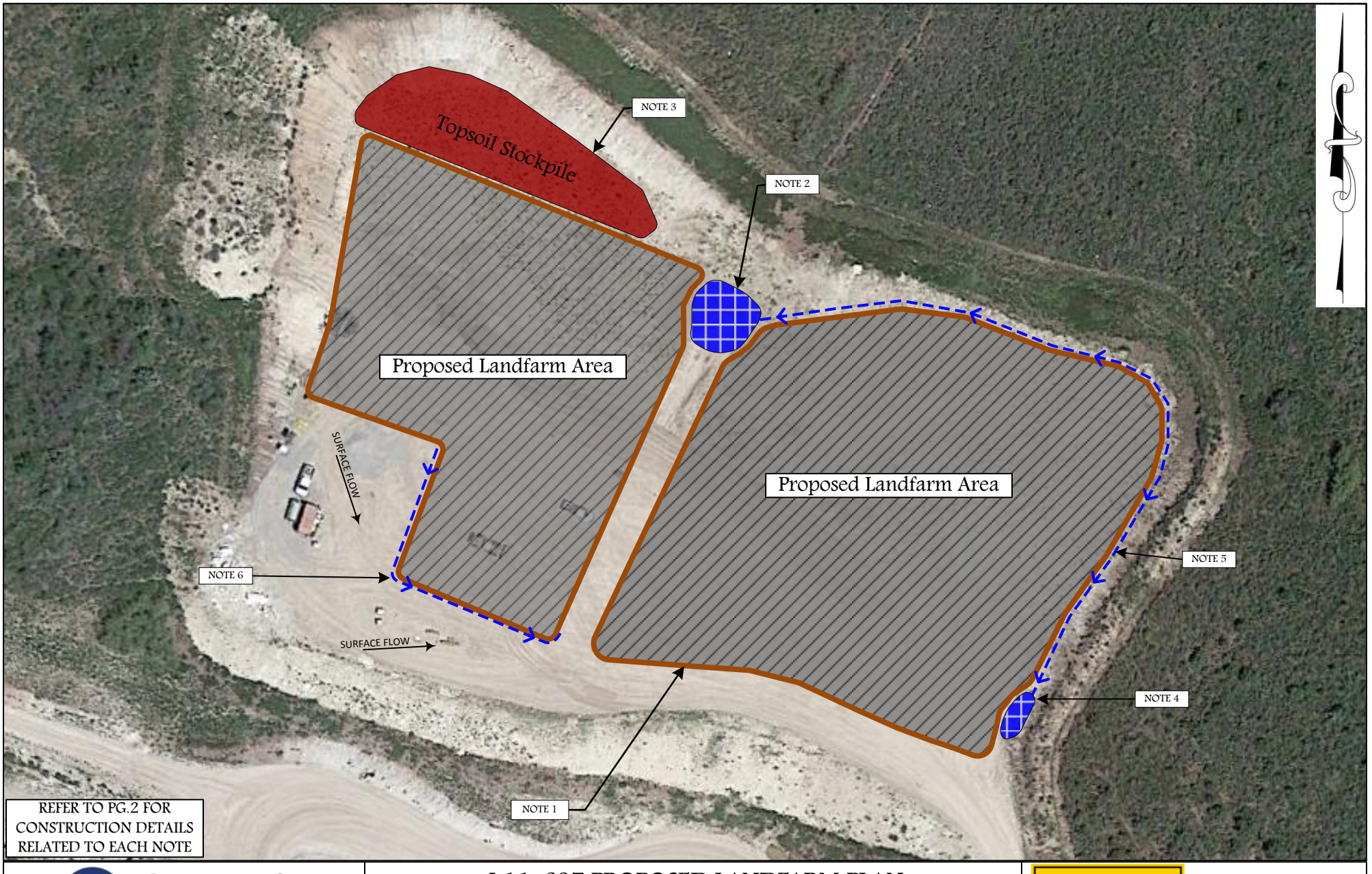

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I 11-697 PROPOSED LANDFARM PLAN

LINN Operating, Inc

NE SE, Section 11, Township 6S, Range 97W
Garfield County, CO

Drafted by: B.J.Russell

Date: 08/09/2016

LINN Energy
235 Callahan Avenue
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I 11 697 LANDFARM EXPANSION PROJECT NOTES

1) **NOTE 1:** LANDFARM MATERIAL WILL BE CONTAINED BY A COMPACTED EARTHEN BERM CONSTRUCTED FROM NON-CONTAMINATED SOILS WITH A MINIMUM HIEGHT OF 2' (See figure B-1 on pg. 3 for construction details)

2) **NOTE 2:** EXISTING SEDIMENT TRAP/POND RECONTOURED AND REDUCED TO ½ THE ORIGINAL CAPACITY/SIZE

3) **NOTE 3:** EXISTING TOPSOIL/MATERIAL FROM SEDIMENT TRAPS WILL BE RECONTOURED INTO A NEAT STOCKPILE AT THE TOE OF THE CUT SLOPE.

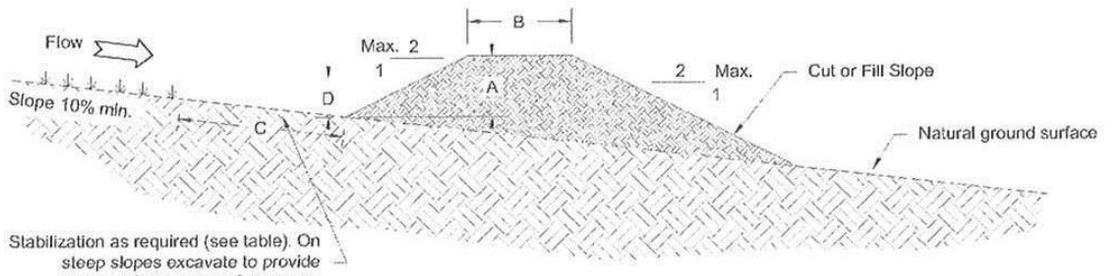
4) **NOTE 4:** ADDITIONAL SEDIMENT TRAP CONSTRUCTED TO CAPTURE AND TREAT RUN-OFF FROM DIVERSION DITCH (See figure SC-6-1 on pg. 5 for construction details).

5) **NOTE 5:** DIVERSION DITCH CONSTRUCTED AT THE TOE OF THE CUT SLOPE, IMMEDIATELY UPGRADIENT OF THE LANDFARM CONTAINMENT BERM (COMPACTED EARTHEN BERM). (See figure RC-10-3 on pg. 4 for construction details)

6) **NOTE 6:** DIVERSION DITCH CONSTRUCTED AT THE TOE OF THE LANDFARM CONTAINMENT BERM (COMPACTED EARTHEN BERM) TO CONVEY STORMWATER RUN-OFF FROM WELL PAD SURFACE (See figure RC-10-3 on pg. 4 for construction details).

Figure B-1
Berm Installation

TYPE A - GENERAL SITE PERIMETER INSTALLATION

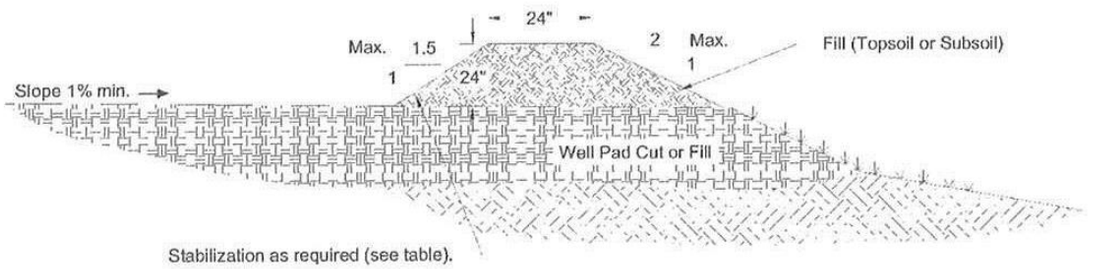


	BERM A (<5 ac)	BERM B (5-10 ac)
A - BERM HEIGHT	18 in.	36 in.
B - BERM WIDTH	24 in.	36 in.
C - FLOW WIDTH	48 in.	60 in.
D - FLOW DEPTH	8 in.	15 in.

Note: Slope berm 0.5% to 20% to stabilize outlet.

NOT TO SCALE

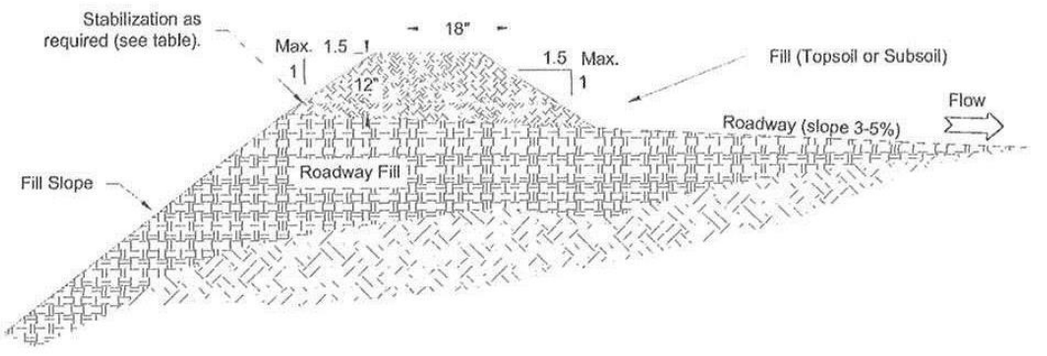
TYPE B - WELL PAD PERIMETER INSTALLATION



Note: Slope berm 0.5% to 10% to detention pond.

NOT TO SCALE

TYPE C - ROADSIDE INSTALLATION



NOT TO SCALE

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I 11-697 PROPOSED LANDFARM PLAN

EARTHEN CONTAINMENT BERM DETAIL

LINN Energy

Figure RC-10-3
Permanent Diversion Ditch (with Adjoining Berm) Installation

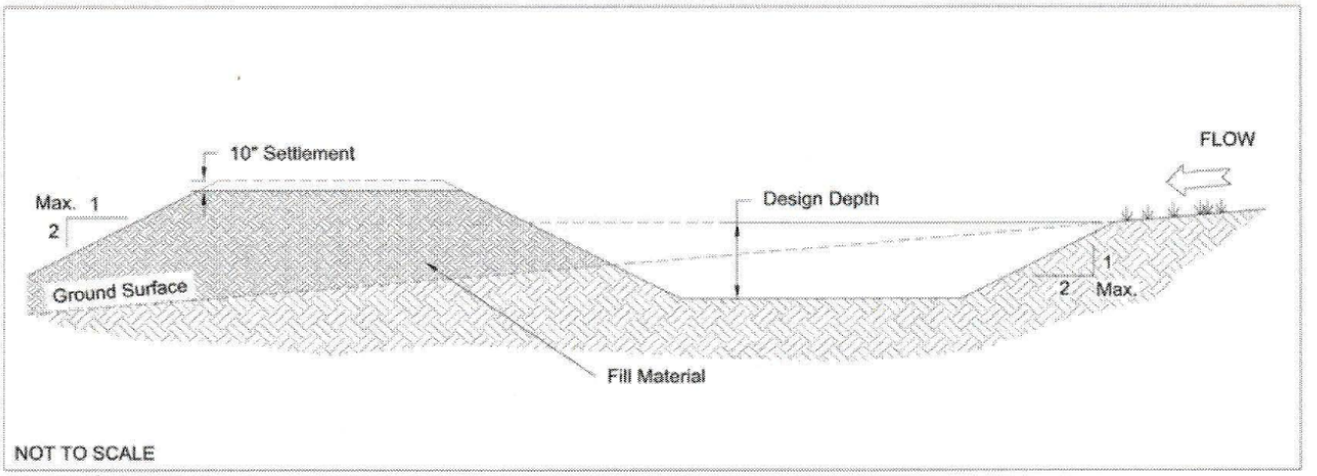

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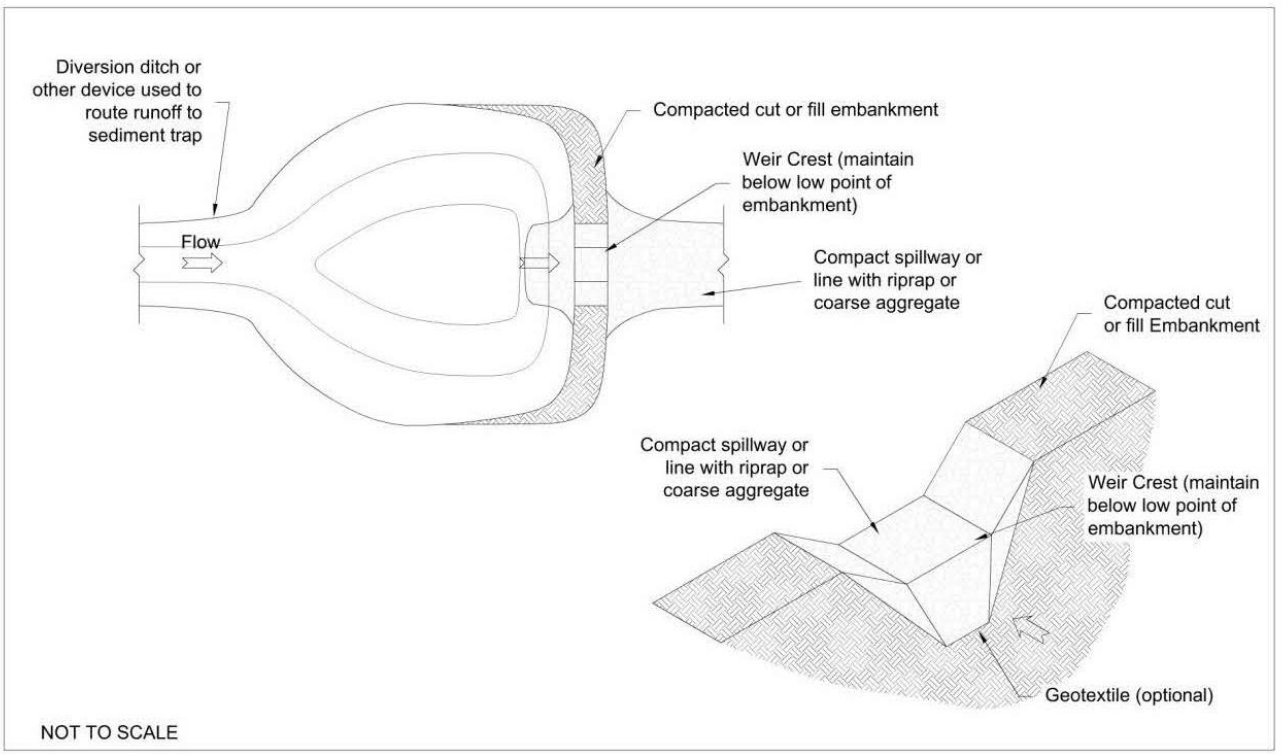
Figure SC-6-1
Sediment Trap Installation



Minimum trap volumes ($ft.^3$)

0.25 ac.	0.5 ac	0.75 ac.	1.0 ac.
(373 $ft.^3$)	(745 $ft.^3$)	(1118 $ft.^3$)	(1490 $ft.^3$)

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SEDIMENT TRAP CONSTRUCTION DETAIL

LINN Energy