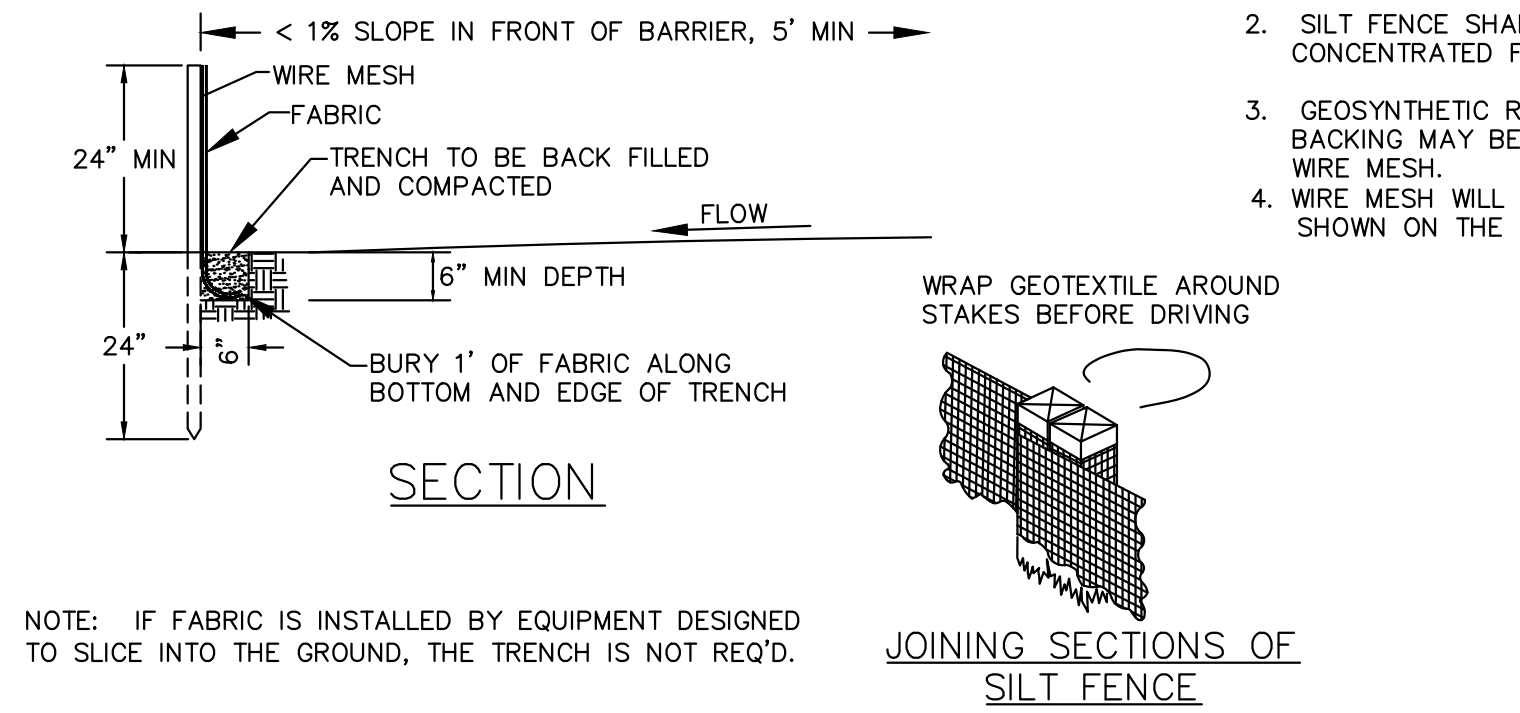
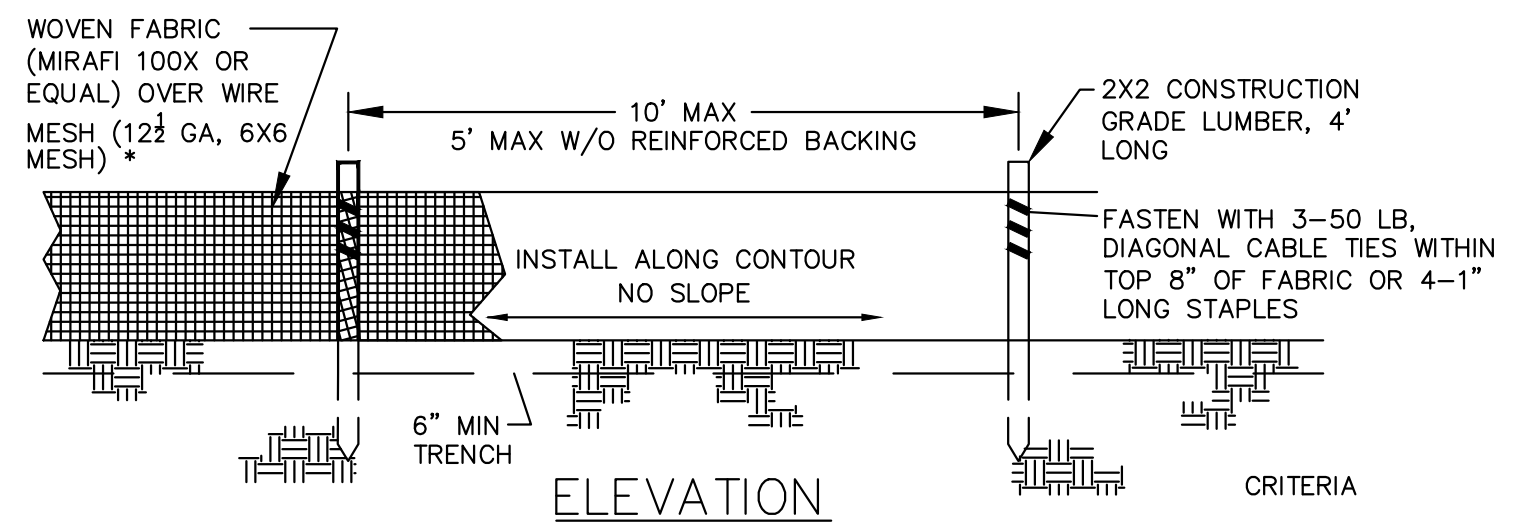


DESIGN CRITERIA

- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
- STRAW BALES 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, WATTLIES & FILTER SOCKS.

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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

SPACING CHART FOR ESC DEVICES

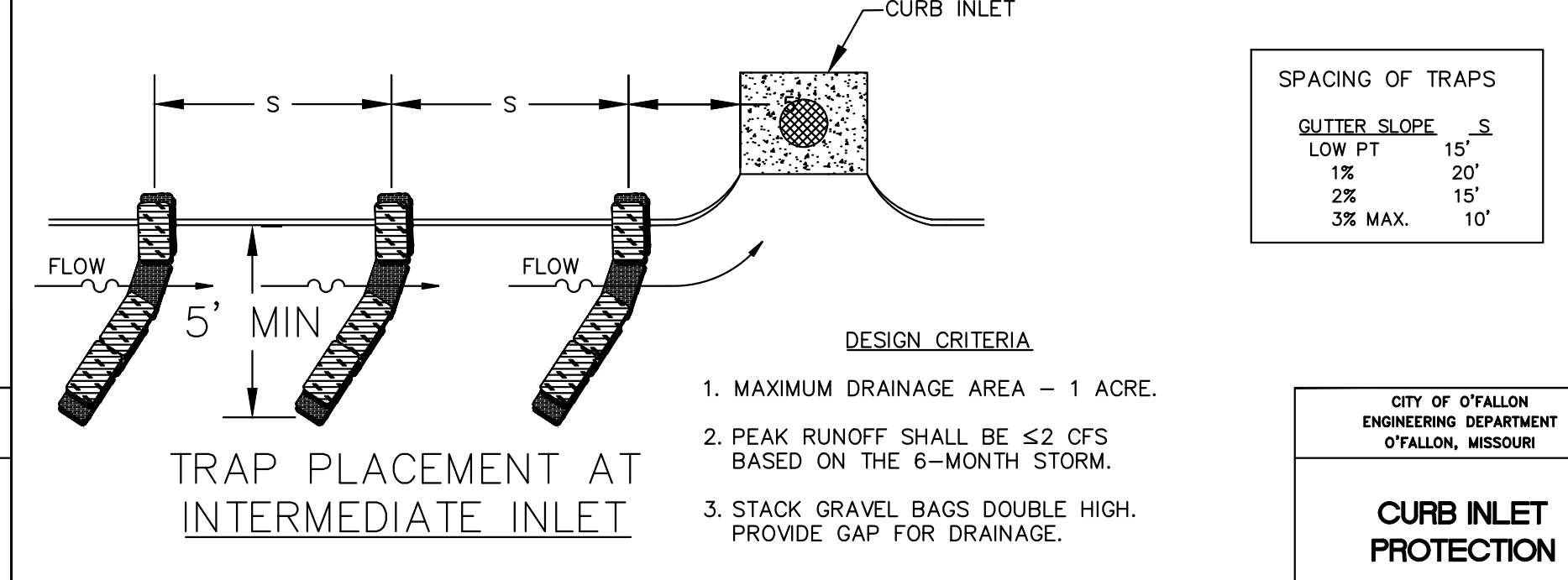
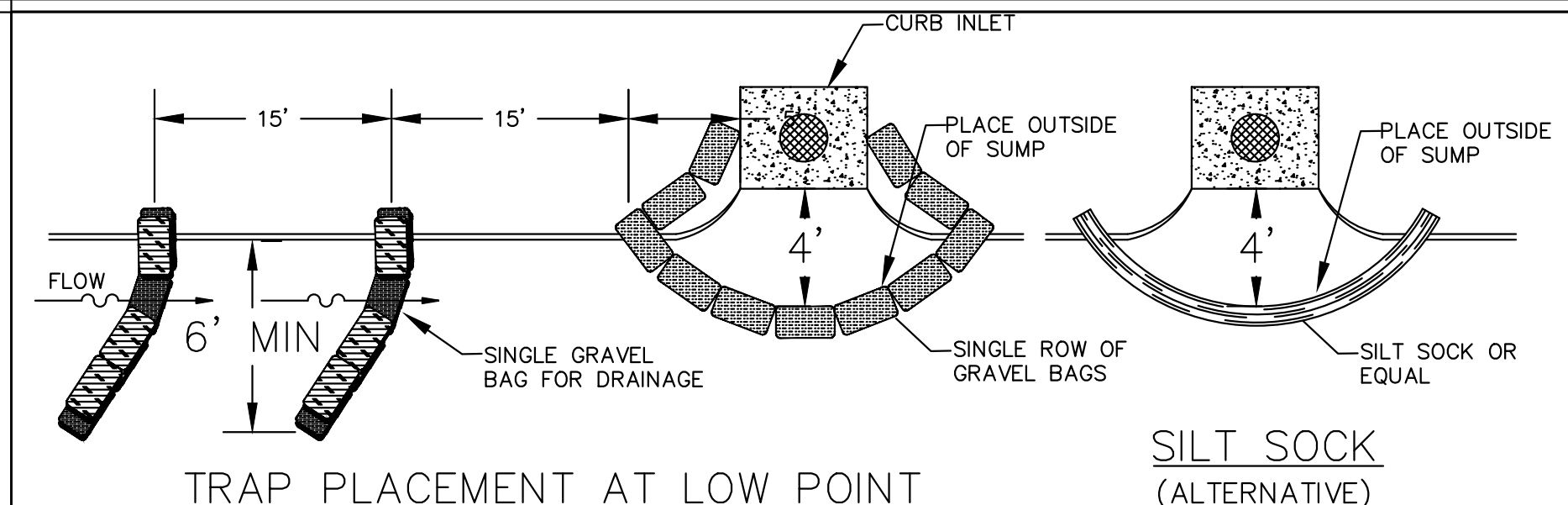


NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.

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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

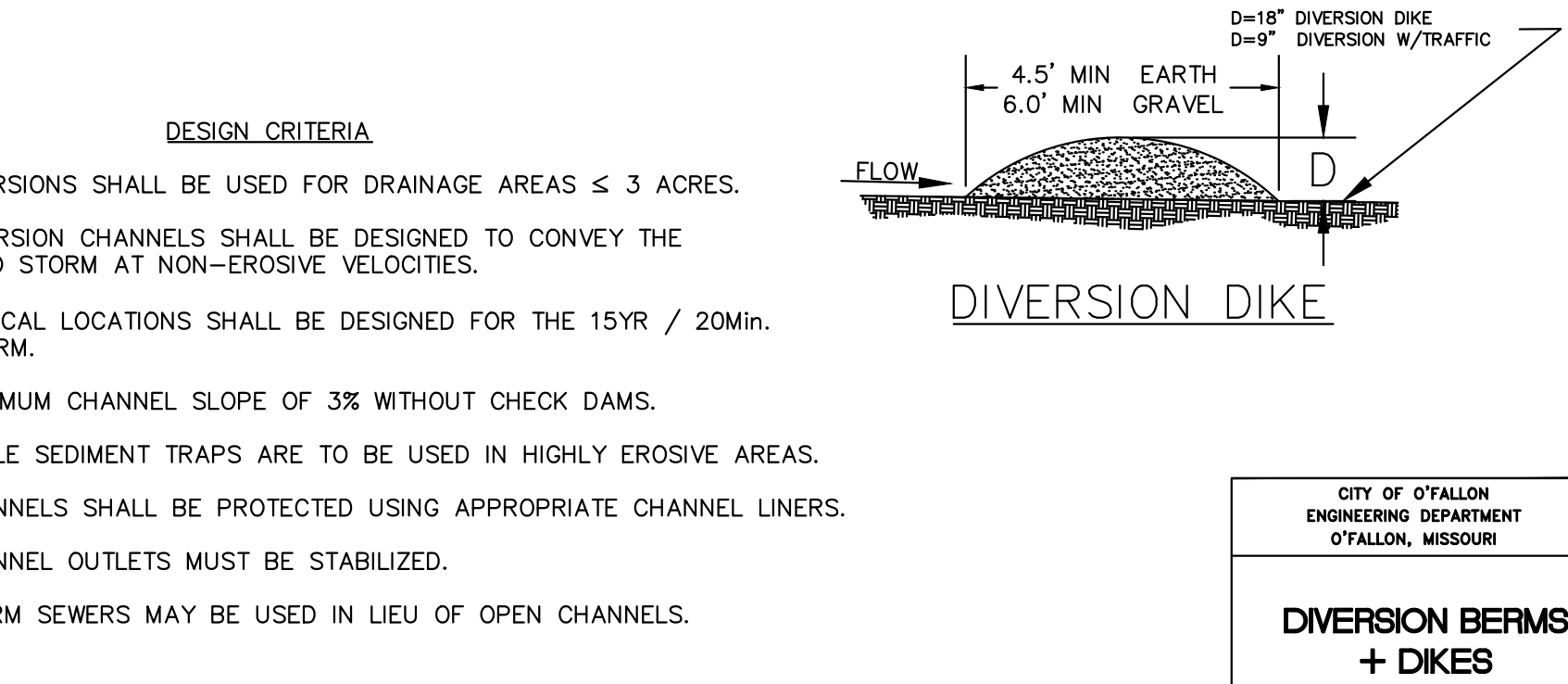
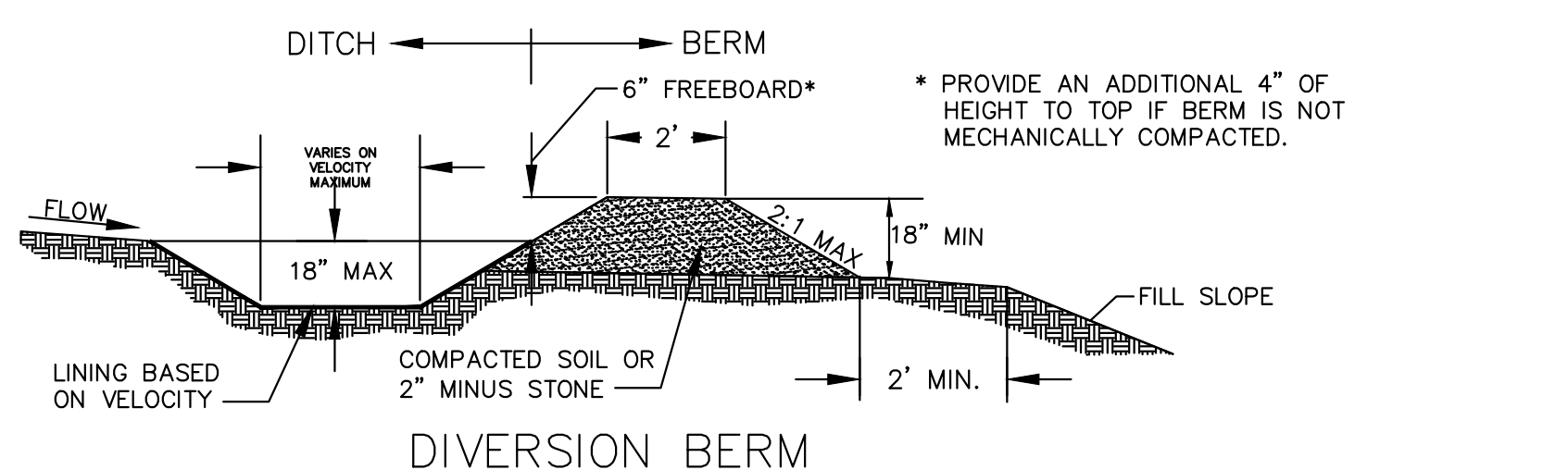
SILT FENCE INSTALLATION SHEET FLOW (ONLY)

- 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.

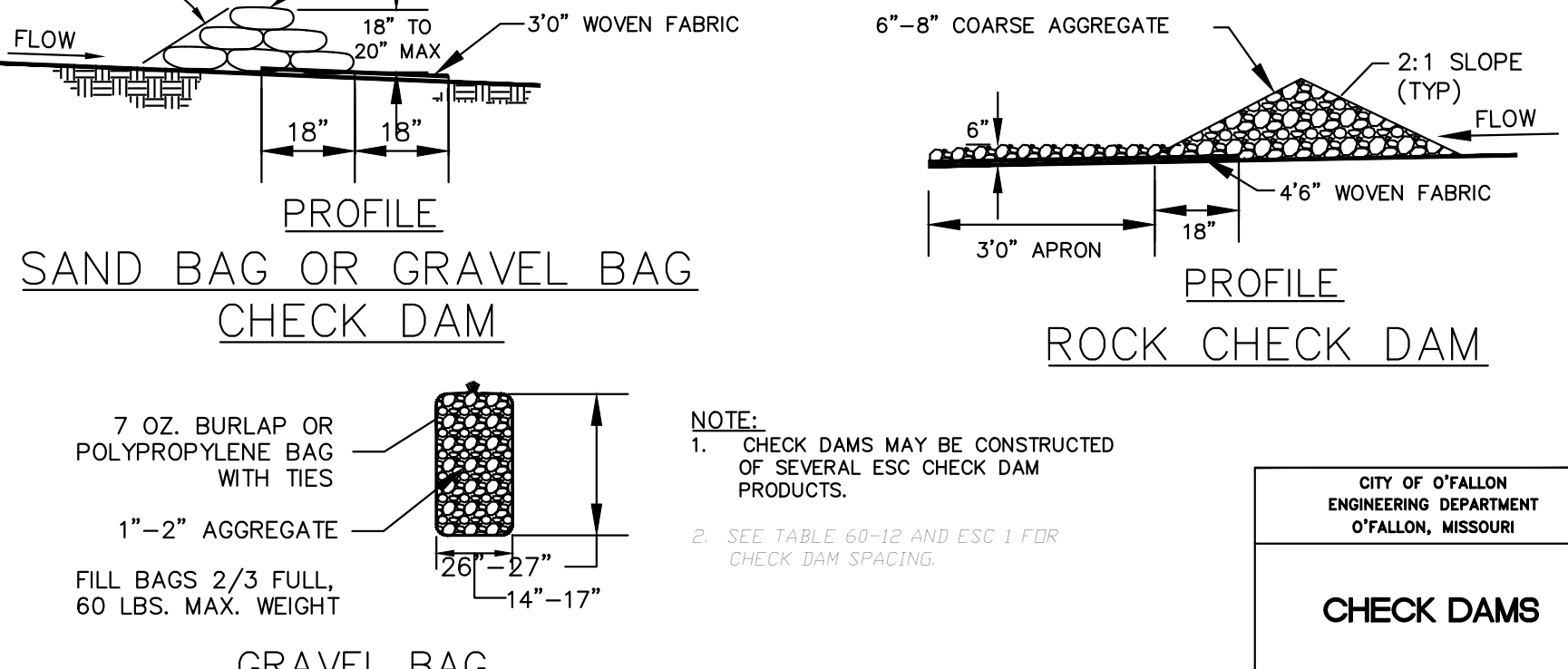
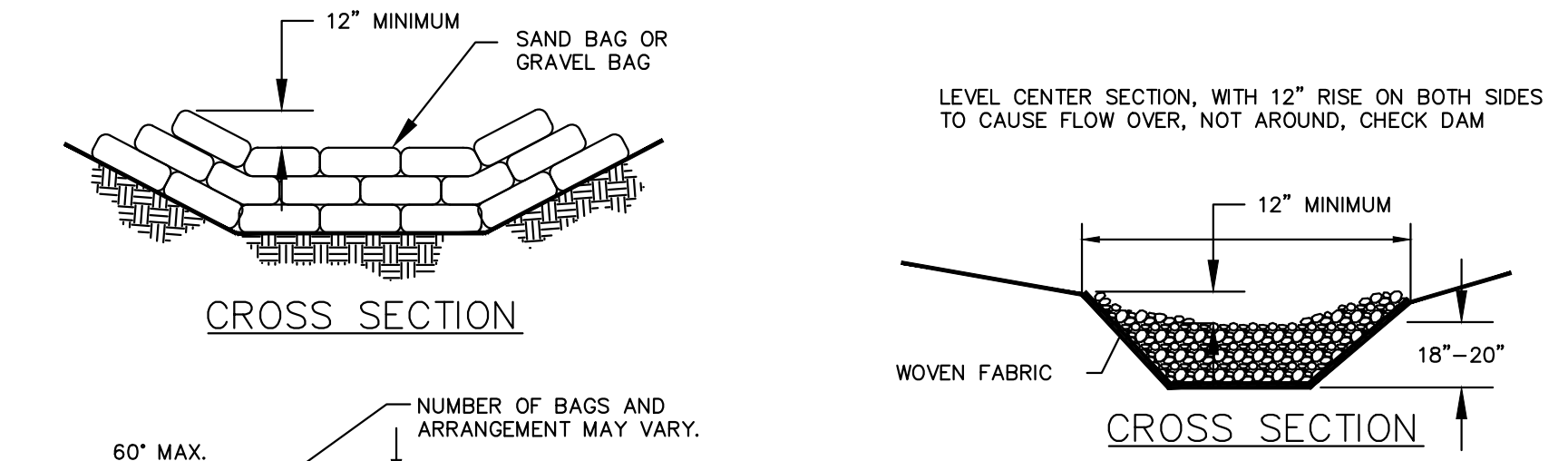


SPACING OF TRAPS

GUTTER SLOPE	S
LOW PT	15'
	20'
	15'
	3% MAX. 10'



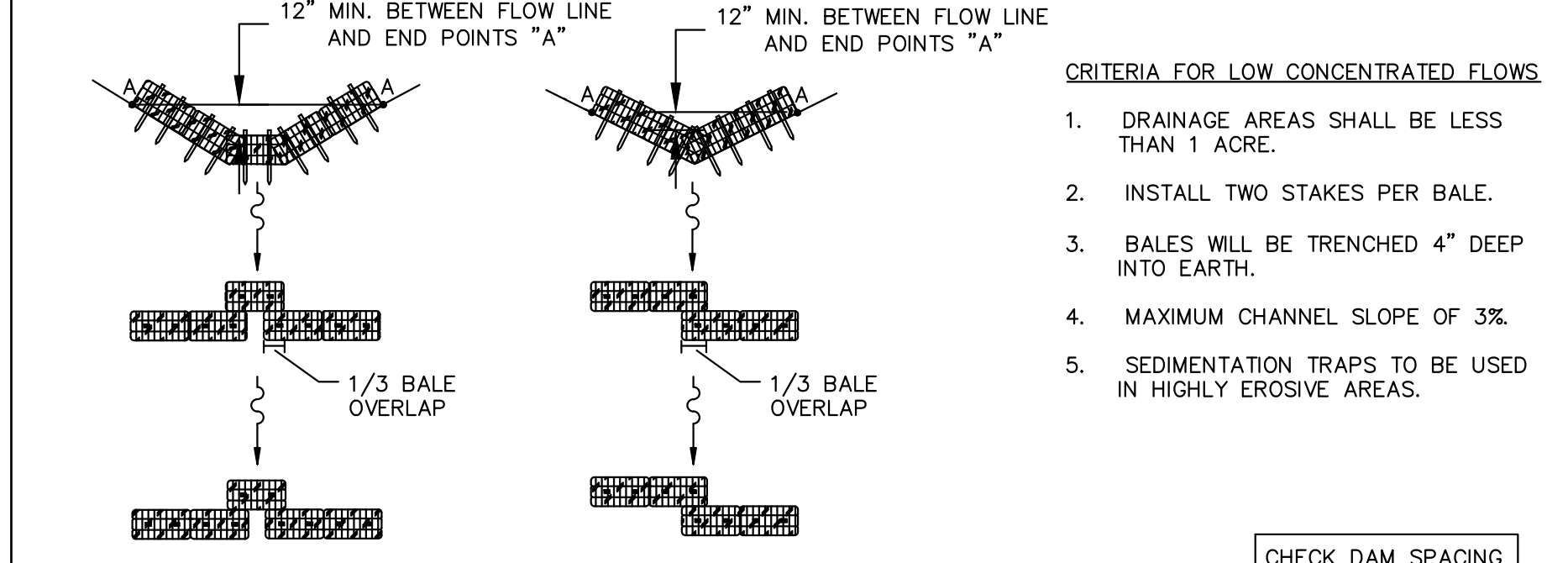
* PROVIDE AN ADDITIONAL 4" OF HEIGHT TO TOP IF BERM IS NOT MECHANICALLY COMPACTED.



NUMBER OF BAGS AND ARRANGEMENT MAY VARY.

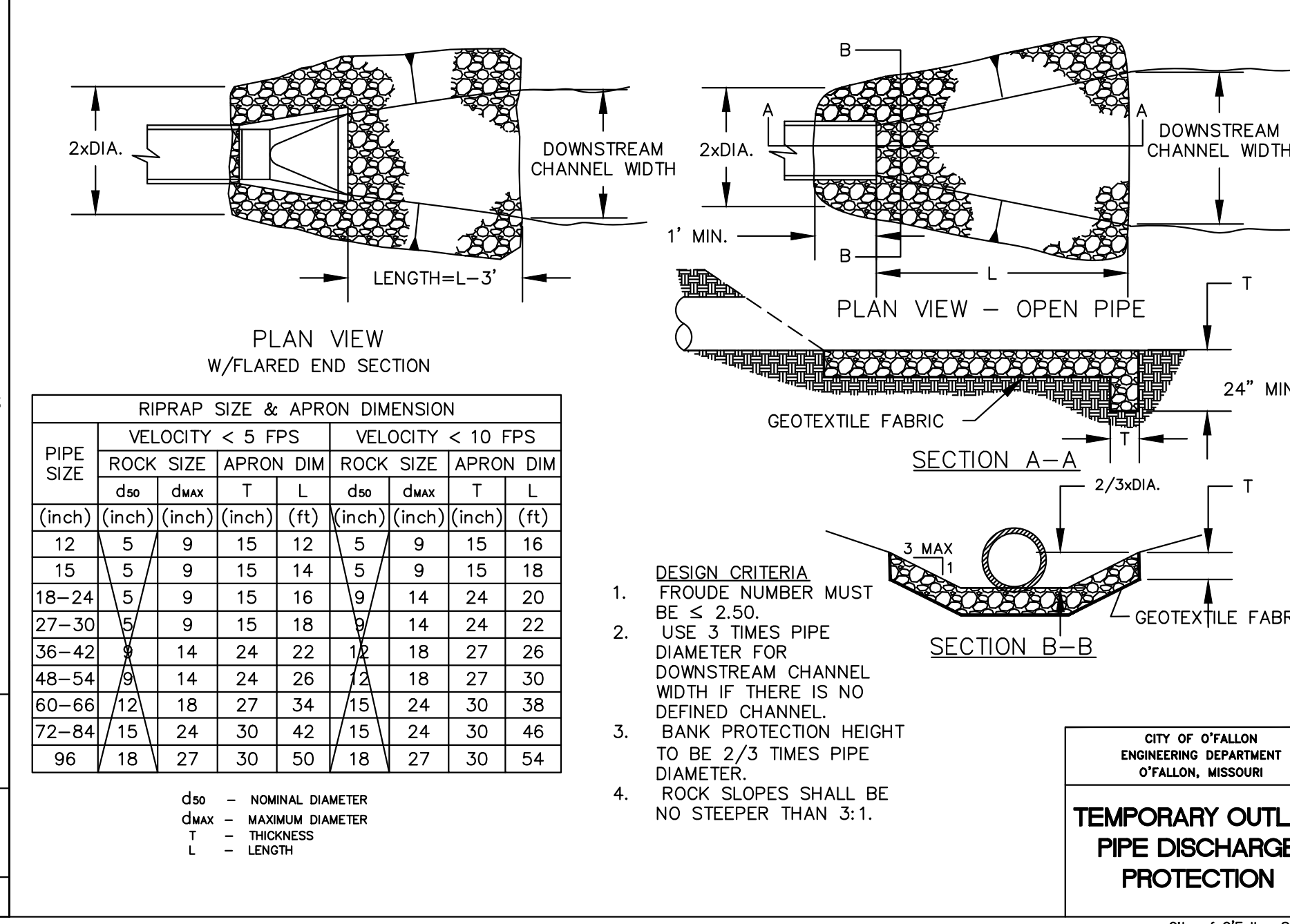
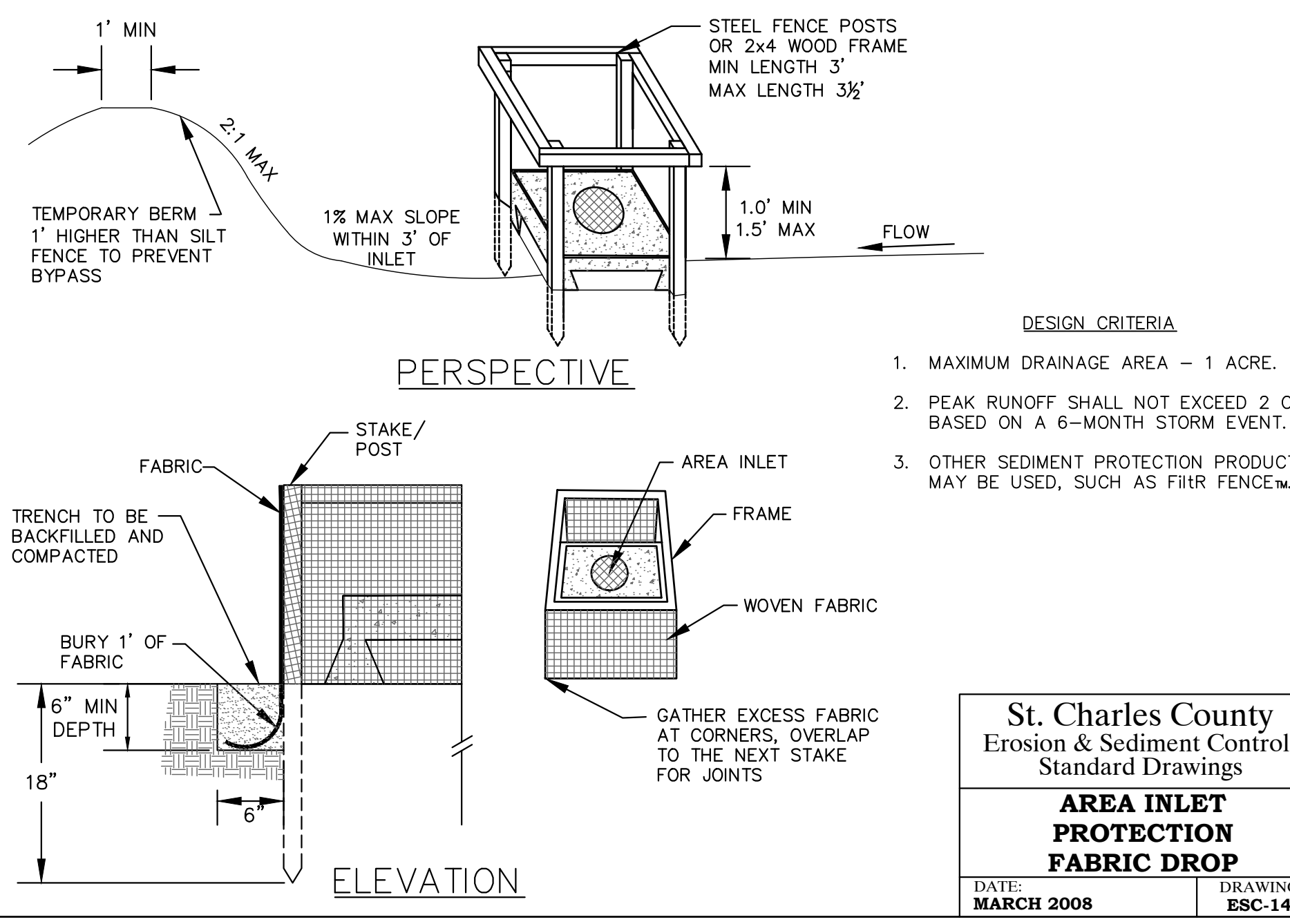
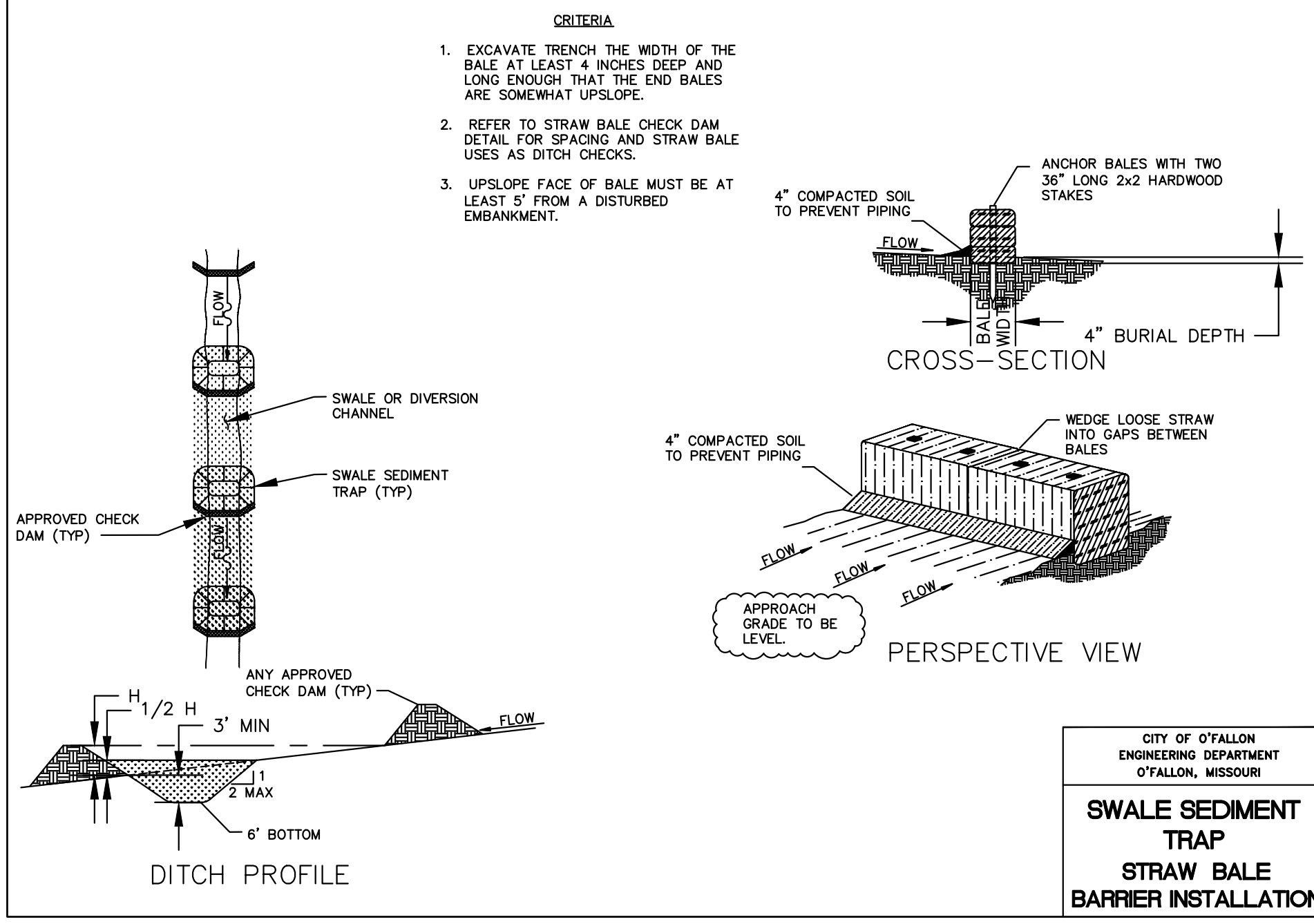
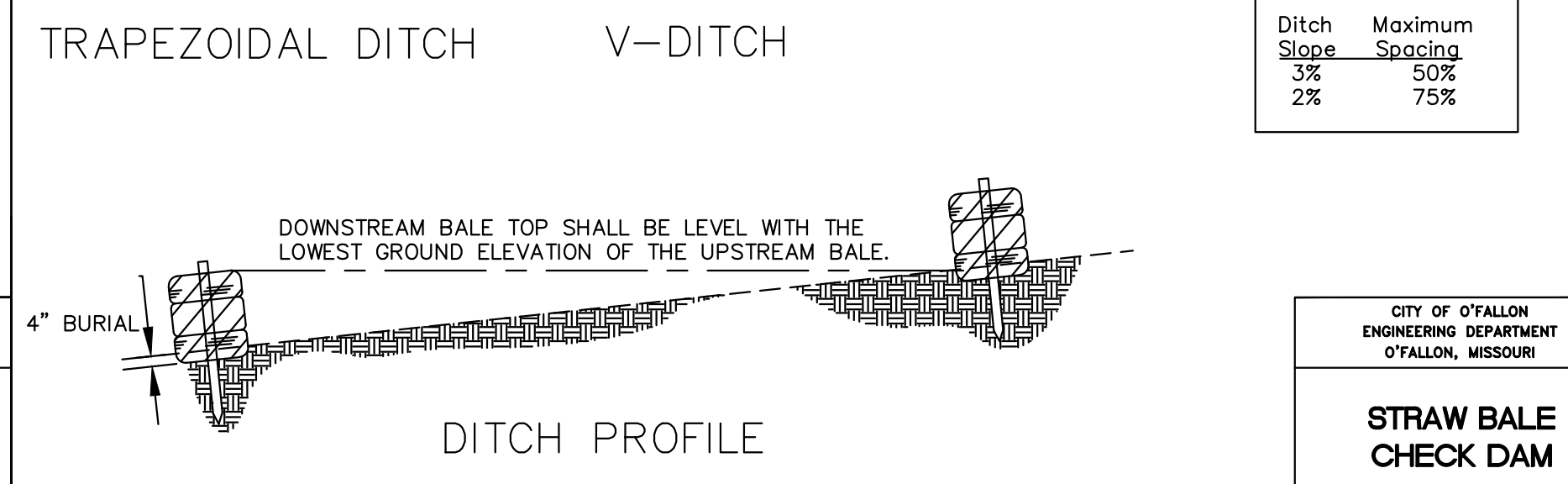
1"-2" AGGREGATE

FILL BAGS 2/3 FULL, 60 LBS. MAX. WEIGHT



CHECK DAM SPACING

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



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)	d ₅₀ (inch)	d _{max} (inch)	T (inch)	L (ft)	d ₅₀ (inch)	d _{max} (inch)	T (inch)	L (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

d₅₀ - NOMINAL DIAMETER
d_{max} - MAXIMUM DIAMETER
T - THICKNESS
L - LENGTH

REV 1 11-18-2022
REV 2 1-6-2023
REV 3 1-13-2022
REV 4 July 2018
02-09-23

CHRISTIAN BROTHERS AUTOMOTIVE
LOT 3A, HIGHWAY K
O'FALLON ST. CHARLES COUNTY, MO 63368

THOROUGH BRED
DESIGN | ENGINEER | CONSTRUCT
P.O. BOX 481 LEXINGTON, KY 40588
(859) 785-0383
CIVIL DESIGN, LAND SURVEYING
GEO TECHNICAL ENGINEERING, DRILLING SERVICES,
IBC SPECIAL INSPECTIONS, MATERIAL TESTING,
CM-CEI CONSTRUCTION SERVICES

ENGINEER SIGNATURE BLOCK

DANIEL J. REINER
NUMBER PE-2022042444
PROFESSIONAL ENGINEER

02-09-23

CHRISTIAN BROTHERS AUTOMOTIVE
17725 KATY FREEWAY SUITE 200
HOUSTON, TX 77094

CITY OF O'FALLON EROSION CONTROL DETAILS

P+Z No.
City No.
Page No.
C-4.1