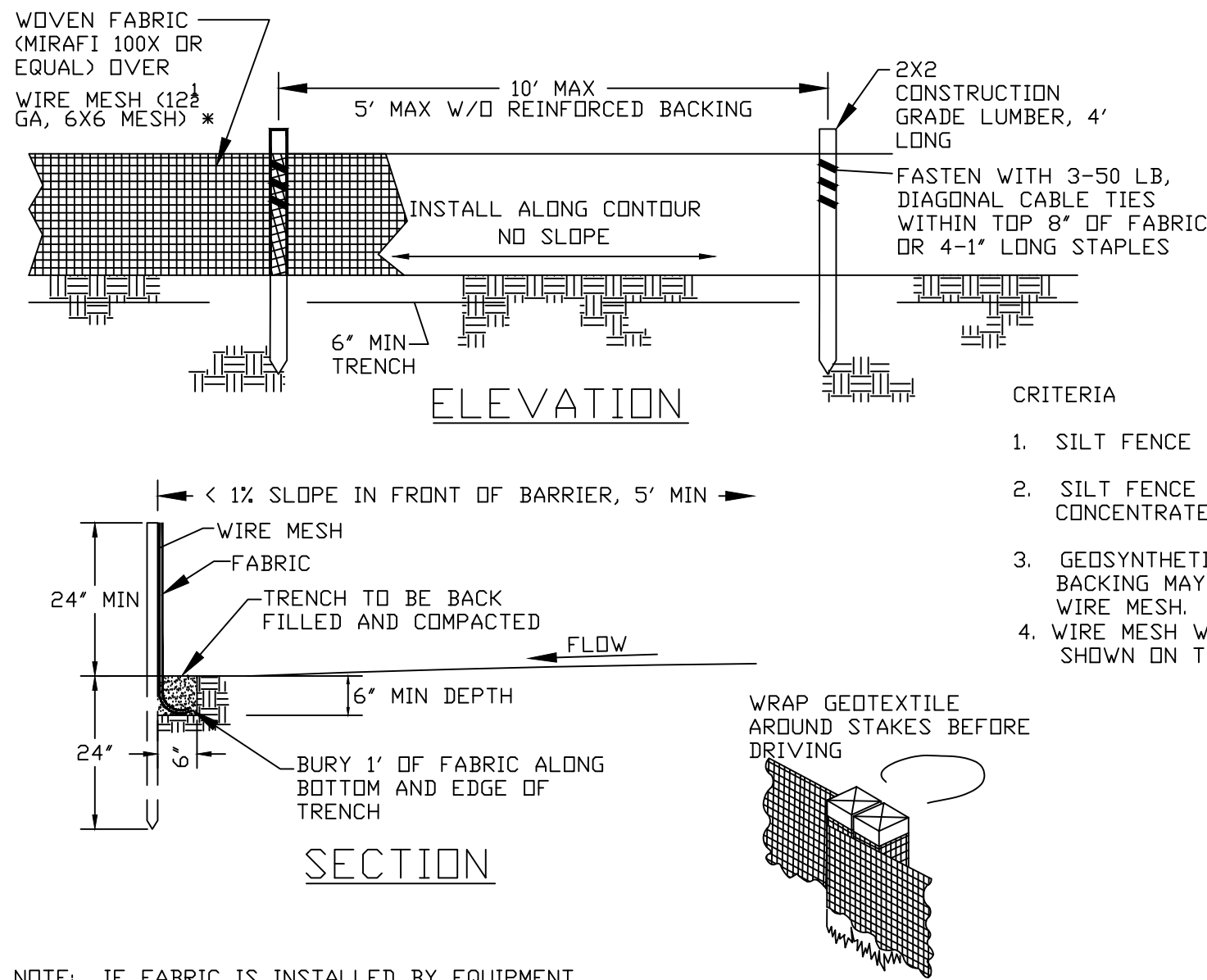


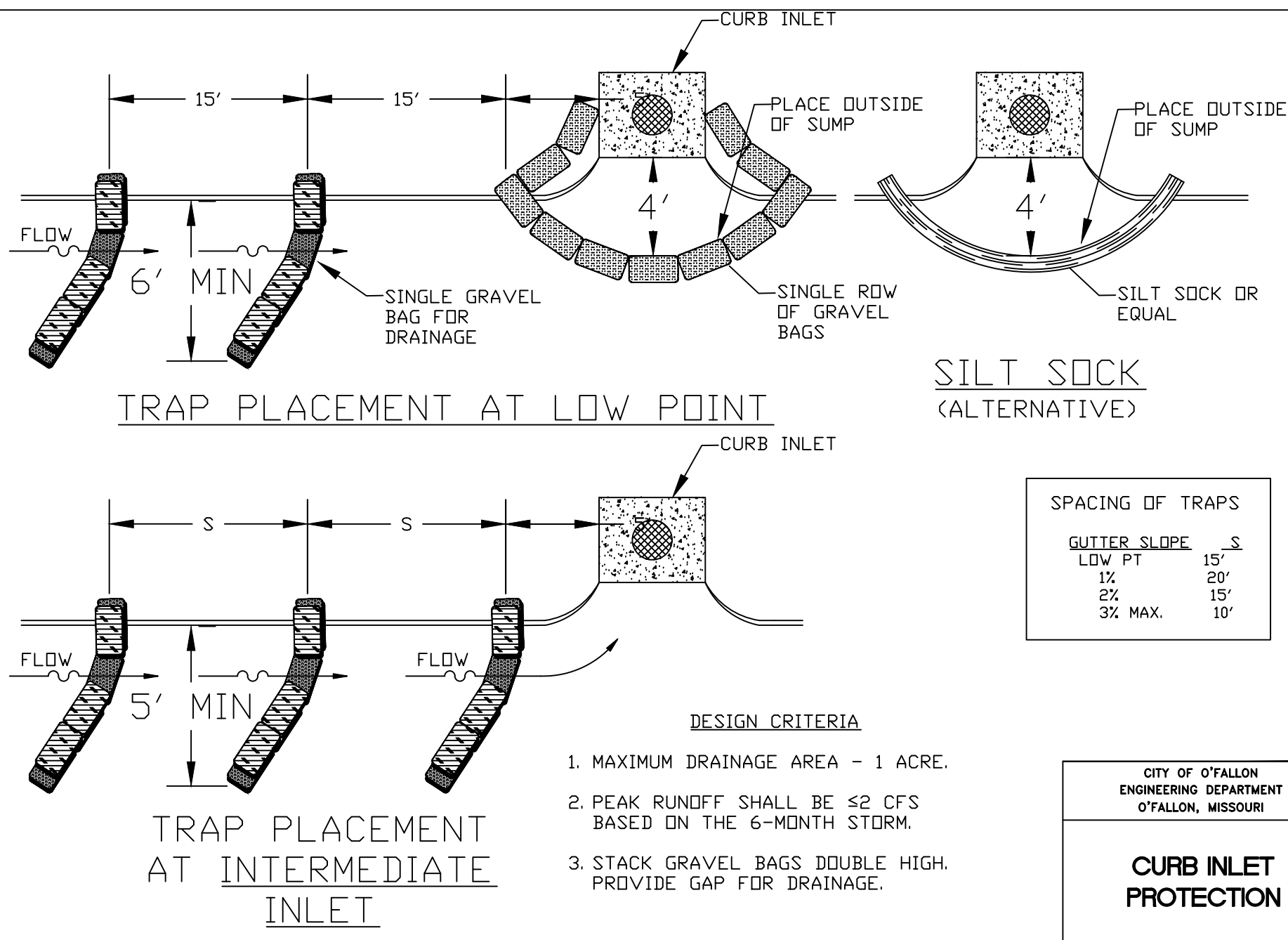
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

**SPACING CHART
FOR ESC DEVICES**



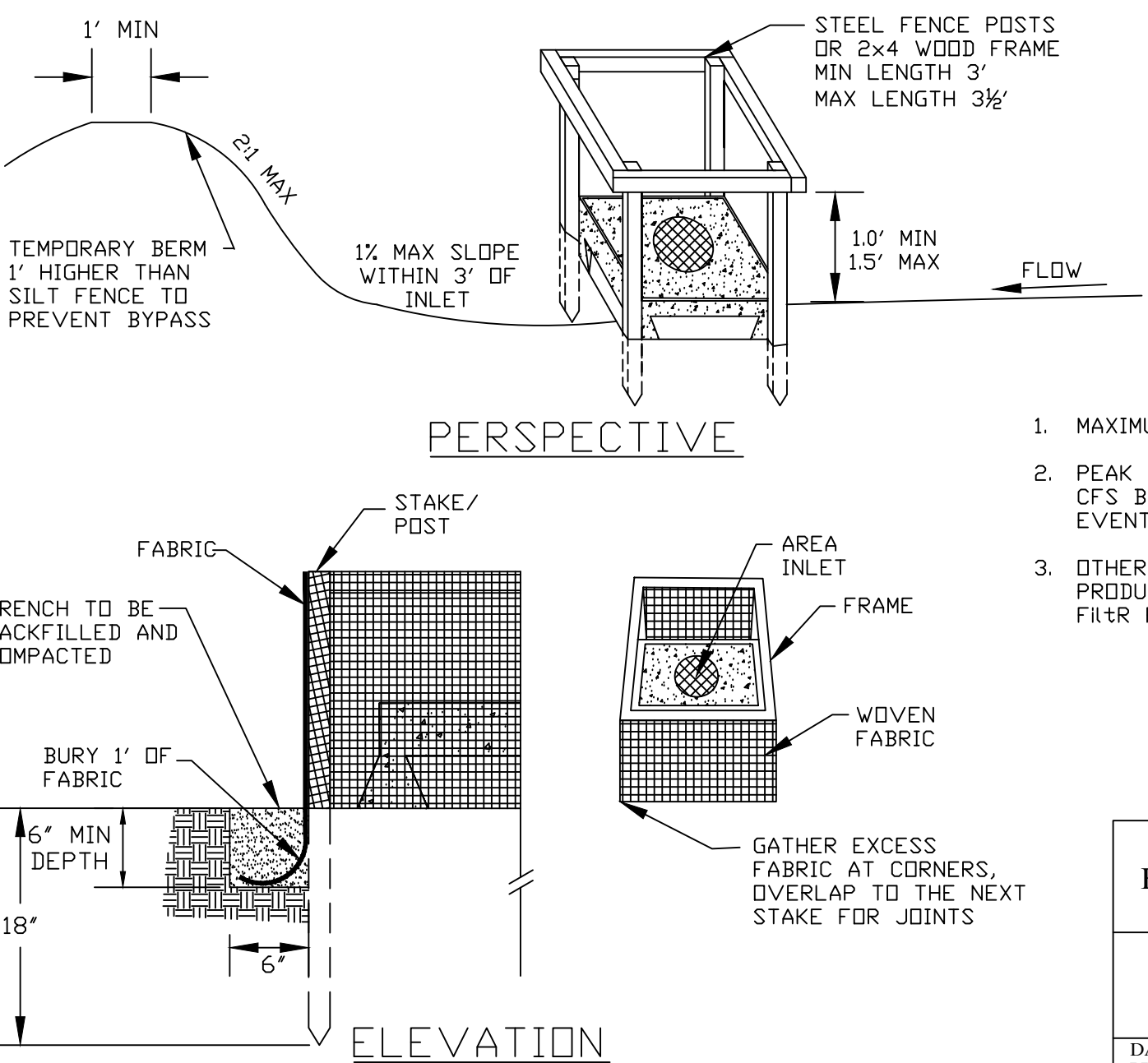
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

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



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

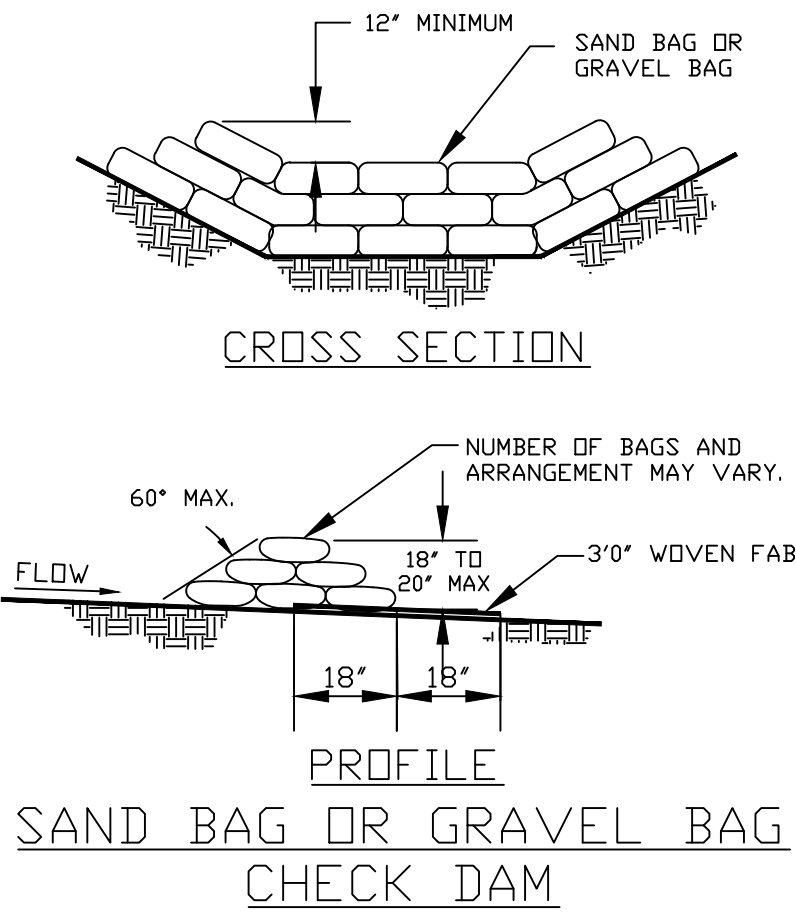
**CURB INLET
PROTECTION**



St. Charles County
Erosion & Sediment Controls
Standard Drawings

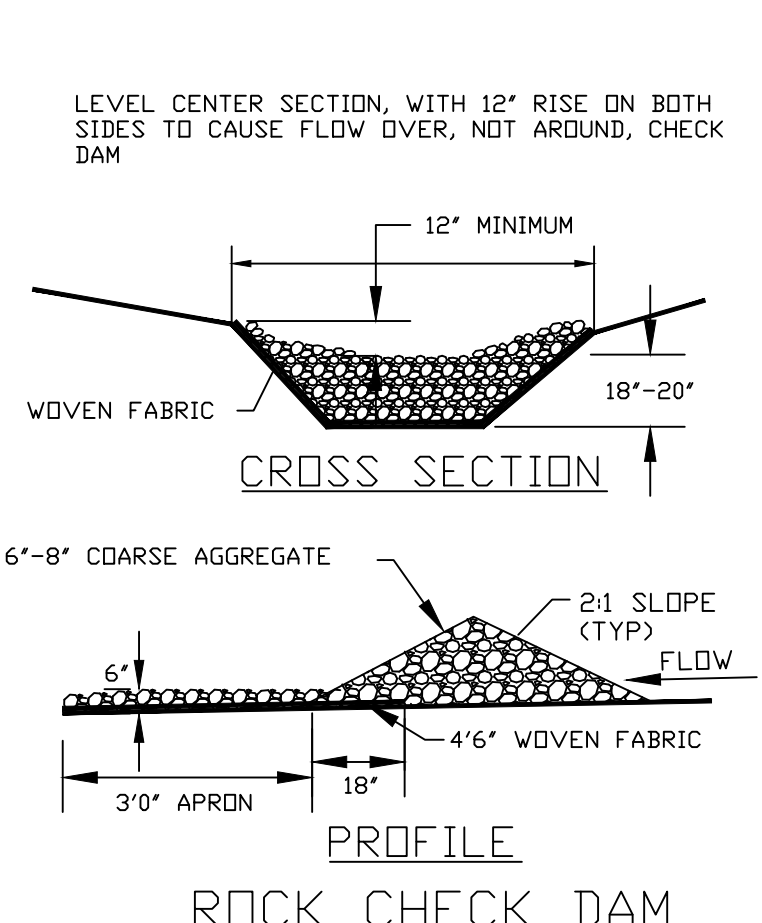
**AREA INLET
PROTECTION
FABRIC DROP**

DATE: MARCH 2008 DRAWING: ESC-14



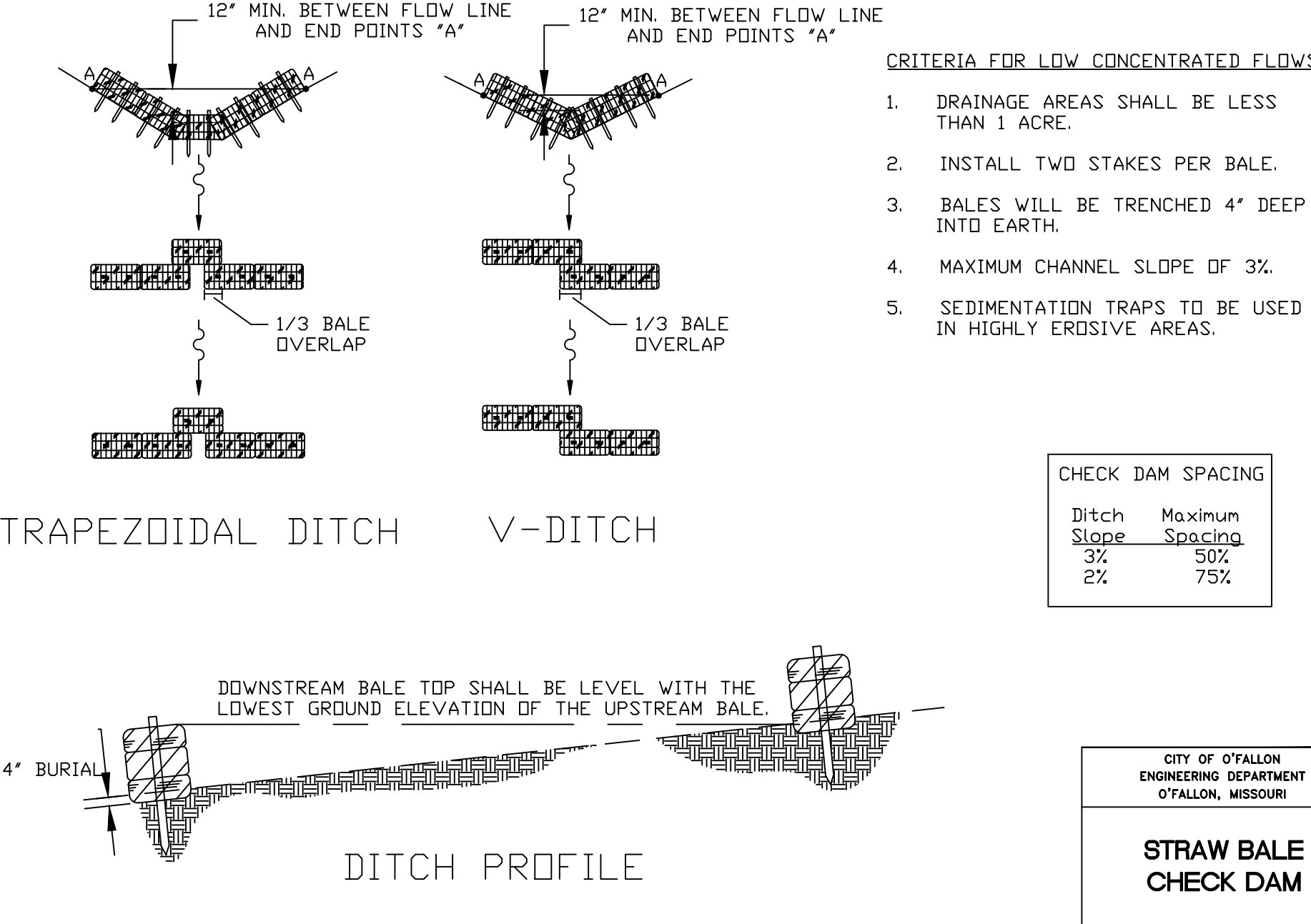
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CHECK DAMS



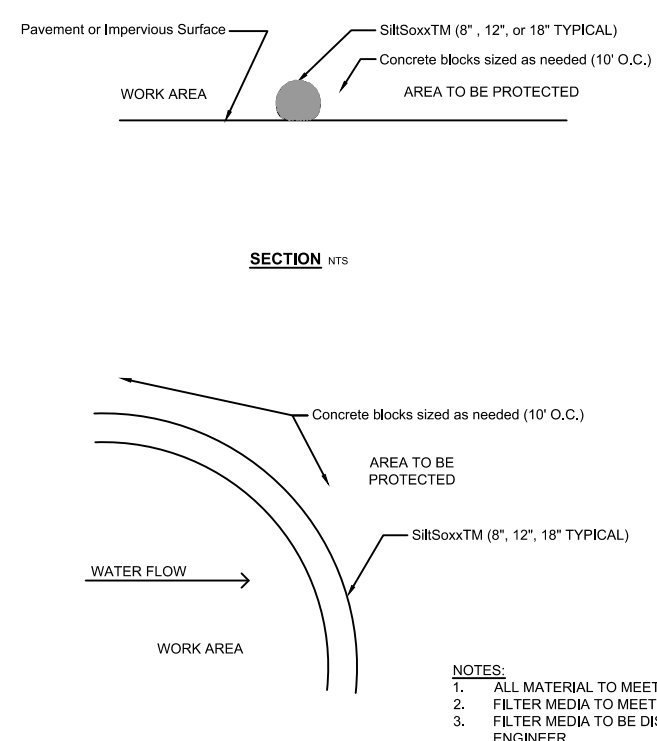
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CHECK DAMS



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

**STRAW BALE
CHECK DAM**



SiltSoxTM for Sediment Control on Pavement

FILTREXX
www.filtrex.com

SWPPP Cut Sheet
Last Updated: 7-1-17

Section 1: Erosion and Sediment Control - Construction Activities
1.1 Filtrex SiltSox™
Sediment & Perimeter Control Technology

PURPOSE & DESCRIPTION
Filtrex SiltSox™ are a three-dimensional tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities.

APPLICATION
Filtrex SiltSox™ are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from runoff. SiltSox™ are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include:

- Site perimeters
- Above and below disturbed areas subject to sheet runoff, interrill and rill erosion
- Above and below exposed and erodible slopes
- Around area drains or inlets located in a "sump"
- On compacted soils where trenching of silt fence is difficult or impossible
- Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.
- On frozen ground where trenching of silt fence is impossible.
- On paved surfaces where trenching of silt fence is impossible.

INSTALLATION

- SiltSox™ used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrex SiltSox™ Material Specifications and use Certified Filtrex FilterMedia™.
- Contractor is required to be Filtrex Certified™ as determined by Filtrex International, LLC (440-926-2607 or visit website at www.filtrex.com). Certification shall be considered current if appropriate identification is shown during time of bid or at time of application (current listing can be found at www.filtrex.com). Look for the Filtrex Certified™ Seal.
- SiltSox™ will be placed at locations indicated on plans as directed by the Engineer.
- SiltSox™ should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2:1 slopes), a second SiltSox™ shall be constructed at the top of the slope.
- Stakes shall be installed through the middle of the SiltSox™ on 10 ft (3m) centers, using 2" in (50mm) by 2" in (50mm) by 3 ft (1m) wooden stakes. In the event staking is not possible, i.e., when SiltSox™ are used on pavement, heavy concrete blocks shall be used behind the SiltSox™ to help stabilize during rainfall events.
- Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils.
- Loose compost may be backfilled along the upslope side of the SiltSox™, filling the seam between the soil surface and the device, improving filtration and sediment retention.
- If the SiltSox™ is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation. The Engineer will specify seed requirements.
- Filtrex SiltSox™ are not to be used in perennial, ephemeral, or intermittent streams.
- See design drawing schematic for correct Filtrex SiltSox™ installation (Figure 1.1).

INSPECTION AND MAINTENANCE
Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SiltSox™ should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. If ponding becomes excessive, additional SiltSox™ may be required to reduce effective slope length or sediment removal may be necessary. SiltSox™ shall be inspected until area above has been permanently stabilized and construction activity has ceased.

- The Contractor shall maintain the SiltSox™ in a functional condition at all times and it shall be routinely inspected.
- If the SiltSox™ has been damaged, it shall be repaired, or replaced if beyond repair.
- The Contractor shall remove sediment at the base of the upslope side of the SiltSox™ when accumulation has reached 1/2 of the effective height of the SiltSox™, or as directed by the Engineer. Alternatively, a new SiltSox™ can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance.
- SiltSox™ shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased.
- The FiltrexMedia™ will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer.
- For long-term sediment and pollution control applications, SiltSox™ can be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble pollutants (combined vegetative filter strip). The appropriate seed mix shall be determined by the Engineer.

Filtrex® SiltSox™ Details

Maximum Slope Length Above SiltSox™ in Feet (meters)*

Slope Percent	8 in (200 mm) SiltSox™	12 in (300 mm) SiltSox™	18 in (450 mm) SiltSox™	24 in (600mm) SiltSox™	32 in (800mm) SiltSox™
7 in (175 mm)**	600 (180)	750 (225)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	90 (27)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

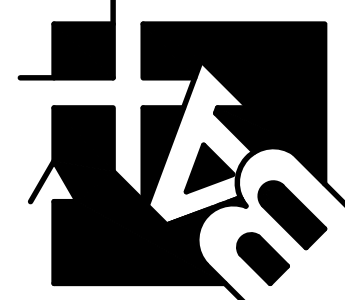
*Based on a failure point of 36 in (9.1 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control, 1 in/ 24 hr (25 mm/24 hr) rain event. **Effective height of SiltSox™ after installation and with constant head from runoff as determined by Ohio State University.

PROJECT TITLE:

ASPEN ACADEMY
740 WELKER PARKWAY
O'FALLON, MISSOURI 63385

ENGINEERING
PLANNING
SURVEYING

221 Point West Blvd.
St. Charles, MO 63301
636-928-5552
FAX 928-1718



REFERENCE DRAWINGS
ONLY, ENGINEERS
SEAL DOES NOT
APPLY TO THESE
DETAILS

REVISIONS

11-25-24	dsd & pwsd2 comments
12-18-24	city comments

Developer / Owner:

VM MUELLER PROPERTIES LLC - MADELINE MUELLER
3298 DYER ROAD
O'FALLON, MISSOURI 63366
636-544-4357 - madeline.bathey@yahoo.com

EROSION CONTROL DETAILS

P+Z No. # 24-0025299
Approval Date: Sept 5, 2024

City No. #

Page No.

13 of 18