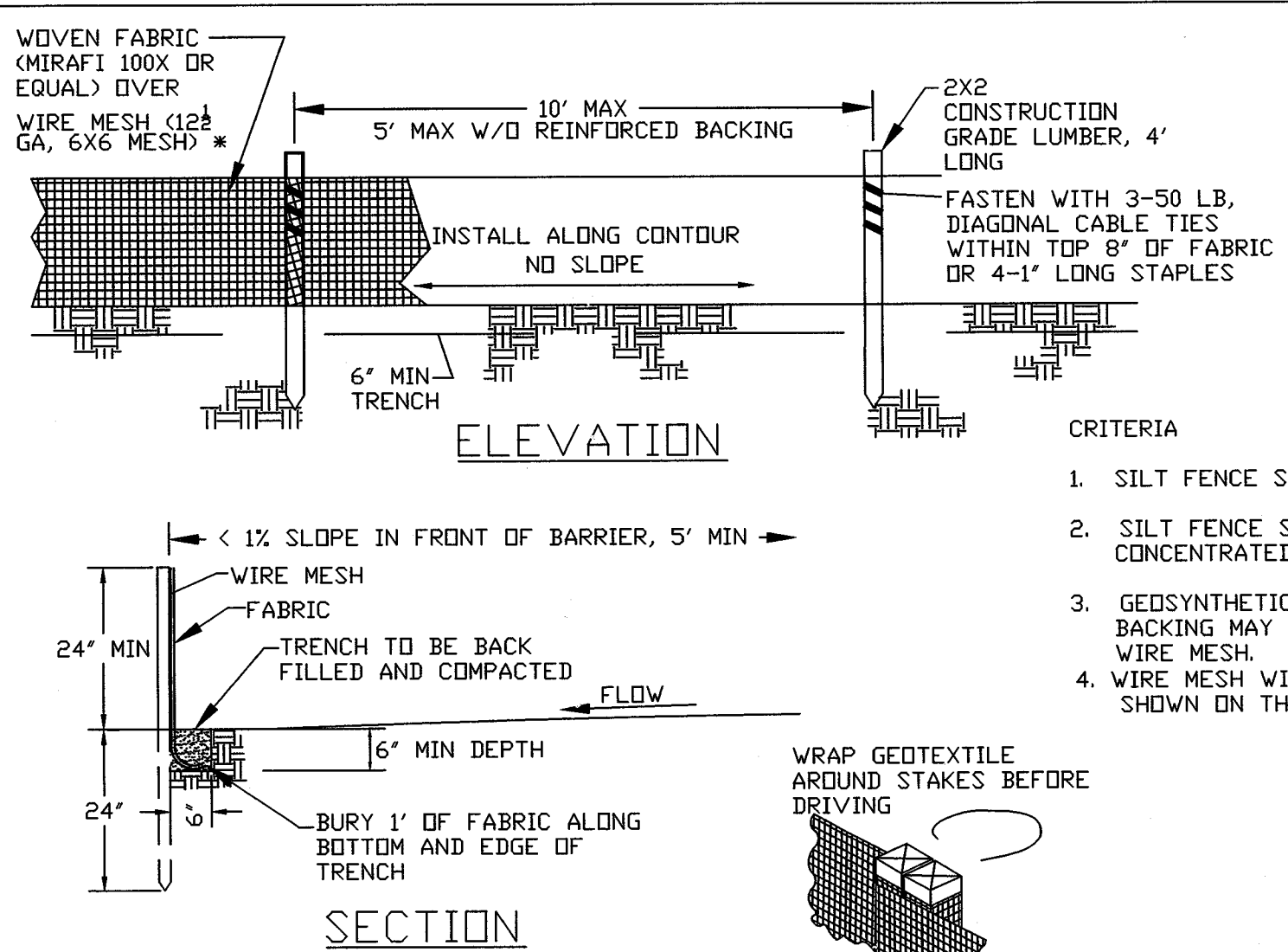


DESIGN CRITERIA

- 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.

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O'FALLON, MISSOURI

SPACING CHART FOR ESC DEVICES



ELEVATION

SECTION

JOINING SECTIONS OF SILT FENCE

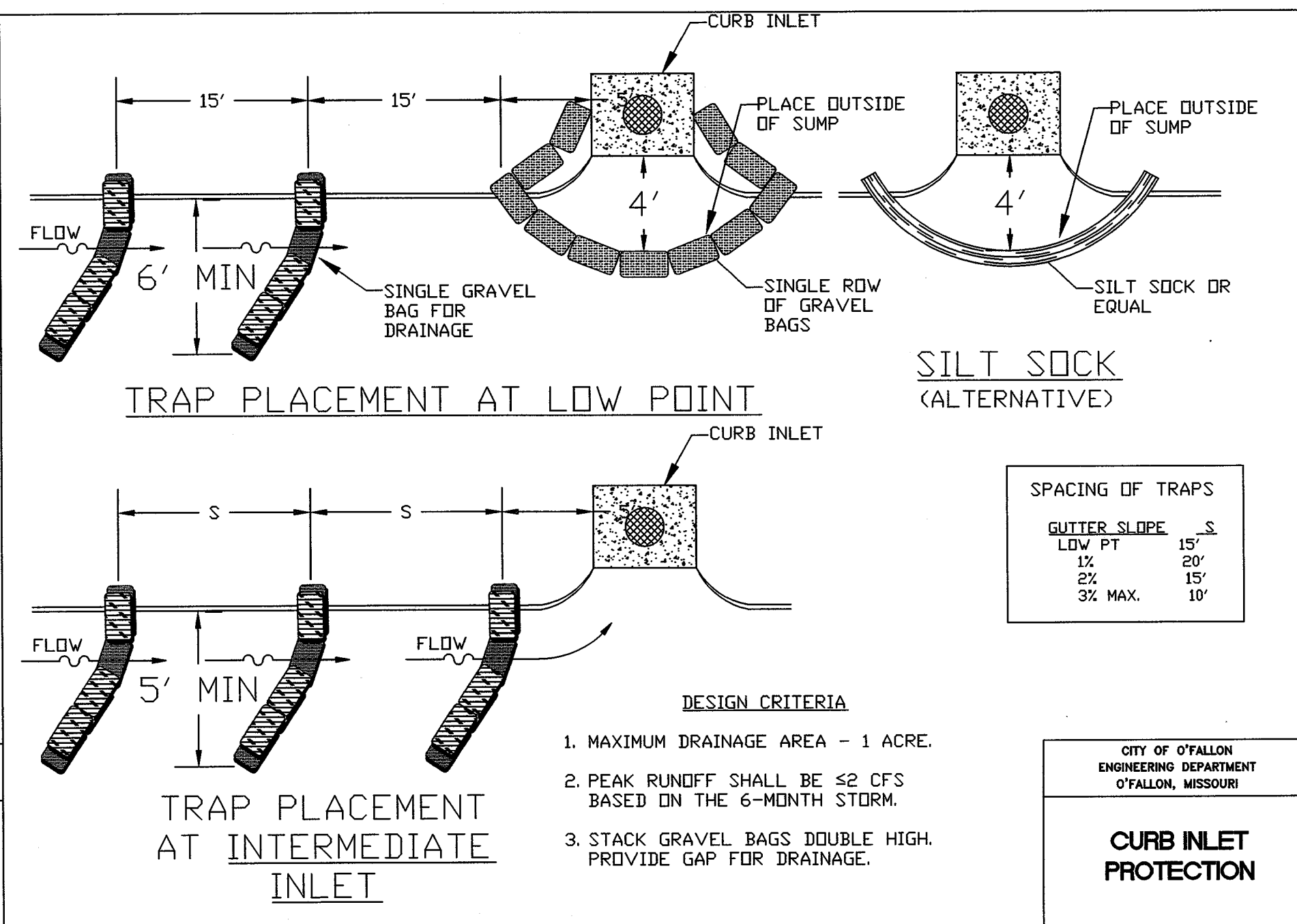
NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQUIRED.

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SILT FENCE INSTALLATION SHEET FLOW ONLY

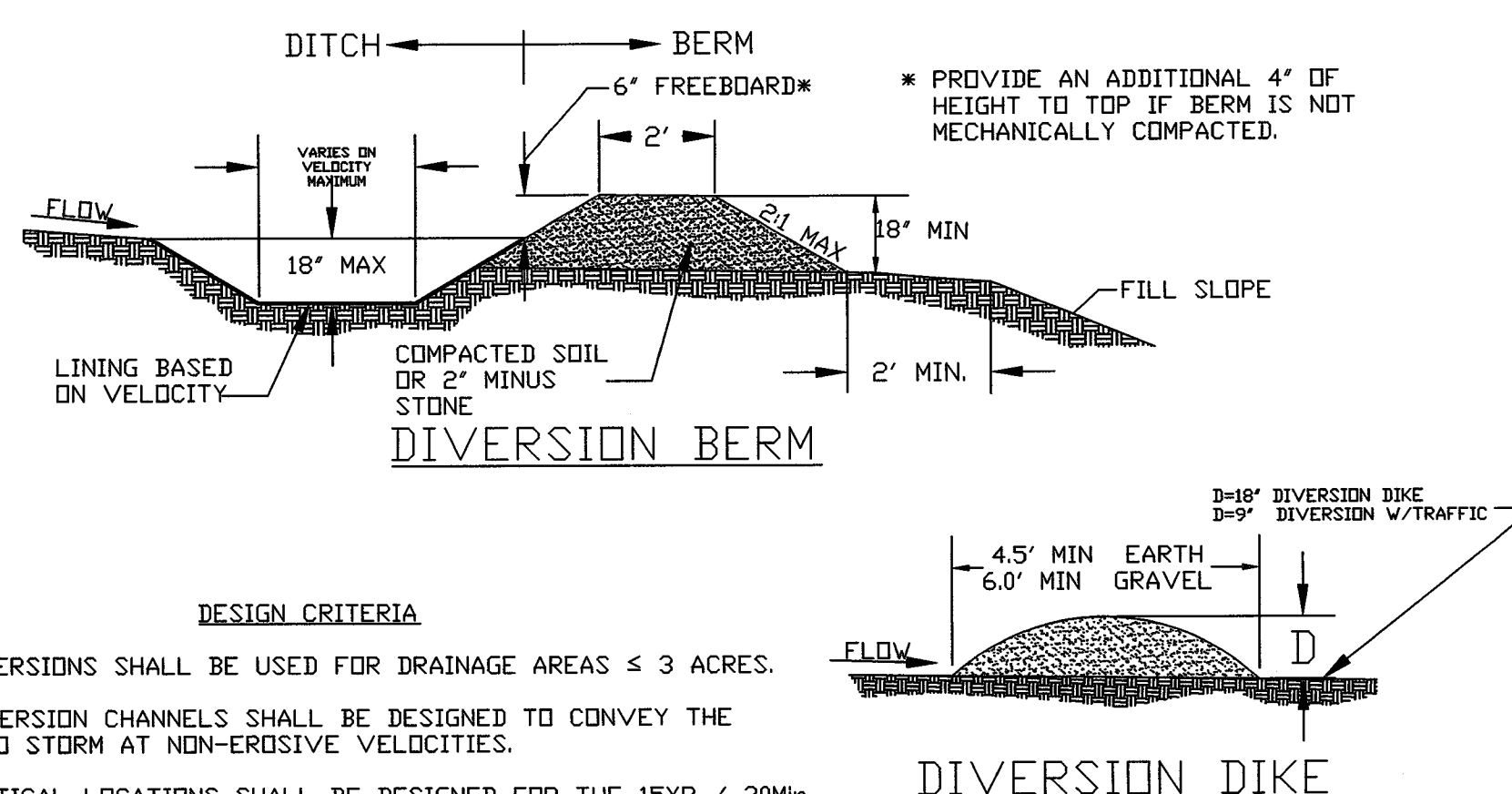
CRITERIA

- 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.



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.

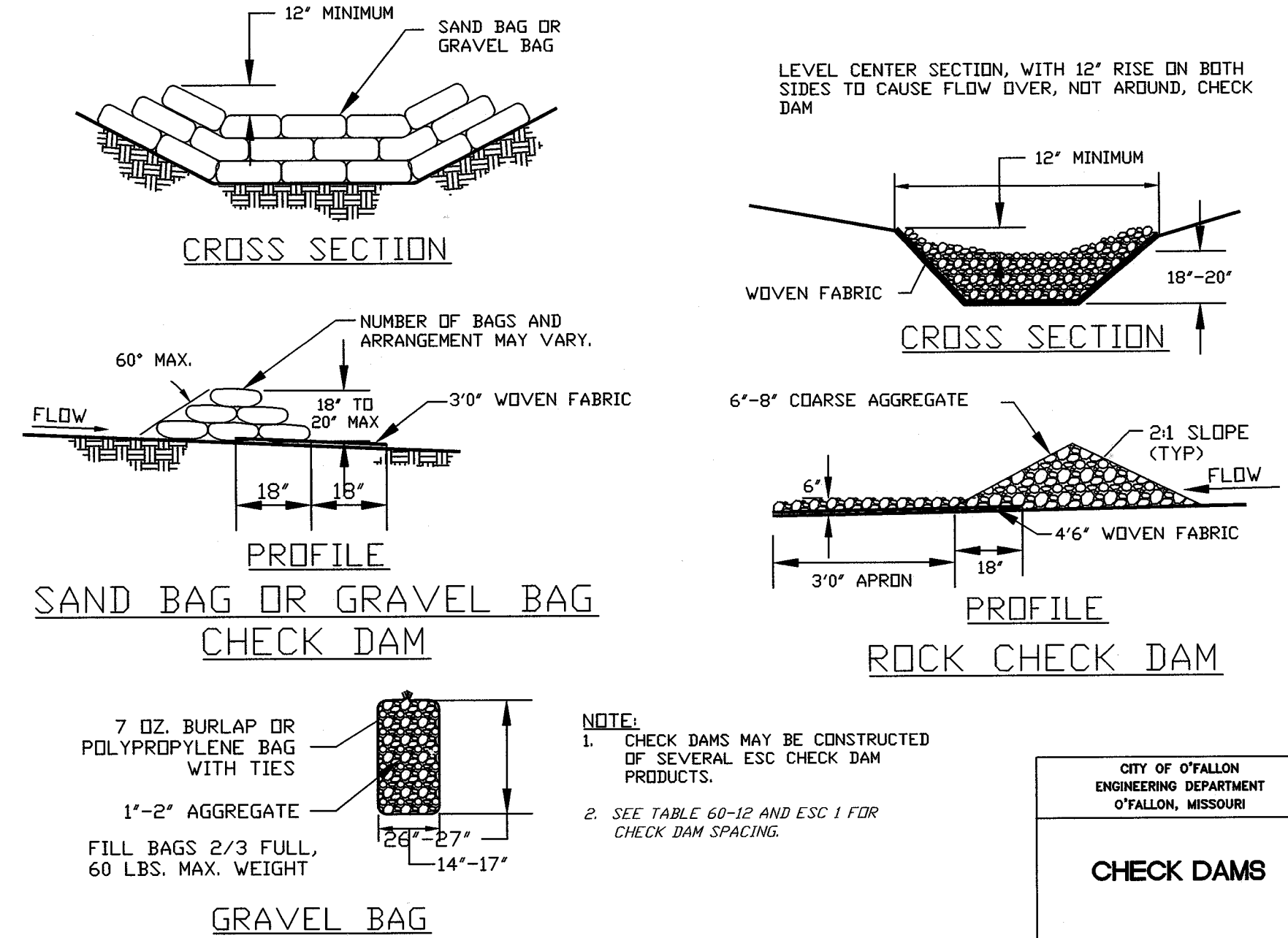


DESIGN CRITERIA

- 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 SEWERS MAY BE USED IN LIEU OF OPEN CHANNELS.

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DIVERSION BERMS + DIKES



CROSS SECTION

PROFILE

SAND BAG OR GRAVEL BAG CHECK DAM

PROFILE

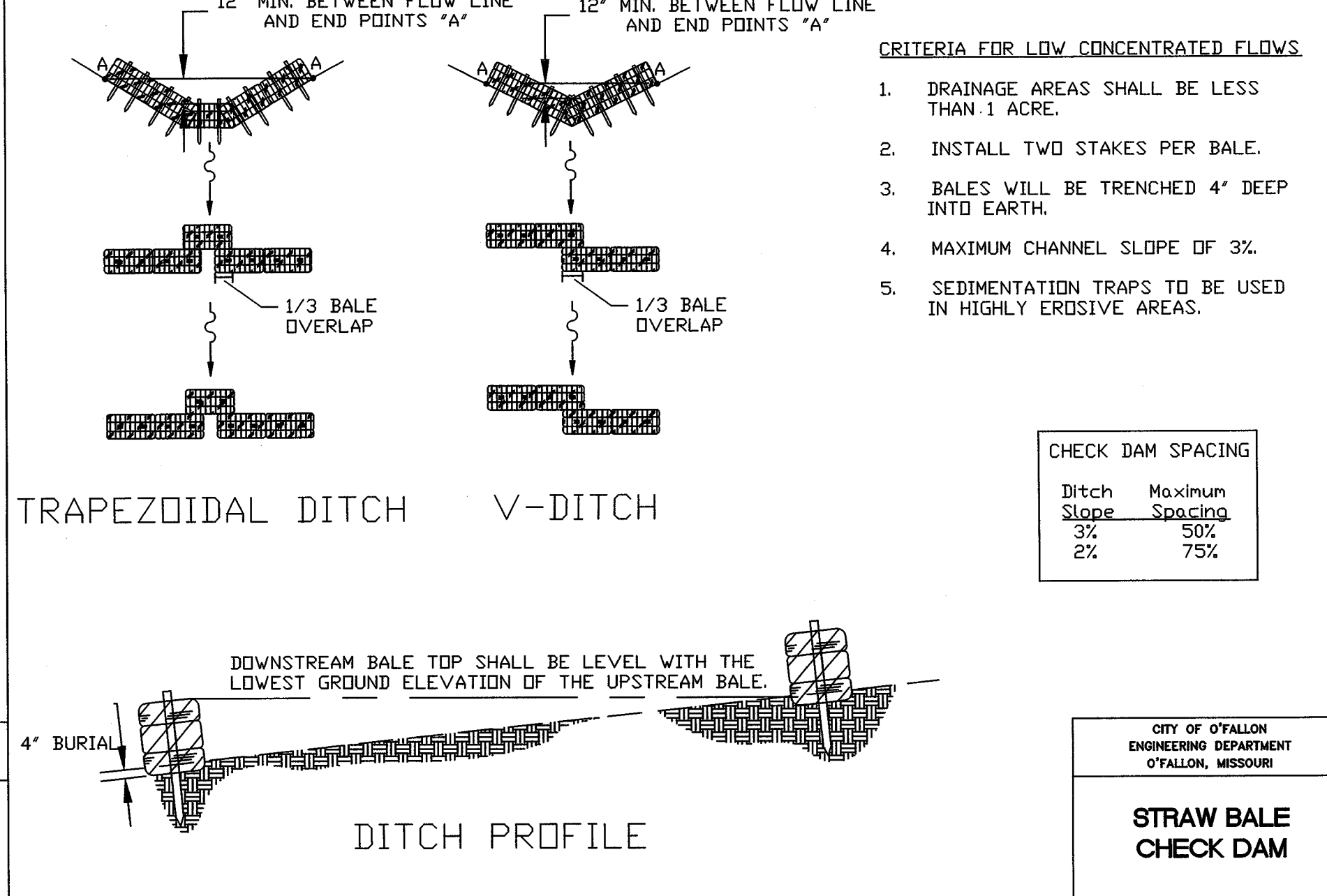
ROCK CHECK DAM

GRAVEL BAG

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



TRAPEZOIDAL DITCH

V-DITCH

DITCH PROFILE

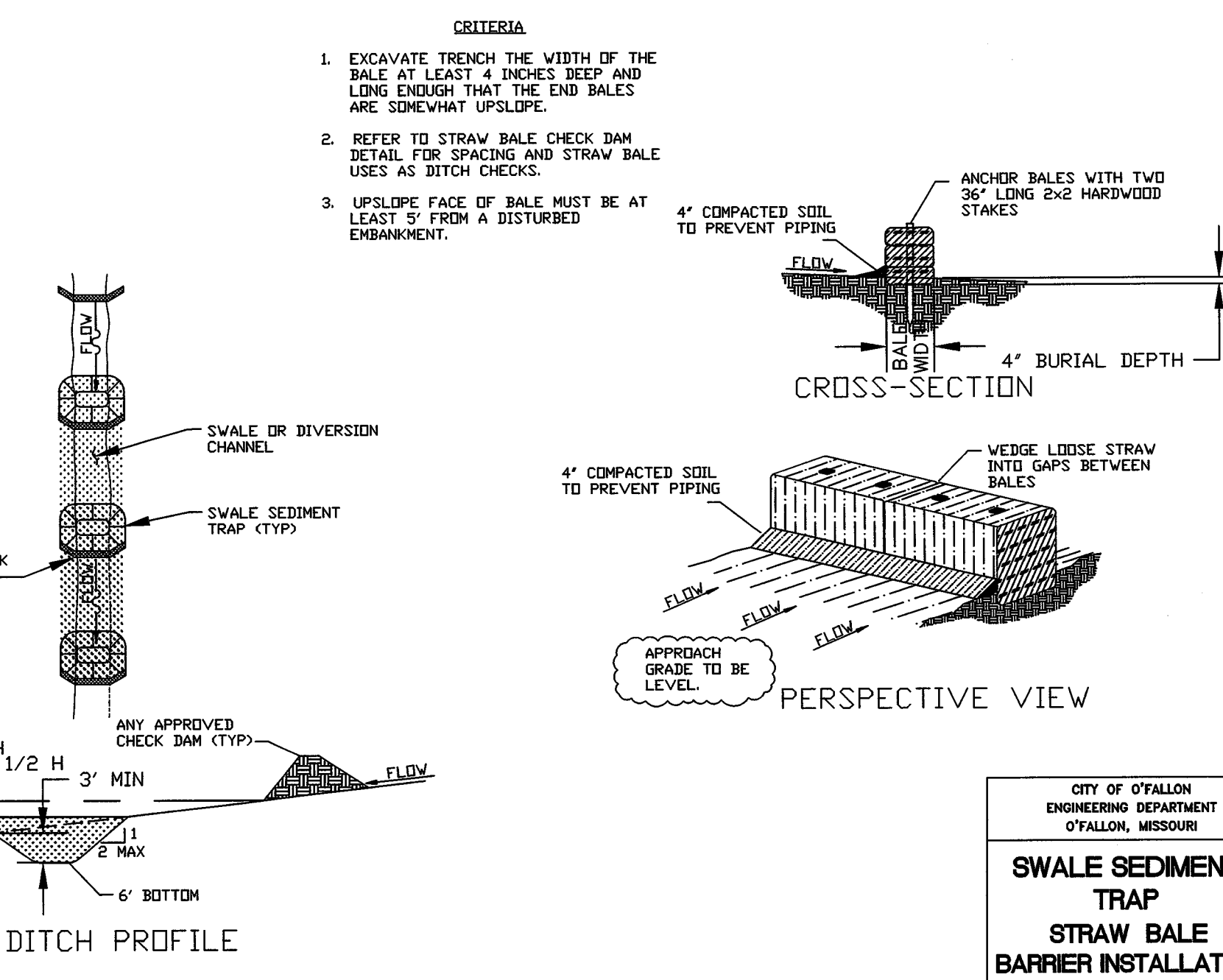
STRAW BALE CHECK DAM

CRITERIA FOR LOW CONCENTRATED FLOWS

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

CHECK DAM SPACING	
Ditch Slope	Maximum Spacing
3%	50'
2%	75'

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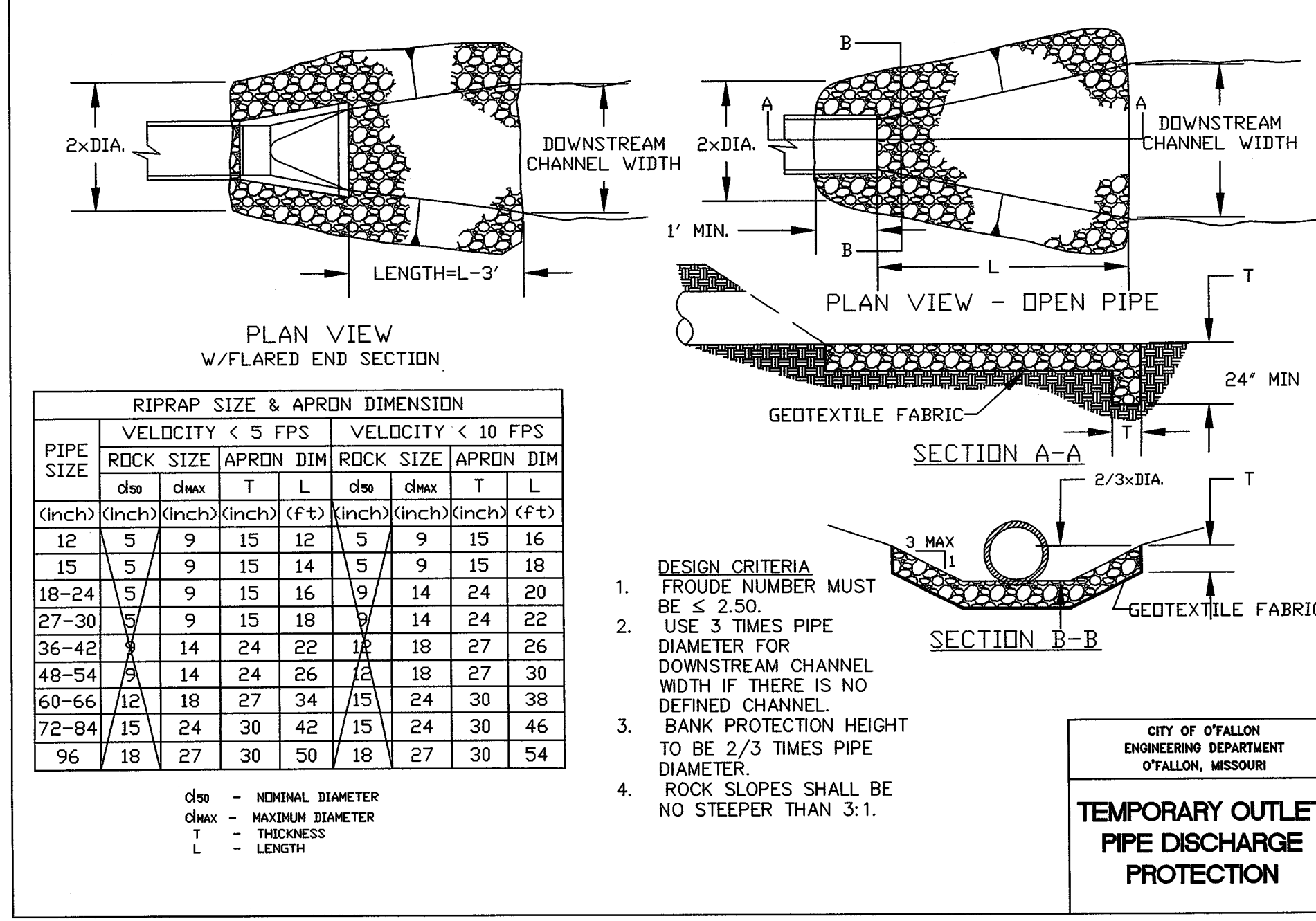
CROSS-SECTION

PERSPECTIVE VIEW

DITCH PROFILE

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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

SWALE SEDIMENT TRAP STRAW BALE BARRIER INSTALLATION



PLAN VIEW

SECTION A-A

SECTION B-B

TEMPORARY OUTLET PIPE DISCHARGE PROTECTION

DESIGN CRITERIA

- FROUDE NUMBER MUST BE ≤ 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.

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)	(inch)	(inch)	(ft)	(inch)	(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	9	15	18	18	14	24	22	
36-42	14	24	22	18	18	27	26	
48-54	14	24	26	18	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

dso - NOMINAL DIAMETER
dmax - MAXIMUM DIAMETER
T - THICKNESS
L - LENGTH

PROJECT TITLE:
THE LANDING OF OFALLON

ENGINEERING PLANNING SURVEYING

221 Point West Blvd.
St. Charles, MO 63301
636-928-5562
FAX 636-928-1718

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REFERENCE DETAIL SHEET ONLY.
CONTRACTOR TO OBTAIN CURRENT DETAILS AND SPECIFICATIONS FROM THE CITY OF O'FALLON.

REVISIONS

NO.	DATE	REVISION
10-14-16		CITY COMMENTS
10-24-16		CITY COMMENTS

Developer / Owner:
LENTY ARCHITECTURE
3150 KETTLE COURT SE
SALEM, OREGON 97301
1-503-399-1090

EROSION CONTROL DETAILS

P+Z No.
20-16.02

City No.
16-010424

Page No.
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