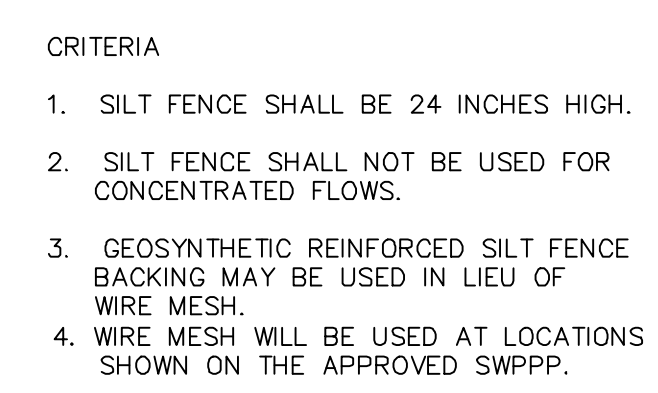


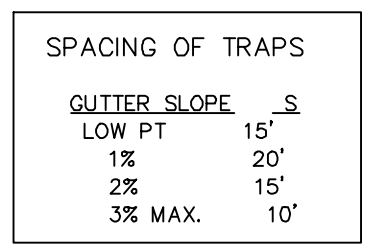
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

**SPACING CHART
FOR ESC DEVICES**



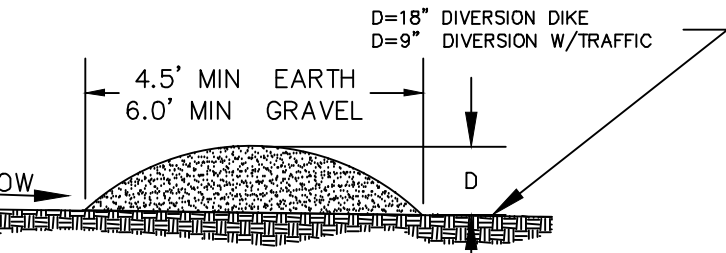
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O'FALLON, MISSOURI

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



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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

**CURB INLET
PROTECTION**



DIVERSION DIKE

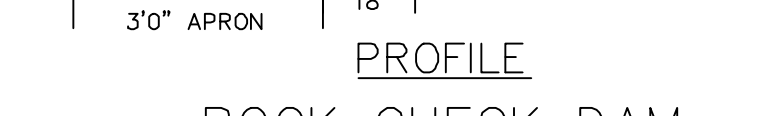
- ### DESIGN CRITERIA
1. DIVERSIONS SHALL BE USED FOR DRAINAGE AREAS ≤ 3 ACRES.
 2. DIVERSION CHANNELS SHALL BE DESIGNED TO CONVEY THE 6-MO STORM AT NON-EROSIVE VELOCITIES.
 3. CRITICAL LOCATIONS SHALL BE DESIGNED FOR THE 15YR / 20min. STORM.
 4. MAXIMUM CHANNEL SLOPE OF 3% WITHOUT CHECK DAMS.
 5. SWALE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

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O'FALLON, MISSOURI

**DIVERSION BERMS
+ DIKES**



GRAVEL BAG

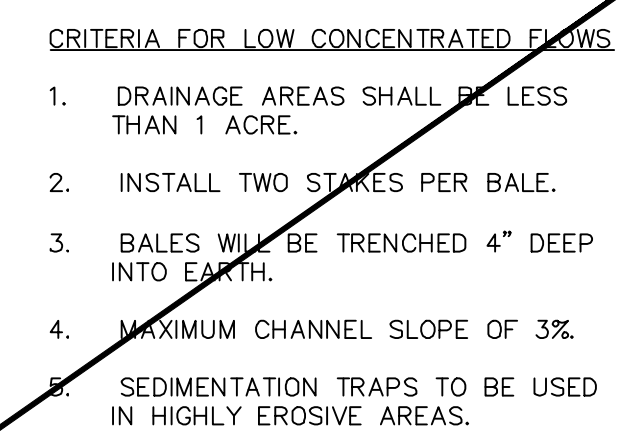


ROCK CHECK DAM

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

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CHECK DAMS

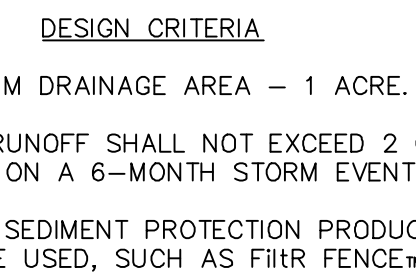
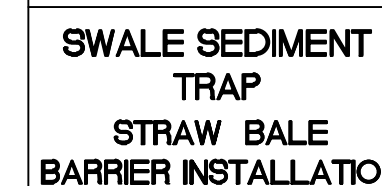


DAM SPACING	
Maximum Spacing	
50%	
75%	

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O'FALLON, MISSOURI

~~STRAW BALE
CHECK DAM~~

- CRITERIA
- E TRENCH THE WIDTH OF THE
LEAST 4 INCHES DEEP AND
OUGH THAT THE END BALES
EWAT UPSLOPE.
- D STRAW BALE CHECK DAM
OR SPACING AND STRAW BALE
DITCH CHECKS.
- FACE OF BALE MUST BE AT
FROM A DISTURBED
ENT.

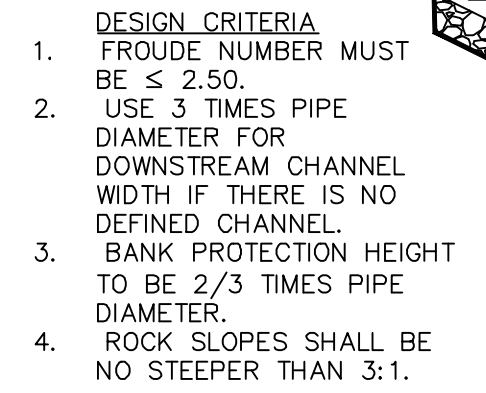


**St. Charles County
Erosion & Sediment Controls
Standard Drawings**

**AREA INLET
PROTECTION
FABRIC DROP**

PLAN VIEW W/FLARED END SECTION									
RIPRAP SIZE & APRON DIMENSION									
PIPE SIZE	VELOCITY < 5 FPS				VELOCITY < 10 FPS				
	ROCK SIZE	APRON DIM		ROCK SIZE	APRON DIM		ROCK SIZE	APRON DIM	
	d ₅₀	d _{max}	T	L	d ₅₀	d _{max}	T	L	
(inch)	(inch)	(inch)	(inch)	(ft)	(inch)	(inch)	(inch)	(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	36	
72-84	15	24	30	42	15	24	30	48	
96	18	27	30	50	18	27	30	54	

PLAN VIEW
W/FLARED END SECTION



TEMPORARY OUTLET
PIPE DISCHARGE
PROTECTION