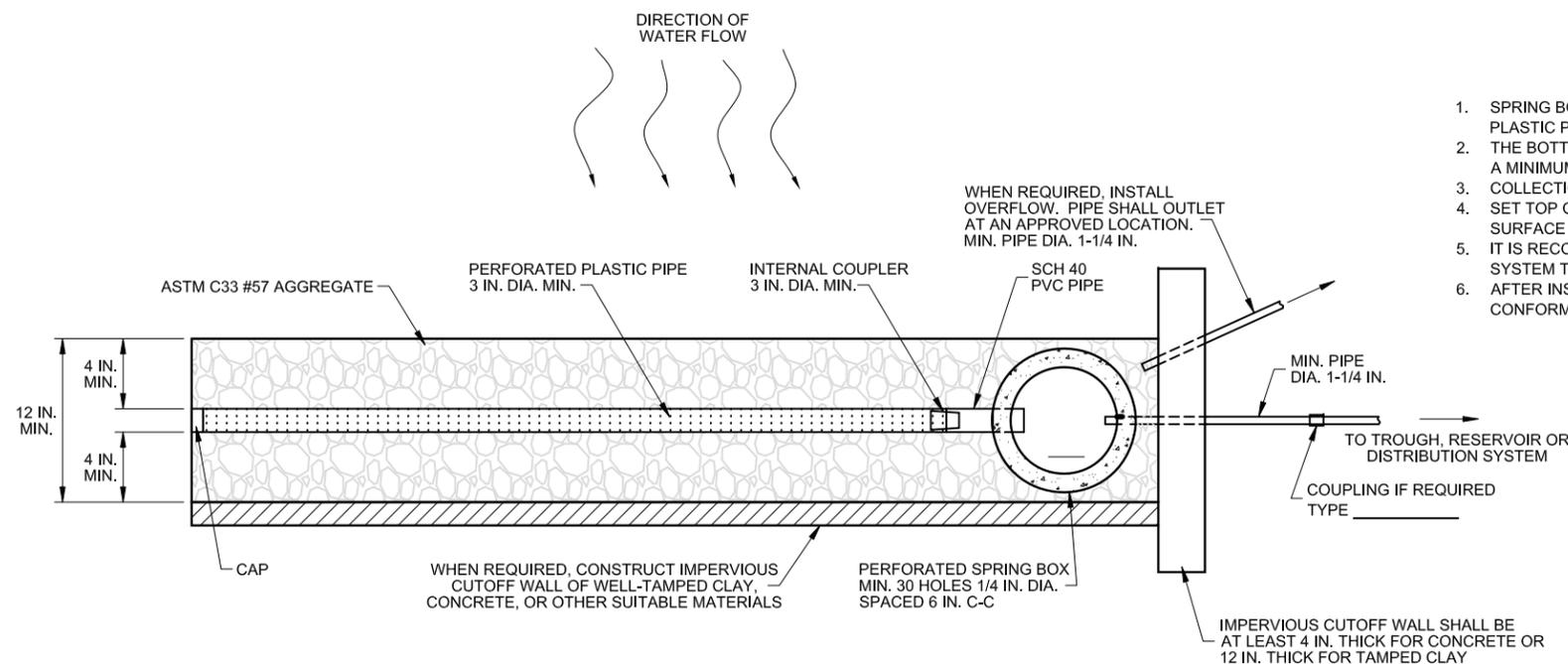


****CONSTRUCTION NOTES****

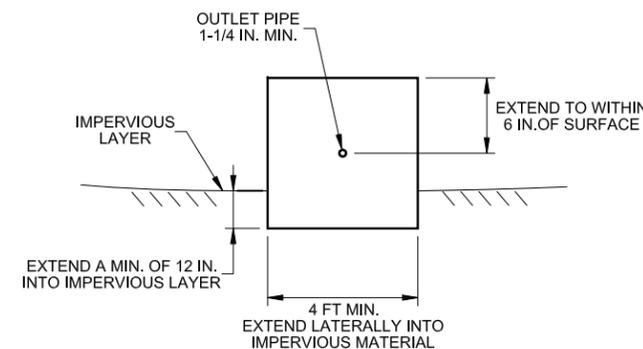
1. SPRING BOX SHALL BE OF DURABLE QUALITY MATERIAL - CONCRETE PIPE OR PLASTIC PIPE, AND HAVE A MINIMUM CROSS SECTIONAL AREA OF 1-1/2 SF.
2. THE BOTTOM OF THE SPRING BOX SHALL BE SEALED WITH CONCRETE WITH A MINIMUM THICKNESS OF 3 IN.
3. COLLECTION SYSTEM MUST BE PROTECTED FROM SURFACE WATER ENTRY.
4. SET TOP OF SPRING BOX ABOVE GROUND AND GRADE AREA TO DIVERT SURFACE RUNOFF AWAY FROM BOX.
5. IT IS RECOMMENDED TO INSTALL A FENCE AROUND SPRING DEVELOPMENT SYSTEM TO EXCLUDE LIVESTOCK.
6. AFTER INSTALLATION, SEED AND MULCH DISTURBED AREAS IN CONFORMANCE WITH CONSTRUCTION SPECIFICATION 706.

ACCEPTABLE CUTOFF WALL/OUTLET PIPES	
STEEL	
COPPER	
SCHEDULE 40 or 80 PVC	ASTM D 1785
SDR 26 PVC	ASTM D 2241
PE 3408 SDR11*	ASTM D 3350
COLLECTION TUBING	
PLASTIC	ASTM F 405

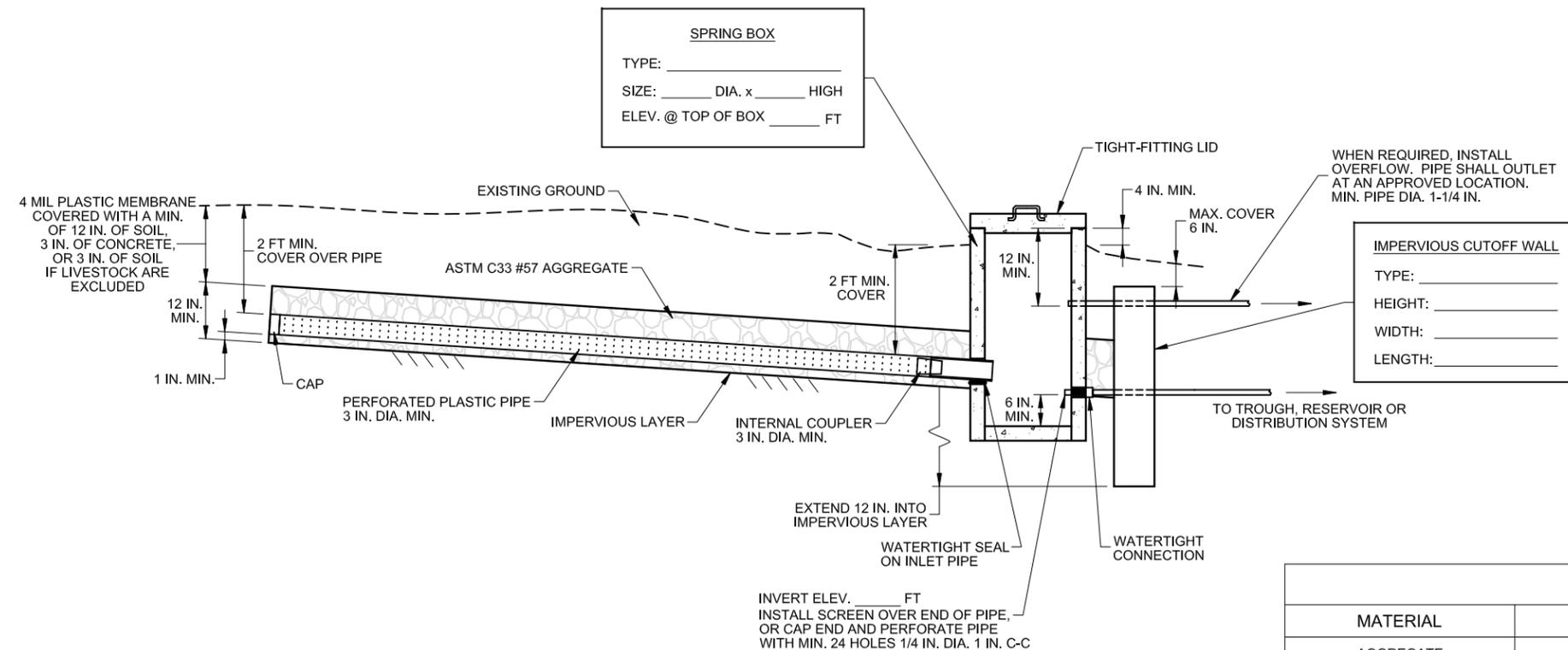
* TO BE USED IN CUTOFF WALLS CONSTRUCTED FROM MATERIALS OTHER THAN CONCRETE



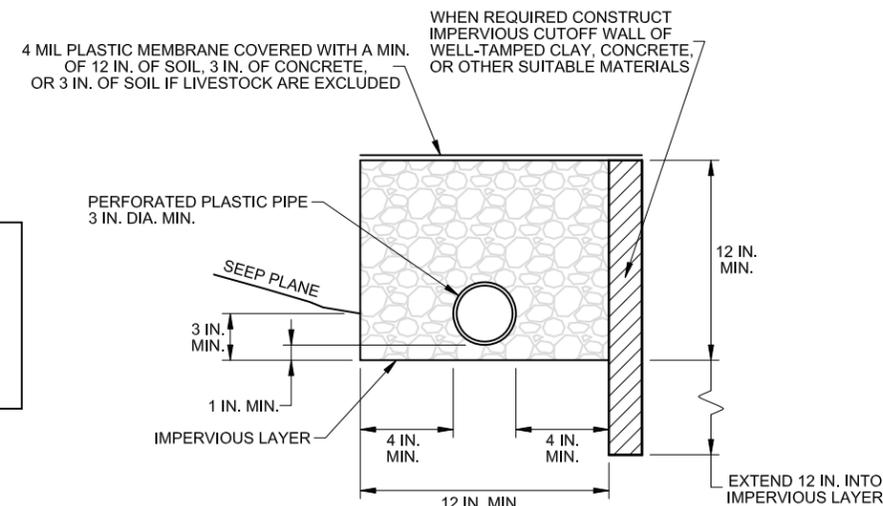
PLAN VIEW OF COLLECTION AREA



IMPERVIOUS CUTOFF WALL DETAIL



PROFILE OF COLLECTION AREA



COLLECTION TRENCH DETAIL

QUANTITIES

MATERIAL	TYPE	UNITS	ESTIMATED	AS-BUILT
AGGREGATE		TN		
COLLECTION PIPE (TUBING)		LF		
OUTLET PIPE		LF		
BAGGED CONCRETE		CF		
SPRING BOX W/LID		EA		
OVERFLOW PIPE		LF		

NOT TO SCALE

ENCLOSURE 30 2014/574 FIELD SHEETS 574 FIELD SHEETS REV. 08/2015.DWG

Date _____

Designed _____

Drawn _____

Checked _____

Approved _____

SPRING DEVELOPMENT
CUTOFF DOWNSTREAM OF SPRING BOX
FIELD SHEET
WEST VIRGINIA NRCS

United States
Department of
Agriculture

USDA

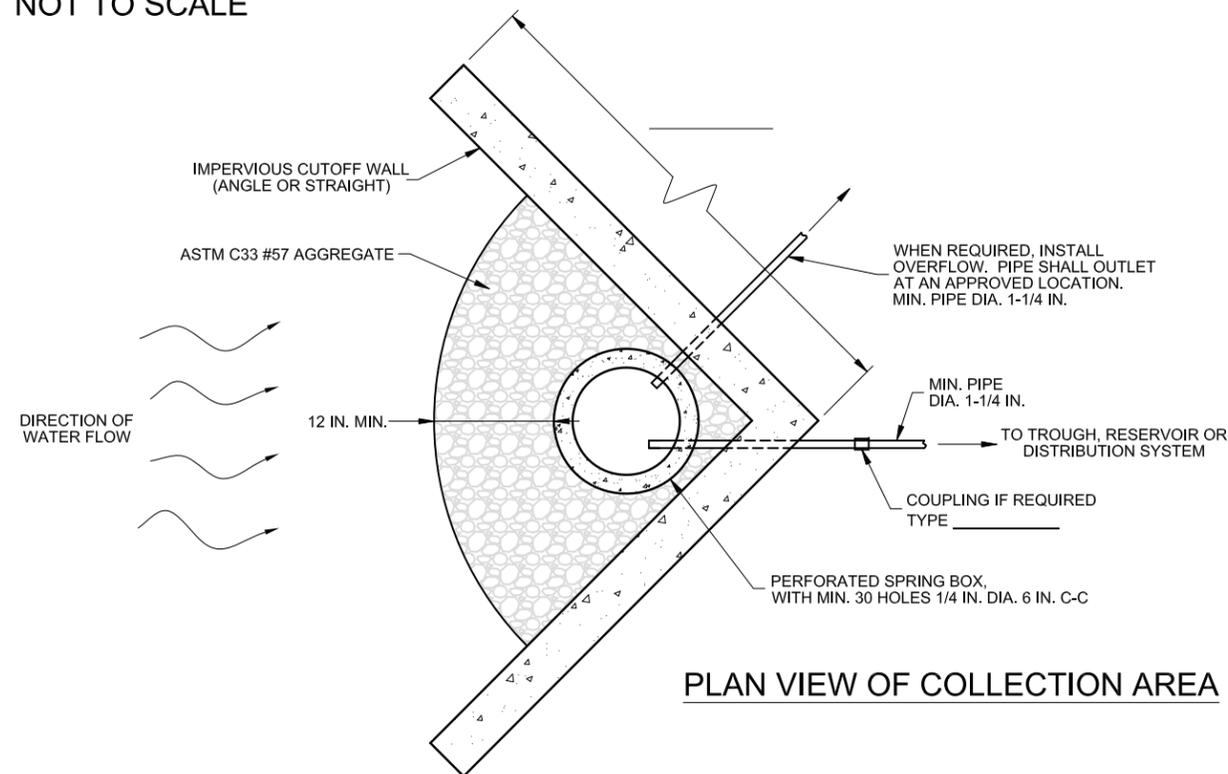
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Conservation Service

File No. _____

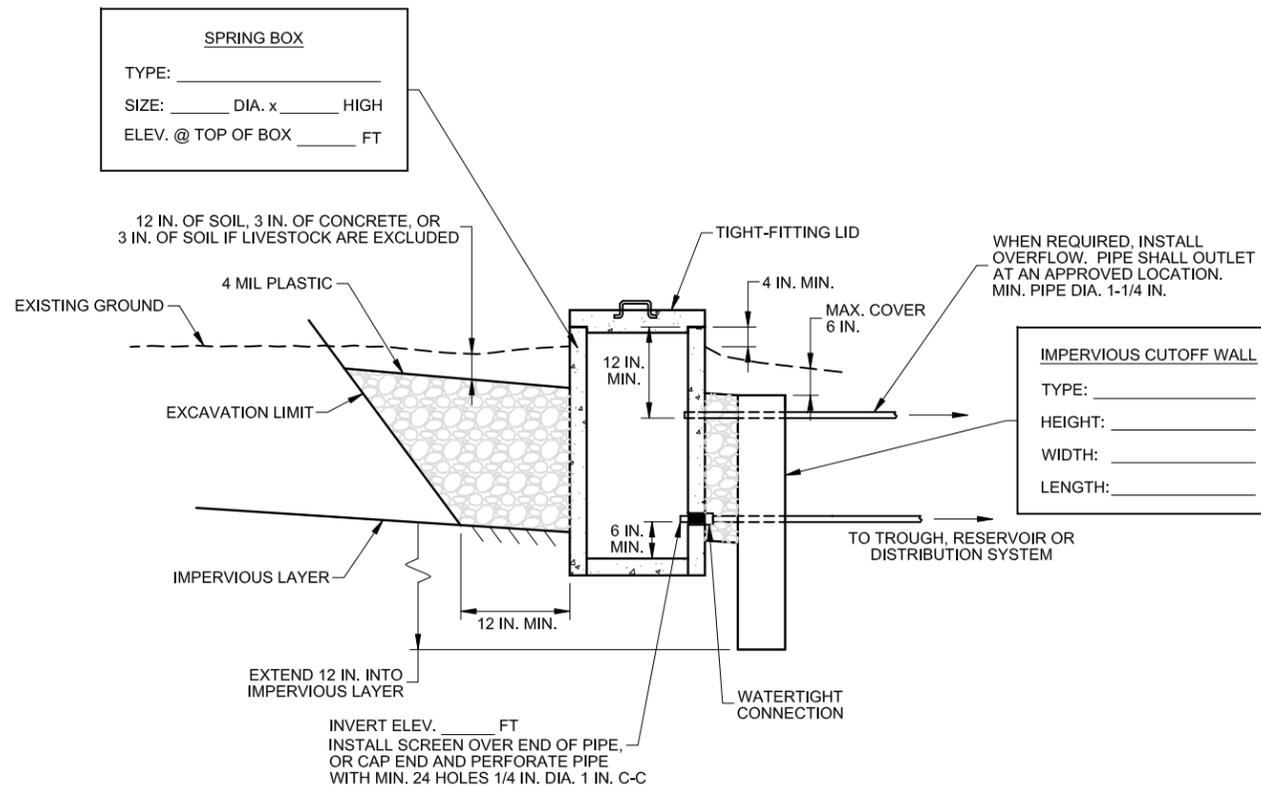
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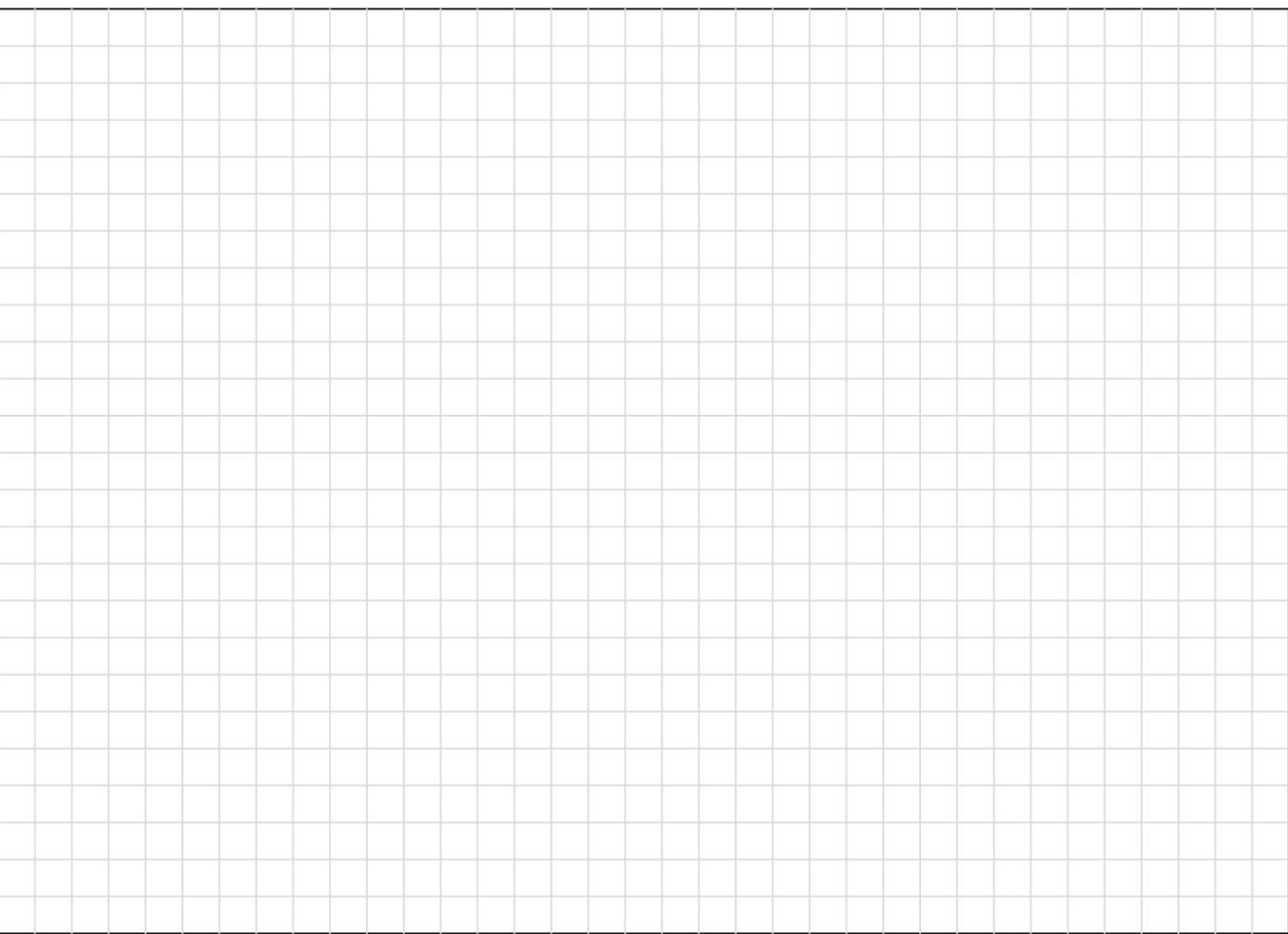
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PLAN VIEW OF COLLECTION AREA



PROFILE OF COLLECTION AREA



PLAN VIEW

ACCEPTABLE CUTOFF WALL/OUTLET PIPES

STEEL	
COPPER	
SCHEDULE 40 or 80 PVC	ASTM D 1785
SDR 26 PVC	ASTM D 2241
PE 3408 SDR11*	ASTM D 3350

* TO BE USED IN CUTOFF WALLS CONSTRUCTED FROM MATERIALS OTHER THAN CONCRETE

****CONSTRUCTION NOTES****

1. SPRING BOX SHALL BE OF DURABLE QUALITY MATERIAL - CONCRETE PIPE OR PLASTIC PIPE, AND HAVE A MINIMUM CROSS SECTIONAL AREA OF 1-1/2 SF.
2. THE BOTTOM OF THE SPRING BOX SHALL BE SEALED WITH CONCRETE WITH A MINIMUM THICKNESS OF 3 IN.
3. COLLECTION SYSTEM MUST BE PROTECTED FROM SURFACE WATER ENTRY.
4. SET TOP OF SPRING BOX ABOVE GROUND AND GRADE AREA TO DIVERT SURFACE RUNOFF AWAY FROM BOX.
5. IMPERVIOUS CUTOFF WALL SHALL BE AT LEAST 4 IN. THICK FOR CONCRETE OR 12 IN. THICK FOR TAMPED CLAY.
6. IT IS RECOMMENDED TO INSTALL A FENCE AROUND SPRING DEVELOPMENT SYSTEM TO EXCLUDE LIVESTOCK.
7. AFTER INSTALLATION, SEED AND MULCH DISTURBED AREAS IN CONFORMANCE WITH CONSTRUCTION SPECIFICATION 706.

QUANTITIES

MATERIAL	TYPE	UNITS	ESTIMATED	AS-BUILT
AGGREGATE		TN		
OUTLET PIPE		LF		
BAGGED CONCRETE		CF		
SPRING BOX W/LID		EA		
OVERFLOW PIPE		LF		

Date _____

Designed _____

Drawn _____

Checked _____

Approved _____

SPRING DEVELOPMENT
CUTOFF WALL W/NO COLLECTION LINE
FIELD SHEET
WEST VIRGINIA NRCS



File No. _____

Drawing No. _____

Sheet _____ of _____

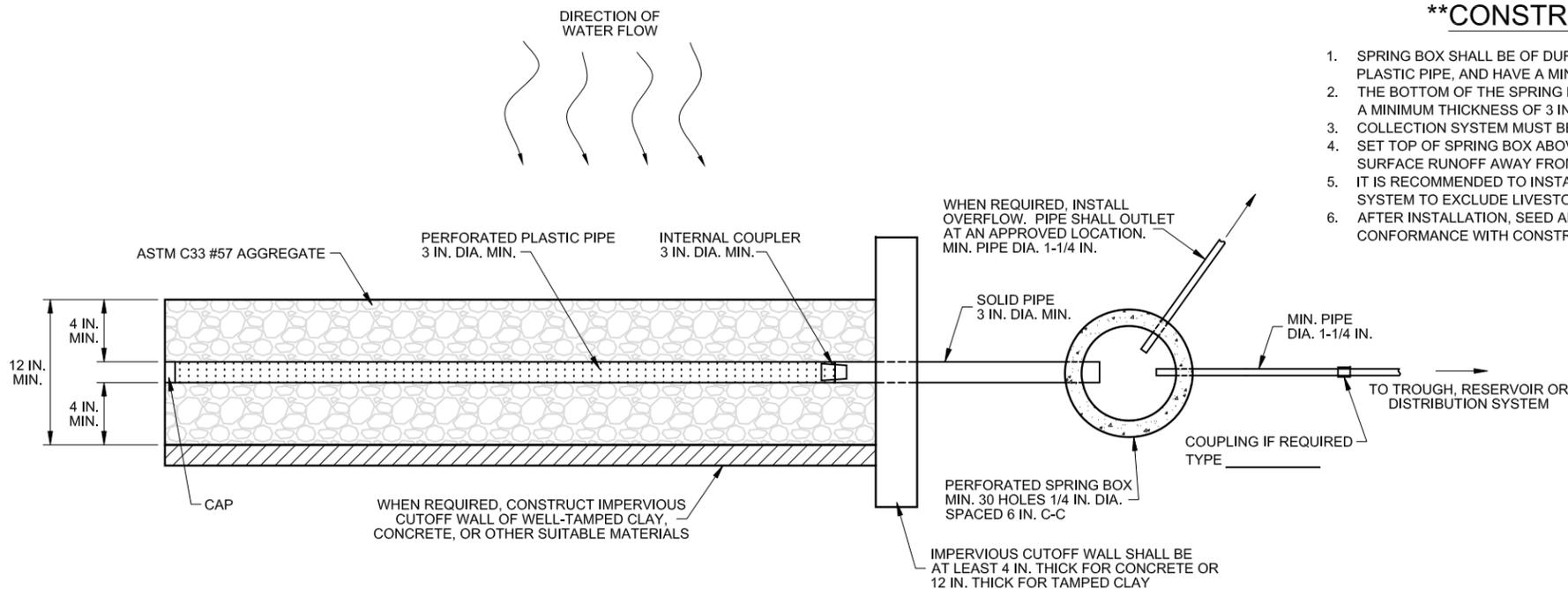
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****CONSTRUCTION NOTES****

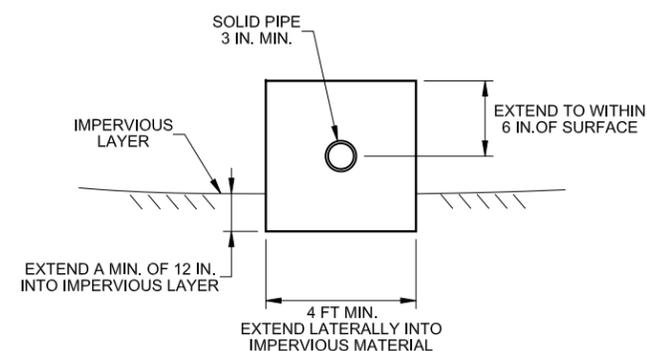
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COPPER	
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SDR 26 PVC	ASTM D 2241
PE 3408 SDR11*	ASTM D 3350
COLLECTION TUBING	
PLASTIC	ASTM F 405

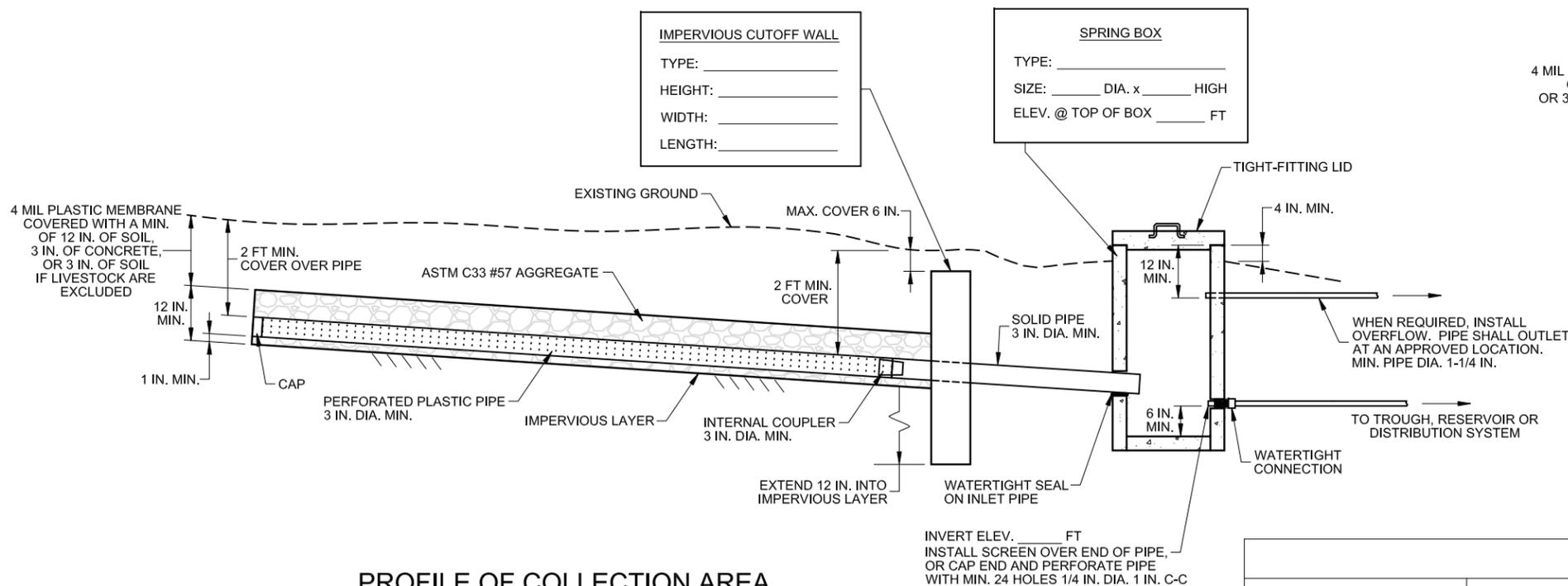
* TO BE USED IN CUTOFF WALLS CONSTRUCTED FROM MATERIALS OTHER THAN CONCRETE



PLAN VIEW OF COLLECTION AREA



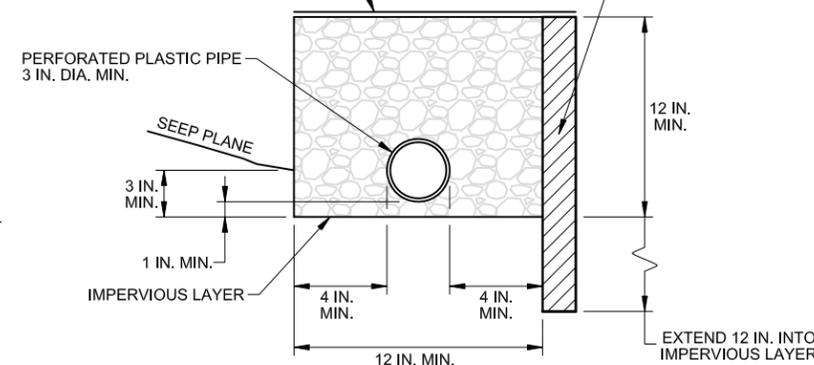
IMPERVIOUS CUTOFF WALL DETAIL



PROFILE OF COLLECTION AREA

WHEN REQUIRED CONSTRUCT IMPERVIOUS CUTOFF WALL OF WELL-TAMPED CLAY, CONCRETE, OR OTHER SUITABLE MATERIALS

4 MIL PLASTIC MEMBRANE COVERED WITH A MIN. OF 12 IN. OF SOIL, 3 IN. OF CONCRETE, OR 3 IN. OF SOIL IF LIVESTOCK ARE EXCLUDED



COLLECTION TRENCH DETAIL

QUANTITIES

MATERIAL	TYPE	UNITS	ESTIMATED	AS-BUILT
AGGREGATE		TN		
COLLECTION PIPE (TUBING)		LF		
OUTLET PIPE		LF		
BAGGED CONCRETE		CF		
SPRING BOX W/LID		EA		
OVERFLOW PIPE		LF		

Date _____

Designed _____

Drawn _____

Checked _____

Approved _____

SPRING DEVELOPMENT
CUTOFF UPSTREAM OF SPRING BOX
FIELD SHEET
WEST VIRGINIA NRCS



File No. _____

Drawing No. _____

Sheet _____ of _____

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