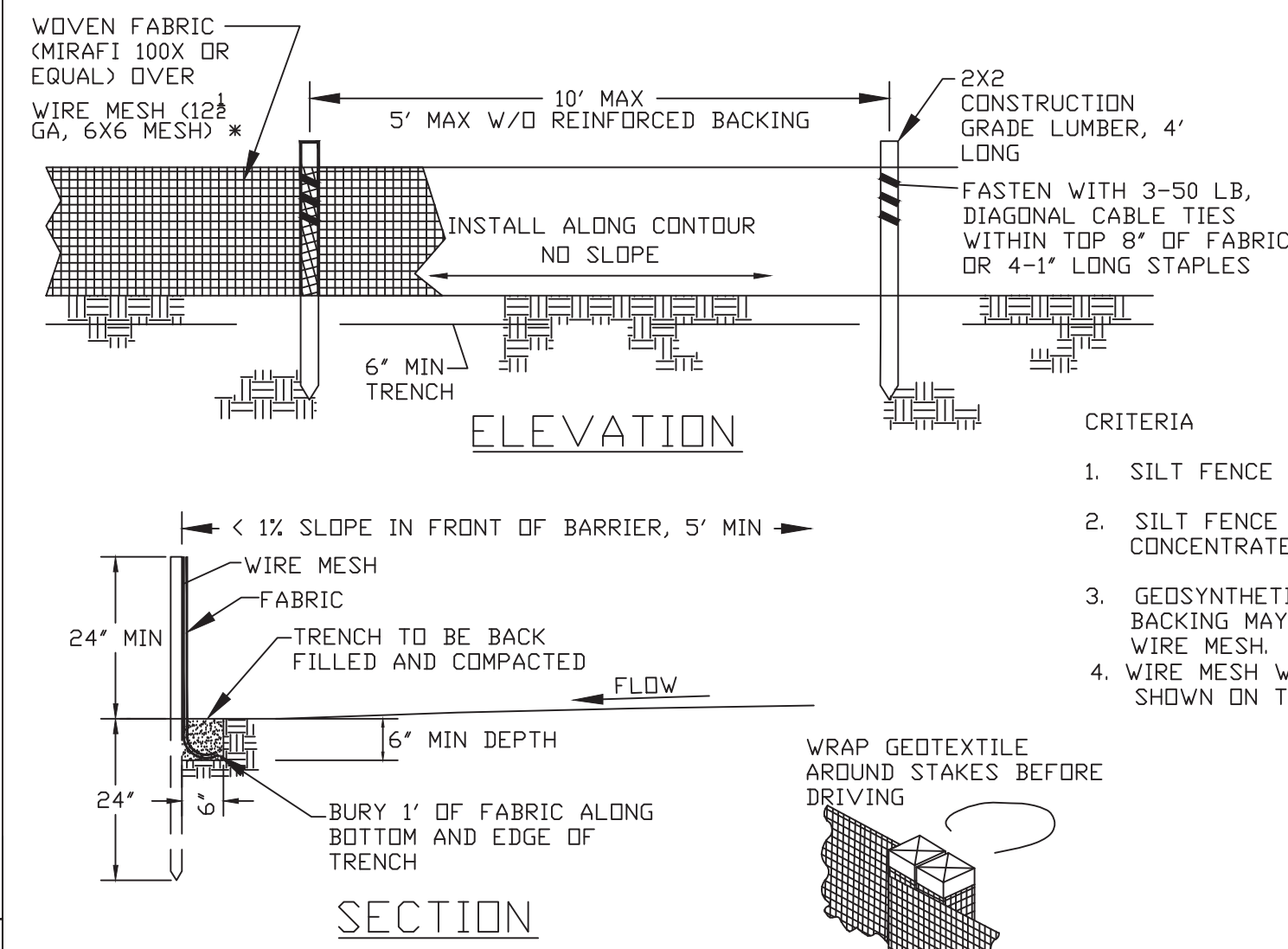


- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
  - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
  - TERRACING INCLUDES LOGS, WATTLES & FILTER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

**SPACING CHART FOR ESC DEVICES**

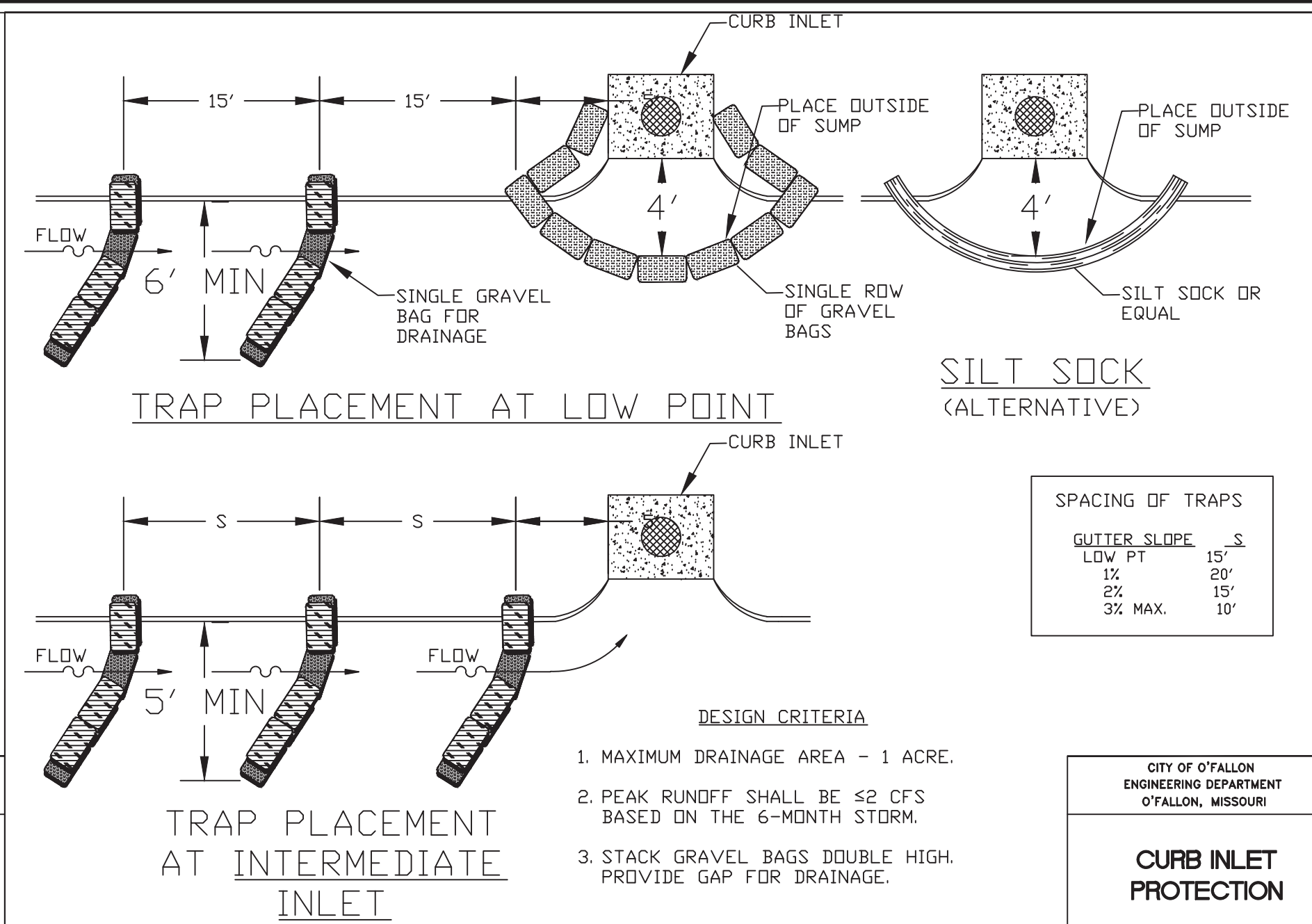
CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



- 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.

**SILT FENCE INSTALLATION SHEET FLOW ONLY**

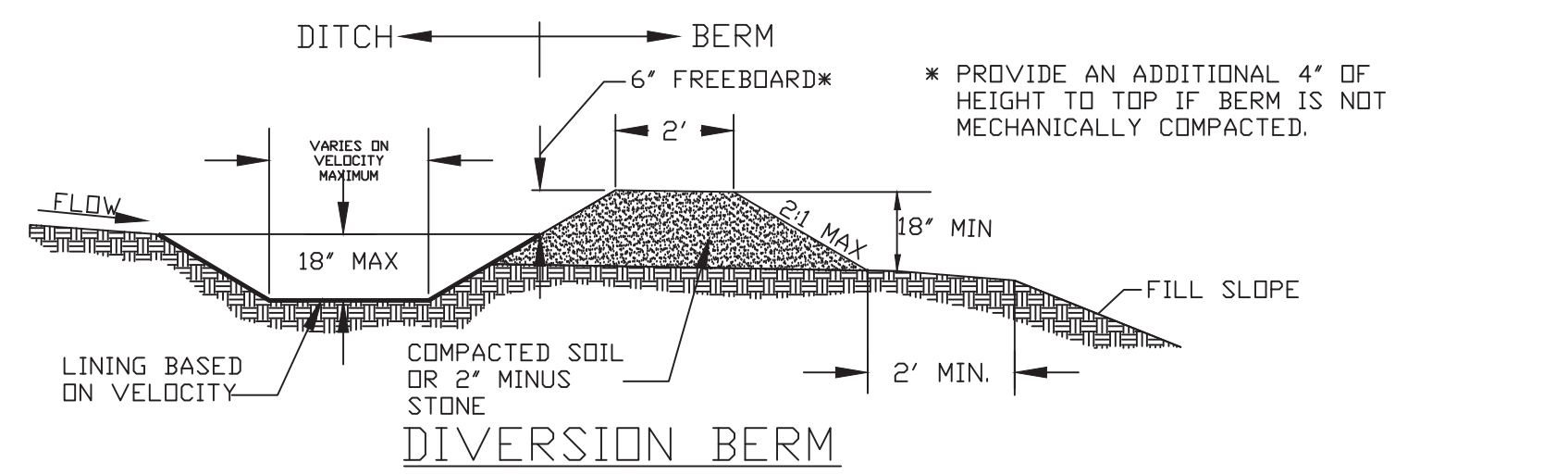
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ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



- 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.

**CURB INLET PROTECTION**

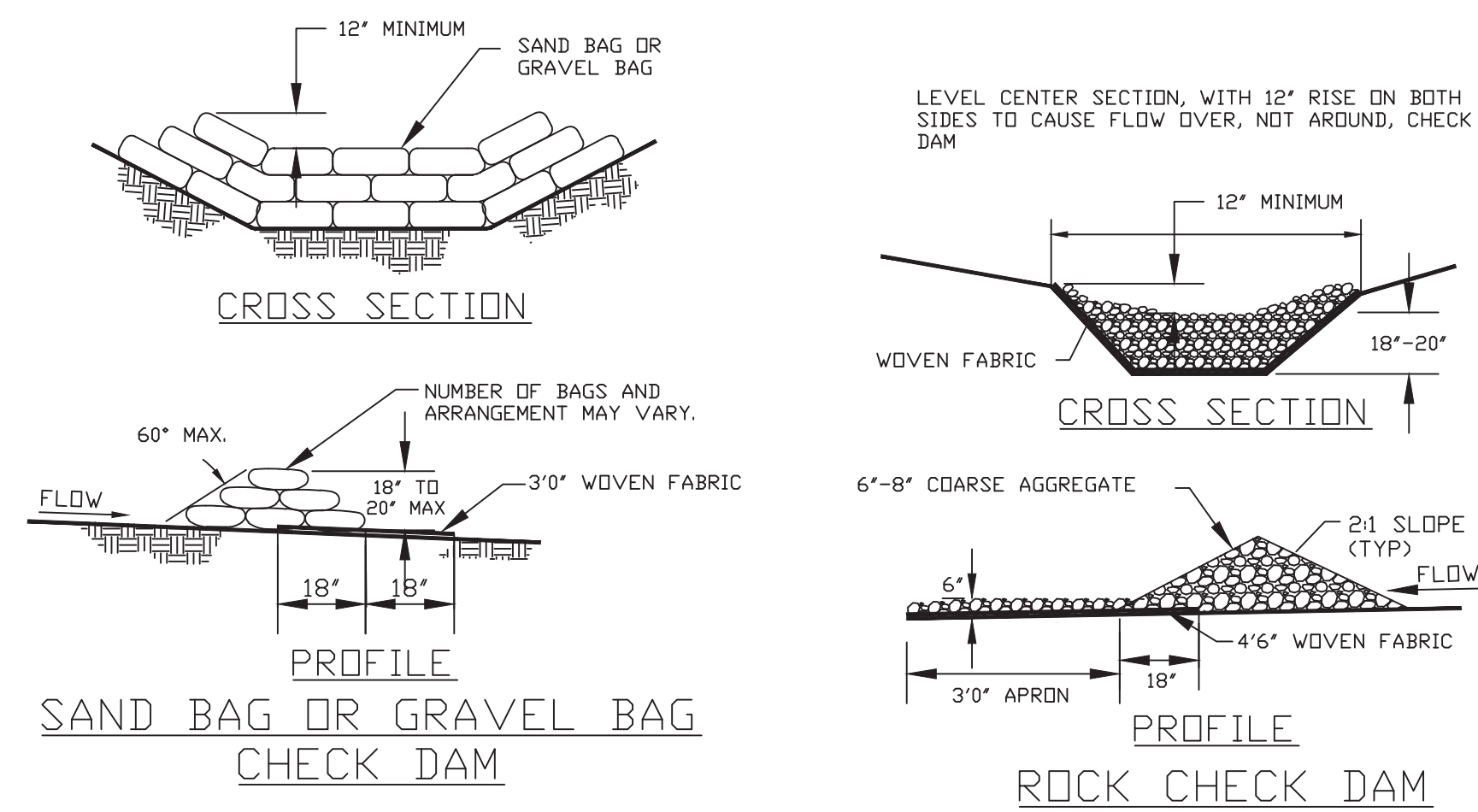
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ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



- 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 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**

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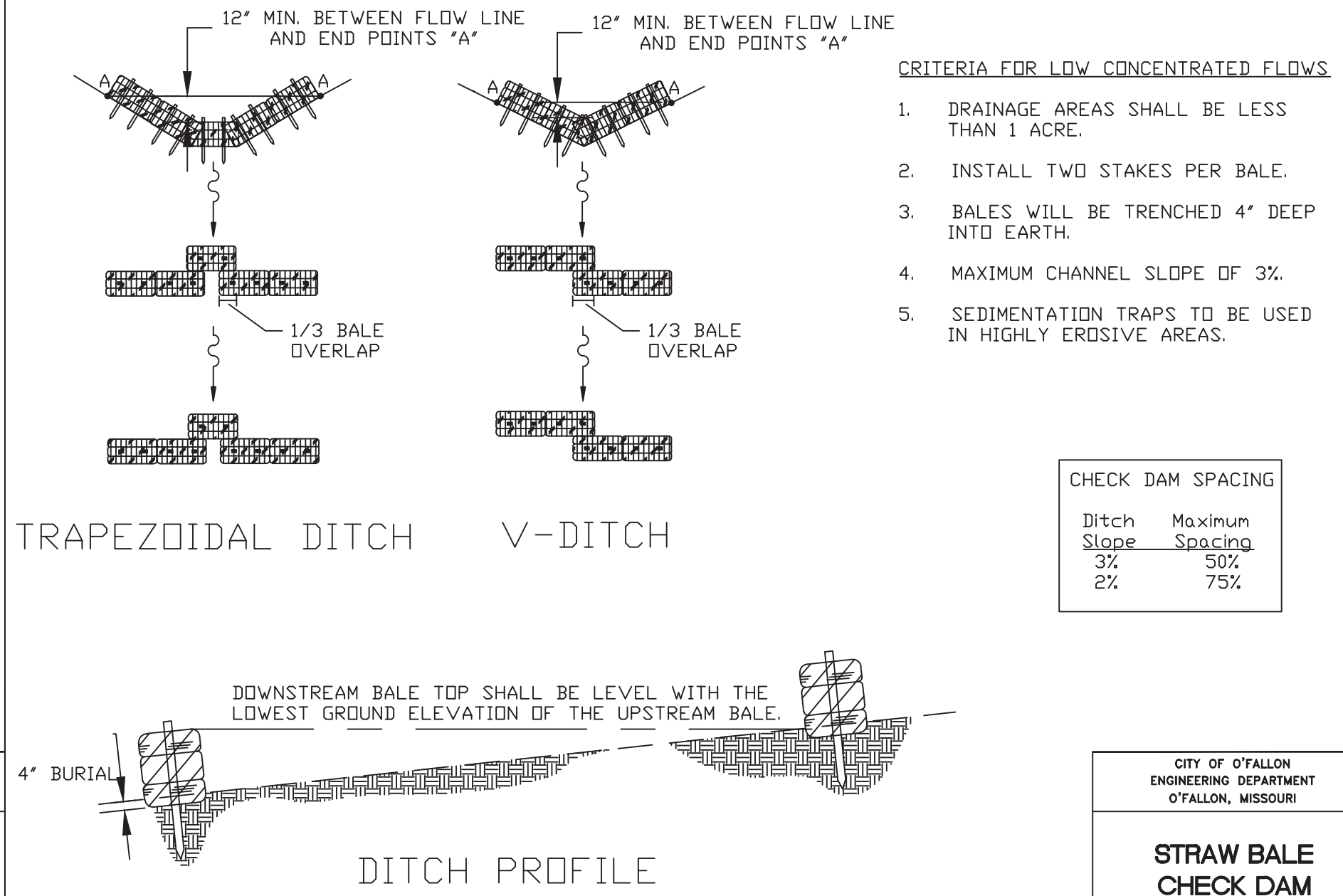


**GRAVEL BAG**

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

**CHECK DAMS**

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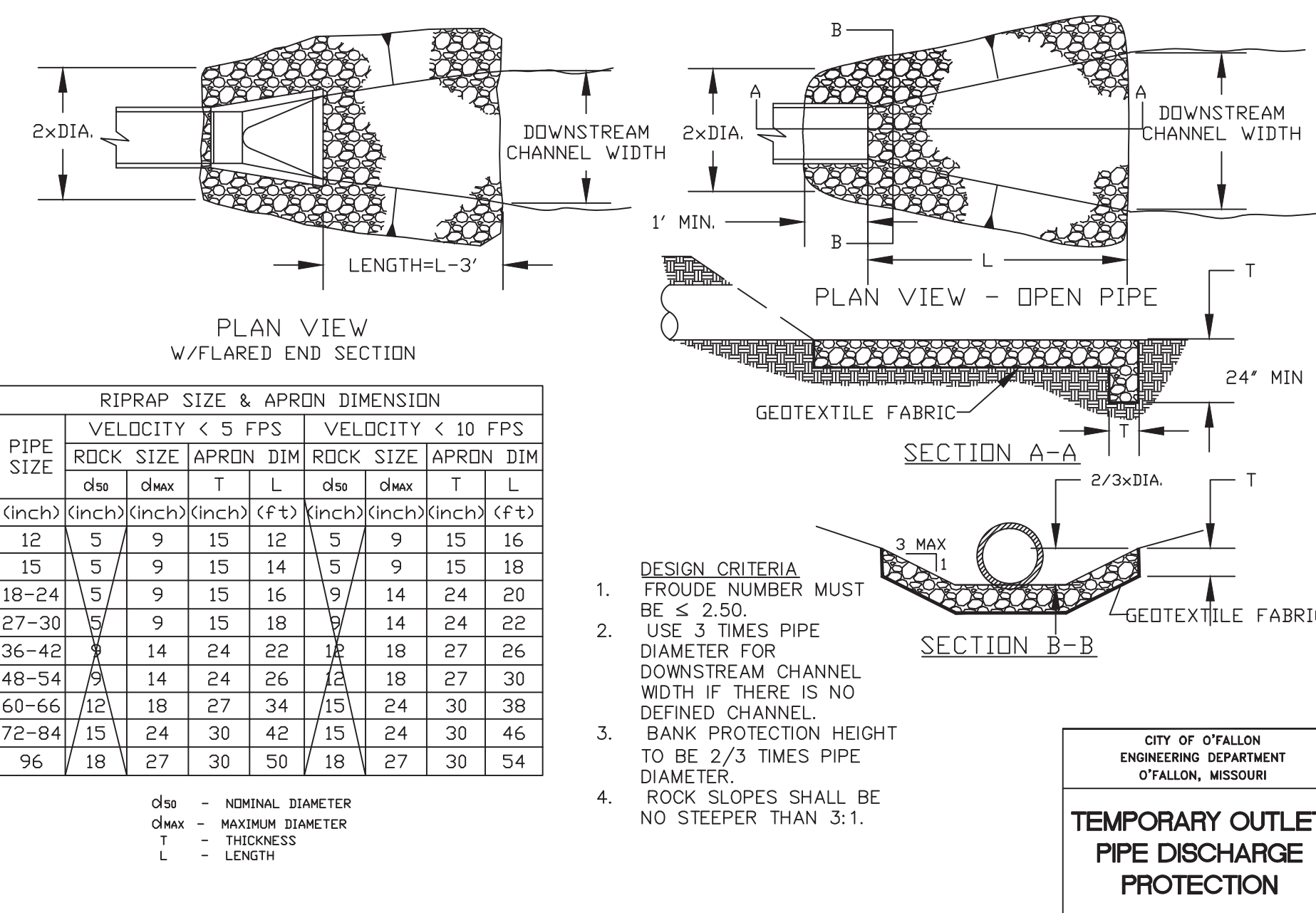
**CRITERIA FOR LOW CONCENTRATED FLOWS**

- DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
- INSTALL TWO STAKES PER BALE.
- BALES WILL BE TRENCHED 4" DEEP INTO EARTH.
- MAXIMUM CHANNEL SLOPE OF 3%.
- SEDIMENTATION TRAPS TO BE USED IN HIGHLY ERODIVE AREAS.

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

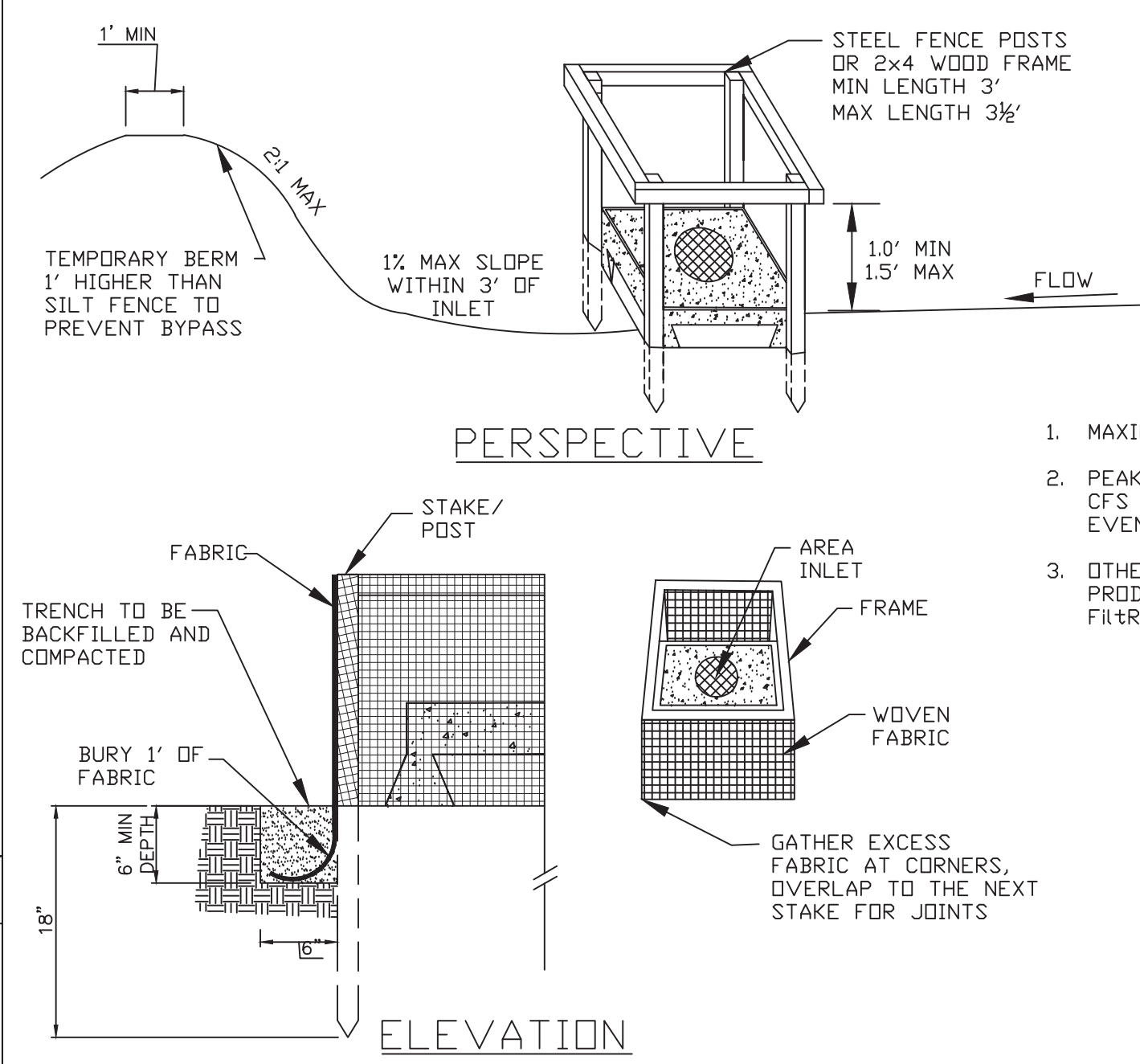
**STRAW BALE CHECK DAM**

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ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



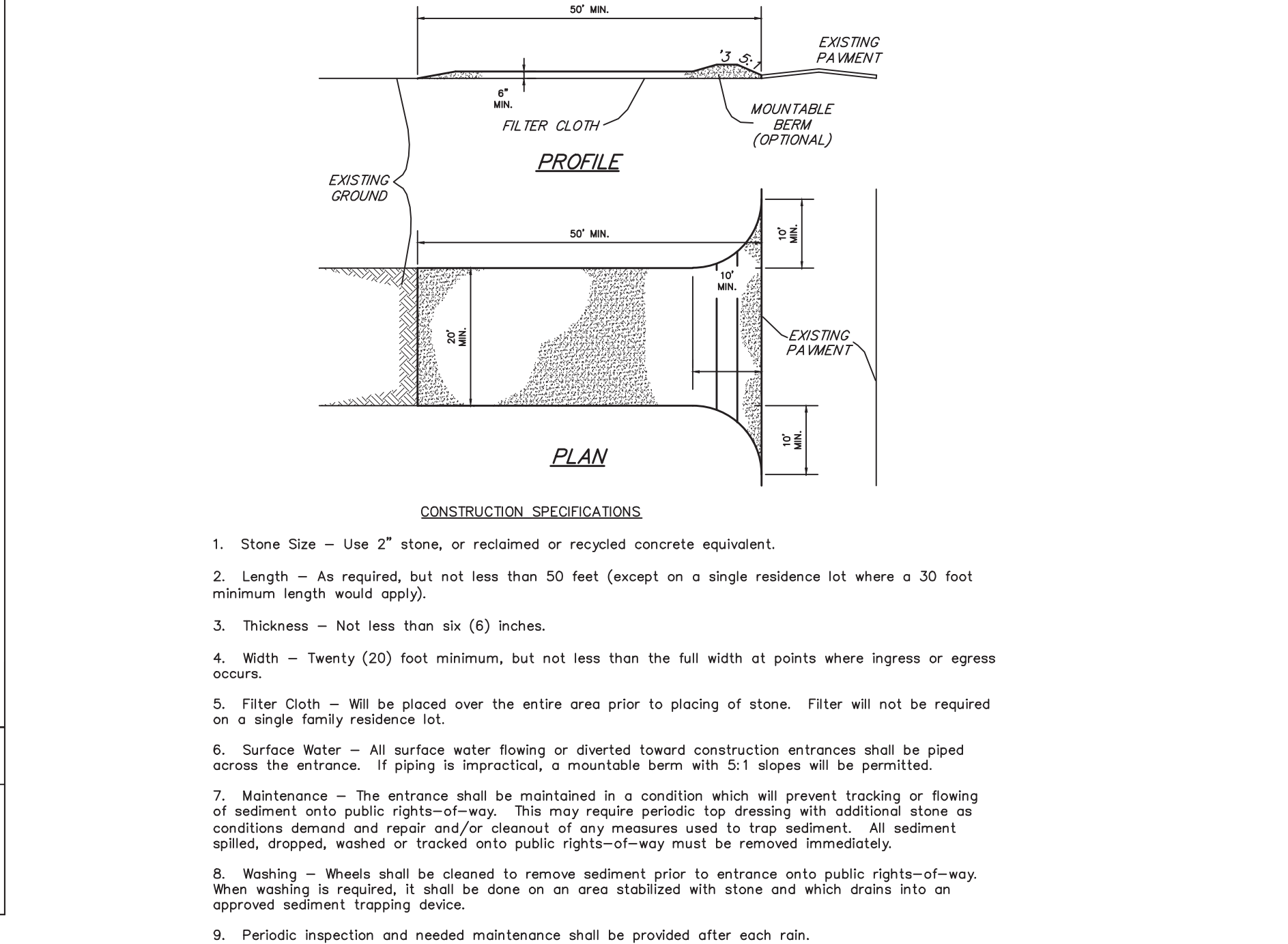
**TEMPORARY OUTLET PIPE DISCHARGE PROTECTION**

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ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI



**AREA INLET PROTECTION FABRIC DROP**

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



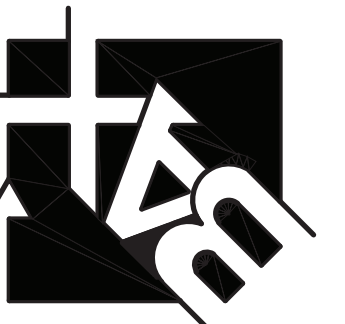
**STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA**  
NOT TO SCALE

- 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.

**PROJECT TITLE:**

**COLUMBIA MEADOWS**

ENGINEERING  
PLANNING  
SURVEYING  
22 Point View Blvd  
St. Charles, MO 63001  
636-928-5552  
FAX 928-1718



**DISCLAIMER OF RESPONSIBILITY**  
I hereby specify that the documents intended to be authorized by me and 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.

NO.	DATE	DESCRIPTION
10/13/20		CITY COMMENTS
01/08/21		CITY COMMENTS
02/10/21		CITY COMMENTS
02/23/21		CITY COMMENTS

**Developer / Owner:**  
Alpha Land Development Two, L.L.C.  
612 Trade Center Boulevard  
Chesterfield, MO 63005  
314-721-7779

**P+Z No.** #19-004868  
**Approval Date:** 07/23/2020  
**City No.** #?

**Page No.** 28 of 38

**EROSION CONTROL DETAILS**

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

Box Project # 18-17484 Issue Date: 08/12/2020

DATE: 08/12/2020 BY: [Signature] TITLE: [Title] PROJECT: [Project Name] AND MANUAL CONSTRUCTION OF THE SHEET.