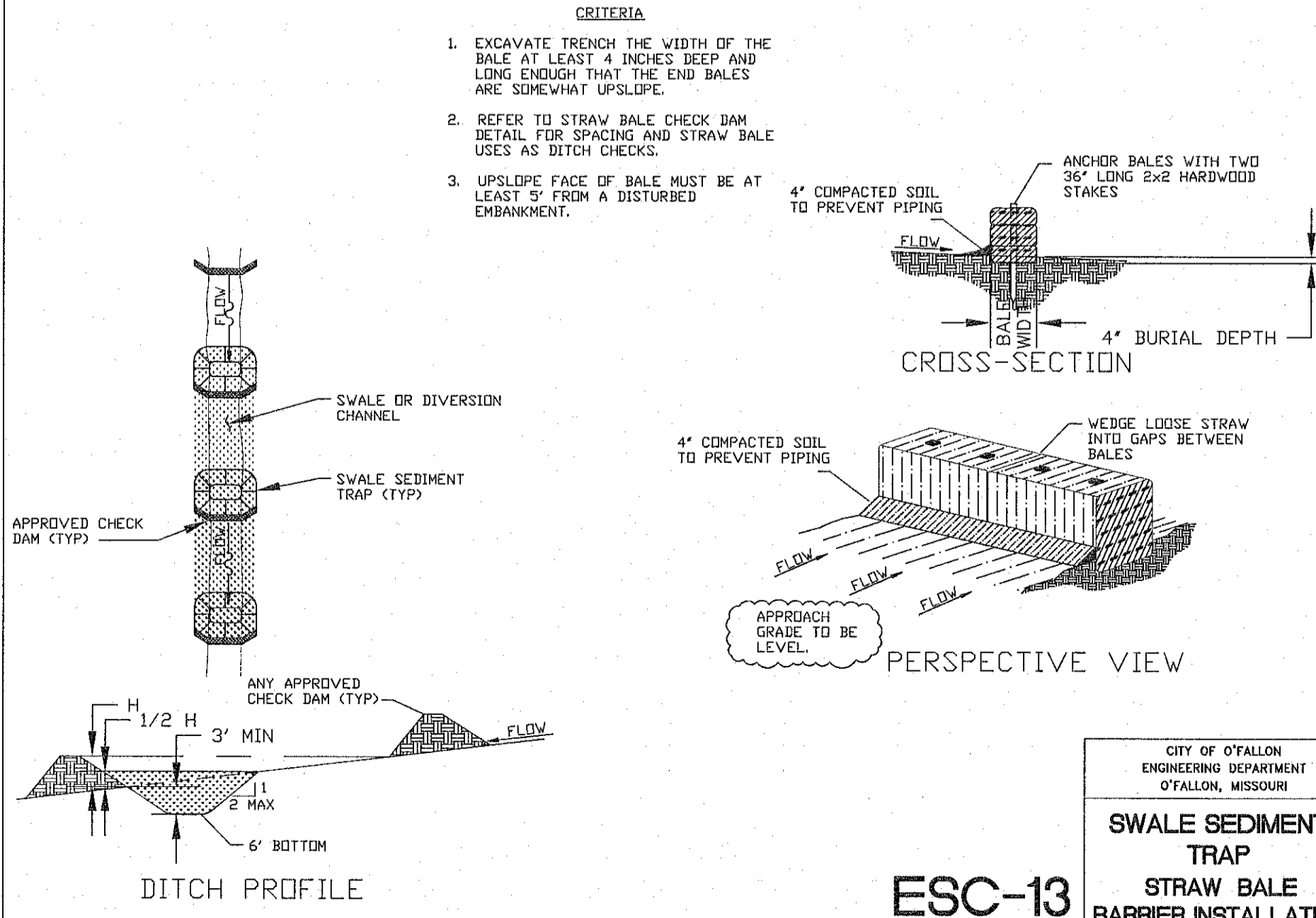
**CHECK DAMS**



- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
  - PEAK RUNOFF SHALL NOT EXCEED 2 CFS BASED ON A 6-MONTH STORM EVENT.
  - OTHER SEDIMENT PROTECTION PRODUCTS MAY BE USED, SUCH AS FIBER FENCE™.

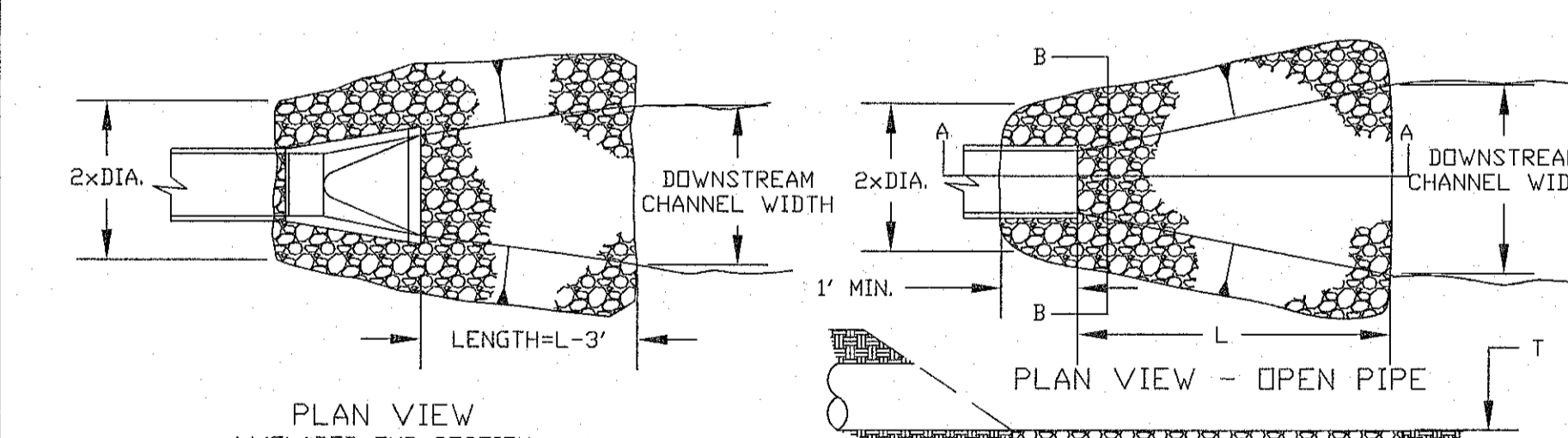
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ENGINEERING DEPARTMENT  
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**AREA INLET  
PROTECTION  
FABRIC DROP**



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O'FALLON, MISSOURI

**SWALE SEDIMENT  
TRAP  
STRAW BALE  
BARRIER INSTALLATION**



**RIPRAP SIZE & APRON DIMENSION**

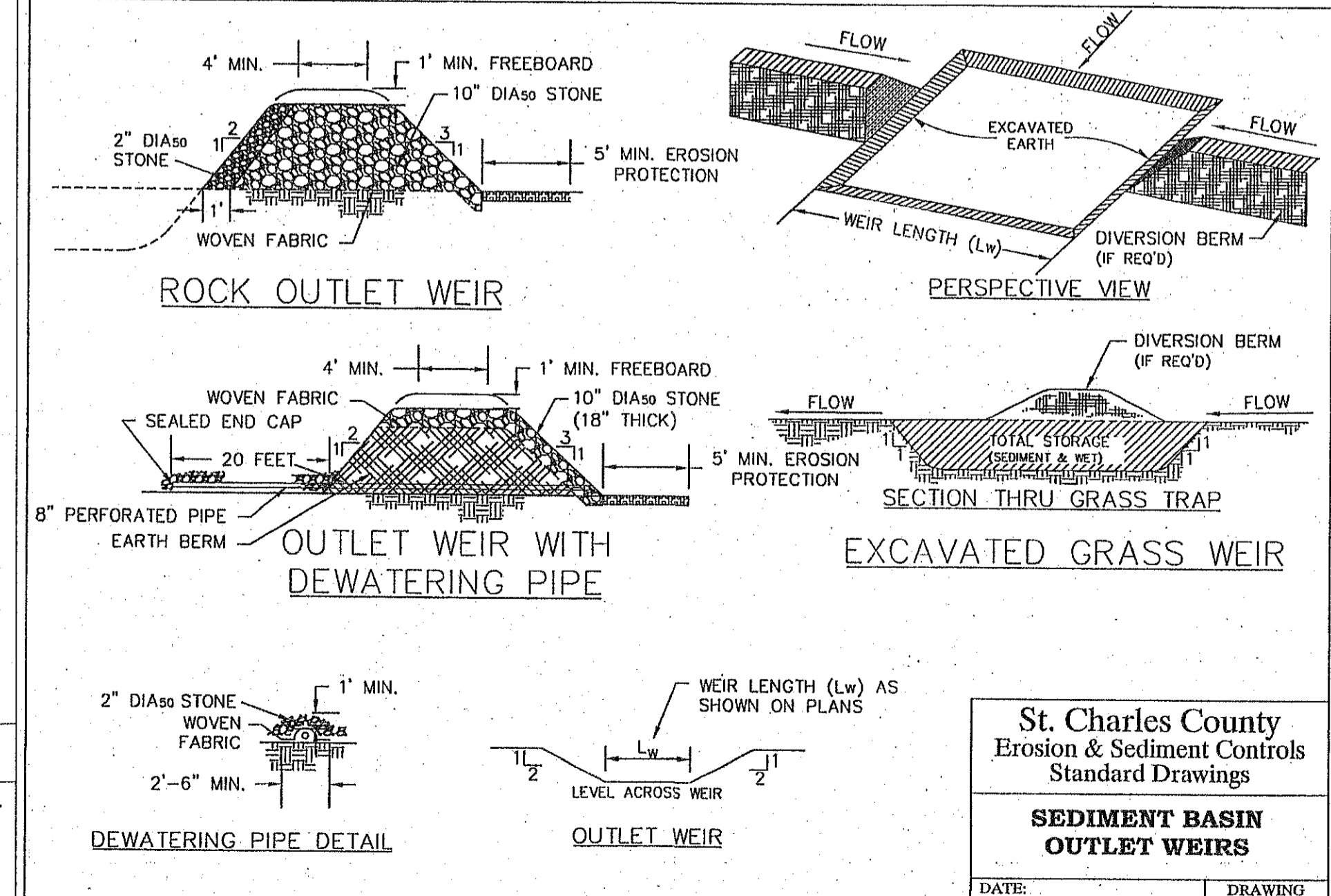
PIPE SIZE	VELOCITY < 5 FPS				VELOCITY < 10 FPS			
	ROCK SIZE	APRON DIM	ROCK SIZE	APRON DIM	ROCK SIZE	APRON DIM	ROCK SIZE	APRON DIM
(inch)	(inch)	(inch)	(ft)	(inch)	(inch)	(inch)	(ft)	(ft)
12	5	9	15	12	5	9	15	16
15	5	9	15	14	5	9	15	18
18-24	5	9	15	16	9	14	24	20
27-30	5	9	15	18	9	14	24	22
36-42	9	14	24	22	12	18	27	26
48-54	9	14	24	26	12	18	27	30
60-66	12	18	27	34	15	24	30	38
72-84	15	24	30	42	15	24	30	46
96	18	27	30	50	18	27	30	54

dia - NOMINAL DIAMETER  
 dia<sub>max</sub> - MAXIMUM DIAMETER  
 T - THICKNESS  
 L - LENGTH

- DESIGN CRITERIA**
- FROUDE NUMBER MUST BE ≤ 2.50.
  - USE 3 TIMES PIPE DIAMETER FOR DOWNSTREAM CHANNEL WIDTH IF THERE IS NO DEFINED CHANNEL.
  - BANK PROTECTION HEIGHT TO BE 2/3 TIMES PIPE DIAMETER.
  - ROCK SLOPES SHALL BE NO STEEPER THAN 3:1.

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**TEMPORARY OUTLET  
PIPE DISCHARGE  
PROTECTION**



St. Charles County  
Erosion & Sediment Controls  
Standard Drawings

**SEDIMENT BASIN  
OUTLET WEIRS**

DATE: MAY 2005 DRAWING: ESC-19

ENGINEERS SEAL DOES NOT APPLY TO DETAILS ON THIS SHEET.

**PROJECT TITLE:**  
**LEGENDS POINTE**  
(formerly THE VILLAGES  
AT RHODES FARM)

**ENGINEERING  
PLANNING  
SURVEYING**  
221 Point West Blvd.  
St. Charles, MO 63801  
636-928-5552  
FAX 636-1718

**DISCLAIMER OF RESPONSIBILITY**  
I hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

**REVISIONS**

10/03/17	P.W.S.D.#2 COMMENTS
10/24/17	CLIENT COMMENTS
10/31/17	BUCKETT COMMENTS
11/01/17	CLIENT COMMENTS
11/05/17	CITY COMMENTS
11/29/17	MODOT COMMENTS
12/13/17	MODOT COMMENTS
12/21/17	CLIENT COMMENTS

**Developer / Owner:**  
KAPB, L.L.C.  
410 CRESTVIEW DRIVE  
O'FALLON, MO 63366  
636-272-4200

**REFERENCE DETAILS**

**P+Z No.**  
#27-15.05, 05/11/17

**City No.**  
#CITY

**Page No.**  
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