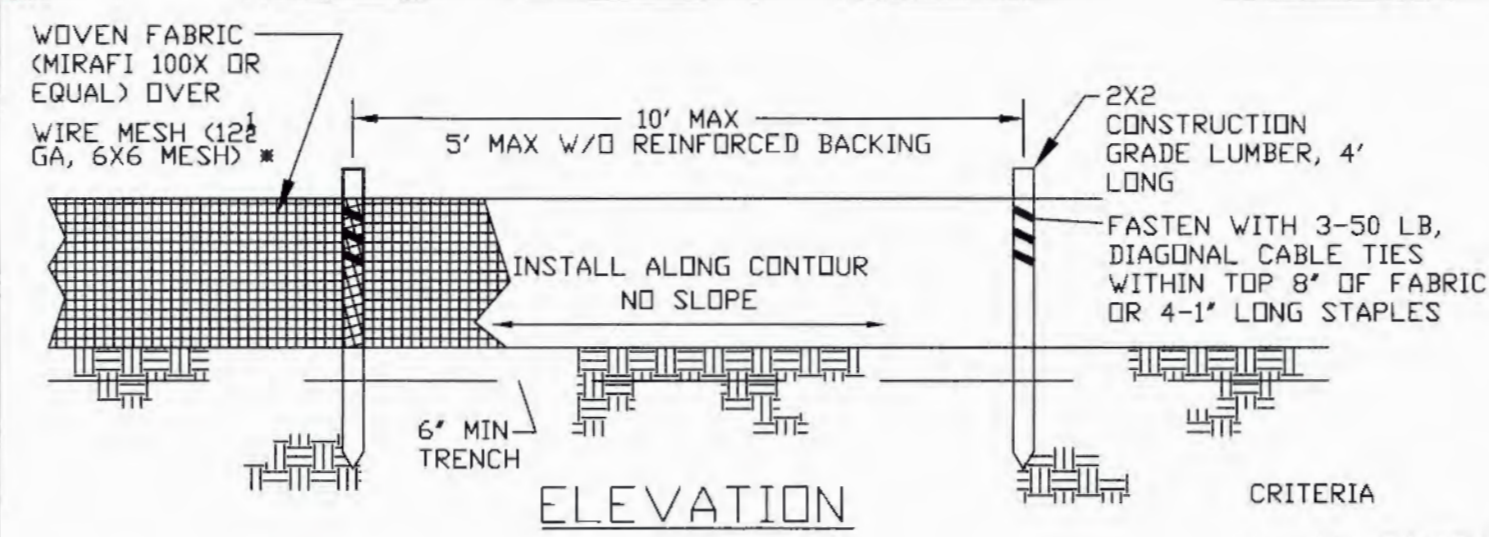


DESIGN CRITERIA

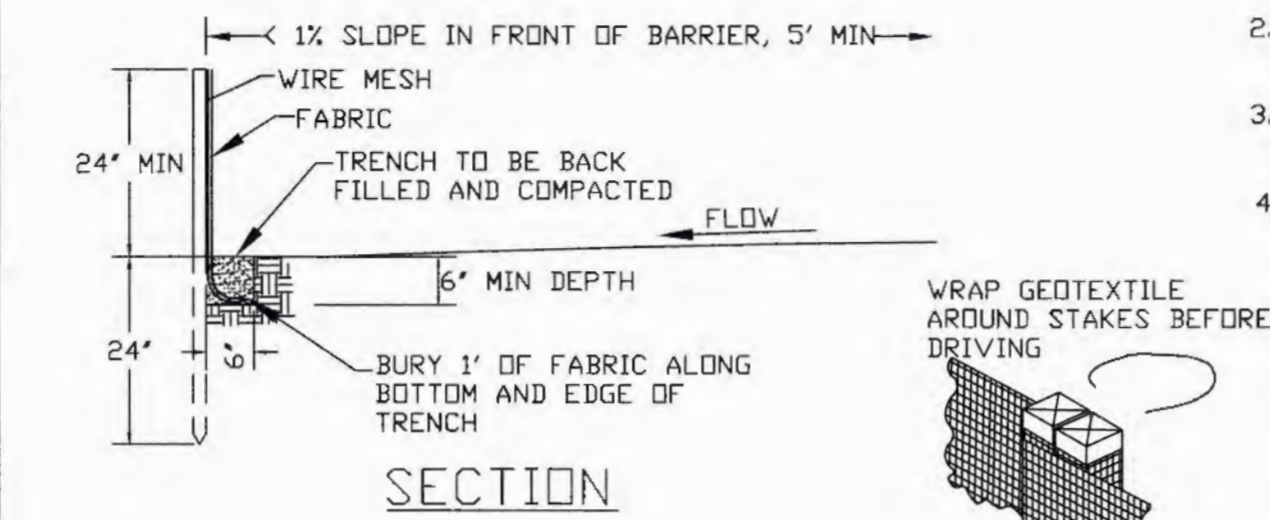
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
- STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
- REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
- TERRACING INCLUDES LOGS, WATTLES & FILTER SOCKS.

SPACING CHART FOR ESC DEVICES



CRITERIA

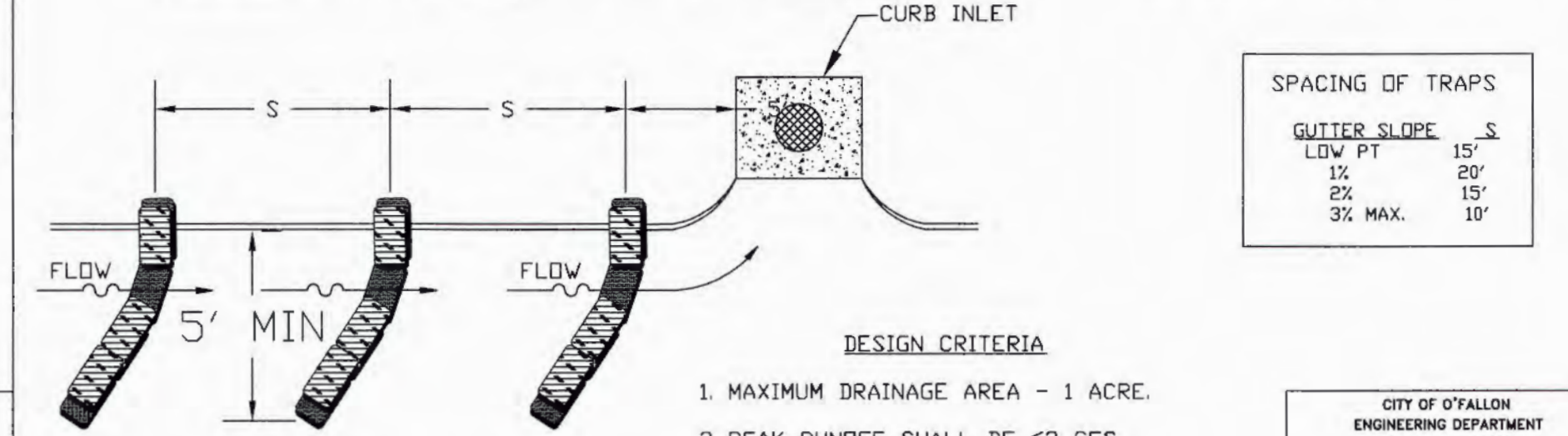
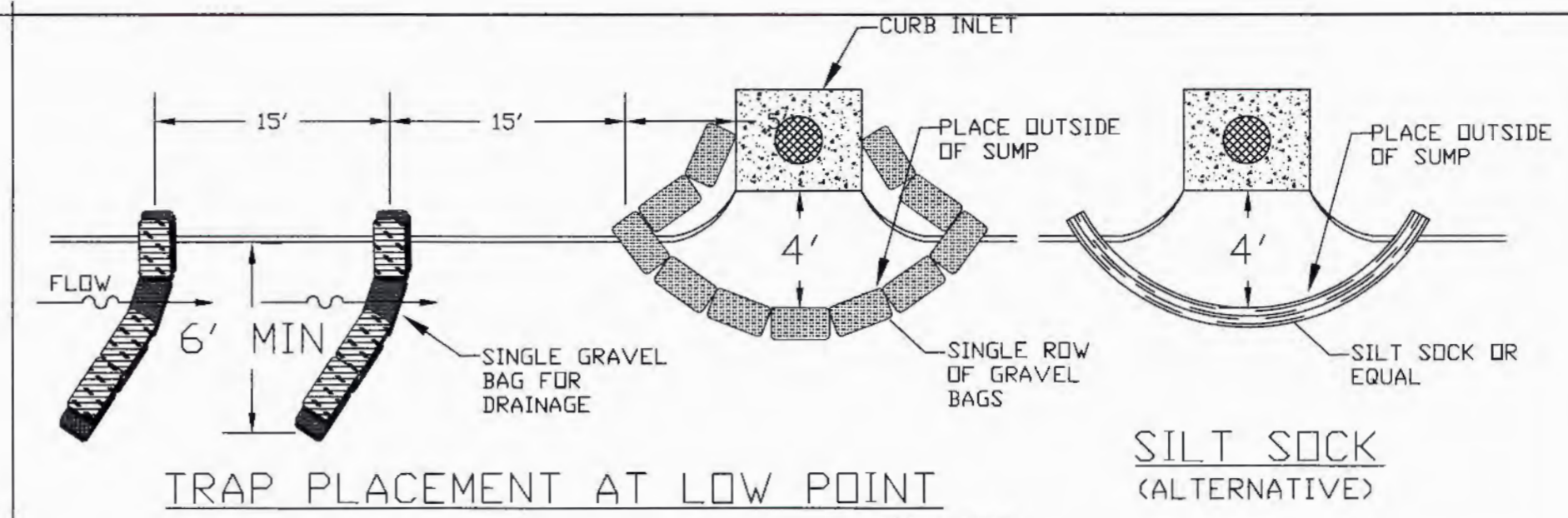
- SILT FENCE SHALL BE 24 INCHES HIGH.
- SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
- GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
- WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.



JOINING SECTIONS OF SILT FENCE

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

SILT FENCE INSTALLATION SHEET FLOW (ONLY)



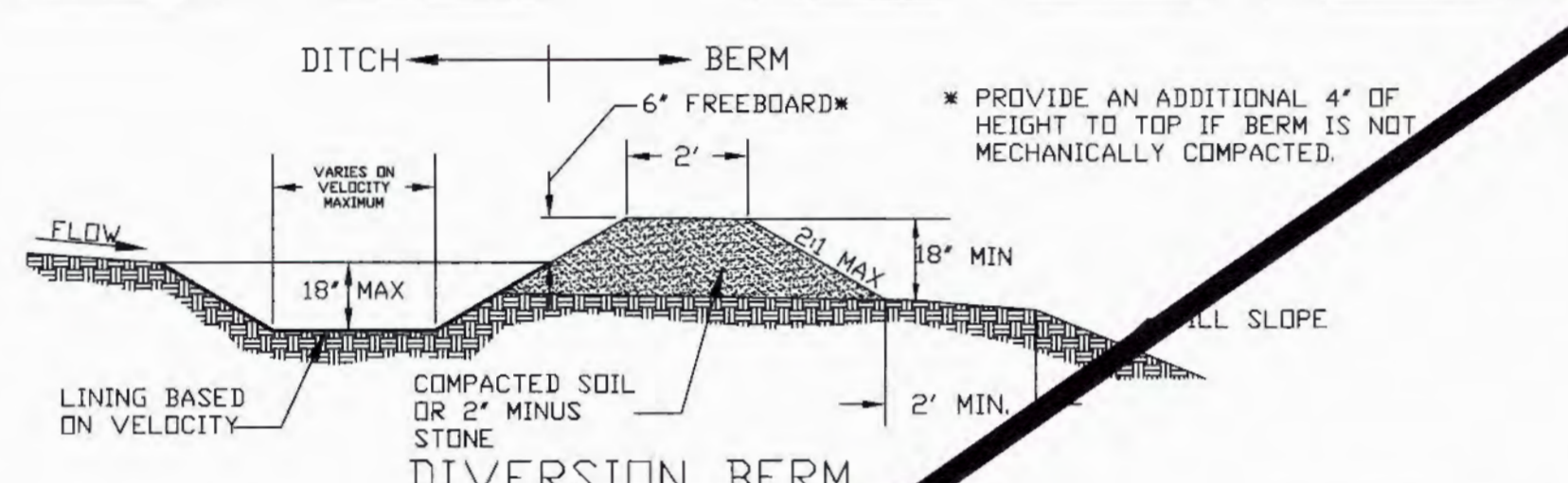
DESIGN CRITERIA

- MAXIMUM DRAINAGE AREA - 1 ACRE.
- PEAK RUNOFF SHALL BE 52 CFS BASED ON THE 6-MONTH STORM.
- STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

SPACING OF TRAPS

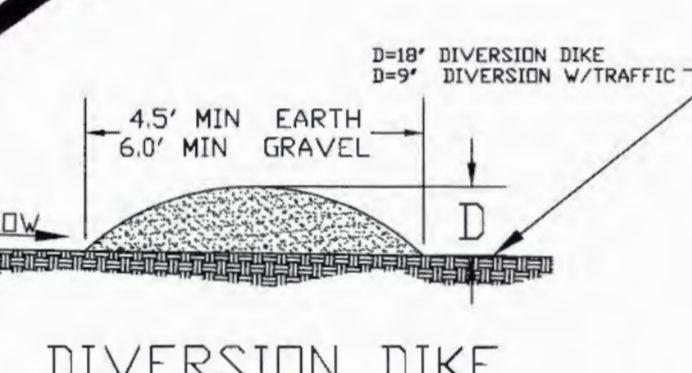
Gutter Slope	Spacing
15'	15'
20'	20'
15'	15'
3% MAX.	10'

CURB INLET PROTECTION

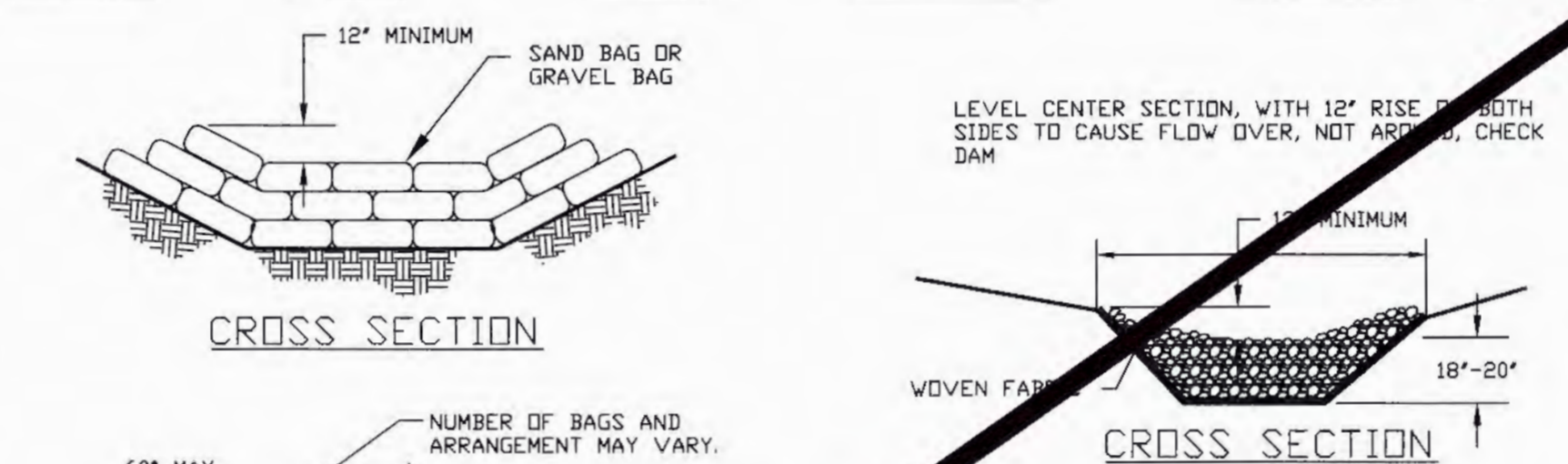


DESIGN CRITERIA

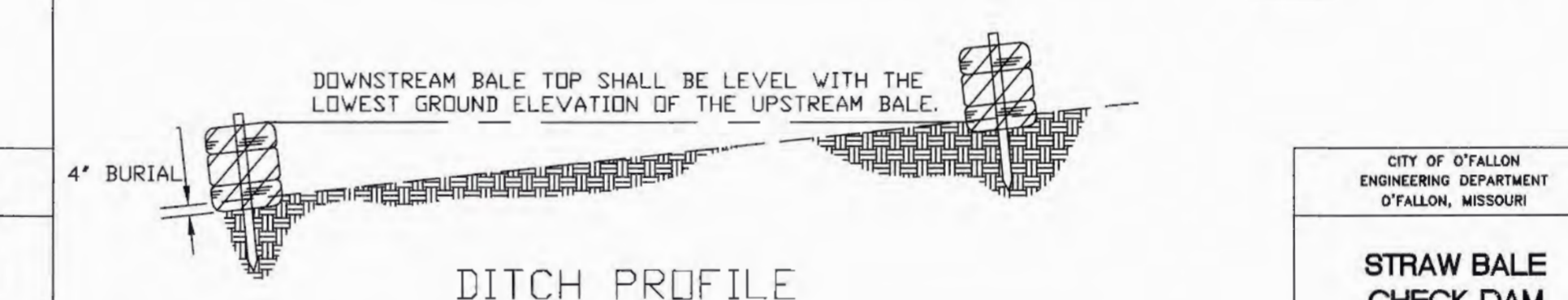
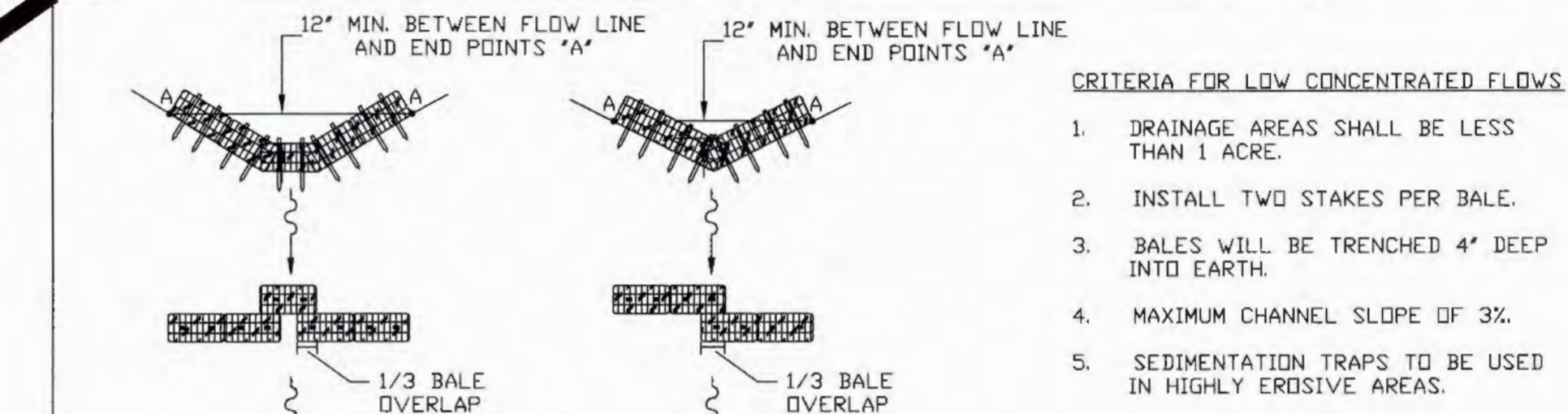
- DIVERSIONS SHALL BE USED FOR DRAINAGE AREAS ≤ 3 ACRES.
- DIVERSION CHANNELS SHALL BE DESIGNED TO CONVEY THE 6-MO STORM AT NON-EROSIVE VELOCITIES.
- CRITICAL LOCATIONS SHALL BE DESIGNED FOR THE 15YR / 20MIN. STORM.
- MAXIMUM CHANNEL SLOPE IS 3% WITHOUT CHECK DAMS.
- SWALE SEDIMENT TRAPS ARE TO BE USED IN HIGHLY ERODIBLE AREAS.
- CHANNELS SHALL BE PROTECTED USING APPROPRIATE CHANNEL LINERS.
- CHANNEL OUTLETS MUST BE STABILIZED.
- STORM SEWERS MAY BE USED IN LIEU OF OPEN CHANNELS.



DIVERSION BERMS + DIKES



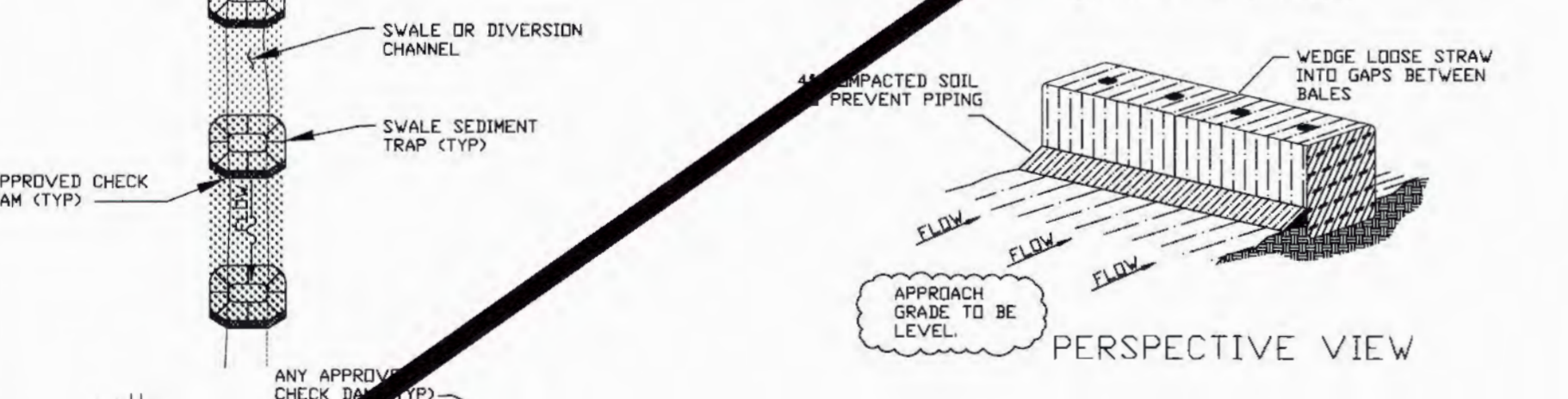
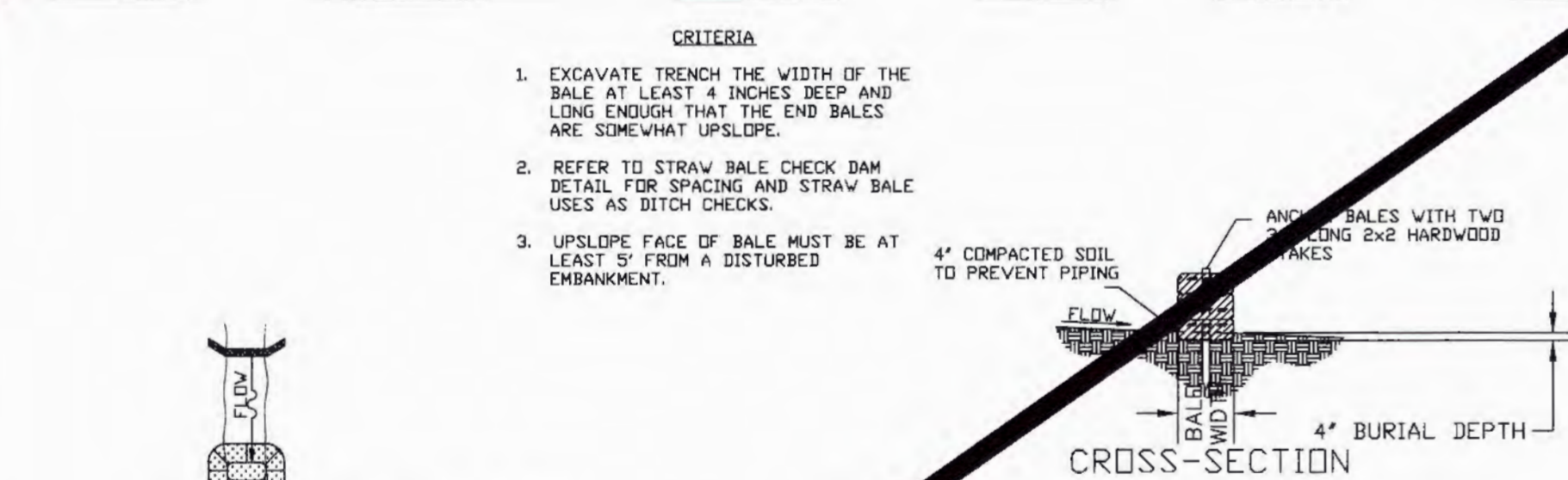
CHECK DAMS



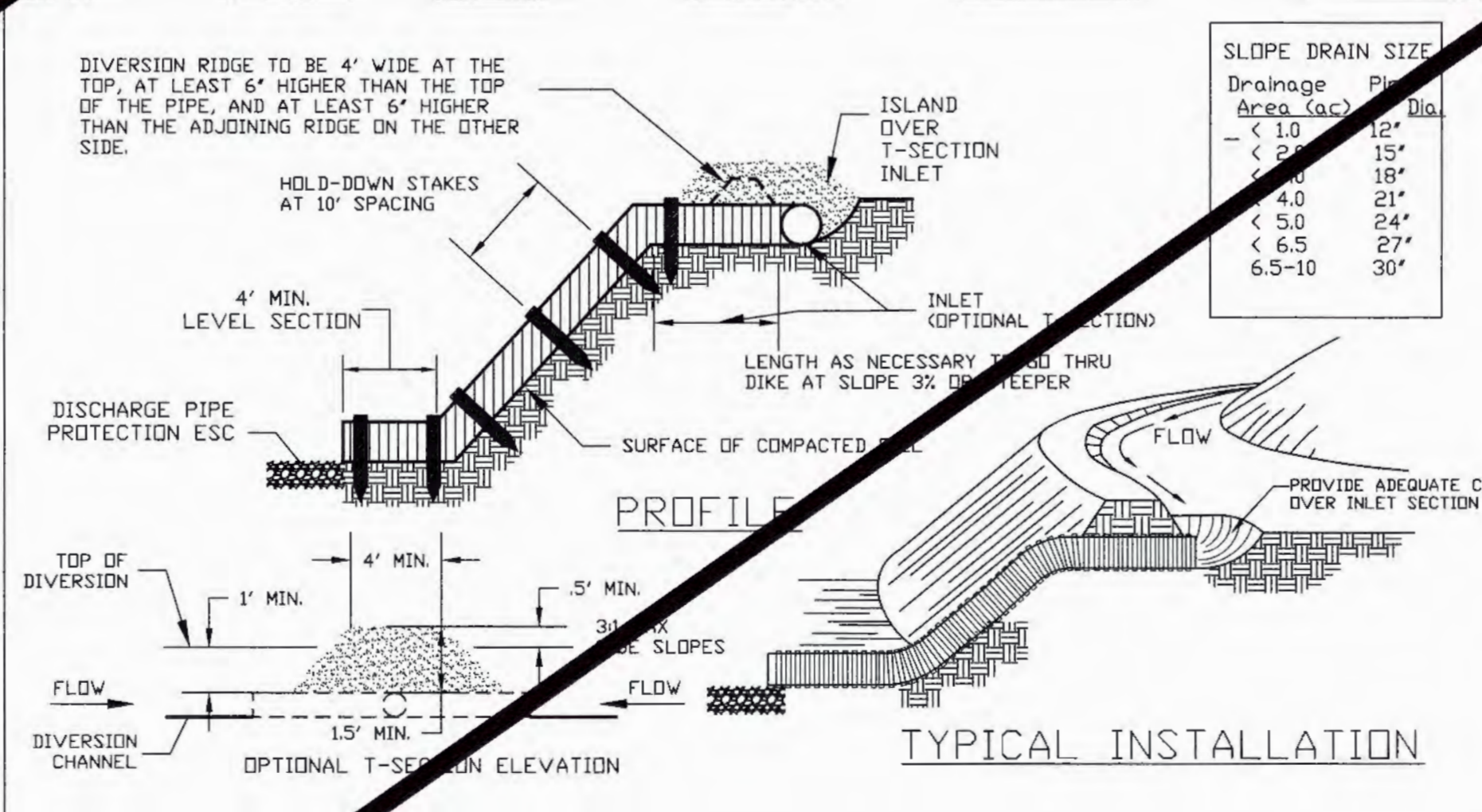
CHECK DAM SPACING

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

STRAW BALE CHECK DAM



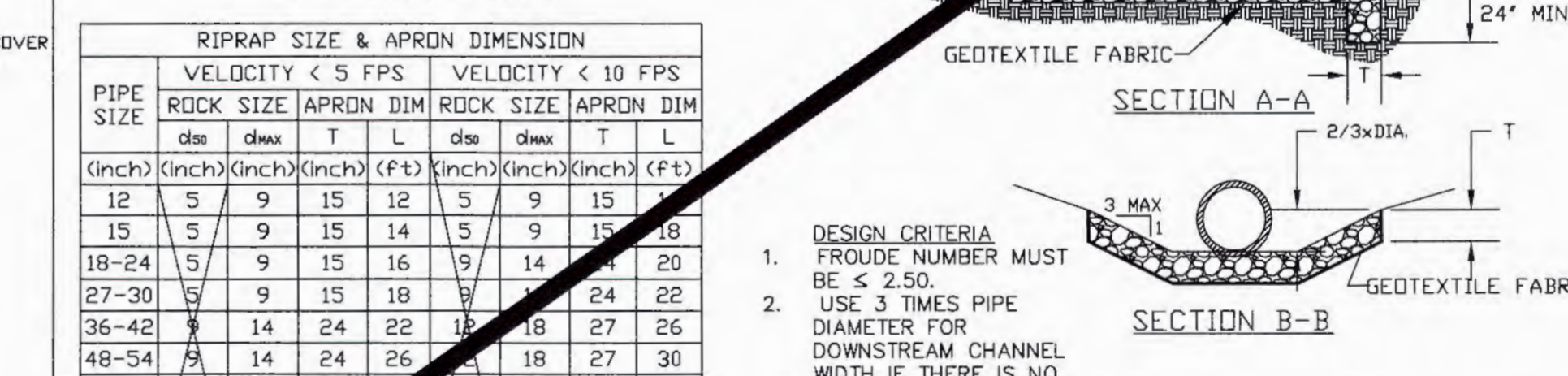
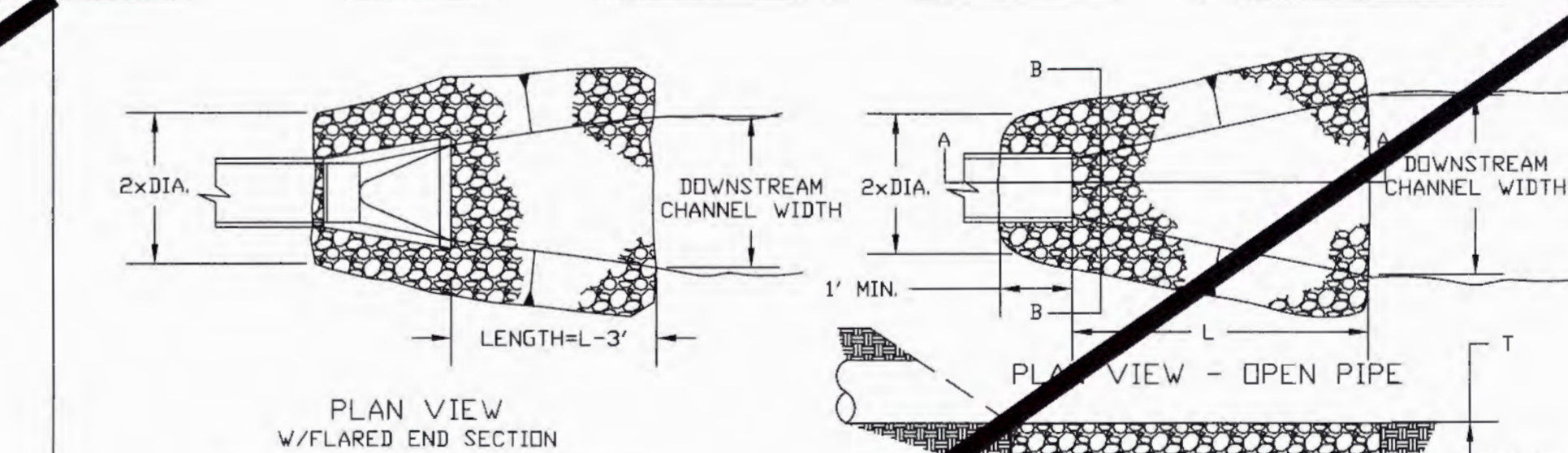
SWALE SEDIMENT TRAP STRAW BALE BARRIER INSTALLATION



NOTE:

- PIPE CAN BE CMP, PVC, FLEXIBLE TUBING, OR SIMILAR.
- THIS METHOD MUST BE USED IN CONJUNCTION WITH OTHER ESC DEVICES. THIS IS NOT A STAND ALONE CONTROL DEVICE.

TEMPORARY SLOPE DRAIN



RIPRAP SIZE & APRON DIMENSION

PIPE SIZE (inch)	VELOCITY < 5 FPS			VELOCITY < 10 FPS		
	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)
12	5	9	15	12	5	9
15	5	9	15	14	5	9
18-24	5	9	15	16	9	14
27-30	5	9	15	18	9	14
36-42	5	9	15	24	18	18
48-54	5	9	15	26	18	27
60-66	12	18	27	15	24	30
72-84	15	24	30	15	24	30
96	18	27	30	18	27	30

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.

TEMPORARY OUTLET PIPE DISCHARGE PROTECTION

PROJECT TITLE:
EL TIO PEPE MEXICAN RESTAURANT

**315 WEST TERRA LANE
O'FALLON, ST. CHARLES,
MISSOURI 63366**

ENGINEERING PLANNING SURVEYING
221 Point View Blvd.
St. Charles, MO 63301
636-928-5552
FAX 928-1718

DISCLAIMER OF RESPONSIBILITY
I hereby certify that the documents intended to be authenticated 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	REVISIONS
09/19/17	CITY COMMENTS
10/04/17	CITY COMMENTS

Developer / Owner:
WR HOLMAN, LLC
2 HICKORY HILL DRIVE
O'FALLON, MISSOURI 63366
(636) 734-1815

EROSION CONTROL DETAILS

P+Z No. 33-14.01
CUP No. 33-14.01.01
Page No. 8 of 18