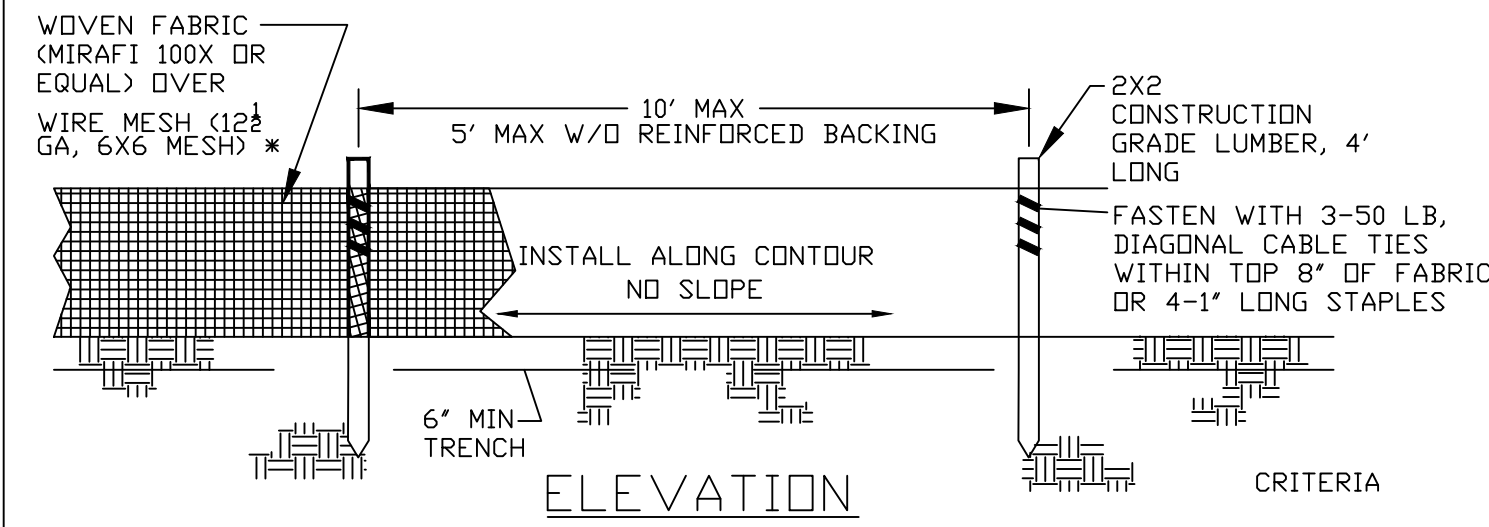


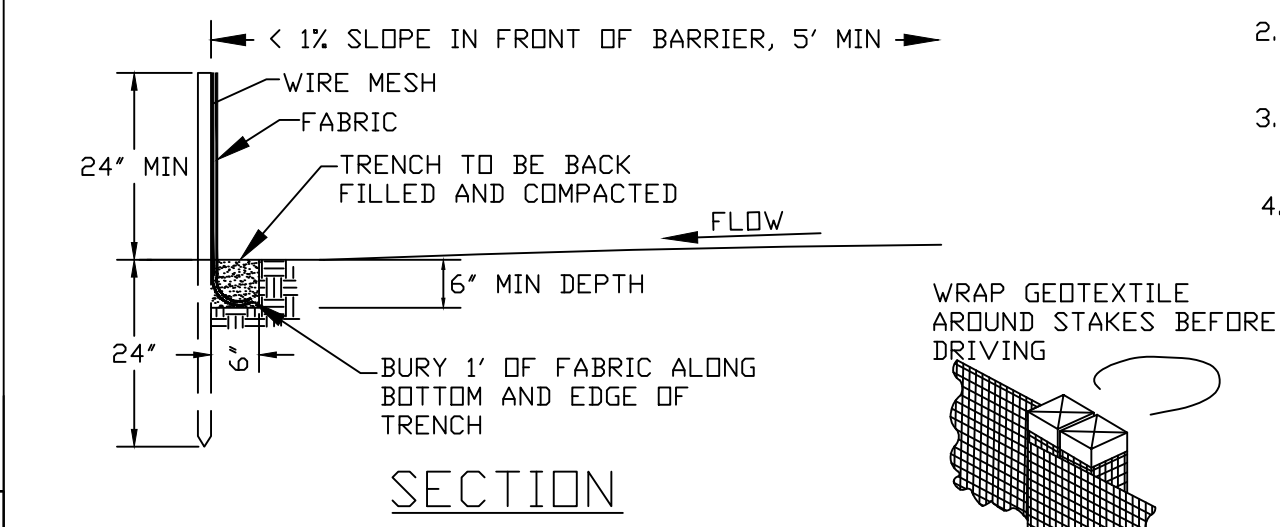
- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  - TERRACING INCLUDES LOGS, WATTLES & FILTER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

**SPACING CHART FOR ESC DEVICES**

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



- 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.

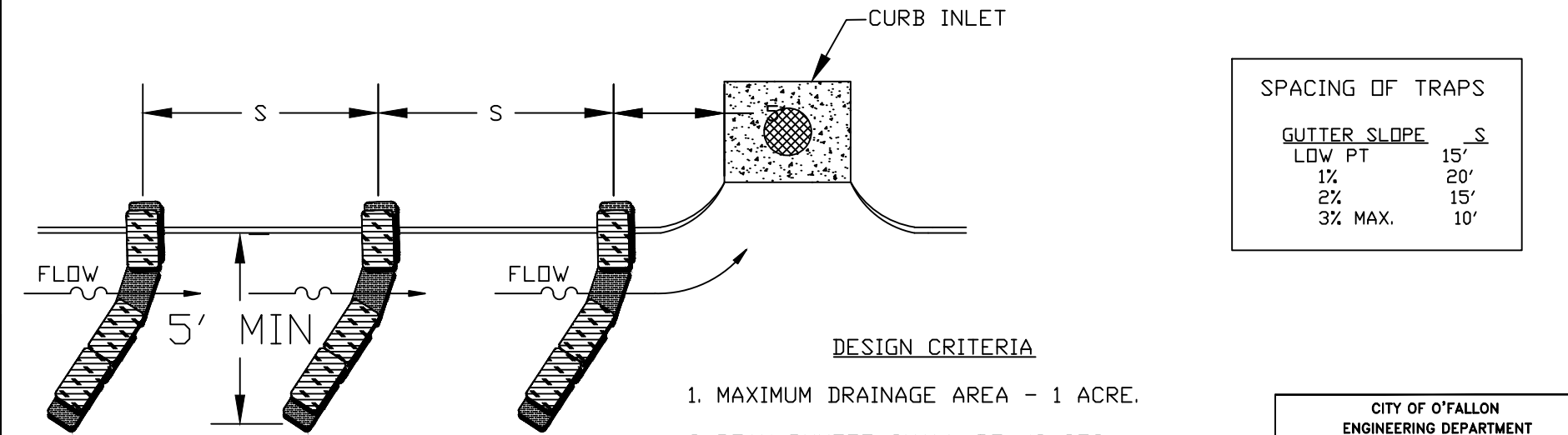
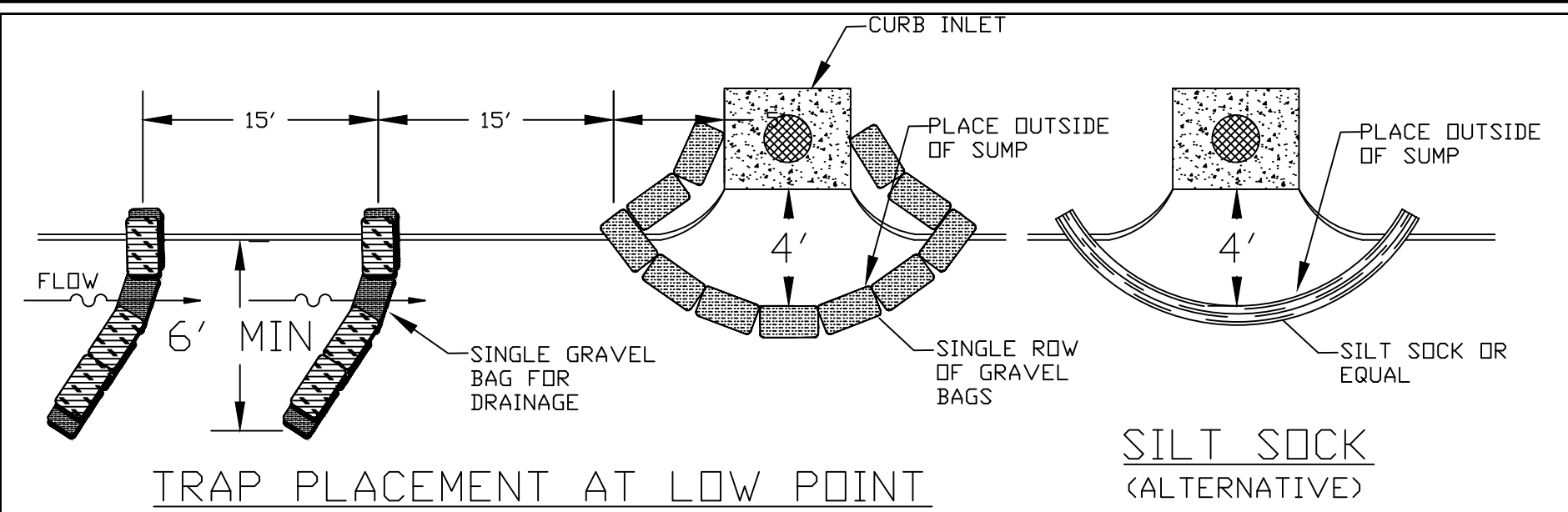


**JOINING SECTIONS OF SILT FENCE**

NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.

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

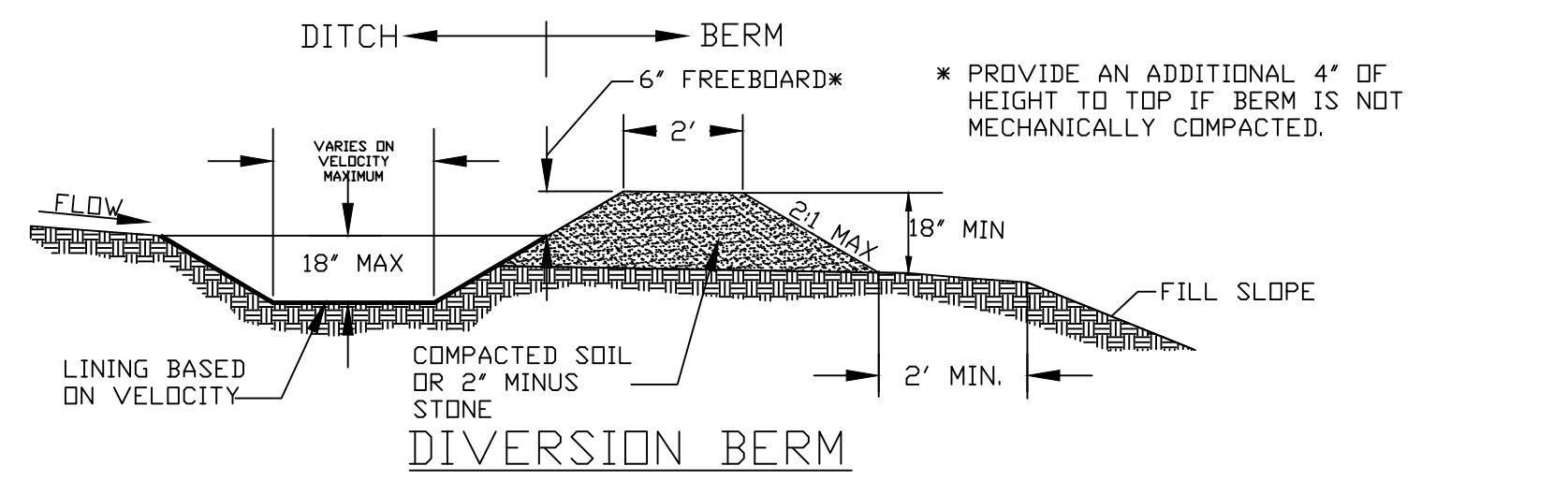
**SILT FENCE INSTALLATION SHEET FLOW (ONLY)**



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

**CURB INLET PROTECTION**

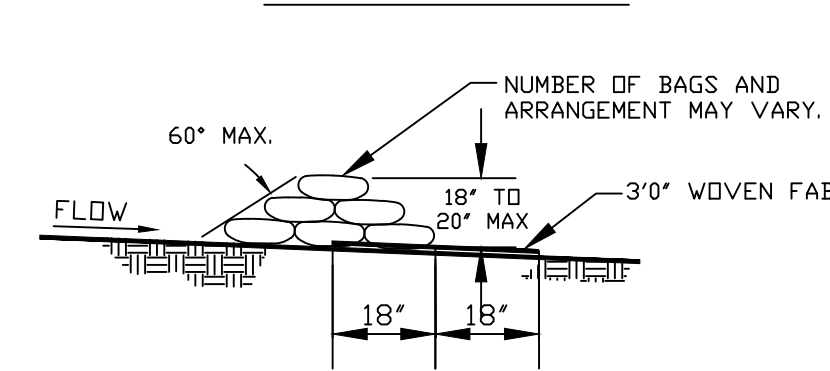
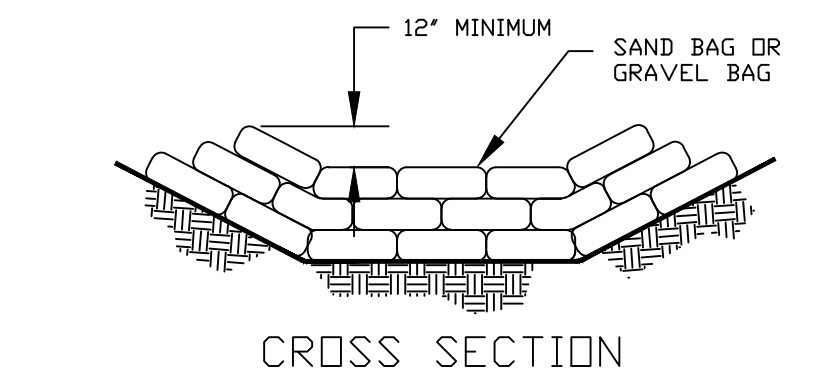
CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



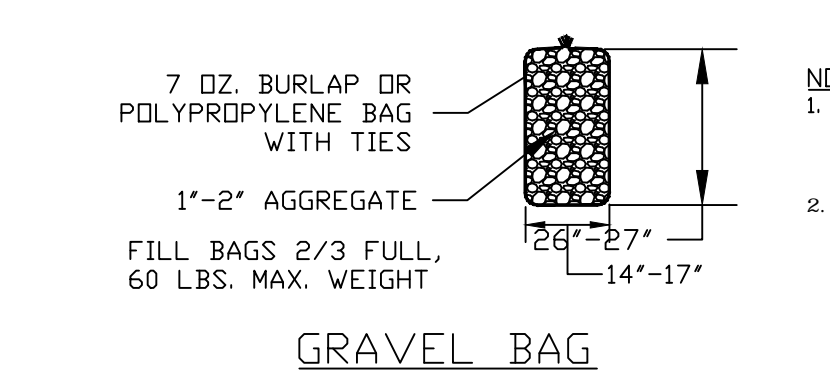
- DESIGN CRITERIA**
- DIVERSIONS SHALL BE USED FOR DRAINAGE AREAS  $\leq 3$  ACRES.
  - DIVERSION CHANNELS SHALL BE DESIGNED TO CONVEY THE 6-MO STORM AT NON-EROSIVE VELOCITIES.
  - CRITICAL LOCATIONS SHALL BE DESIGNED FOR THE 15YR / 20Min. STORM.
  - MAXIMUM CHANNEL SLOPE OF 3% WITHOUT CHECK DAMS.
 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

**DIVERSION BERMS + DIKES**

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



**SAND BAG OR GRAVEL BAG CHECK DAM**

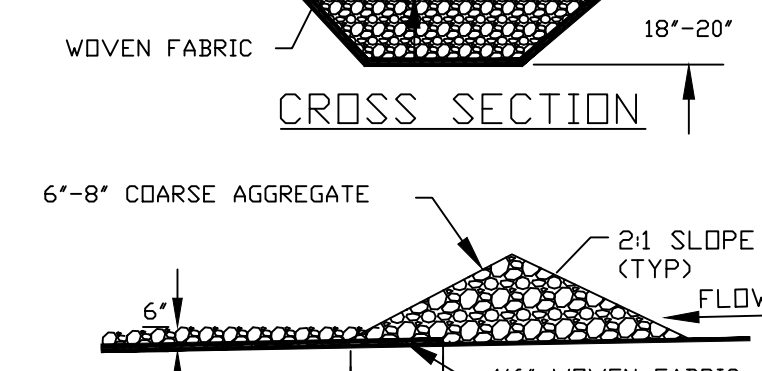
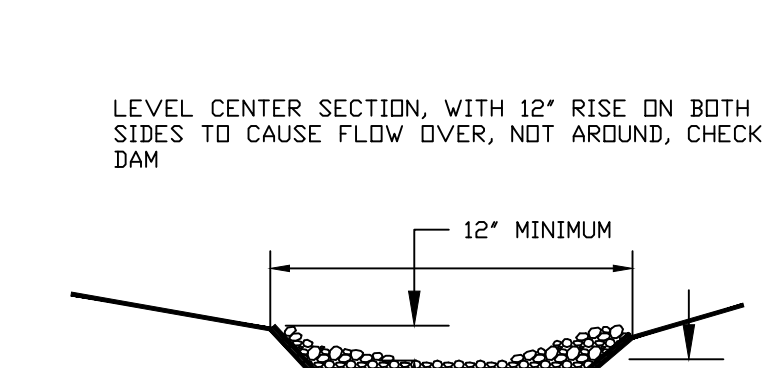


**GRAVEL BAG**

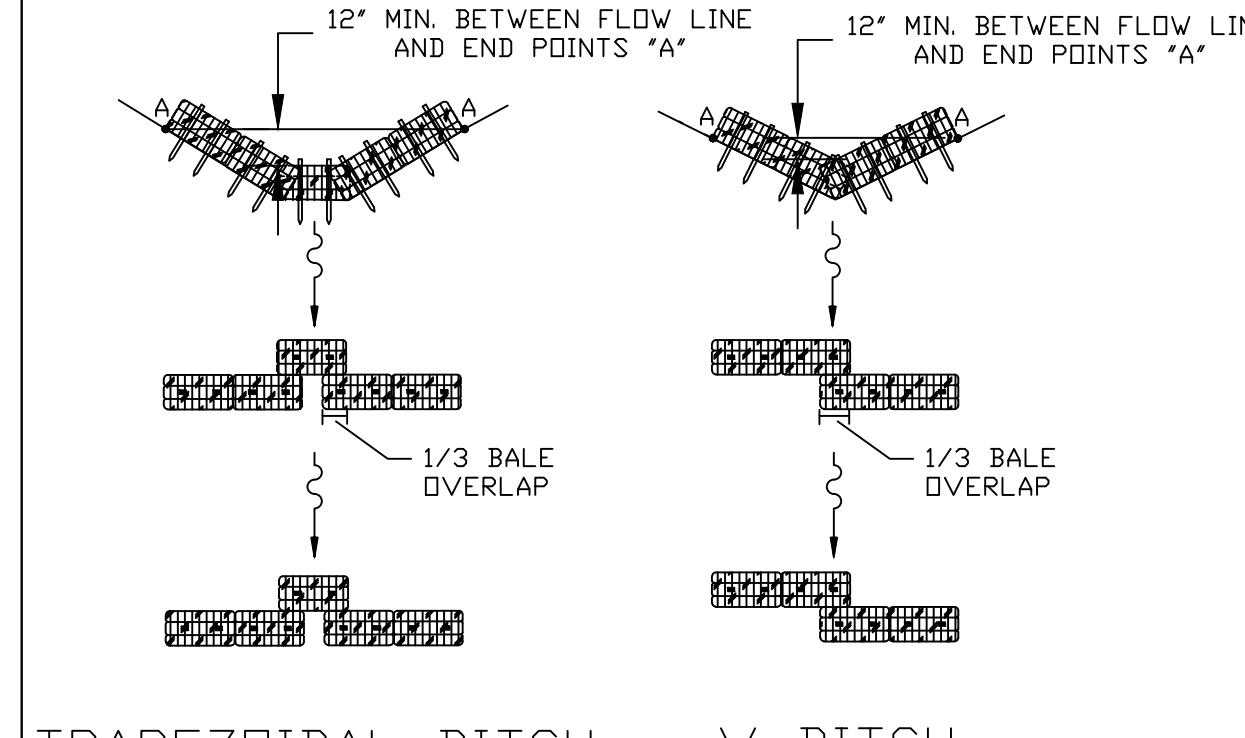
- NOTE:**
- CHECK DAMS MAY BE CONSTRUCTED OF SEVERAL ESC CHECK DAM PRODUCTS.
  - SEE TABLE 60-12 AND ESC 1 FOR CHECK DAM SPACING.

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

**CHECK DAMS**



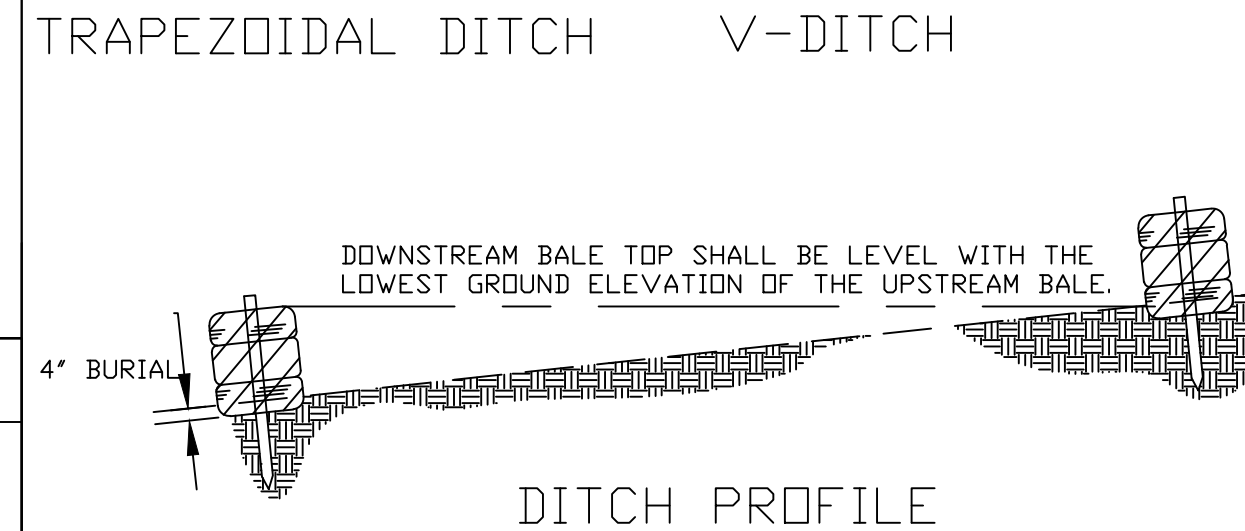
**PROFILE ROCK CHECK DAM**



**CRITERIA FOR LOW CONCENTRATED FLOWS**

- DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
- INSTALL TWO STAKES PER BALE.
- BALES WILL BE TRENCHED 4\"/>

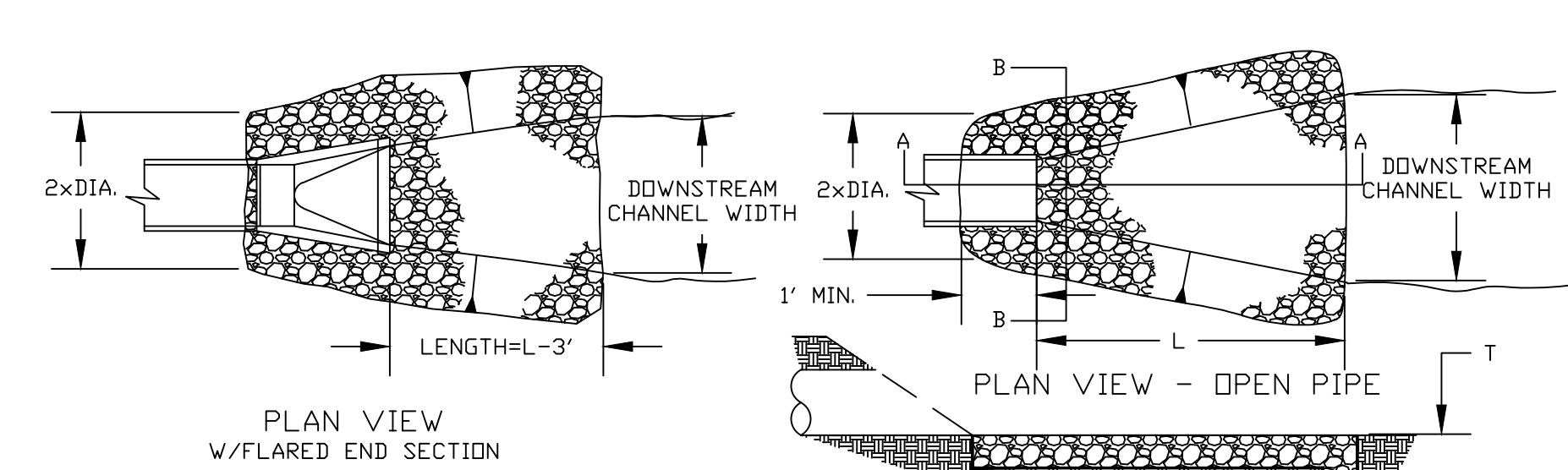
Ditch Slope	Maximum Spacing
3%	50'
2%	75'



**DITCH PROFILE**

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

**STRAW BALE CHECK DAM**



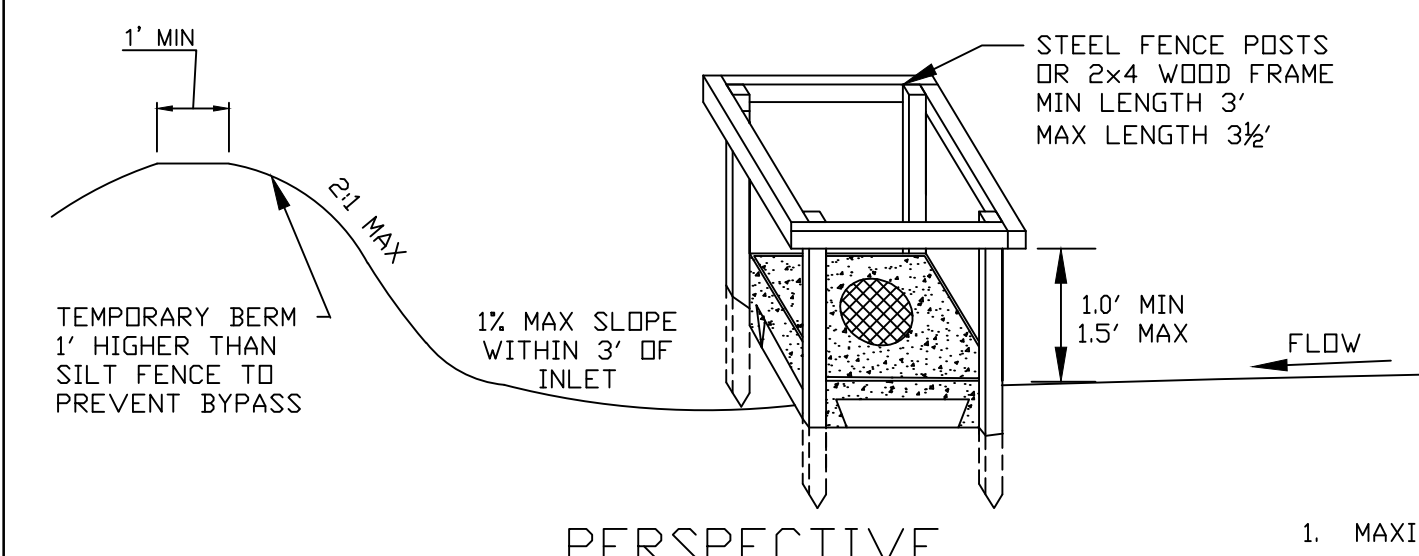
**PLAN VIEW W/ FLARED END SECTION**

PIPE SIZE	RIPRAP SIZE & APRON DIMENSION				VELOCITY < 5 FPS				VELOCITY < 10 FPS									
	d <sub>50</sub>	d <sub>max</sub>	T	L	d <sub>50</sub>	d <sub>max</sub>	T	L	d <sub>50</sub>	d <sub>max</sub>	T	L	d <sub>50</sub>	d <sub>max</sub>	T	L		
12	5	9	15	12	5	9	15	16	15	5	9	15	18	18	5	9	15	18
18-24	5	9	15	14	5	9	15	20	27-30	5	9	15	18	14	24	22	22	22
36-42	9	14	24	22	14	18	27	26	48-54	9	14	24	26	18	27	30	30	30
60-66	12	18	27	34	15	24	30	38	72-84	15	24	30	42	15	24	30	46	46
96	18	27	30	50	18	27	30	54										

- DESIGN CRITERIA**
- FROUDE NUMBER MUST BE  $\leq 2.50$ .
  - 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.

**TEMPORARY OUTLET PIPE DISCHARGE PROTECTION**

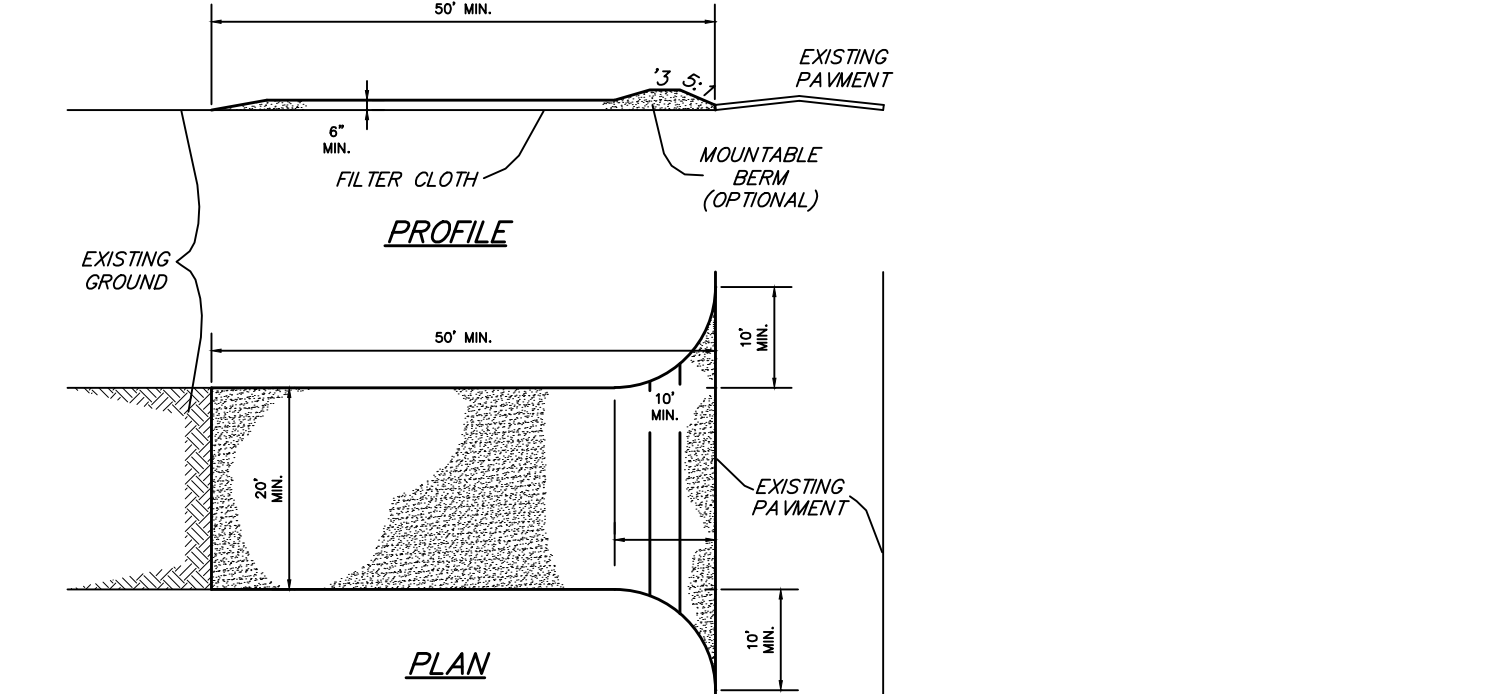
CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



- 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 FILTER FENCE™.

**AREA INLET PROTECTION FABRIC DROP**

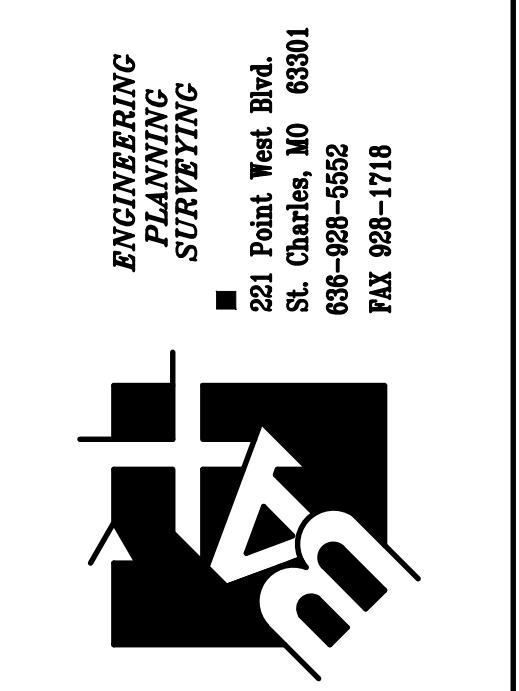
CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA**  
NOT TO SCALE

**PROJECT TITLE:**  
**ELLA'S PLACE**  
EMGE ROAD  
CITY OF O'FALLON  
ST. CHARLES COUNTY  
MO. 63366  
Issue Date: 09/26/2018



ENGINEERING  
PLANNING  
SURVEYING  
22 Point View Blvd.  
St. Charles, MO 63301  
636-928-5562  
FAX 928-1718

**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**

DATE	REVISION
11/29/18	CITY COMMENTS
01/09/19	CITY COMMENTS
03/22/21	CLIENT COMMENTS
05/05/21	CITY COMMENTS
05/21/21	CITY COMMENTS

**Developer / Owner:**  
Schneider Custom Homes  
429 North Main Street  
O'Fallon, MO 63366  
636-240-0930

**EROSION CONTROL DETAILS**

**P+Z No.** #19-007760  
**Approval Date:** 11/05/2020  
**City No.** #

**Page No.**  
11 of 18

**ENGINEERS SEAL DOES NOT APPLY TO CITY OF O'FALLON DETAILS ON THIS SHEET.**