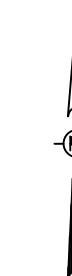


# LAKEVIEW CIRCLE DRIVE STORMWATER IMPROVEMENT PROJECT

## TOWN OF LAKE GEORGE, WARREN COUNTY, NY



**LOCATION MAP**  
SCALE: 1"=1000'

11/13/18

INDEX OF DRAWINGS				
PAGE NO.	REV	SHEET NO.	DATE	DESCRIPTION
1	0	G001	11/13/18	TITLE SHEET
2	0	C100	11/13/18	OVERALL CONCEPT PLAN
3	0	C130	11/13/18	LIVE STAKES & BANK PROTECTION IMPROVEMENTS
4	0	C131	11/13/18	DRYWELL, CATCH BASIN & HYDRODYNAMIC UNITS PLAN
5	0	C132	11/13/18	HEADWALL DESIGN
6	0	SD1	11/13/18	SITE DETAILS

**SITE CIVIL ENGINEER AND LANDSCAPE ARCHITECT:**

CHAZEN ENGINEERING, LAND SURVEYING &  
LANDSCAPE ARCHITECTURE CO., D.P.C.  
20 ELM STREET (SUITE 110), GLENS FALLS NY 12801  
PHONE: (518) 812-0513

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rev.	date	description
2	4/15/2019	REVISED PER ACQE PERMIT LETTER
1	3/12/2018	REVISED PER ACQE PERMIT LETTER

LAKEVIEW CIRCLE STORMWATER PROJECTS

**TITLE SHEET**

LAKE GEORGE, WARREN COUNTY, NEW YORK

designed	checked
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date	scale
01/30/19	NTS
project no.	
91803.03	
sheet no.	
<b>G001</b>	



- IMPROVEMENT 11  
BROOK DRIVE  
CHANNEL STABILIZATION. (2) SD-1
- IMPROVEMENT 10  
REPLACE EXISTING CATCH BASIN  
WITH CATCH BASIN (1). (3) SD-1
- IMPROVEMENT 4  
DEER RUN ROAD  
ROADSIDE DRAINAGE  
CHANNEL STABILIZATION. (2) SD-1
- IMPROVEMENT 2  
SUMMIT DRIVE DRYWELLS (3)  
AND HYDRODYNAMIC TREATMENT UNIT. (3) SD-1
- IMPROVEMENT 1  
ANTLER AVENUE (NORTH)  
ROADSIDE DRAINAGE  
CHANNEL STABILIZATION. (2) SD-1
- IMPROVEMENT 3  
DEER RUN AT ANTLER AVENUE  
HEADWALL STABILIZATION &  
INLET/OUTLET STABILIZATION. (1) SD-1, (7) SD-1
- IMPROVEMENT 8  
REPLACE EXISTING DRYWELL (1). (3) SD-1
- IMPROVEMENT 9  
BANK STABILIZATION. (2) SD-1

TAHOE RESORT  
BROOK OUTLET

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- Central NY Office:  
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Phone: (315) 221-1013

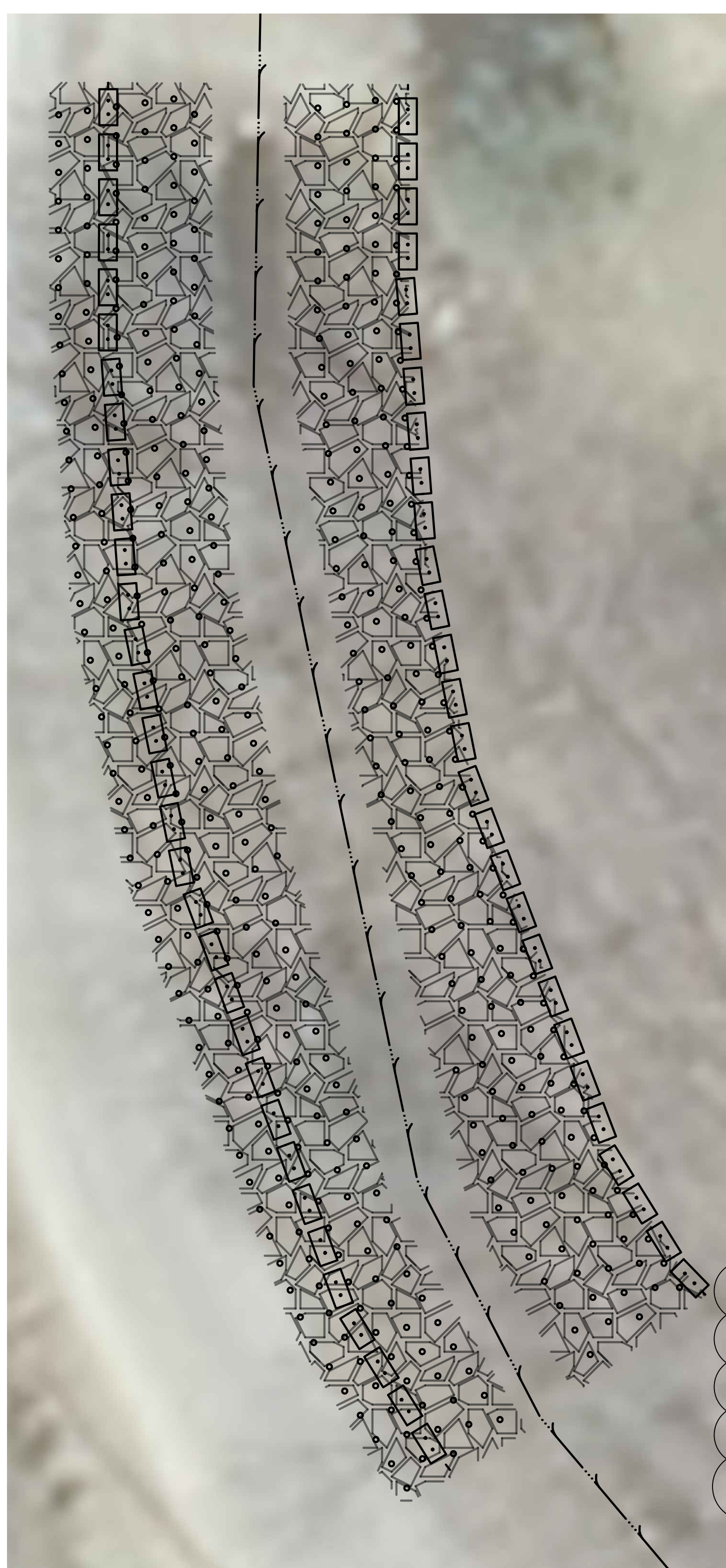
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1	3/02/19	REVIEW PER AEC PERMIT LETTER	

**OVER ALL CONCEPT PLAN  
LAKEVIEW CIRCLE STORMWATER IMPROVEMENTS PROJECTS  
TOWN OF LAKE GEORGE, WARREN COUNTY, NY**

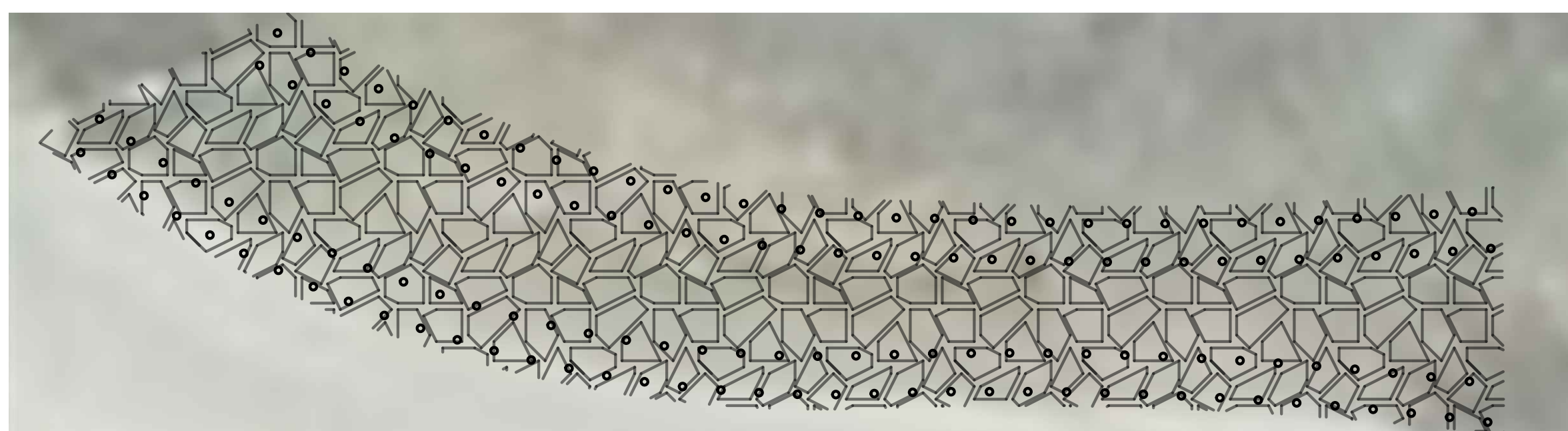
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DATE	SCALE
01/30/19	1"=100'
PROJECT NO.	
91803.03	
SHEET NO.	
<b>C100</b>	

**SITE LEGEND:**

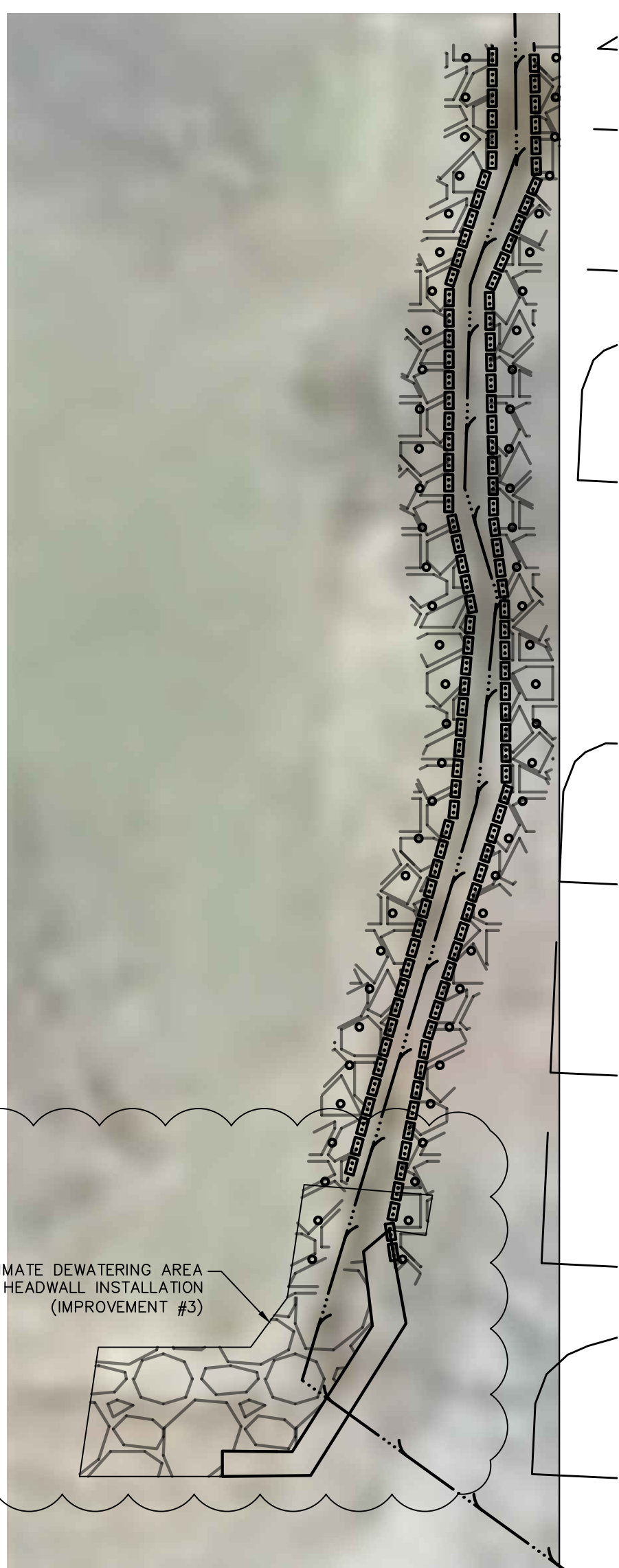
-  LIVE STAKE
-  RIP RAP
-  SILT SOCKS (GROSOX)



**1 IMPROVEMENT 9**  
SCALE: 1" = 10'

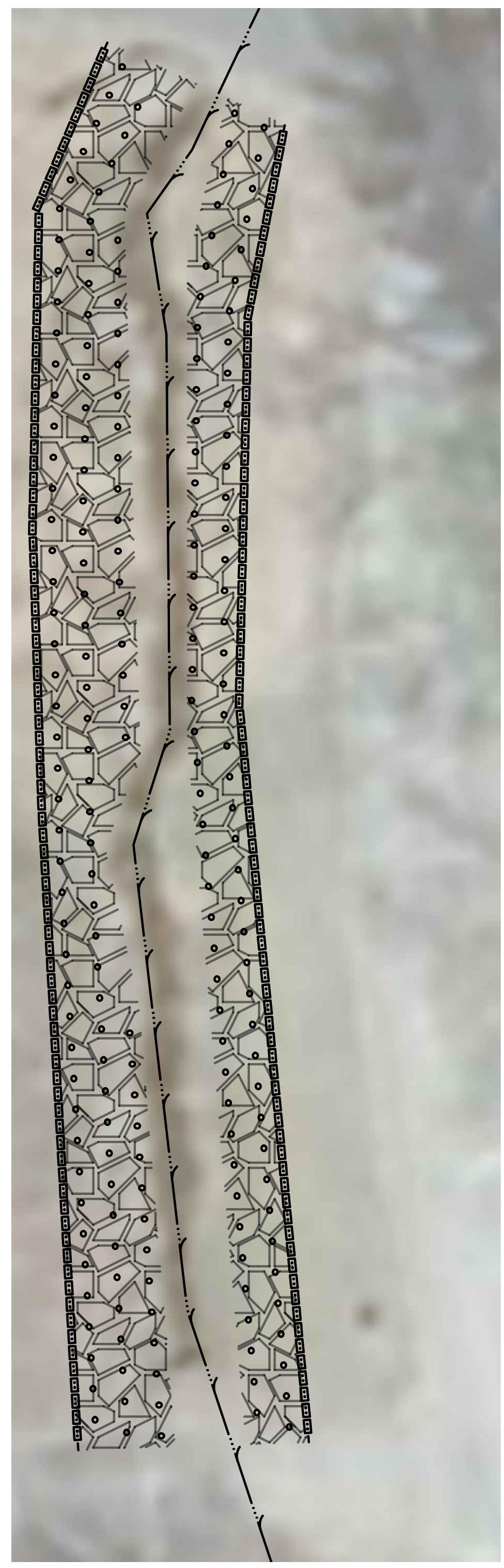


**2 IMPROVEMENT 1**  
SCALE: 1" = 10'



**3 IMPROVEMENT 3**  
SCALE: 1" = 10'

APPROXIMATE DEWATERING AREA FOR HEADWALL INSTALLATION (IMPROVEMENT #3)



**4 IMPROVEMENT 11**  
SCALE: 1" = 10'

IMPROVEMENT NUMBER	NUMBER OF LIVE STAKES
1	144
4	64
9	466
11	206
<b>TOTAL NUMBER NEEDED</b>	<b>880</b>

**5 LIVE STAKE SCHEDULE**  
SCALE: NOT TO SCALE

EXCAVATION TO OCCUR IN THE SUMMER MONTHS WHEN STREAM CHANNELS ARE DRY. ALTHOUGH IT IS HIGHLY UNLIKELY, DEPOSIT MATERIALS SHALL BE PUT DIRECTLY INTO A DUMP TRUCK AND HAULED AWAY THE SAME DAY.

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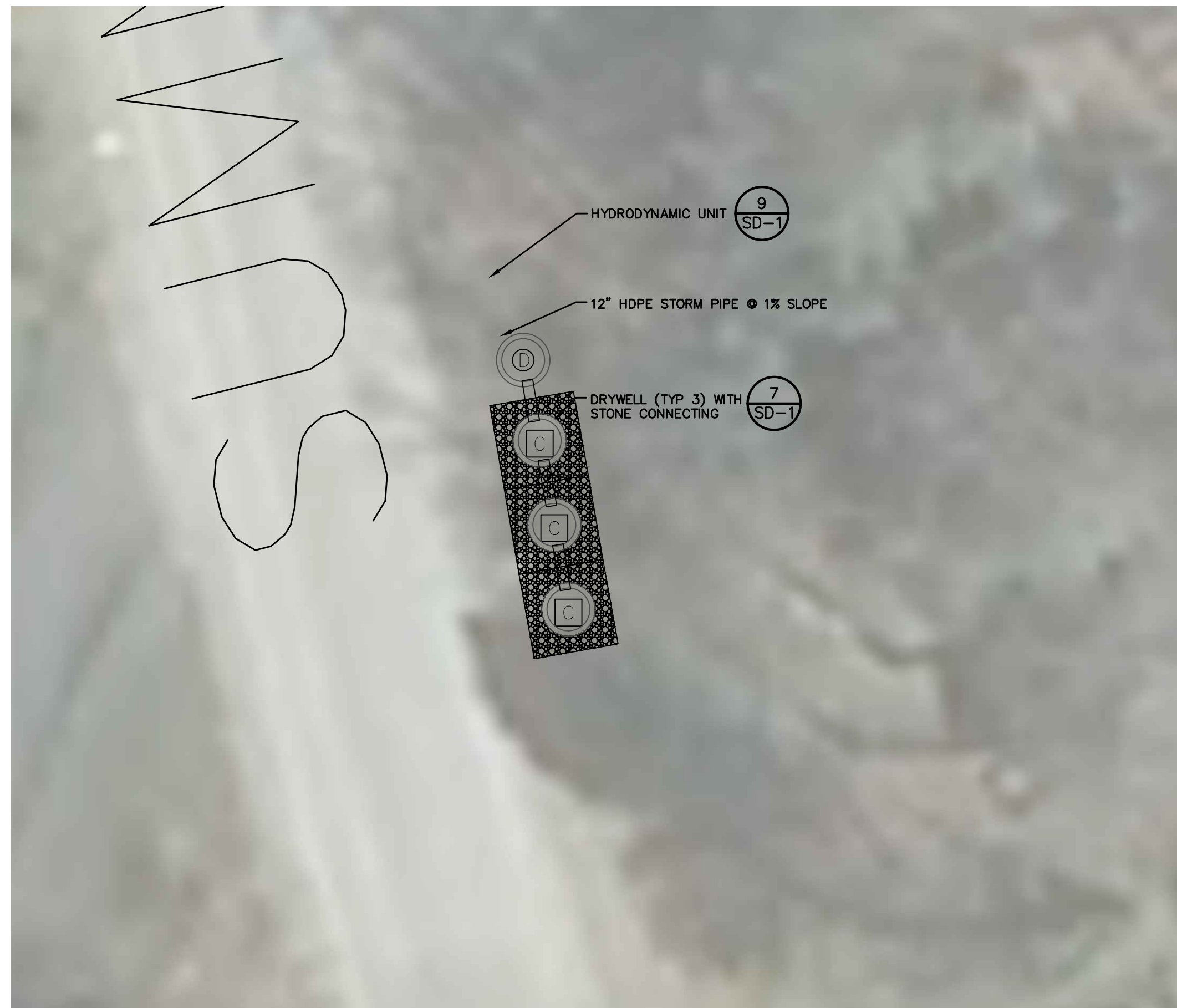
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LAKEVIEW CIRCLE STORMWATER PROJECTS

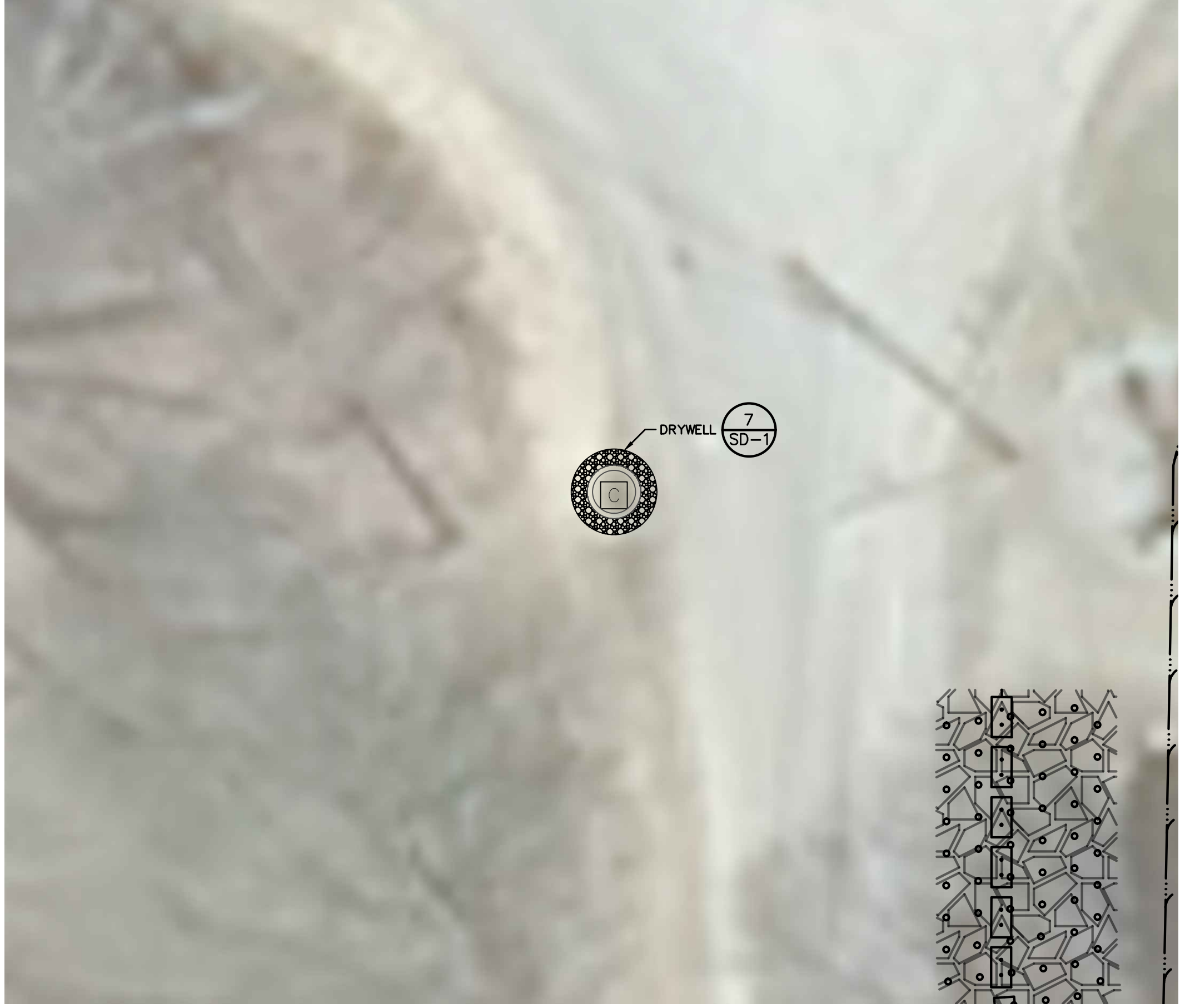
**LIVE STAKES & BANK PROTECTION IMPROVEMENTS**

LAKE GEORGE, WARREN COUNTY, NEW YORK

designed	checked
ZFB	AS NOTED
date	scale
01/30/19	AS NOTED
project no.	
91803.03	
sheet no.	
	<b>C130</b>



1 IMPROVEMENT 2  
SCALE: 1"=10'

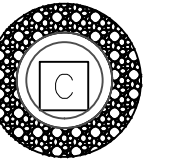
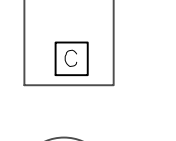



2 IMPROVEMENT 8  
SCALE: 1"=10'



3 LAKEVIEW/PINE CATCH BASIN  
SCALE: 1"=10'

SITE LEGEND:

-  DRYWELL
-  CATCH BASIN
-  HYDRODYNAMIC UNIT

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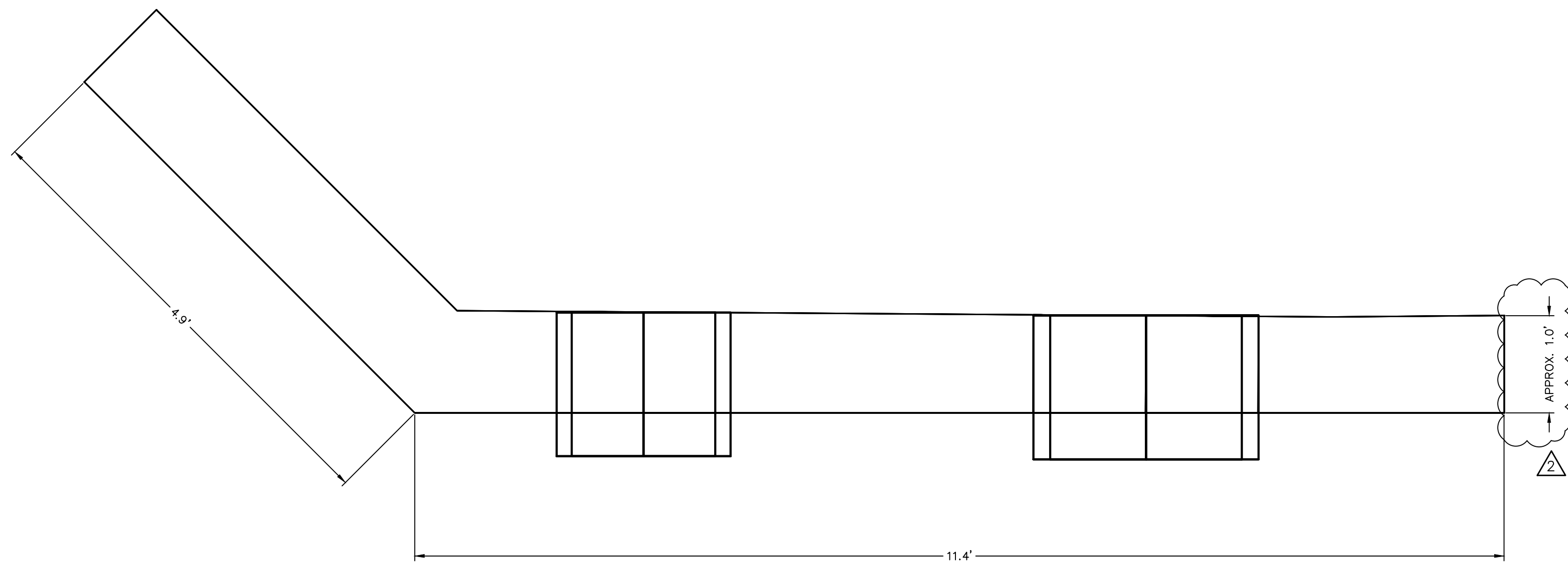
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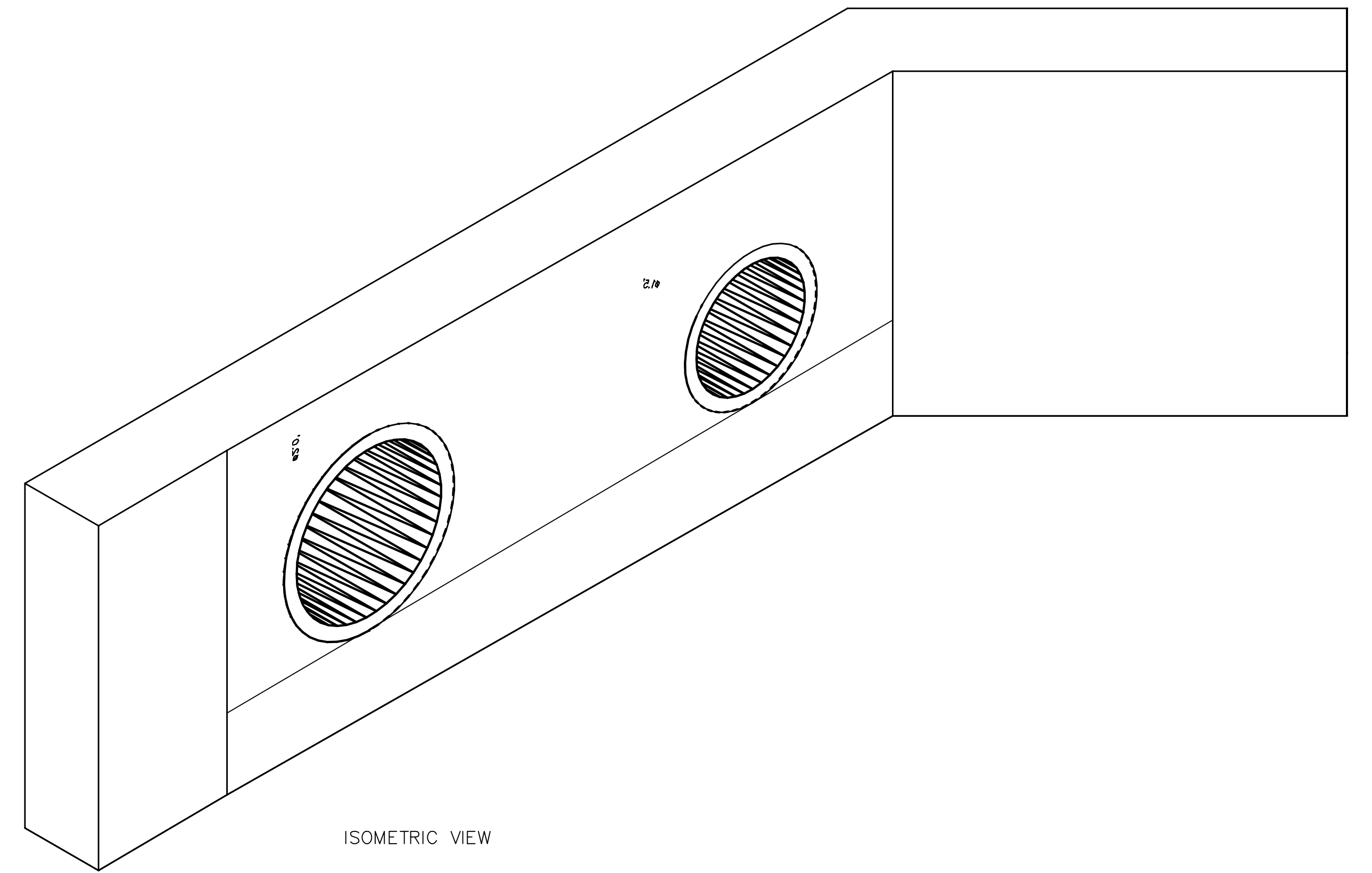
**DRYWELL, CATCH BASIN, & HYDRODYNAMIC UNIT PLANS**

LAKE GEORGE, WARREN COUNTY, NEW YORK

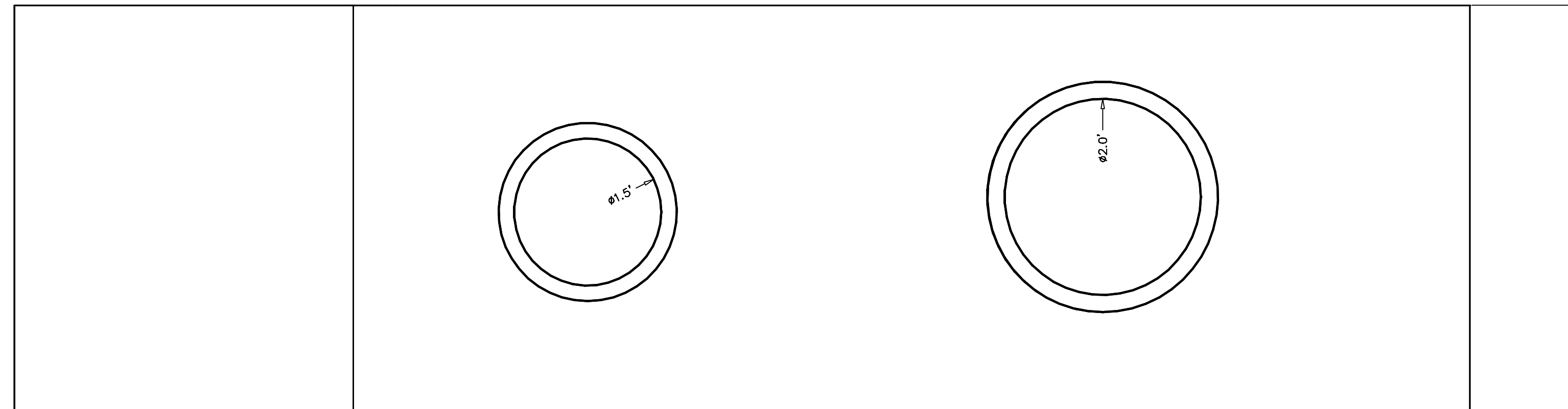
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TOP VIEW



ISOMETRIC VIEW



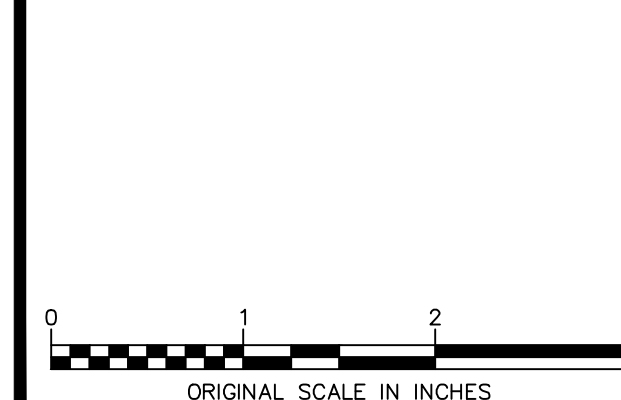
BACK VIEW

**NOTE:**

1. THIS SKETCH IS CONCEPTUAL IN NATURE AND ALL DIMENSIONS ARE SUBJECT TO CHANGE AS DESIGN PROGRESSES. THE HEADWALL IS TO BE CONSTRUCTED BY MUNICIPAL FORCES.
2. THE HEADWALL SHALL BE CAST IN A WATER TIGHT FORM.

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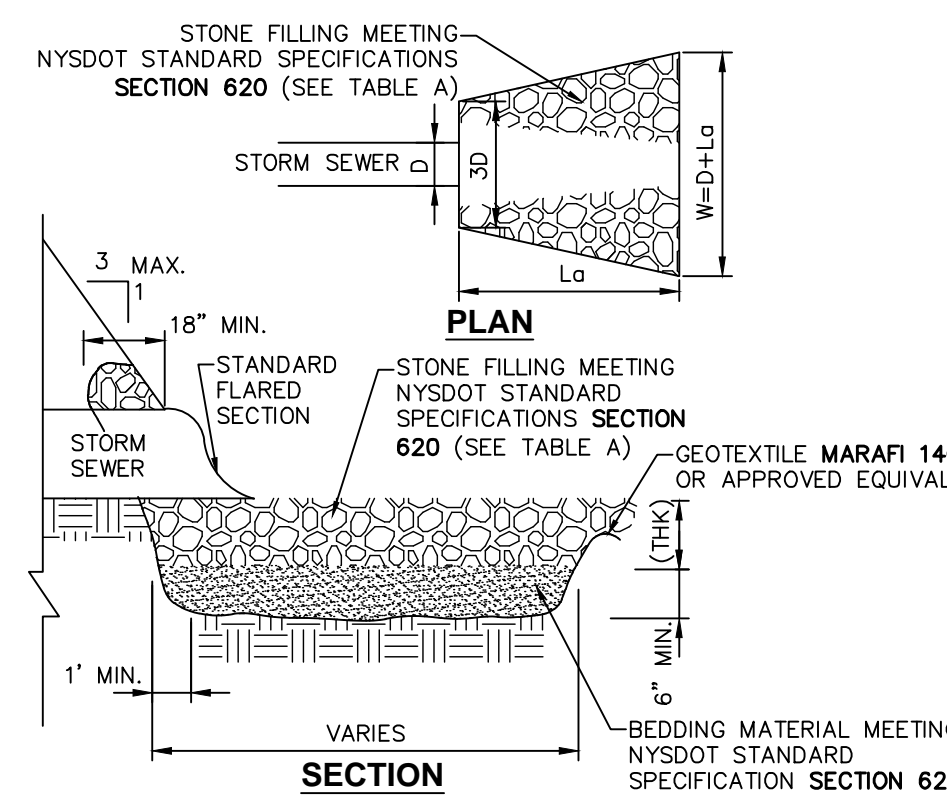
LAKEVIEW CIRCLE STORMWATER PROJECTS

**HEADWALL**

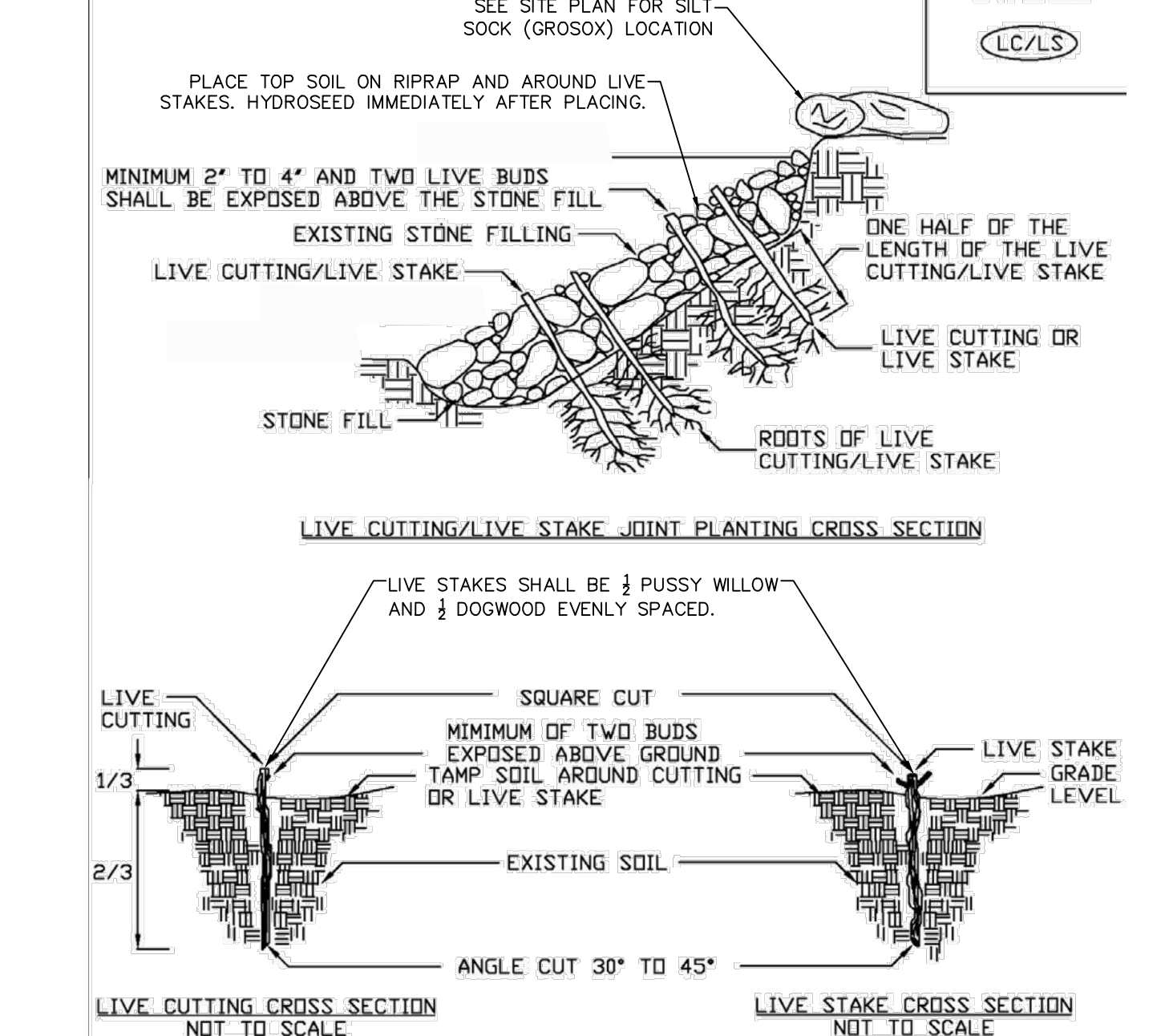
LAKE GEORGE, WARREN COUNTY, NEW YORK

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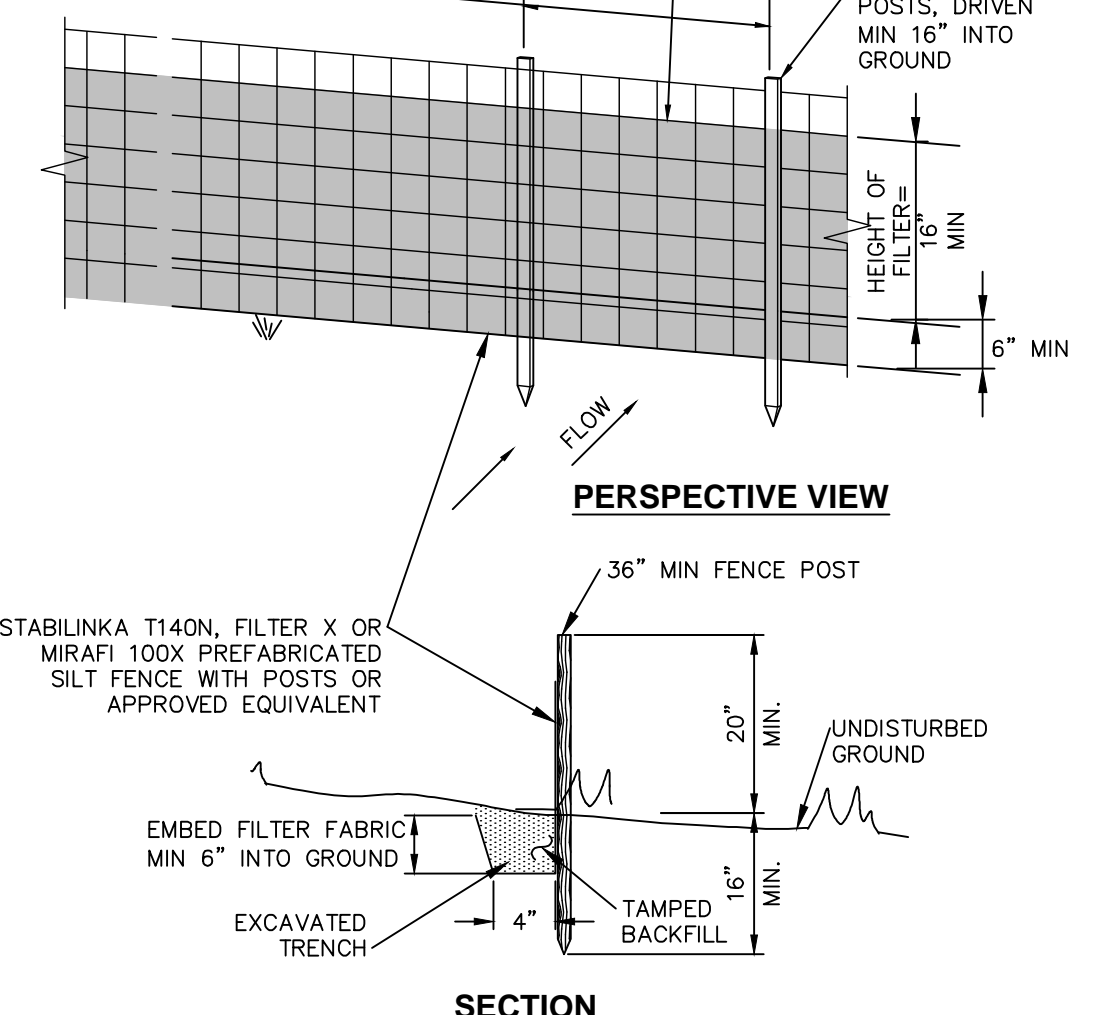
STONE APRON SIZING REQUIREMENT - TABLE "A"						
CULVERT DIA. (D)	CULVERT SLOPE, %	NYSDOT STANDARD STONE FILLING MATERIAL	d50	dMAX	MINIMUM APRON THICKNESS (IN)	MINIMUM OUTLET APRON LENGTH (FT)
12"	< 8	LIGHT	6"	9"	18	10
18"	8-10	MEDIUM	9"-12"	14"-18"	24	10
	< 4	LIGHT	6"	9"	18	10
	4-6	MEDIUM	9"-12"	14"-18"	24	12
	6-8	HEAVY	15"-18"	22"-27"	36	12
	8-10	HEAVY	15"-18"	22"-27"	36	18
24"	< 3	LIGHT	6"	9"	18	12
	3-4	MEDIUM	9"-12"	14"-18"	24	16
	4-8	HEAVY	15"-18"	22"-27"	36	24
30"	< 1	LIGHT	6"	9"	18	15
	1-2	MEDIUM	9"-12"	14"-18"	24	20
	2-4	HEAVY	15"-18"	22"-27"	36	25
	4-6	HEAVY	15"-18"	22"-27"	36	30
36"	< 2	MEDIUM	9"-12"	14"-18"	24	24
	2-3	HEAVY	15"-18"	22"-27"	36	30
	3-5	HEAVY	15"-18"	22"-27"	36	36
42"	< 1	MEDIUM	9"-12"	14"-18"	24	28
	1-2	HEAVY	15"-18"	22"-27"	36	35
	2-3	HEAVY	15"-18"	22"-27"	36	42
48"	< 1	MEDIUM	9"-12"	14"-18"	24	32
	1-2	HEAVY	15"-18"	22"-27"	36	40
	2-3	HEAVY	15"-18"	22"-27"	36	48



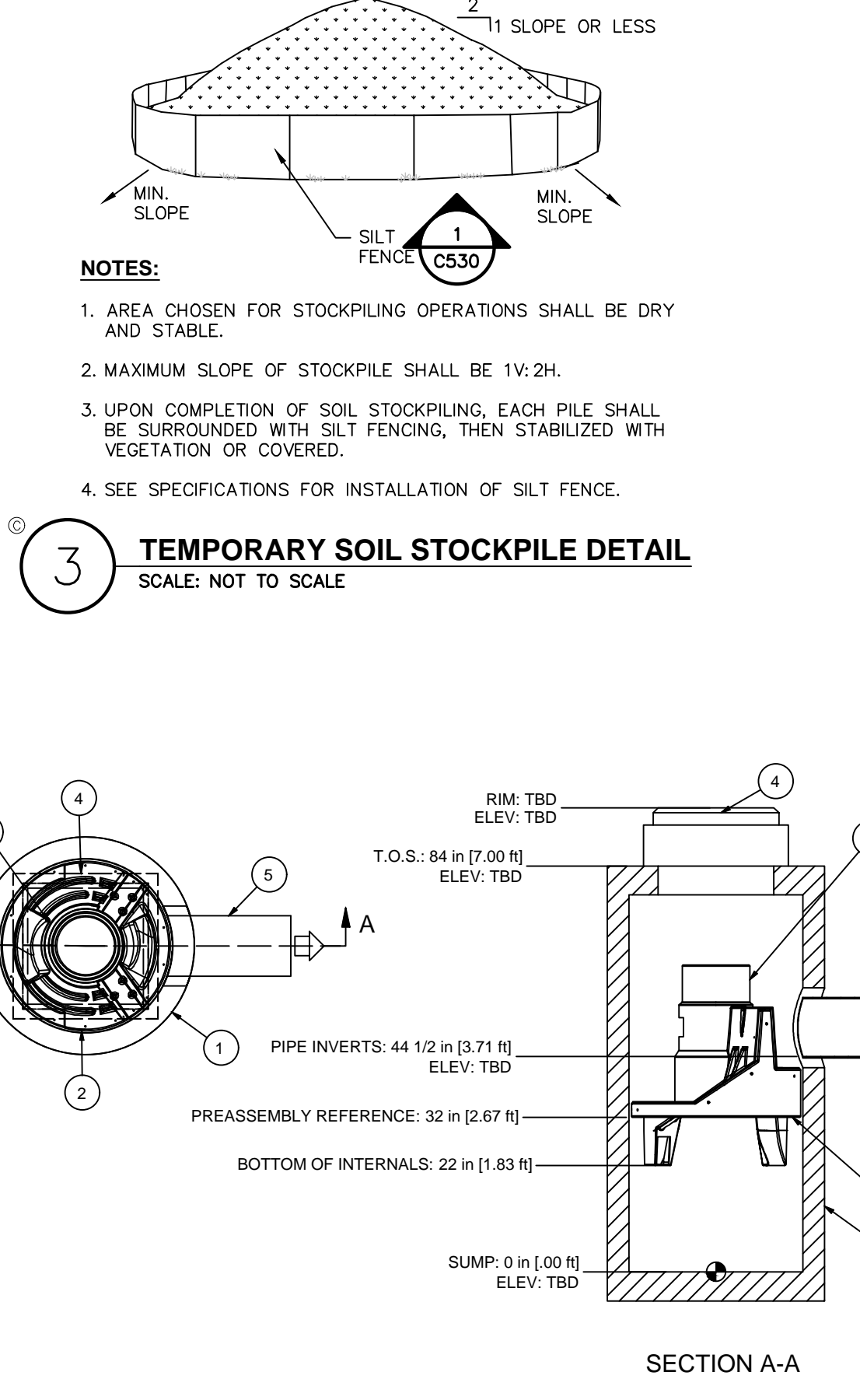
**1 END SECTION WITH STONE LINED APRON DETAIL**  
SCALE: NOT TO SCALE



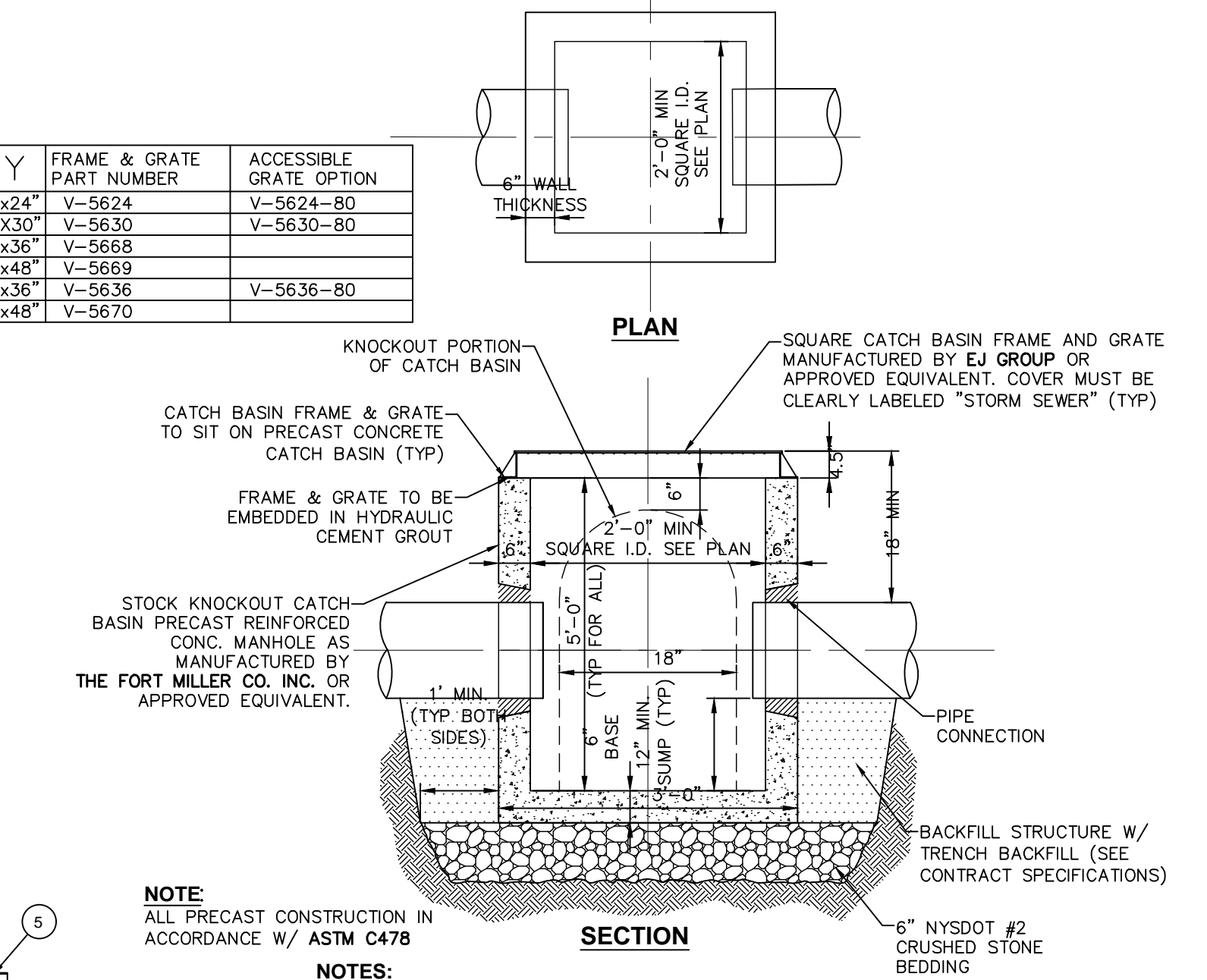
**2 LIVE STAKE & BANK STABILIZATION**  
SCALE: NOT TO SCALE



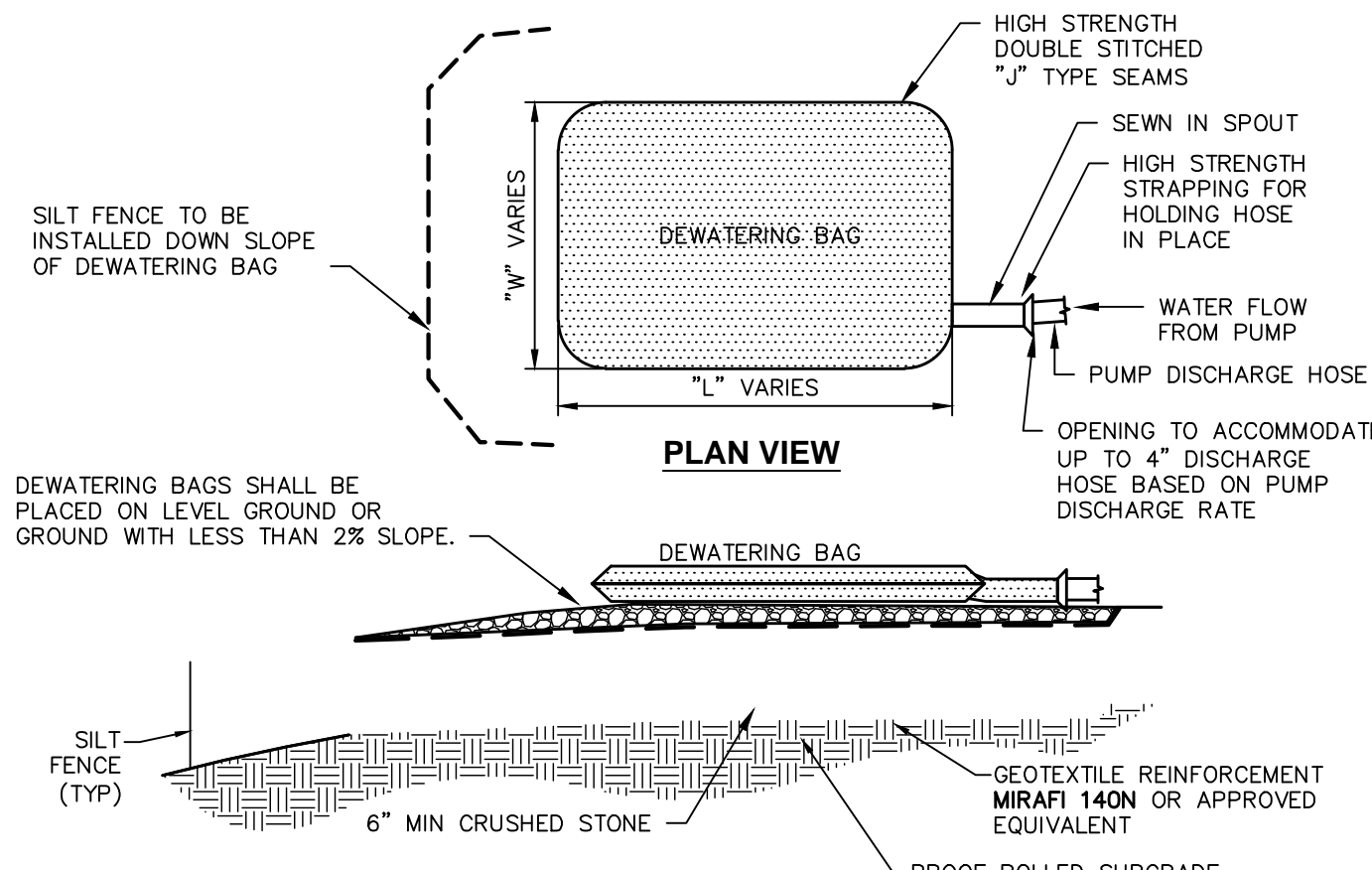
**3 SILT FENCE INSTALLATION DETAIL**  
SCALE: NOT TO SCALE



**4 TEMPORARY SOIL STOCKPILE DETAIL**  
SCALE: NOT TO SCALE



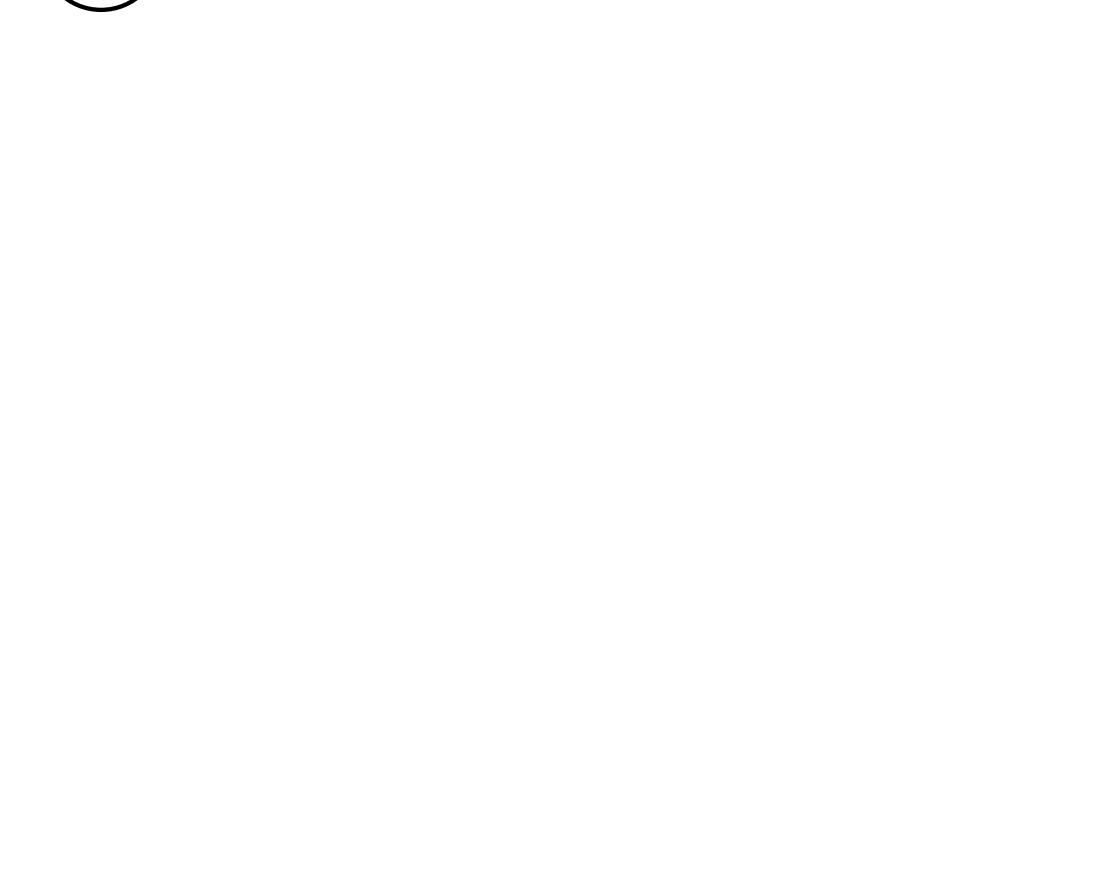
**5 PRECAST CONCRETE SHALLOW CATCH BASIN DETAIL**  
SCALE: NOT TO SCALE



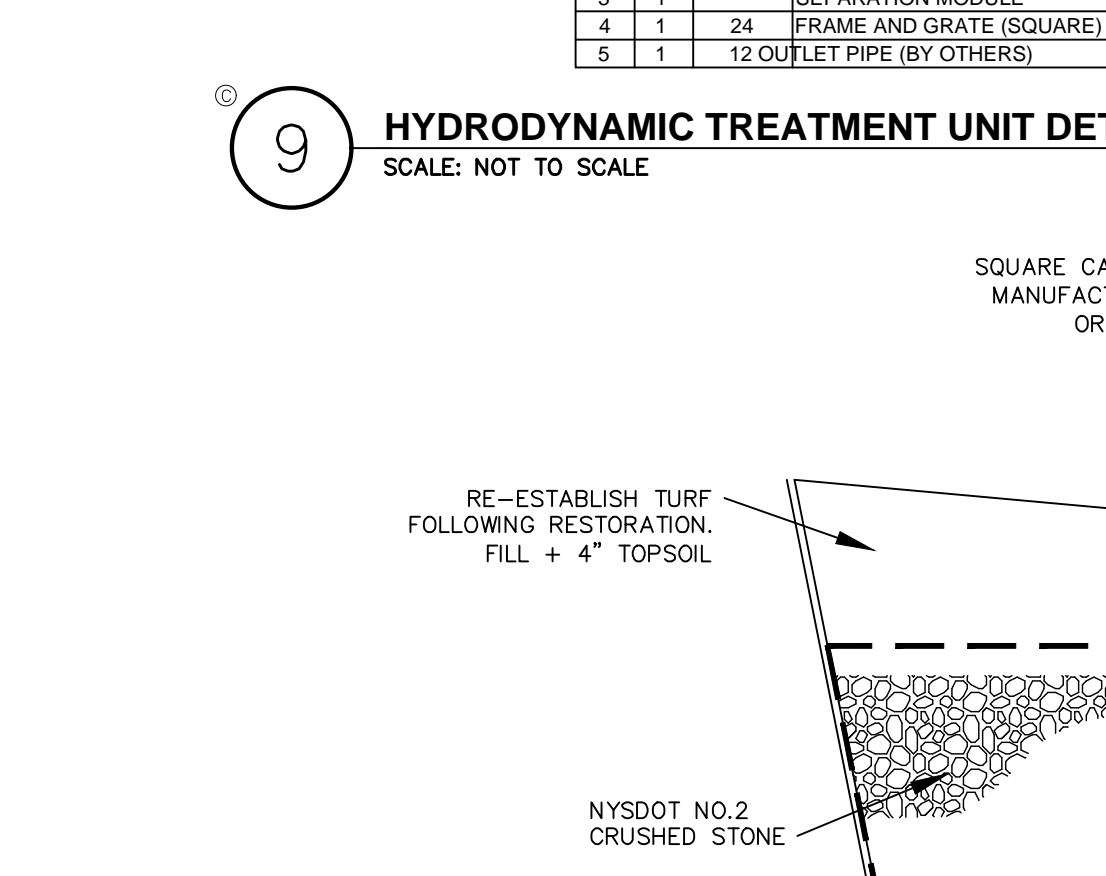
**6 DEWATERING BAG DETAIL**  
SCALE: NOT TO SCALE



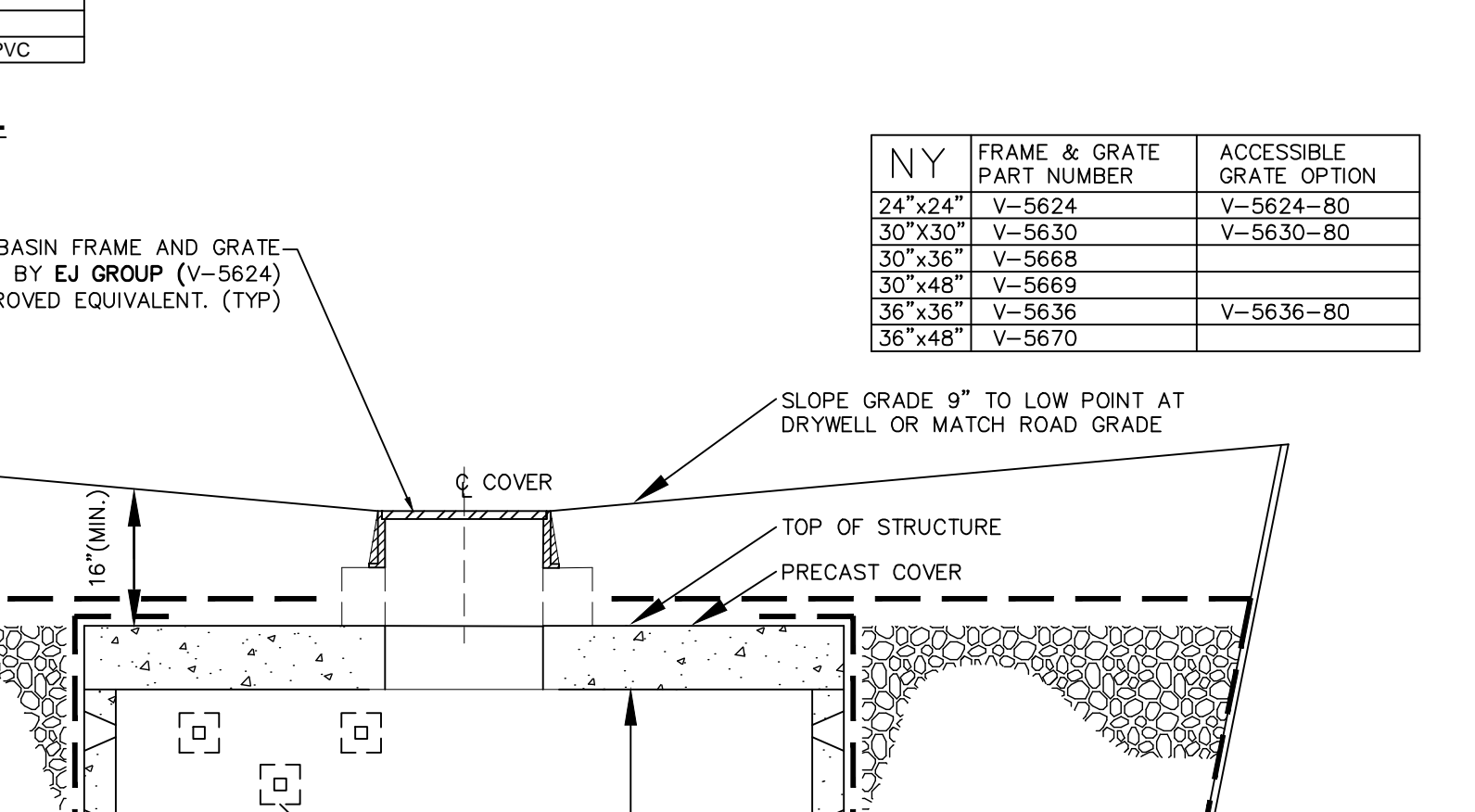
**7 DRY WELL DETAIL**  
SCALE: NOT TO SCALE



**8 SILT SOCK DETAIL**  
SCALE: NOT TO SCALE



**9 HYDRODYNAMIC TREATMENT UNIT DETAIL**  
SCALE: NOT TO SCALE



**10 COMPOST SOCK CONNECTION/ATTACHMENT DETAIL**  
SCALE: NOT TO SCALE

**8 DEWATERING BAG DETAIL**  
SCALE: NOT TO SCALE

**6 SILT SOCK DETAIL**  
SCALE: NOT TO SCALE

**3 SILT FENCE INSTALLATION DETAIL**  
SCALE: NOT TO SCALE

**4 TEMPORARY SOIL STOCKPILE DETAIL**  
SCALE: NOT TO SCALE

**7 DRY WELL DETAIL**  
SCALE: NOT TO SCALE

ITEM	QTY	SIZE (in)	DESCRIPTION	TYPE
1	1	36	I.D. PRECAST MANHOLE	
2	1		LEDGER SUPPORT	
3	1		SEPARATION MODULE	
4	1	24	FRAME AND GRATE (SQUARE)	
5	1	12	OUTLET PIPE (BY OTHERS)	PVC

NY	FRAME & GRATE PART NUMBER	ACCESSIBLE GRATE OPTION
24"x24"	V-5624	V-5624-80
30"x30"	V-5630	V-5630-80
30"x36"	V-5668	V-5668
30"x48"	V-5669	V-5669
36"x36"	V-5636	V-5636-80
36"x48"	V-5670	V-5670

SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH (FT)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

NY	FRAME & GRATE PART NUMBER	ACCESSIBLE GRATE OPTION
24"x24"	V-5624	V-5624-80
30"x30"	V-5630	V-5630-80
30"x36"	V-5668	V-5668
30"x48"	V-5669	V-5669
36"x36"	V-5636	V-5636-80
36"x48"	V-5670	V-5670

LAKEVIEW CIRCLE STORMWATER PROJECTS
designed ZFB
checked
date 01/30/19 AS SHOWN
project no. 91803.03
sheet no. SD-1