

THREE RIVERS  
SPORTSMEN CLUB



**CULVERT DATA CHART**

Culvert #	Size (in)	Type
1	12	STEEL
2	12	STEEL
3	12	CIP
4	12	STEEL

**PASSIVE TREATMENT SYSTEM SUMMARY**

COMPONENT	DESCRIPTION	COMMENTS
ACS1	ANOXIC COLLECTION SYSTEM	COLLECTION SYSTEM FOR RBE DISCHARGE
ALD1	8,300 T ANOXIC LIMESTONE DRAIN	ACIDITY NEUTRALIZATION AND ALKALINITY GENERATION
SP1	29,850 SF SETTLING POND	IRON OXIDATION AND PARTICULATE SETTLING FACILITY WITH DIRECTIONAL BAPFE CURTAINS AND WATER FALL-TYPE OUTLET
SP2	28,730 SF SETTLING POND	IRON OXIDATION AND PARTICULATE SETTLING FACILITY
WLD1	9,110 SF WETLAND	AEROBIC WETLAND WITH INFLOW FROM DISCHARGES ASSOCIATED WITH SOURCE OF RSD DISCHARGE
SP3	8,800 SF SETTLING POND	IRON OXIDATION AND PARTICULATE SETTLING FACILITY
PP1	7,800 SF PLUNGE POND	ENERGY DISPERSER AND SOLIDS SETTLING
ACS2	ANOXIC COLLECTION SYSTEM	COLLECTION SYSTEM FOR R3A (PORTION), R3B AND R3C DISCHARGES
ALD2	3,304 T ANOXIC LIMESTONE DRAIN	ACIDITY NEUTRALIZATION AND ALKALINITY GENERATION
SP4	12,900 SF SETTLING POND	IRON OXIDATION AND PARTICULATE SETTLING FACILITY
WLD2	101,535 SF WETLAND	NATURALLY-REFUNCTIONING AEROBIC WETLAND SYSTEM
PP2	4,670 SF PLUNGE POND	FLOW DISTRIBUTION AND SOLIDS INCLUDING WETLAND DETRITUS) SETTLING
HFLB	8,998' HORIZONTAL FLOW LIMESTONE BED	MANAGENSE ACIDITY REDUCTION AND ALKALINITY GENERATION
ACS3	ANOXIC COLLECTION SYSTEM	PLUMBED ALD3 INLET HEADER DIRECTLY INTO FOUND 8" VITRIOUS CLM PIPE
ALD3	413 T ANOXIC LIMESTONE DRAIN	ACIDITY NEUTRALIZATION AND ALKALINITY GENERATION
SP5	3,120 SF SETTLING POND	IRON OXIDATION AND PARTICULATE SETTLING FACILITY

**LEGEND**

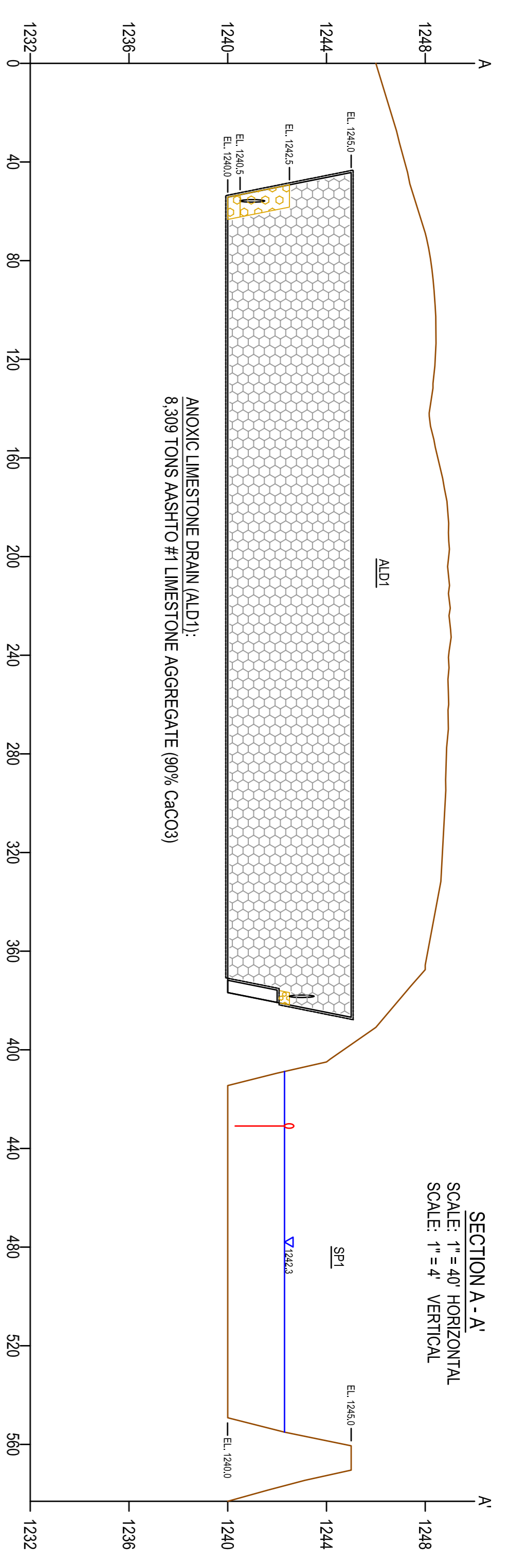
- CONTOUR - INDEX (OBSERVED)
- CONTOUR - INTERMEDIATE
- CONTOUR - INTERMEDIATE (OBSERVED)
- PASSIVE TREATMENT COMPONENT (BAPFE)
- BAPFE LEVEL SPREADER (SUBMERGED)
- BAPFE CURTAIN (DIRECTIONAL)
- Z-PILING
- 8" SOLID SDR 35 PVC PIPE
- 8" PERFORATED SDR 35 PVC PIPE
- 10" SOLID SDR 35 PVC PIPE
- 10" PERFORATED SDR 35 PVC PIPE
- 12" PERFORATED SDR 35 PVC PIPE
- 12" SOLID SDR 35 PVC PIPE
- 15" PERFORATED SDR 35 PVC PIPE
- 15" SOLID SDR 35 PVC PIPE
- ABANDONED UNDERGROUND MINE
- MINE SEALS (APPRX. LOCATION)
- PROPERTY LINE (APPRX. LOCATION)
- UNDERGROUND GAS LINE (APPRX. LOCATION)
- UTILITY POLE
- UTILITY LINE (ELECTRIC)
- DIRT/GRAVEL ROAD
- WATER
- WETLAND
- COB PILE REMOVAL WETLAND
- PLANTED UPLAND AREA
- R-4 LIMESTONE RIP-RAP
- ASH/TO #1 LIMESTONE AGGREGATE (90% CCB)
- NON-CALCAREOUS RIVER GRAVEL
- BRUSH PILES
- TREELINE
- DIVERSION DITCH
- CULVERT
- BUILDING (SHADED IF FUELING)
- NATURAL POLE W/ NESTING PLATFORM
- 8" VALVE
- MONITORING WELL
- LINE DISCHARGE
- WATER SAMPLE POINT
- AS-BUILT T CROSS SECTION

**SLIPPERY ROCK  
WATERSHED COALITION  
AS-BUILT DRAWING**

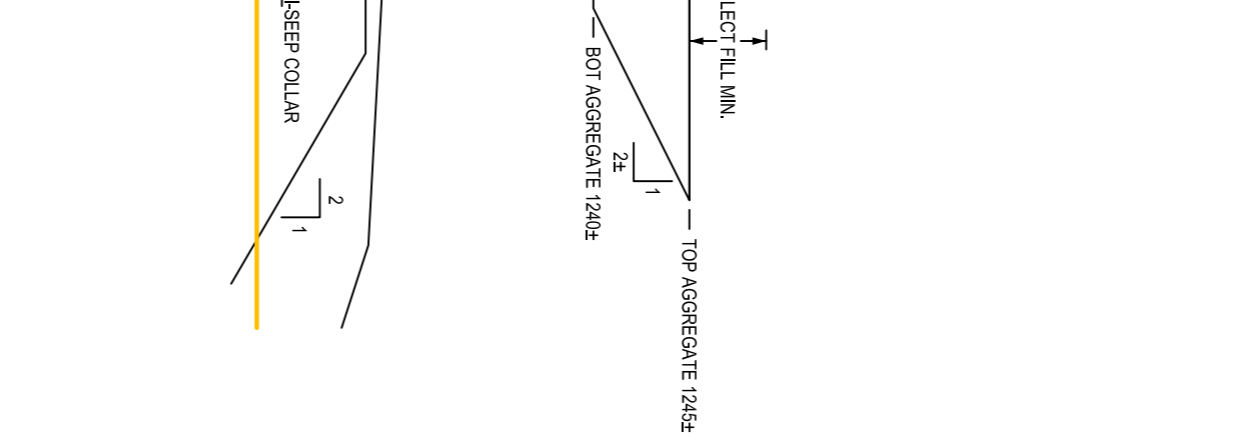
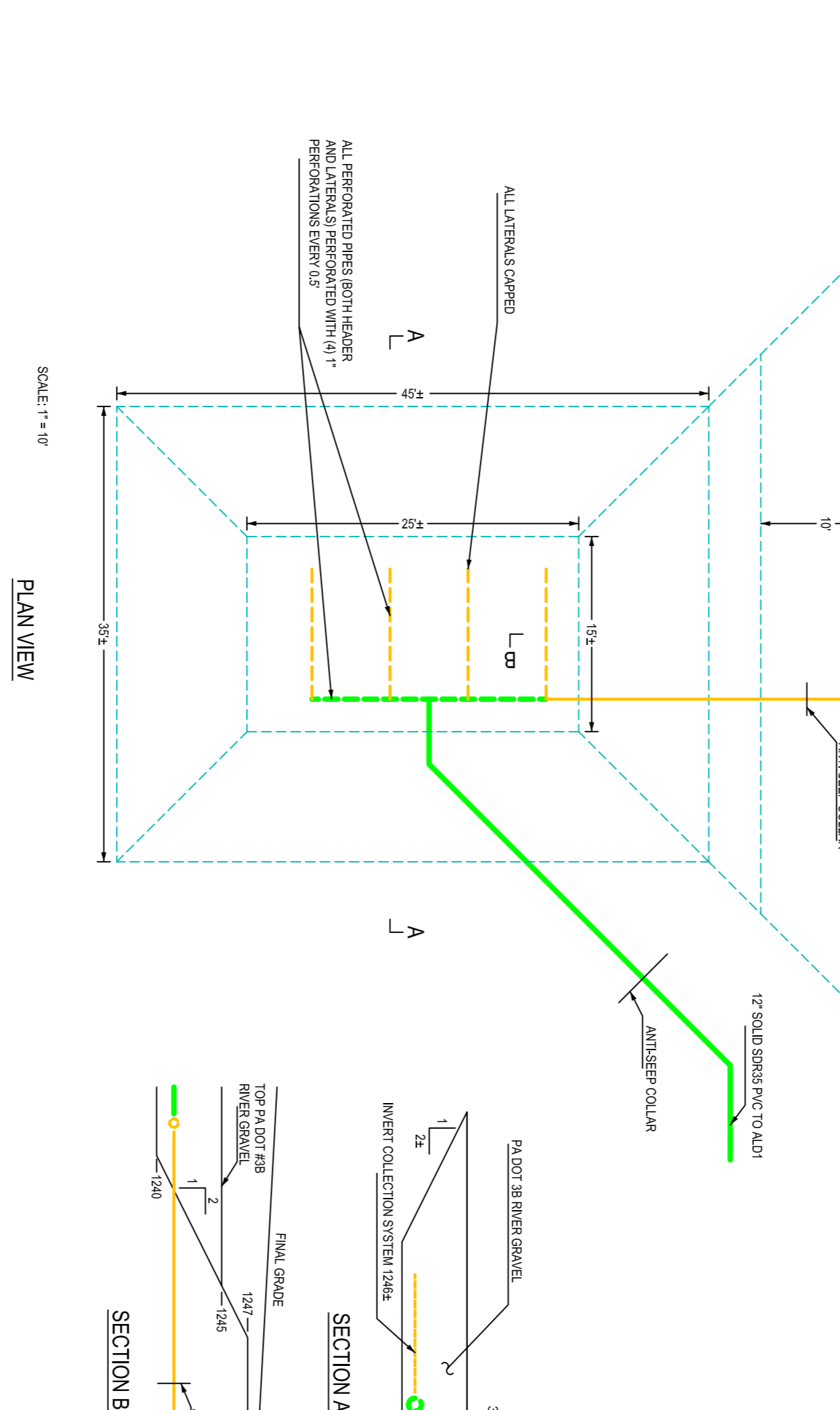
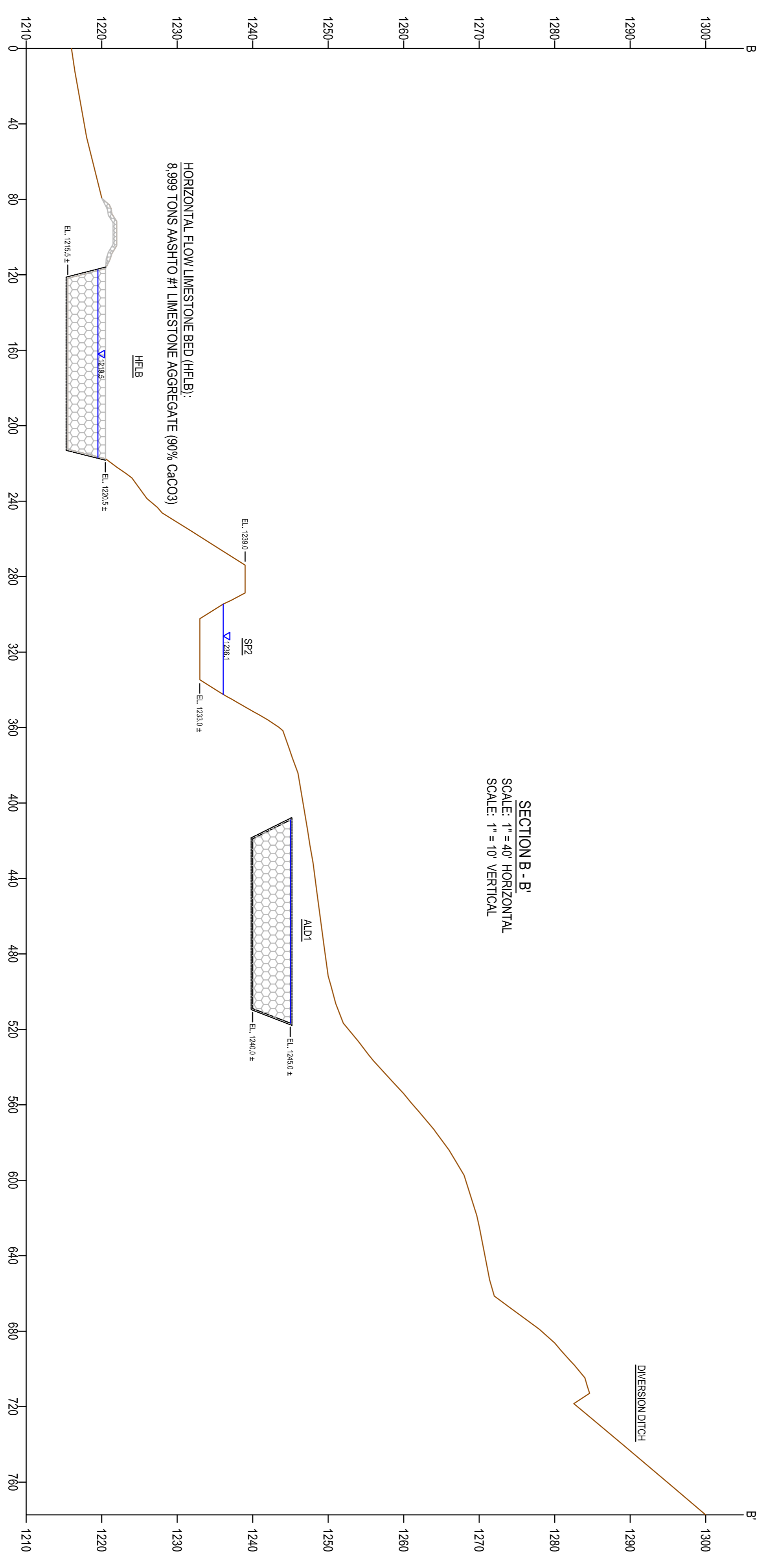
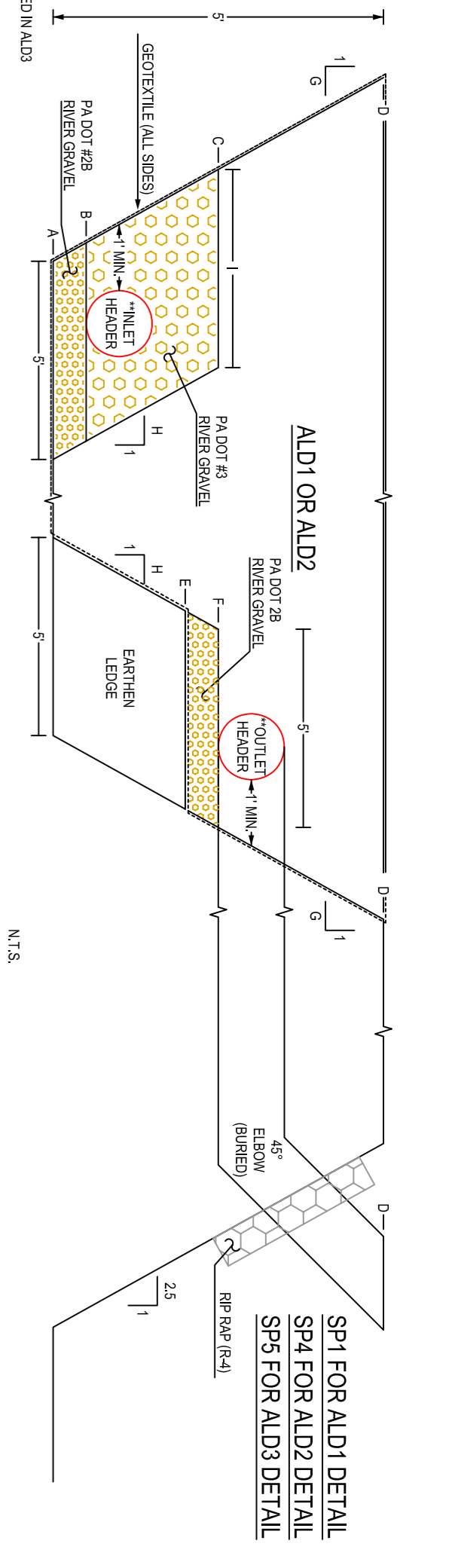
**ERICO BRIDGE RESTORATION AREA**

STREAM RESTORATION INCORPORATED  
SEATON CREEK SUBWATERSHED  
VENANGO TWP., BUTLER CO., PA

Scale: 1" = 60'  
December 2004  
Biodigest, Inc., Cranberry Township, Pennsylvania  
Mining and Reclamation Services



ELEV.	ALD1	ALD2	ALD3
A	1240.0	1238.0	1217.0
B	1240.2	1238.3	1212.2
C	1242.2	1230.3	NA
D	1245.0	1223.0	1214.7
E	1242.0	1220.0	1211.7
F	1242.2	1220.3	1212.2
G	2	1	1
H	2	2	NA
I	9	6.5	NA



**LEGEND**

- 8" SOLID SDR 35 PVC PIPE
- 8" PERFORATED SDR 35 PVC PIPE
- 12" SOLID SDR 35 PVC PIPE
- 12" PERFORATED SDR 35 PVC PIPE
- 15" SOLID SDR 35 PVC PIPE
- 15" PERFORATED SDR 35 PVC PIPE
- GROUND SURFACE
- GEOTEXTILE
- WATER
- LIMESTONE (AASHTO #1)
- RIP RAP (R-4)
- NON-CALCAREOUS RIVER GRAVEL
- BAFFLE CURTAIN (DIRECTIONAL)

**Notes:**  
 ALD1 and ALD2 elevations based on Erigo Bridge Restoration Area Design Plan by Brookside Inc. ALD1 and ALD2 staked out in the field by EDM Survey by Eastman, Inc.  
 Bottom elevation and water elevation of wetlands vary due to microtopographical relief.

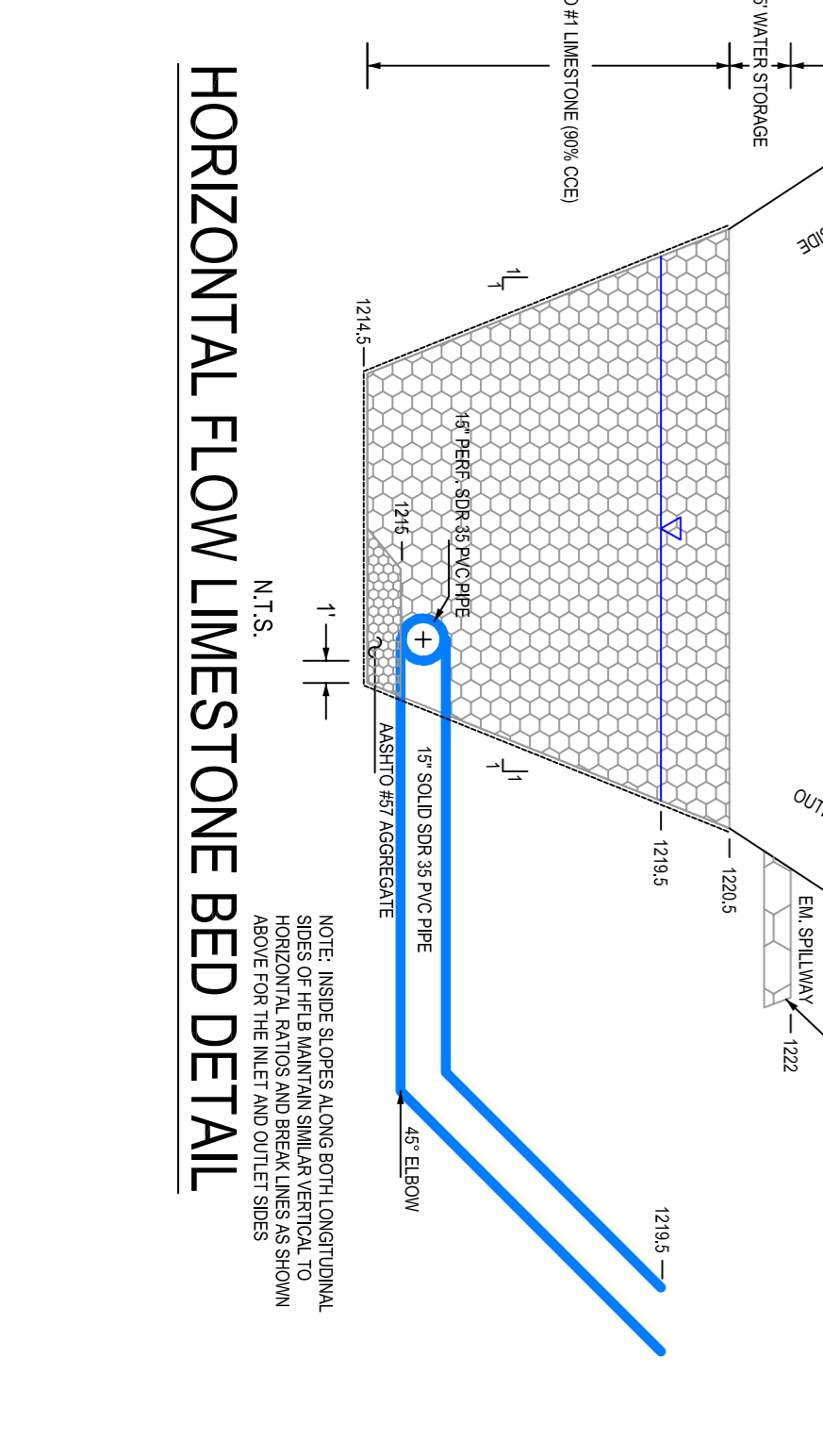
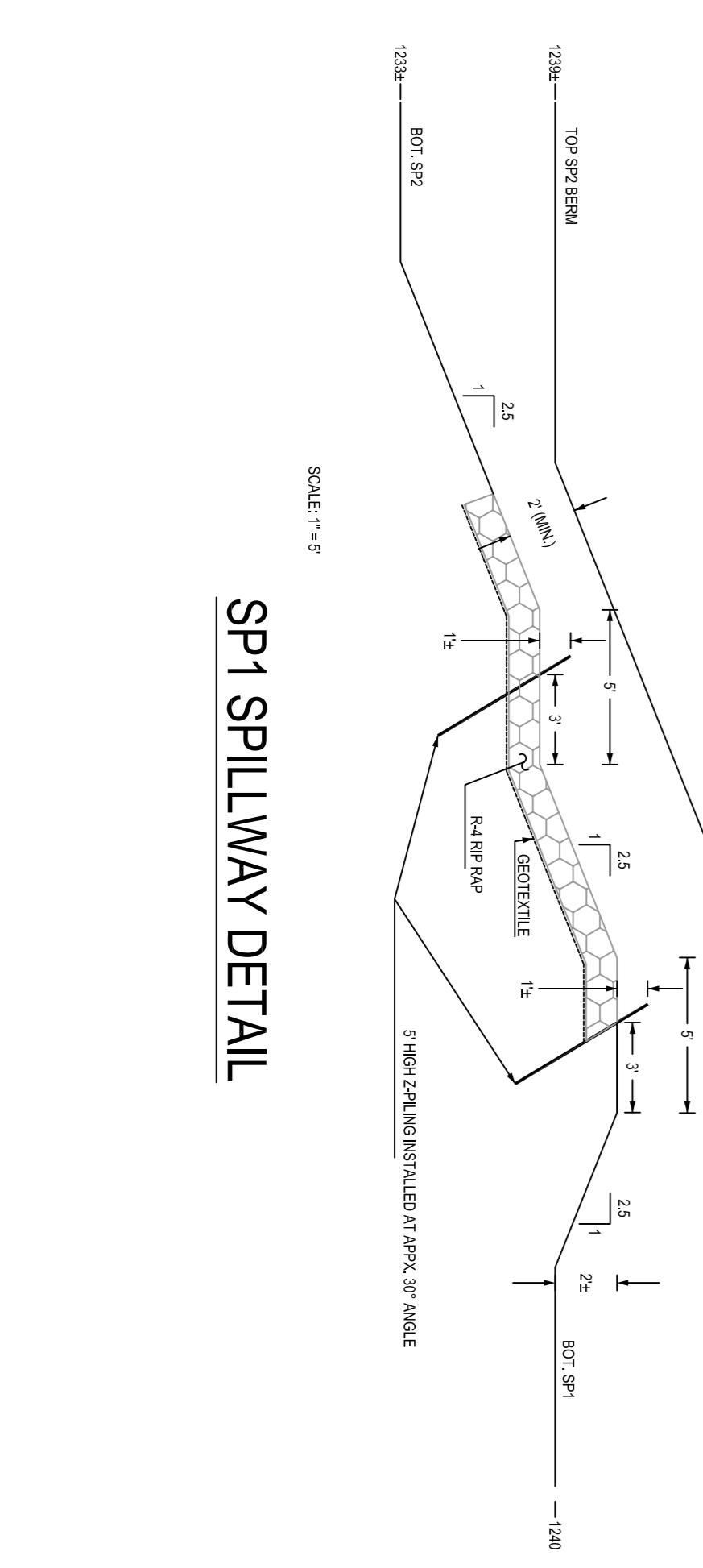
**SHEET 2 OF 3 - CROSS-SECTIONS**

**SLIPPERY ROCK WATERSHED COALITION**  
**AS-BUILT DRAWING**  
**ERICO BRIDGE RESTORATION AREA**  
 STREAM RESTORATION INCORPORATED  
 SEATON CREEK SUBWATERSHED  
 VENANGO TWP., BUTTLER CO., PA  
 Scale: As Shown December 2004  
 Brookside, Inc., Grantberry Township, Pennsylvania  
 Ming and Richardson Services

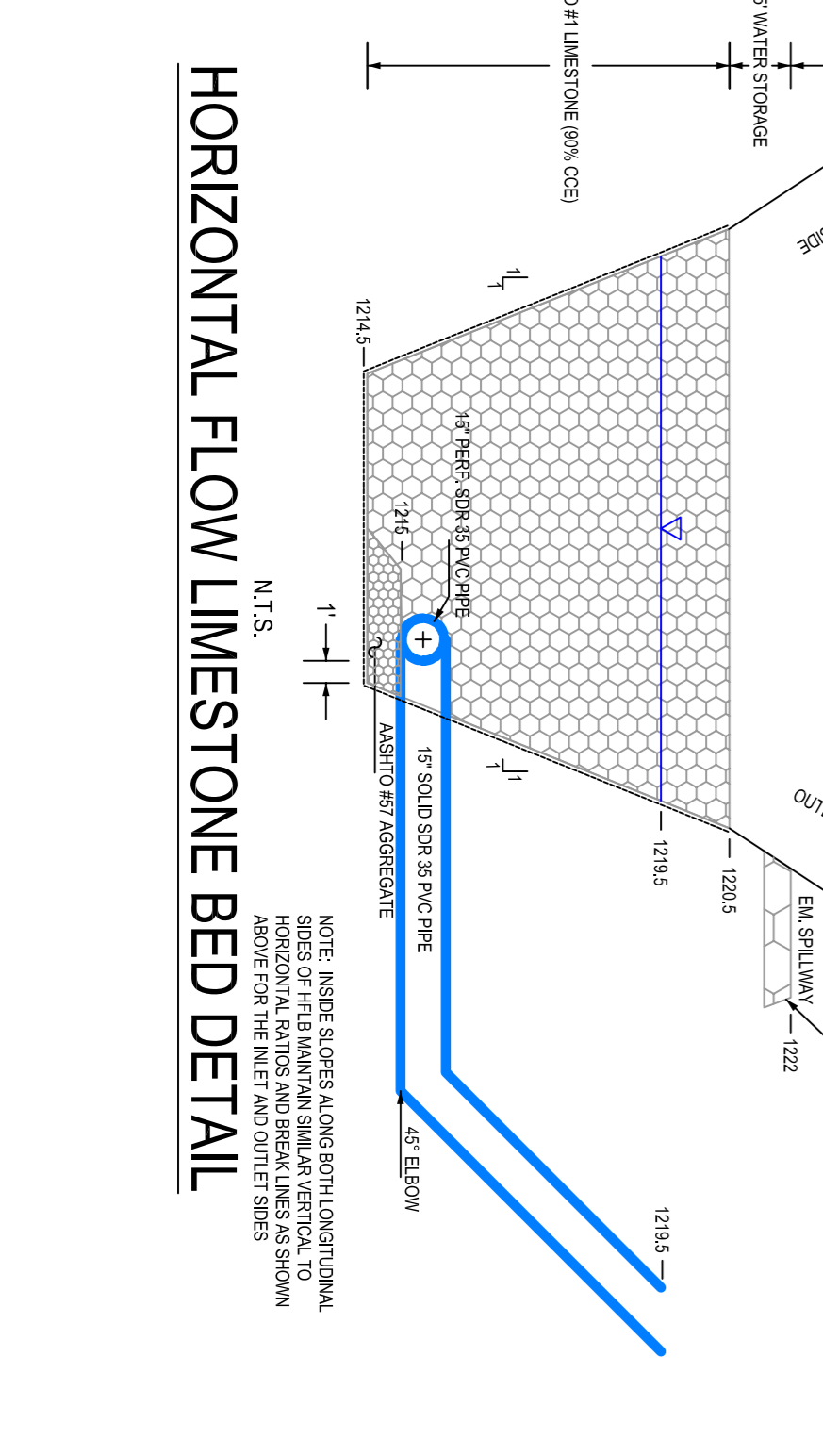
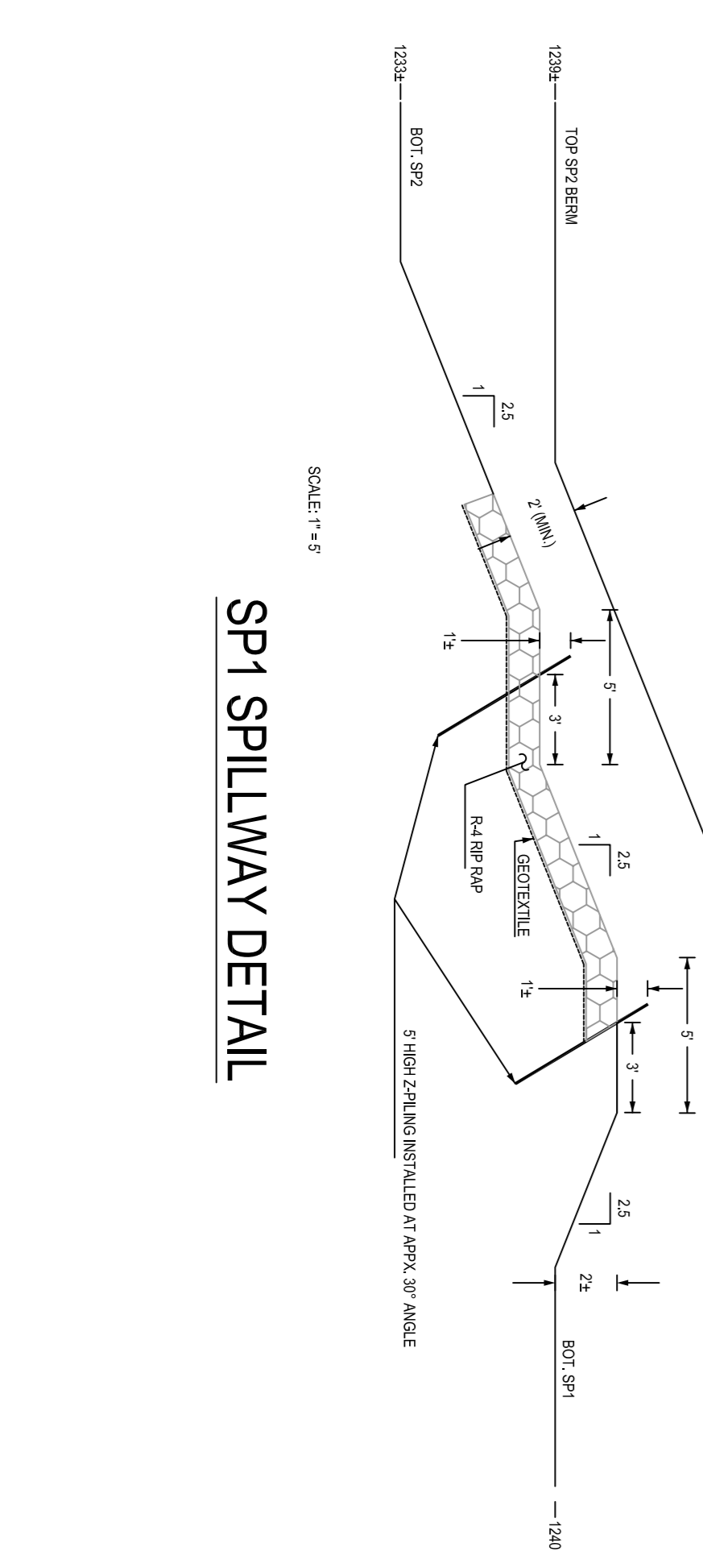
**ANOXIC COLLECTION SYSTEM DETAIL (ACS2)**

**SP1 SPILLWAY DETAIL**

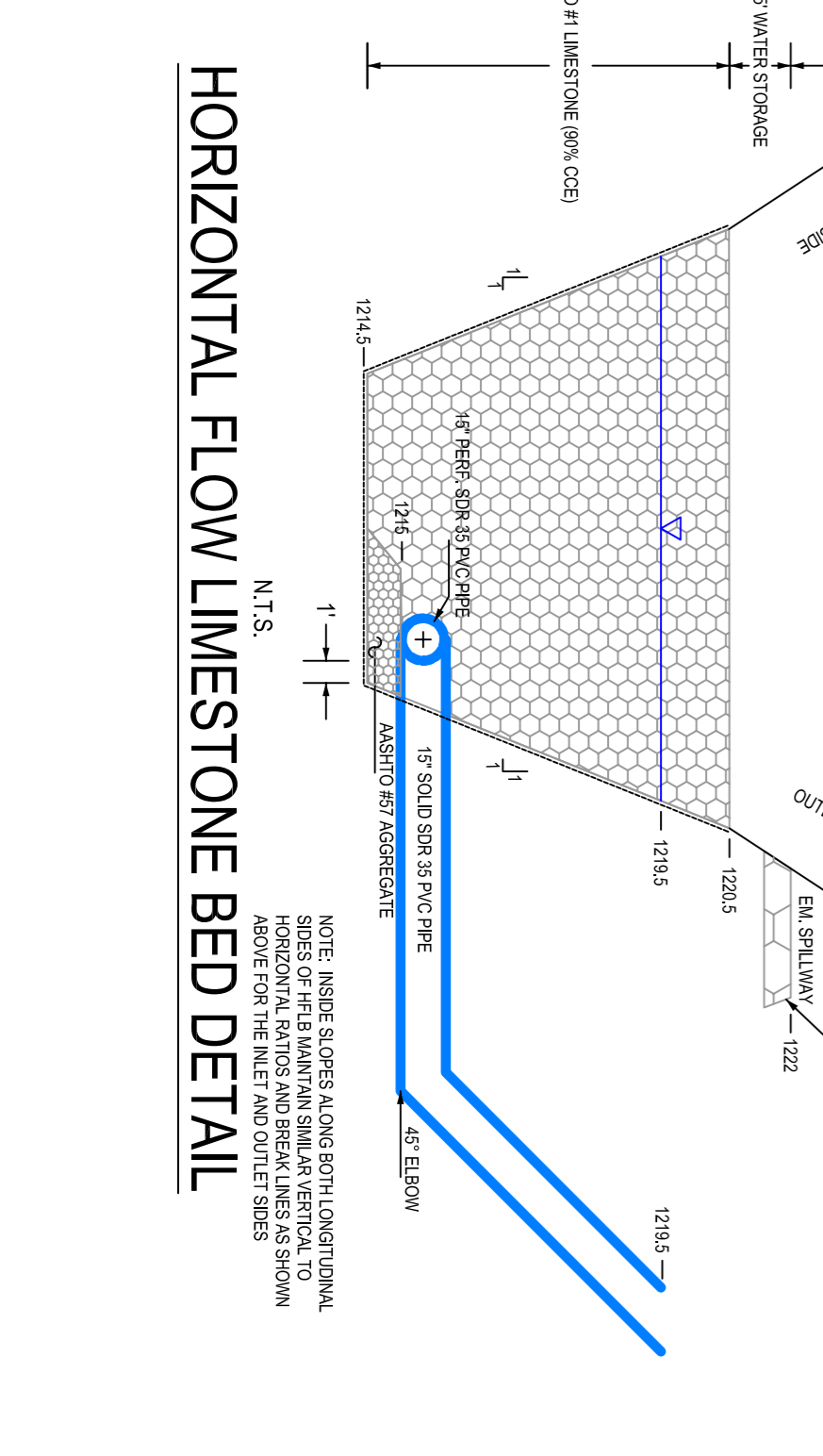
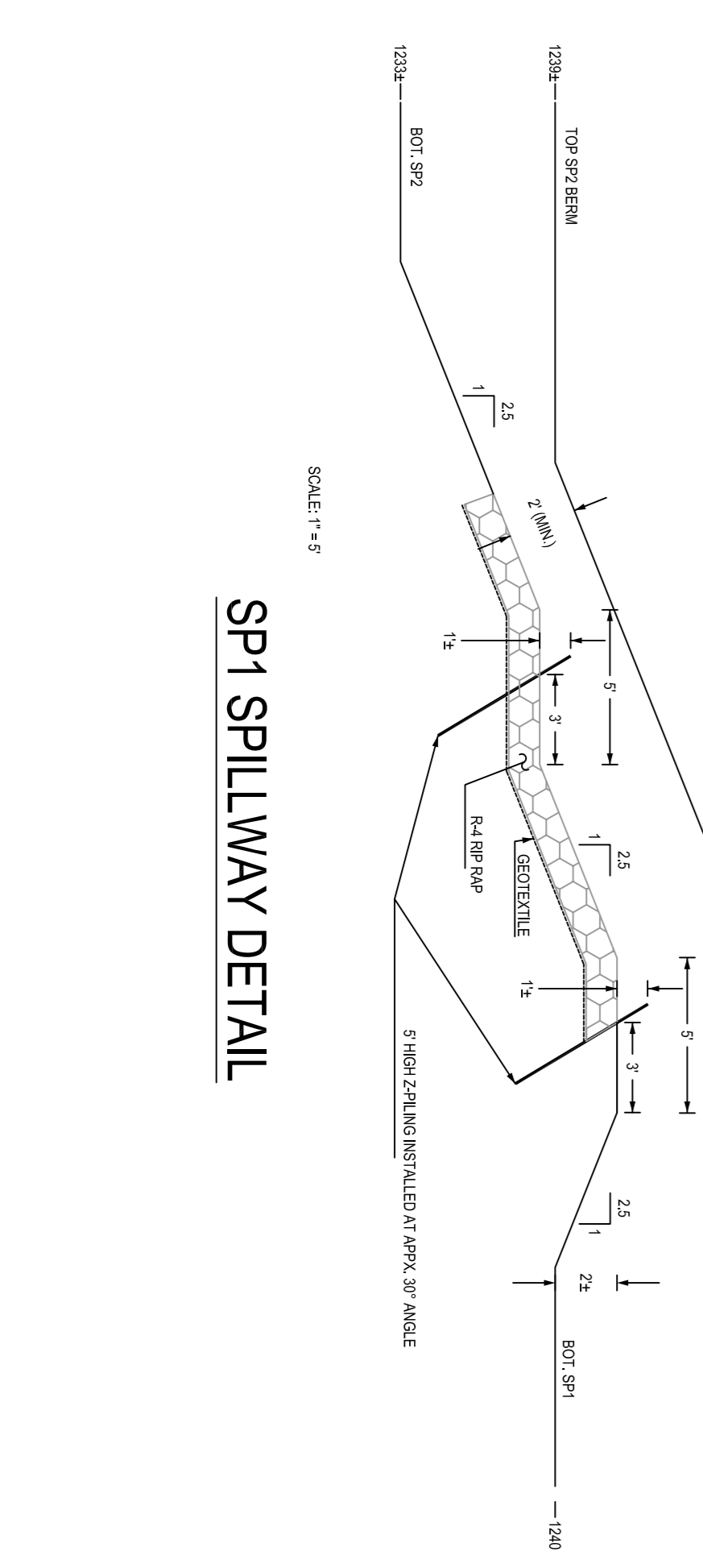
**HORIZONTAL FLOW LIMESTONE BED DETAIL**



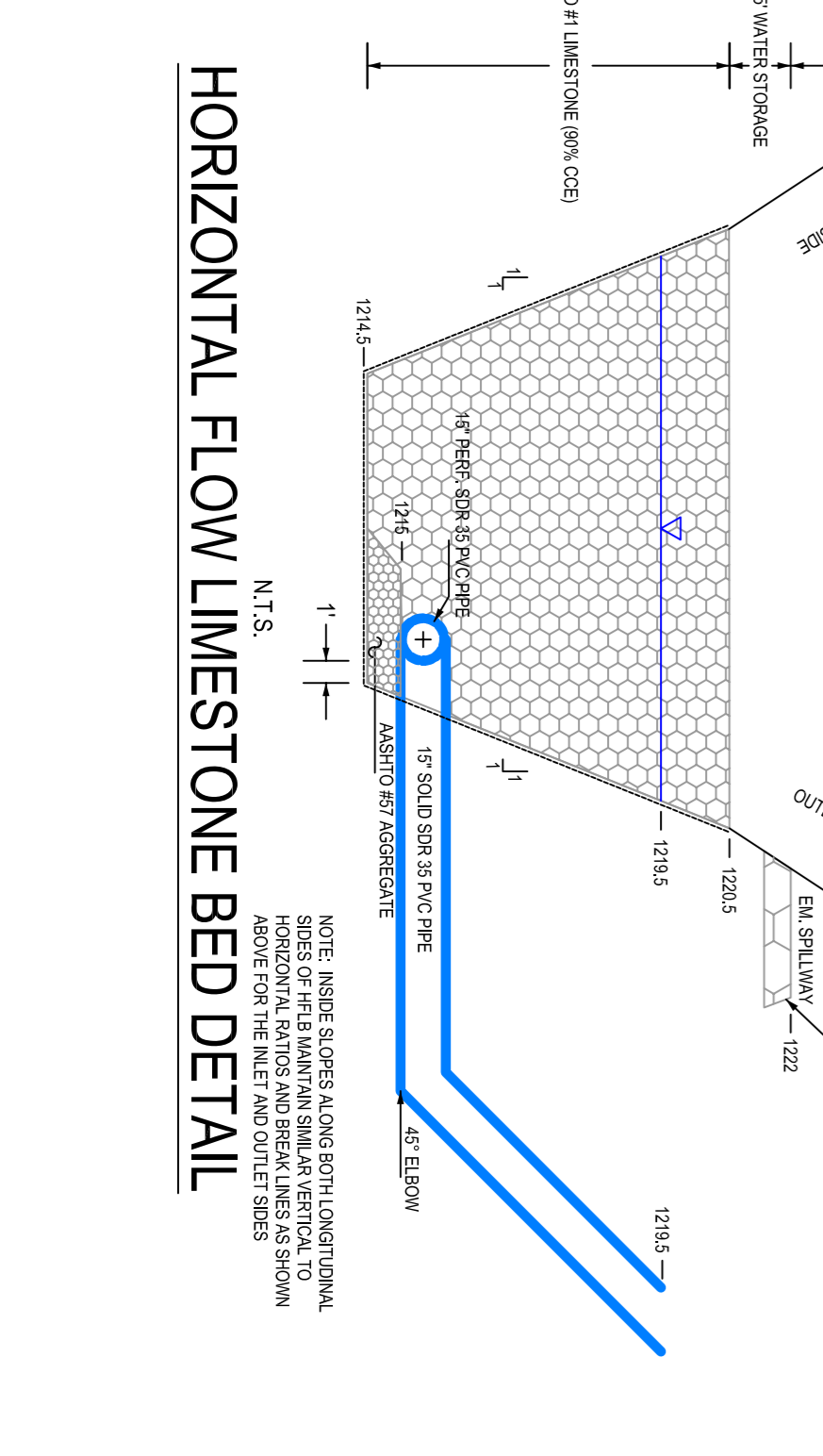
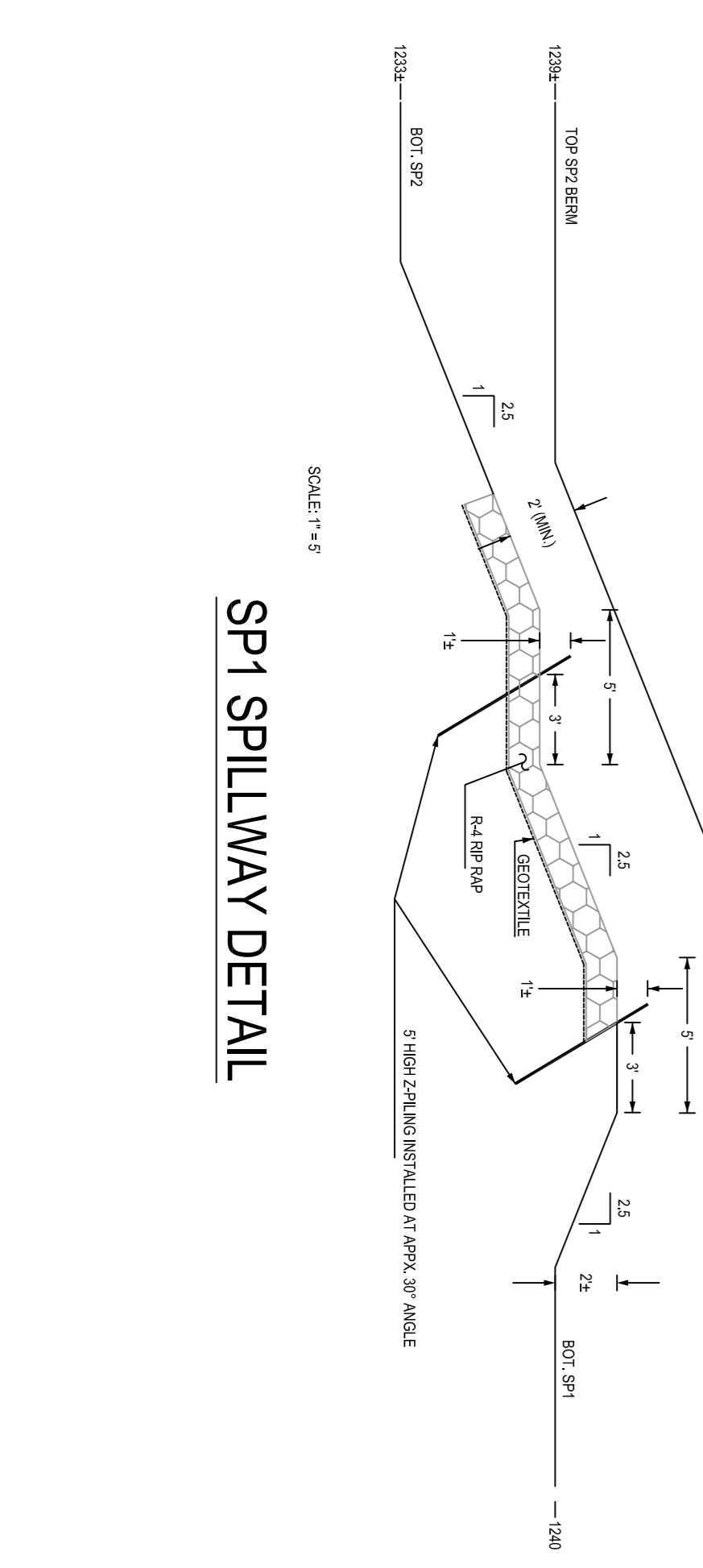
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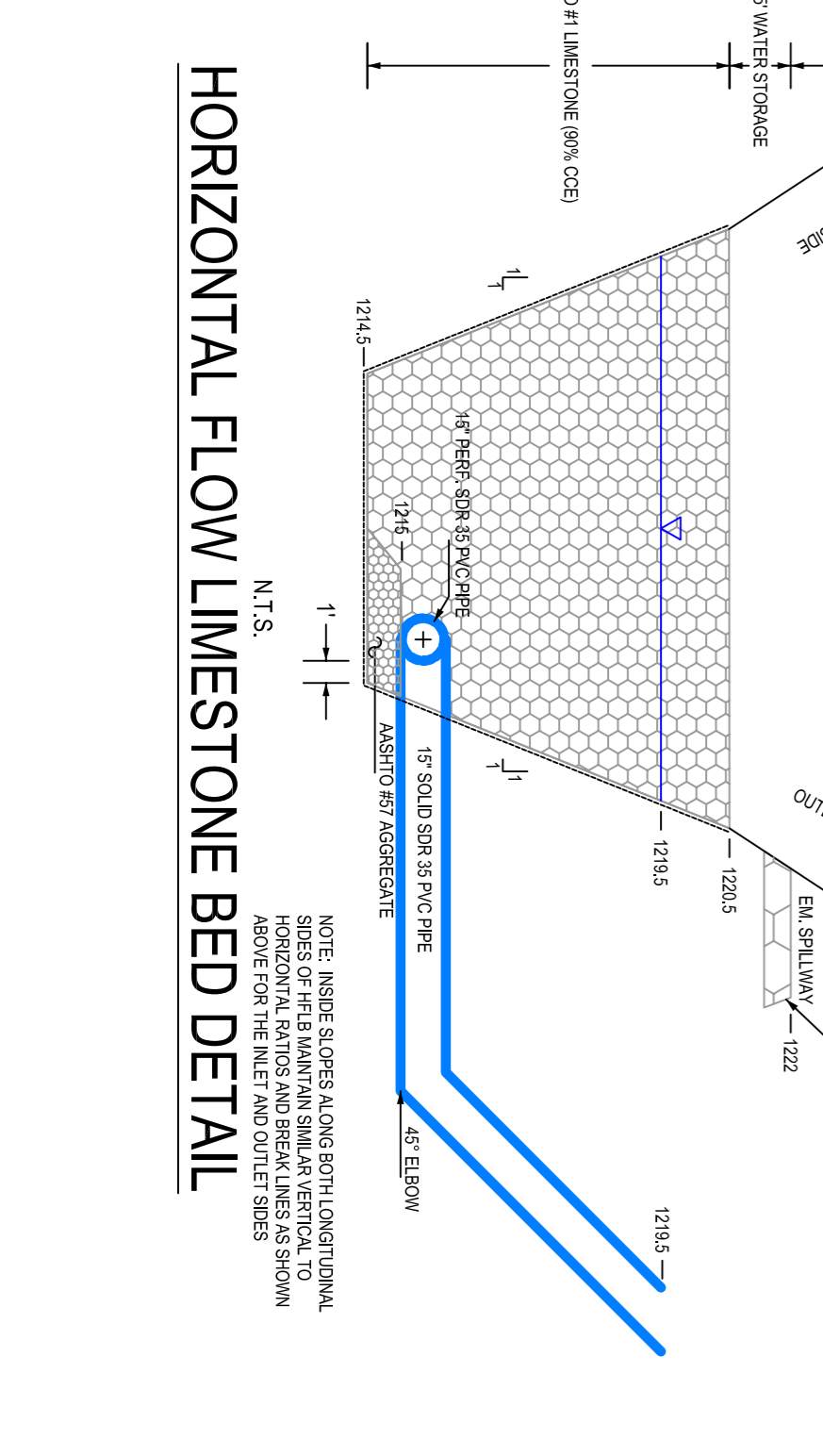
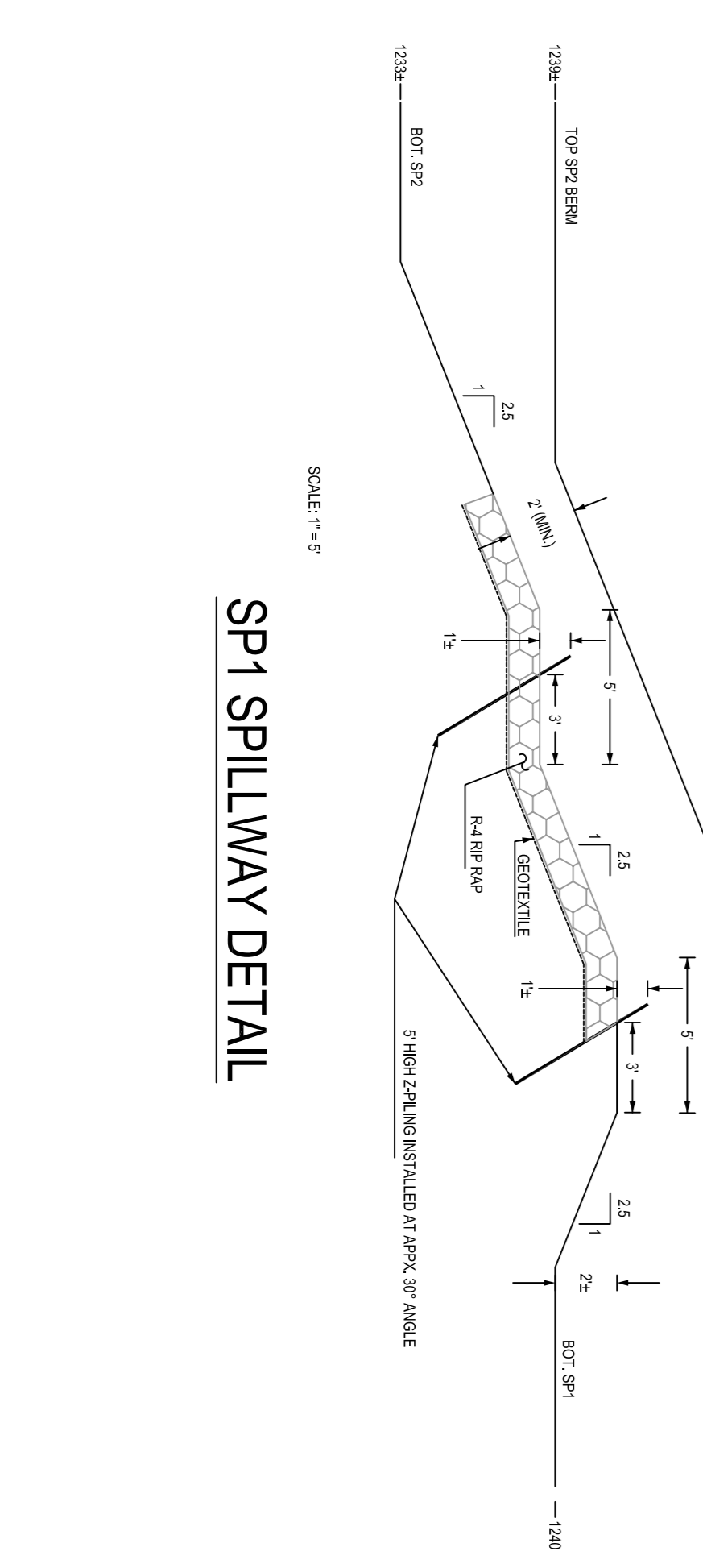
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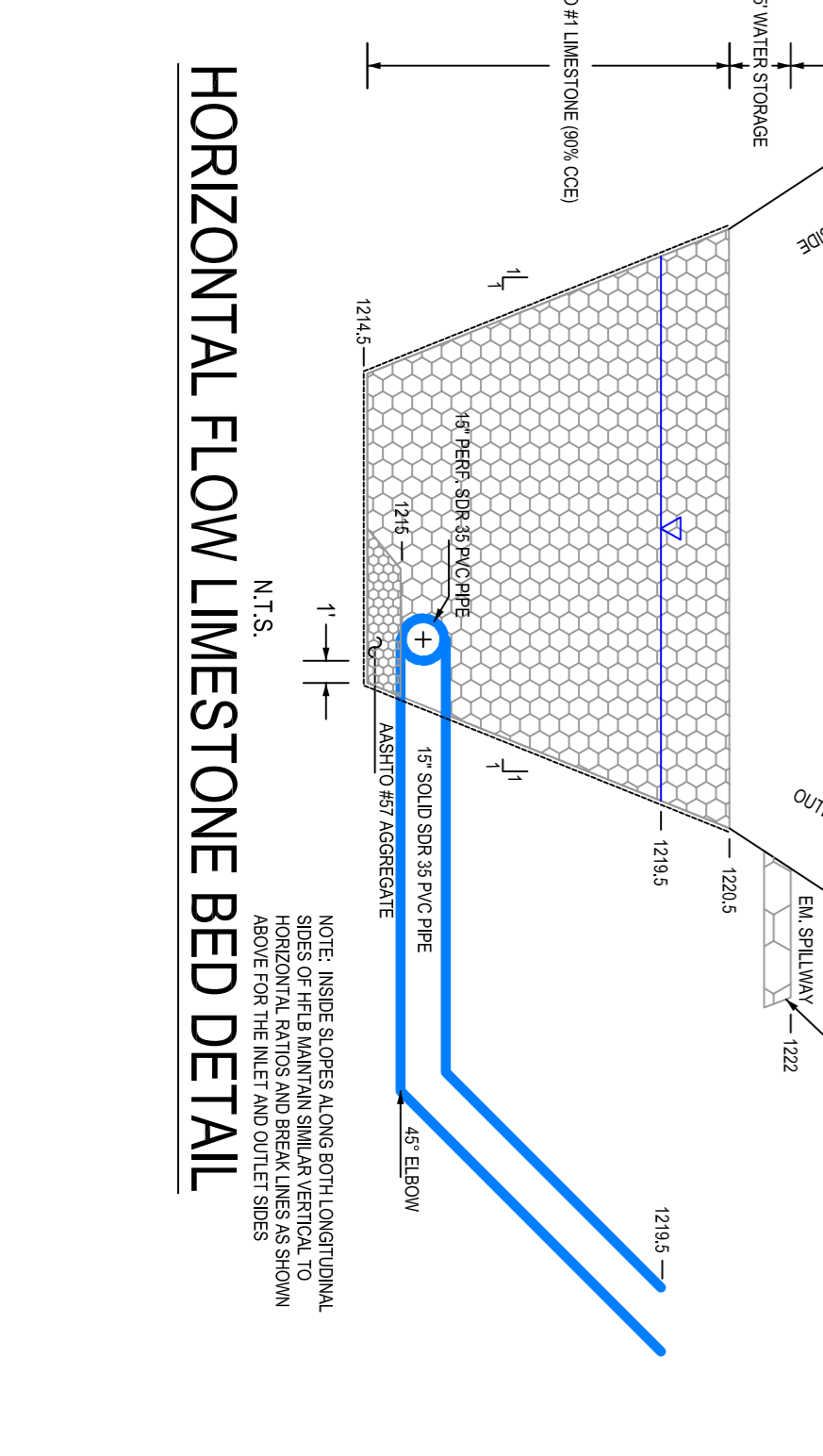
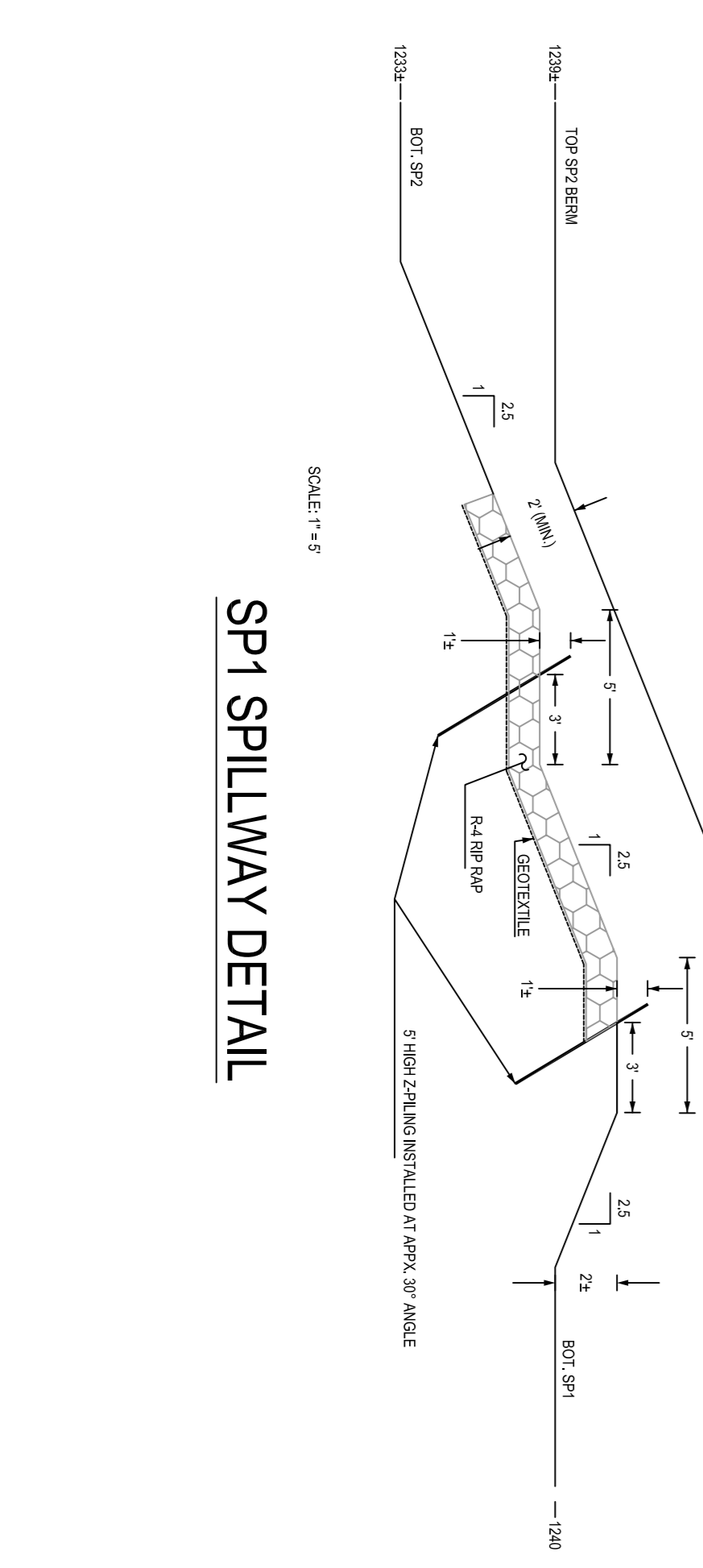
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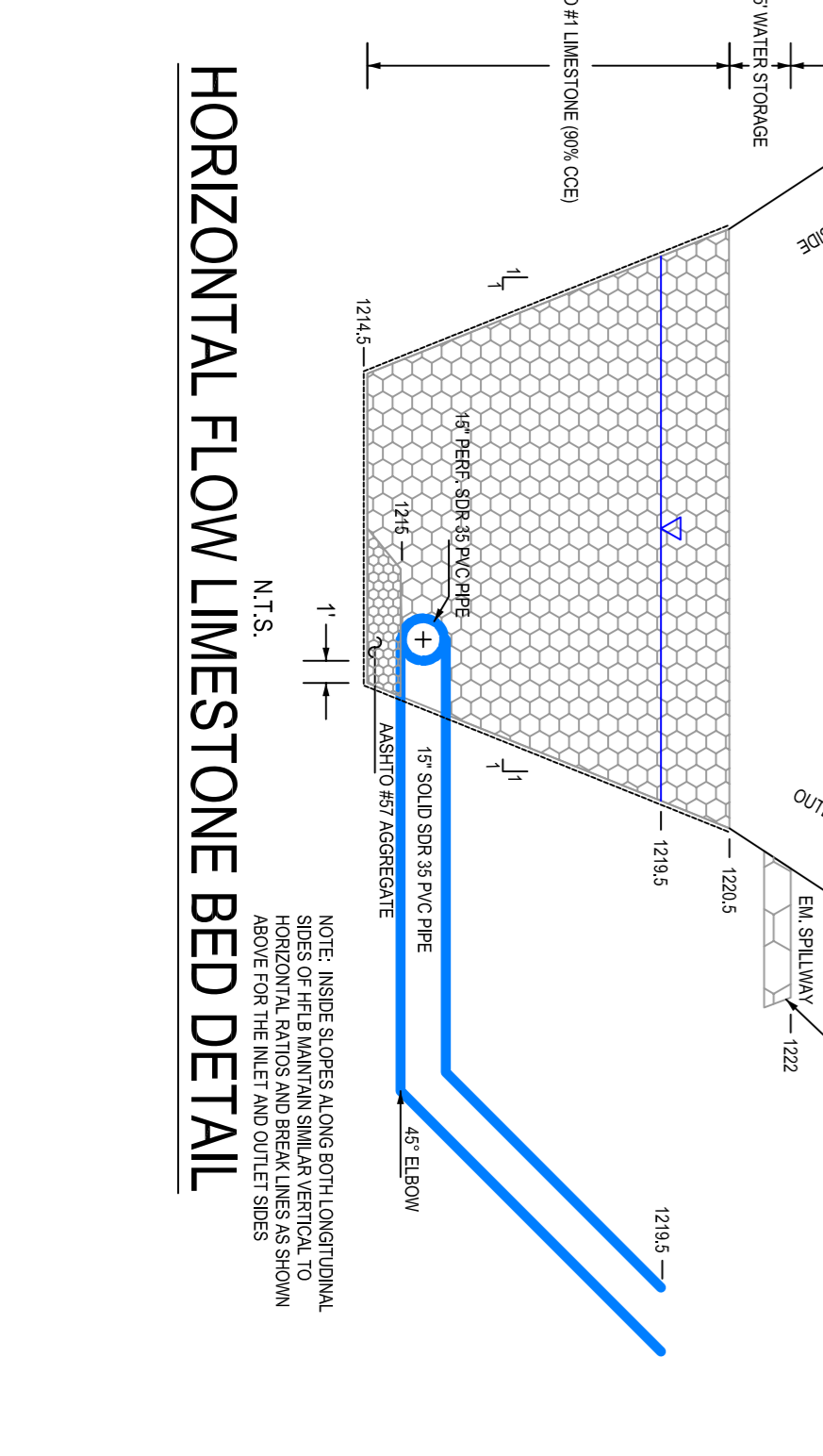
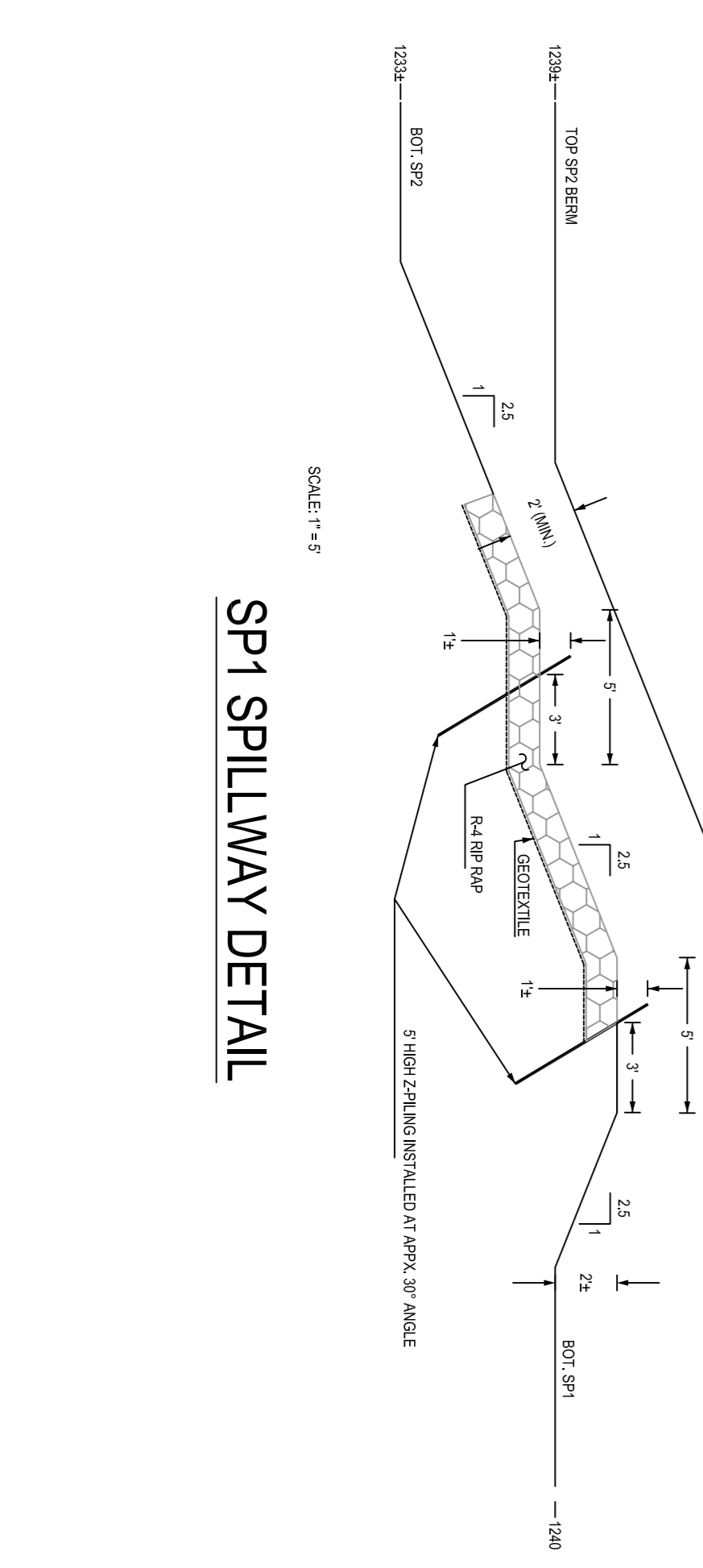
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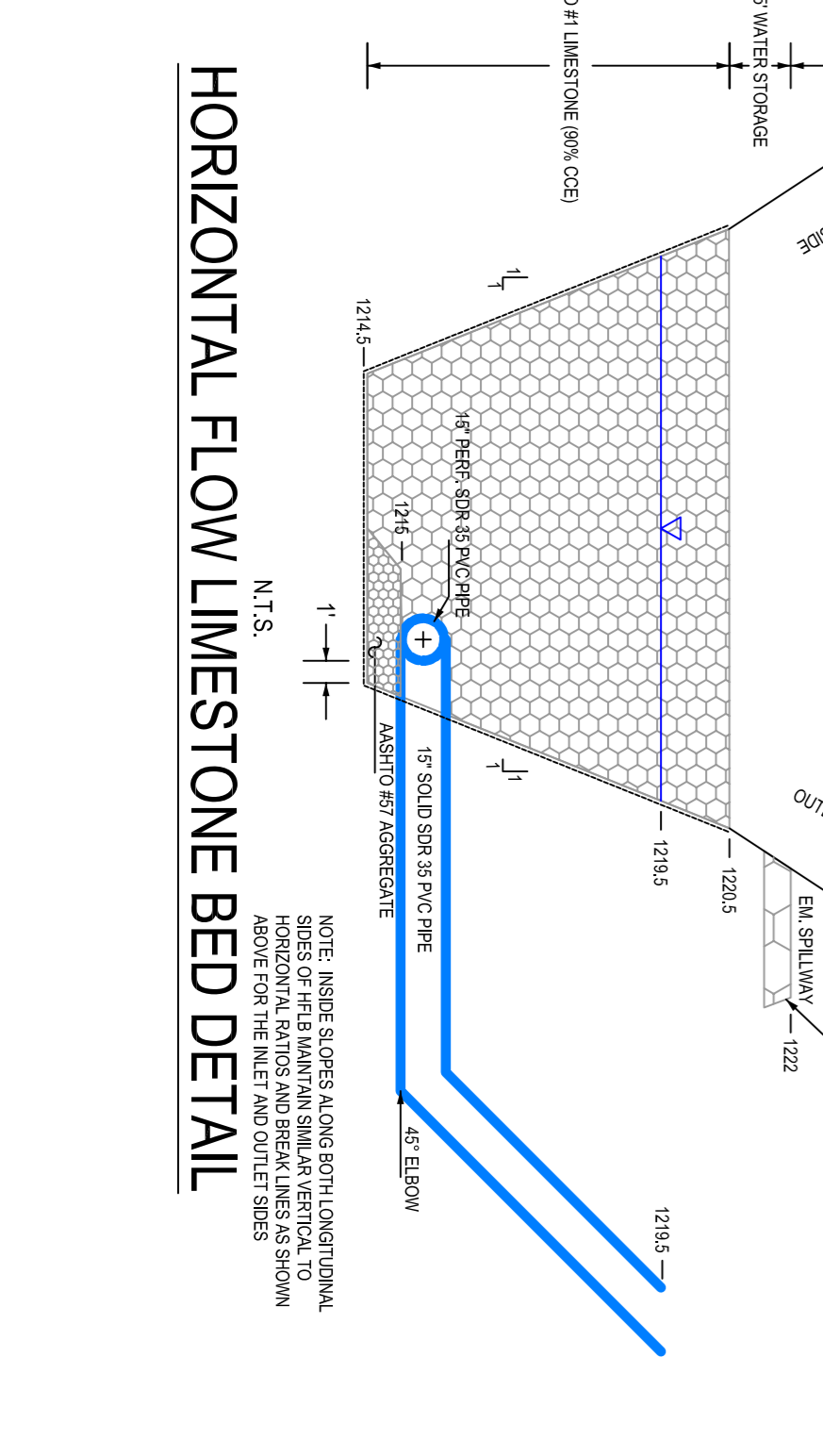
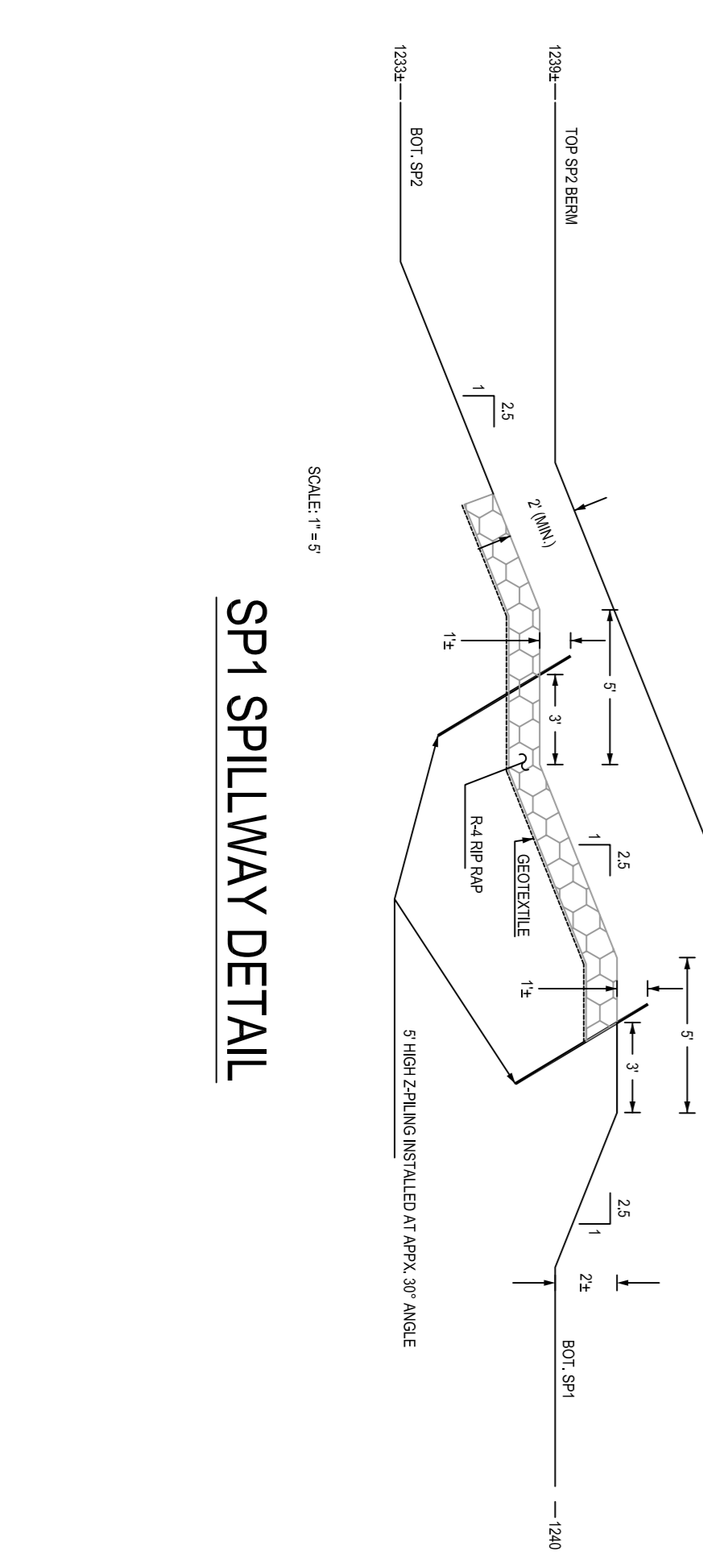
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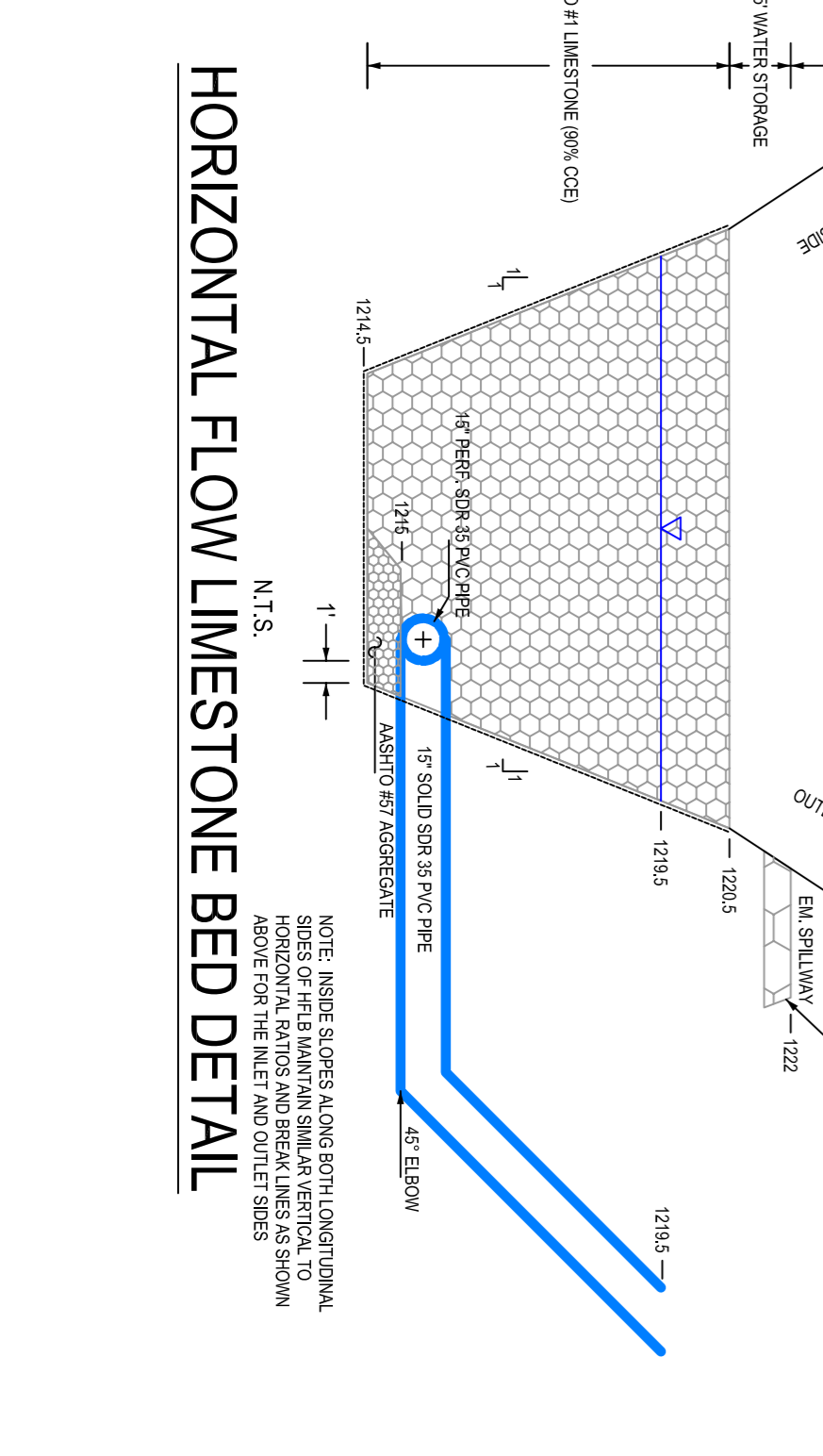
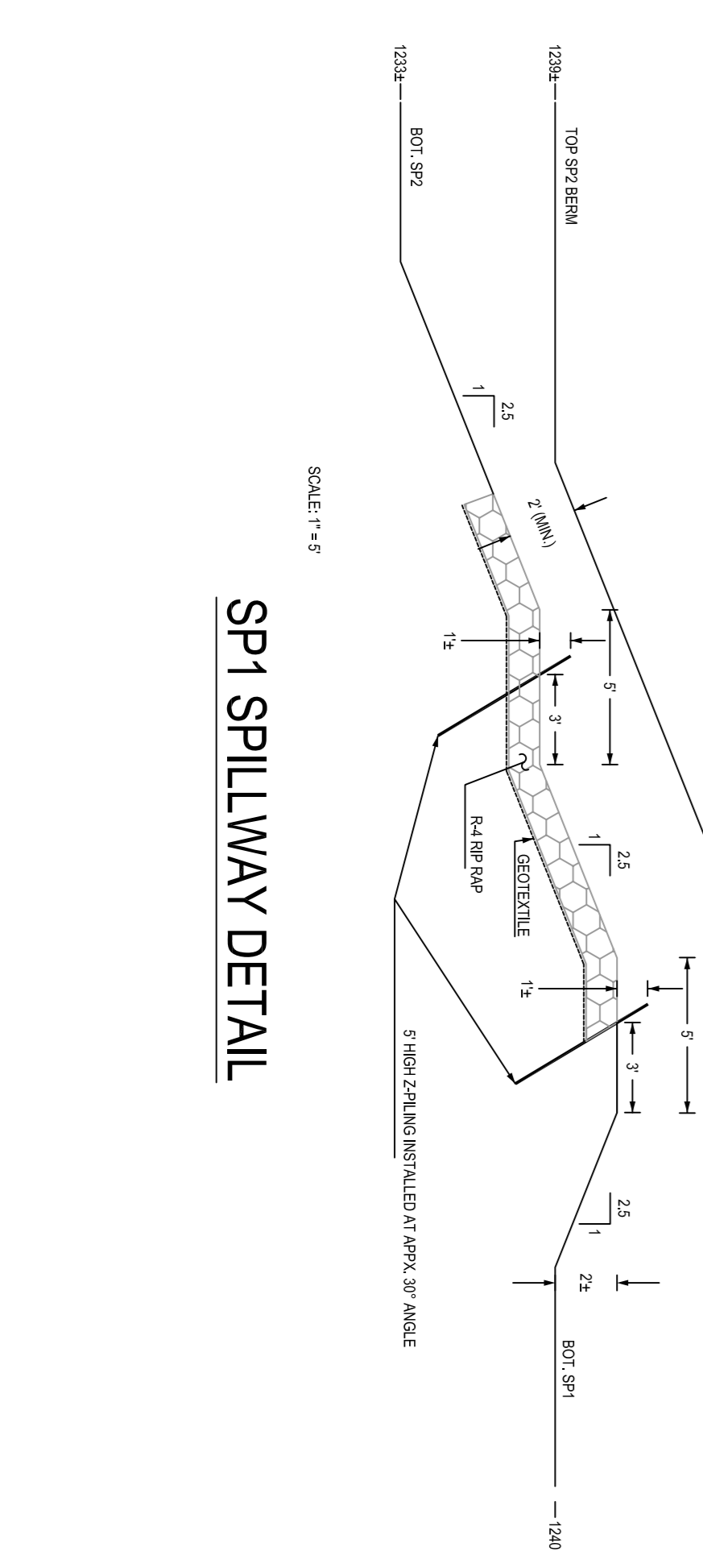
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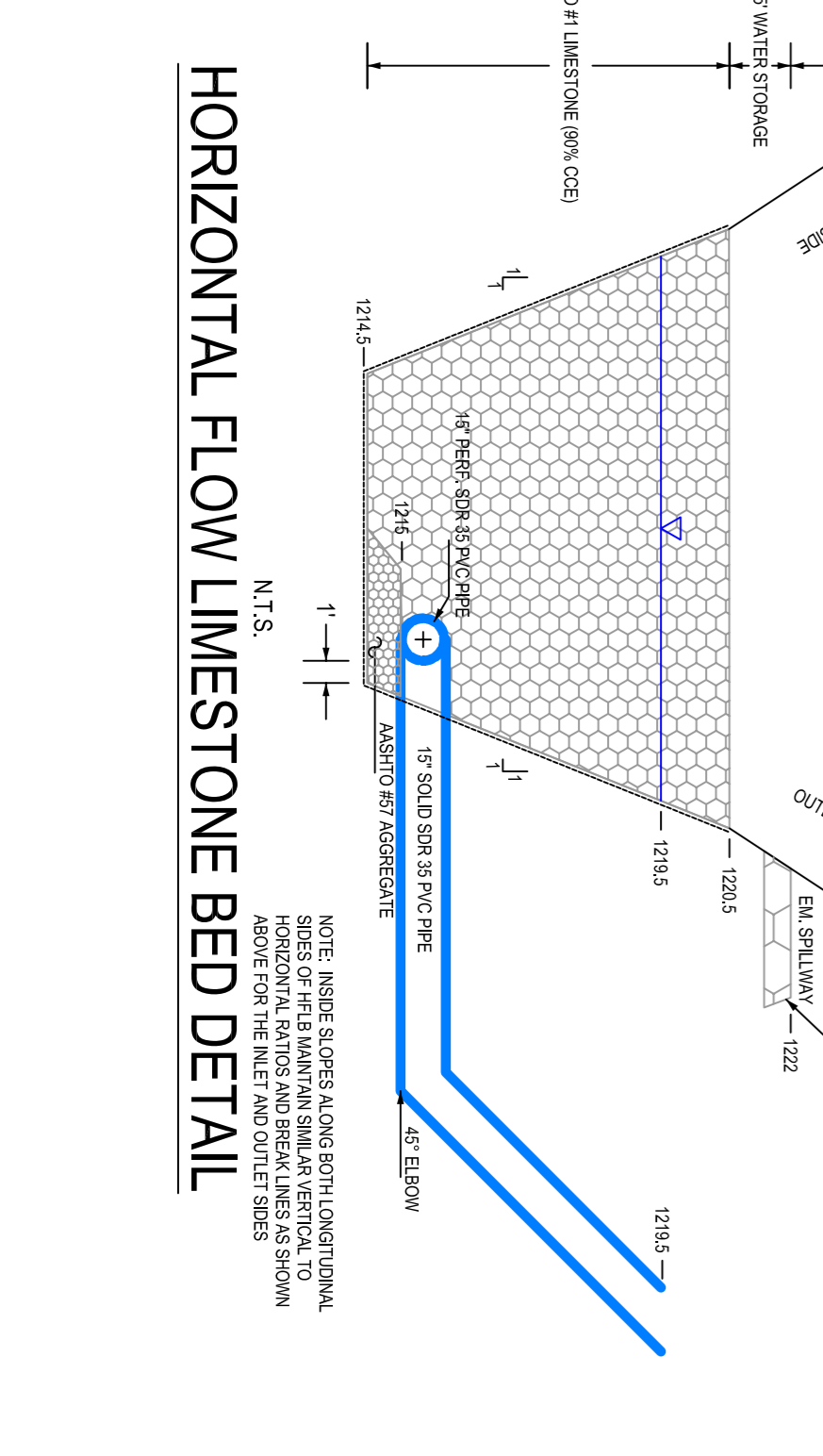
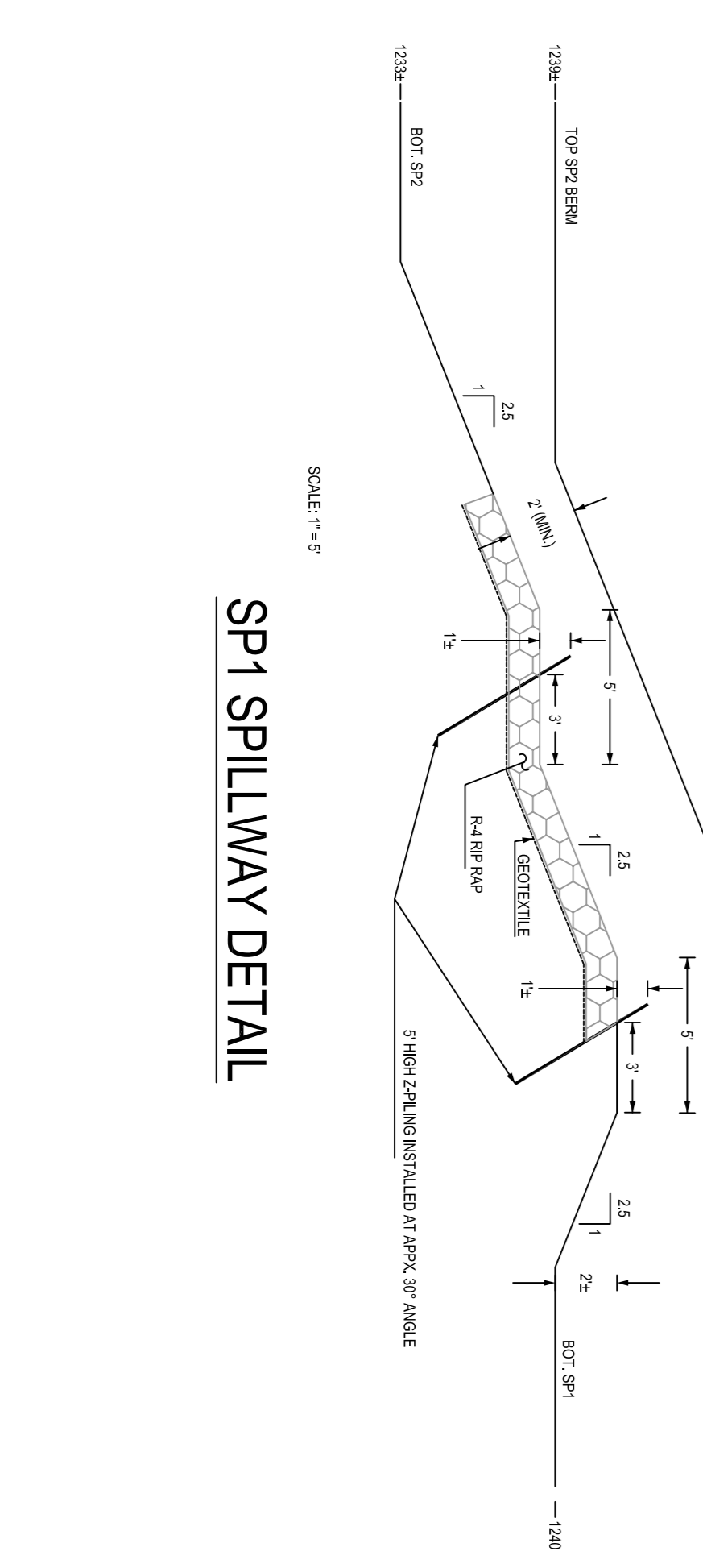
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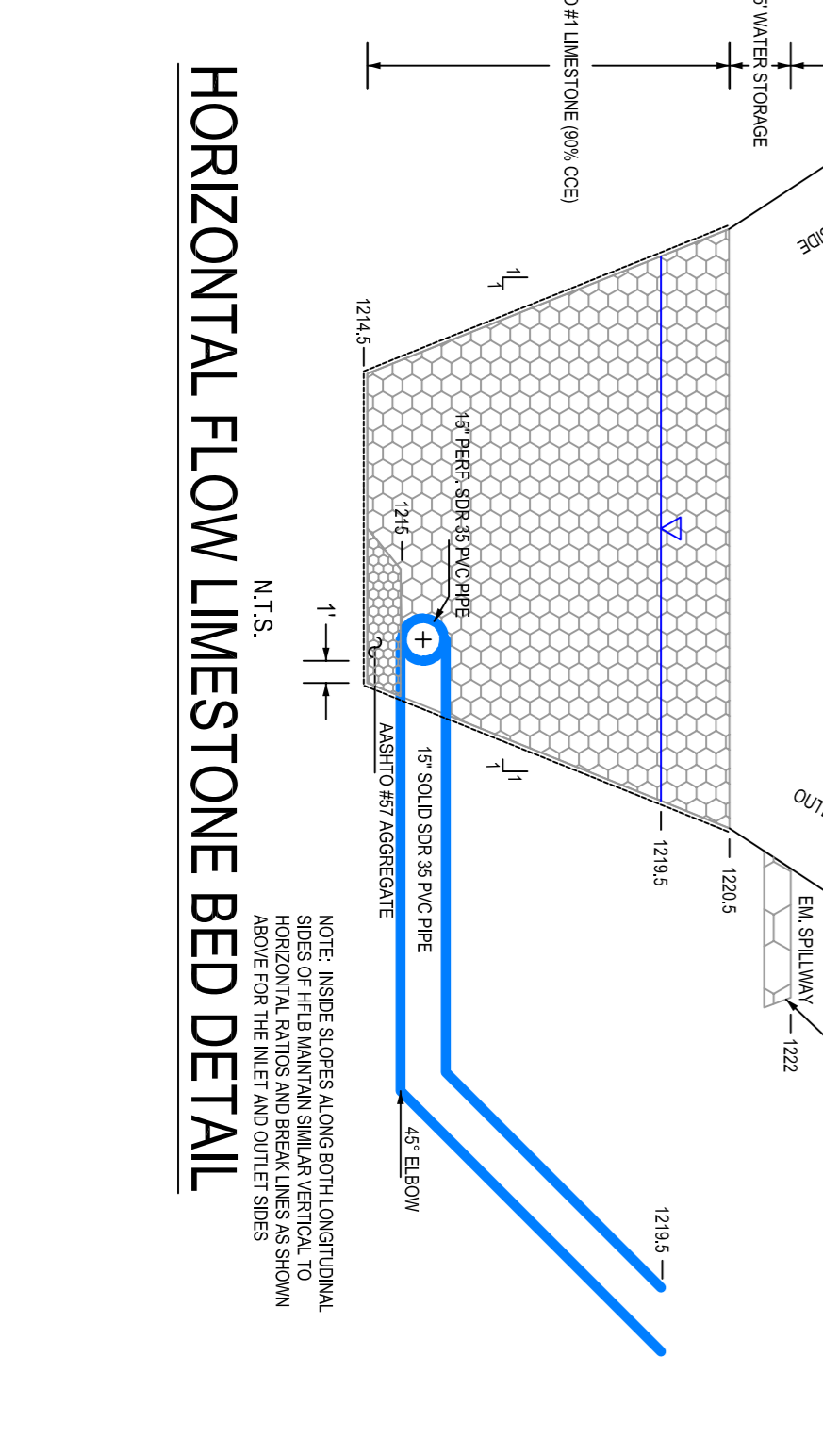
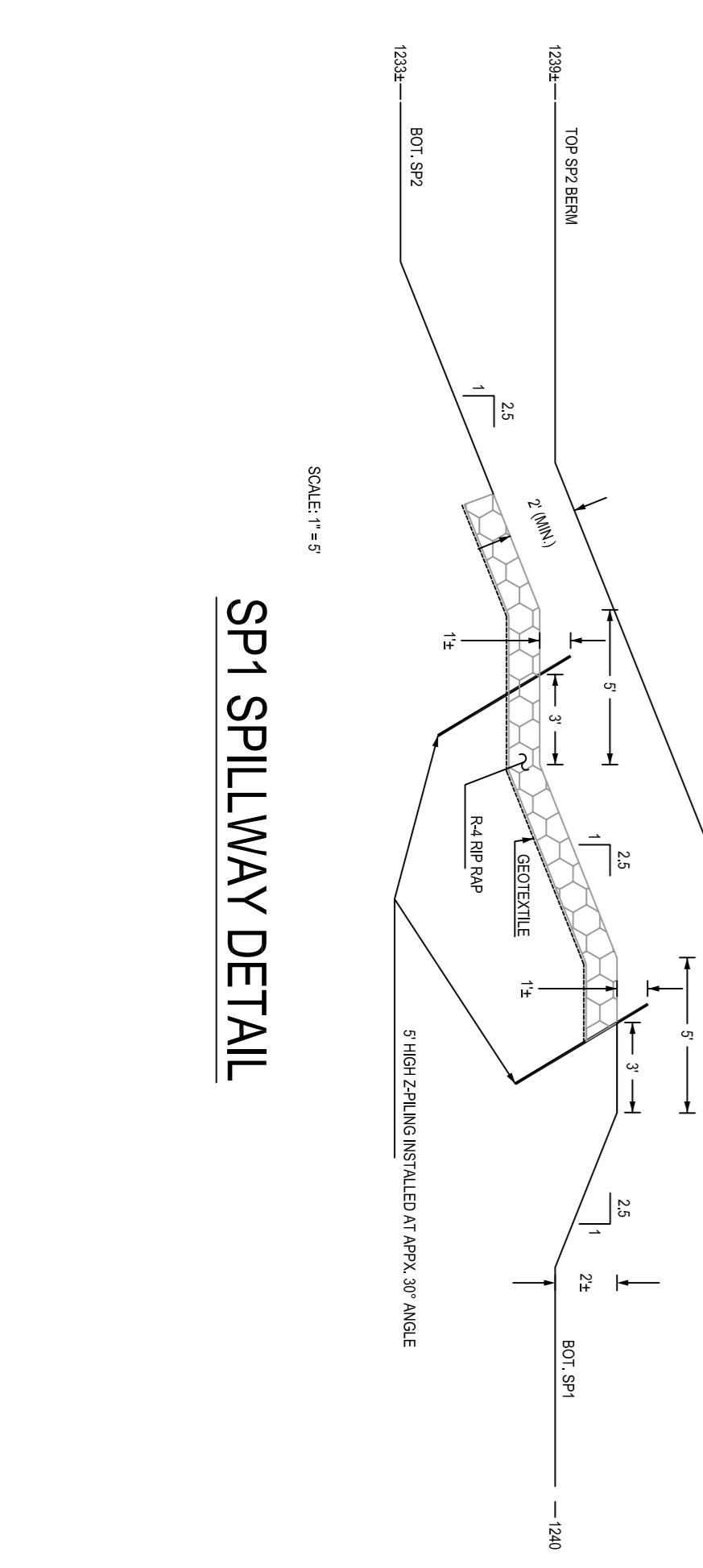
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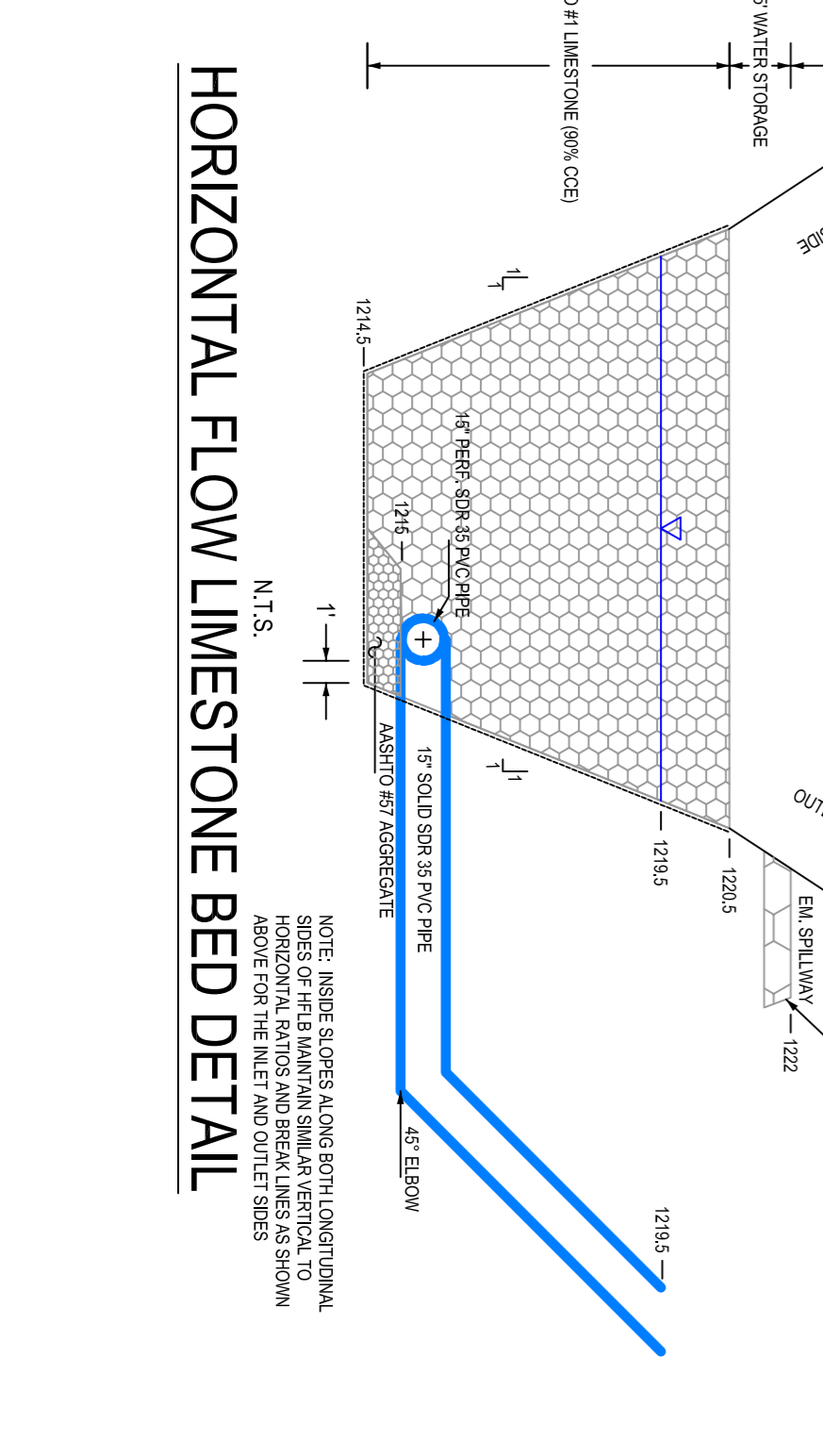
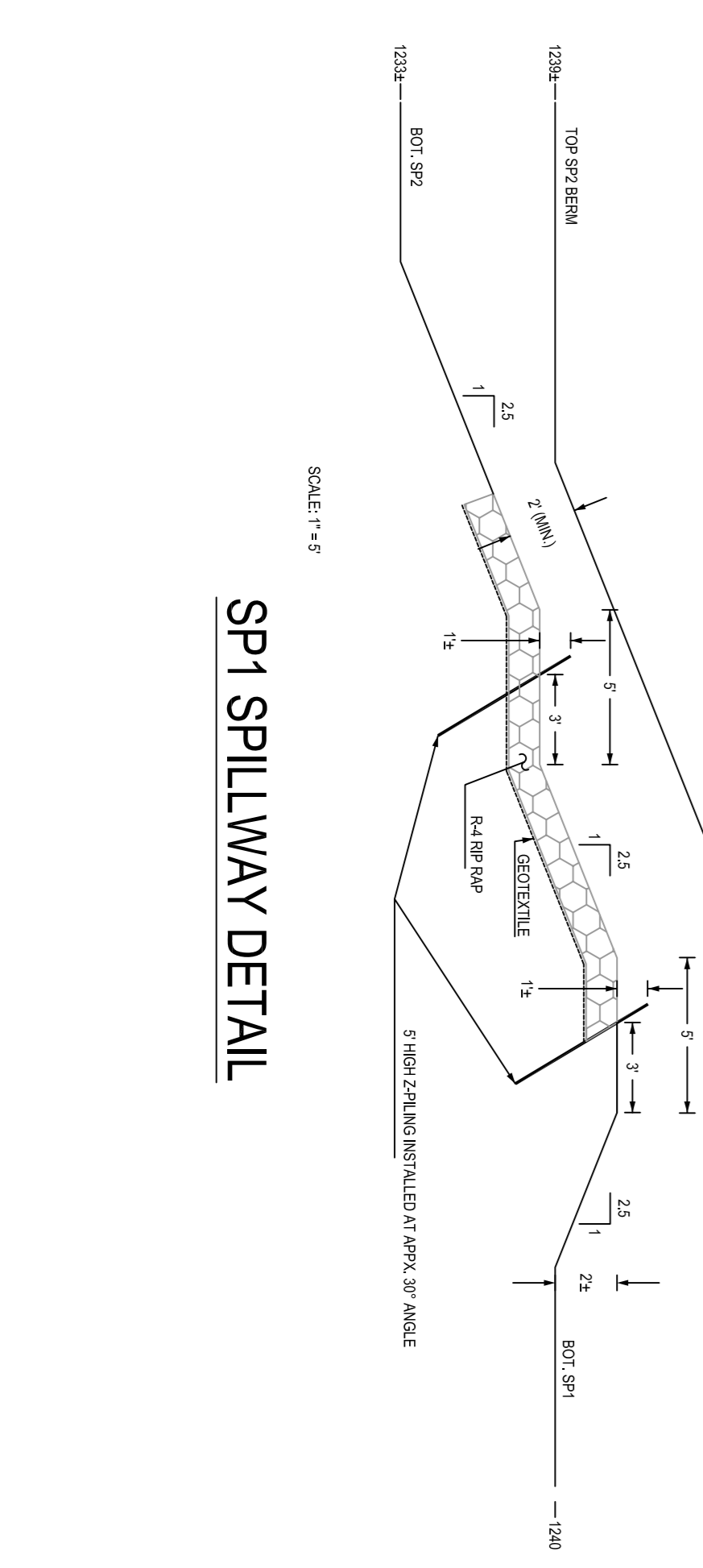
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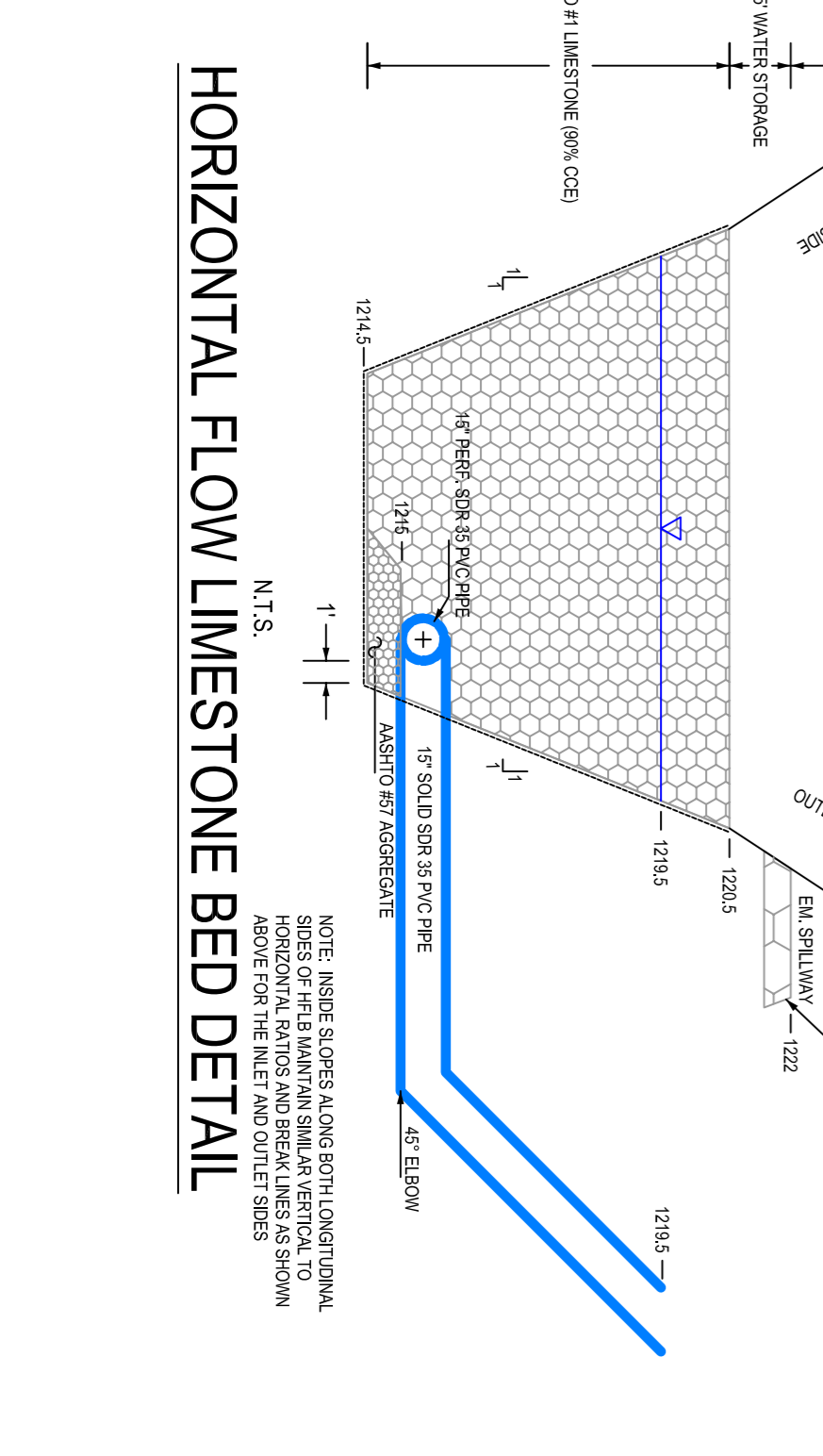
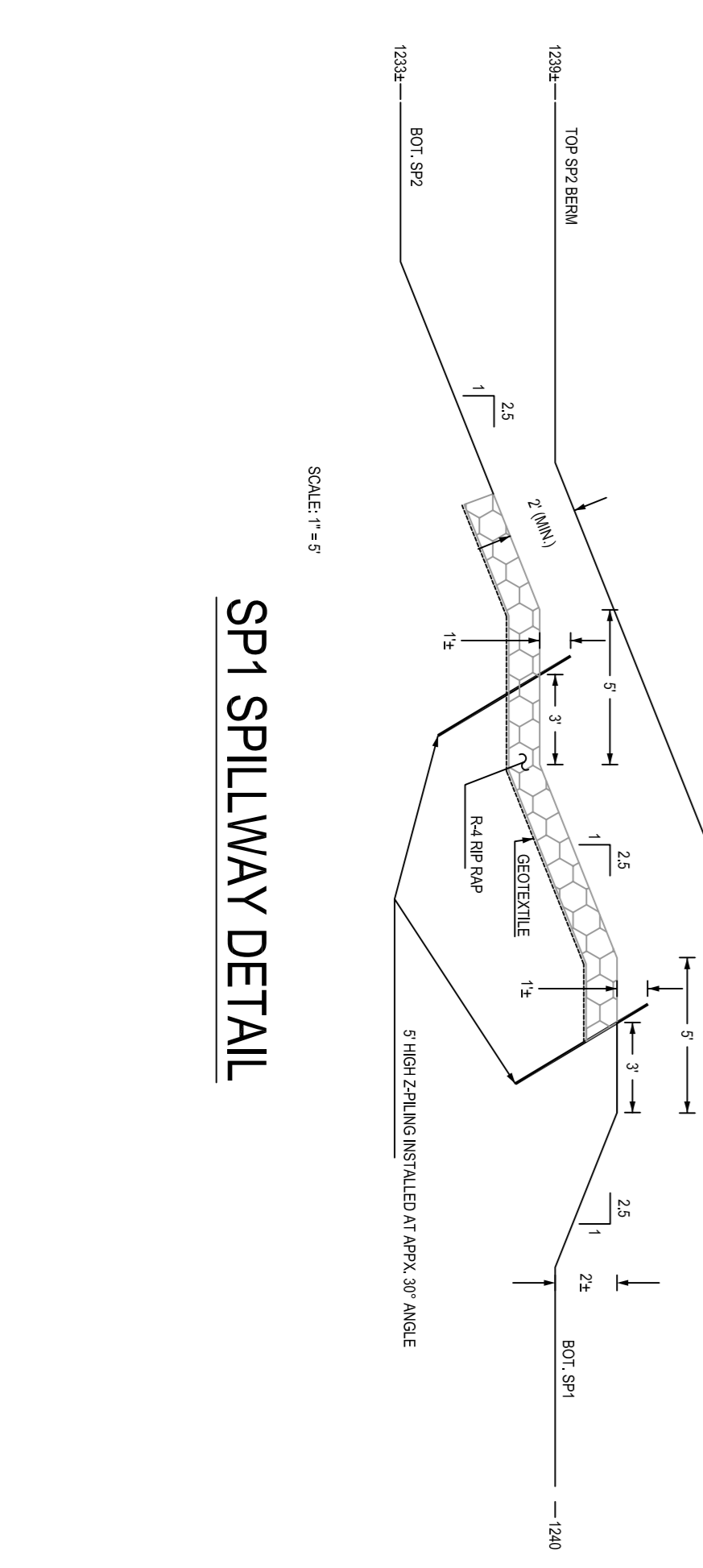
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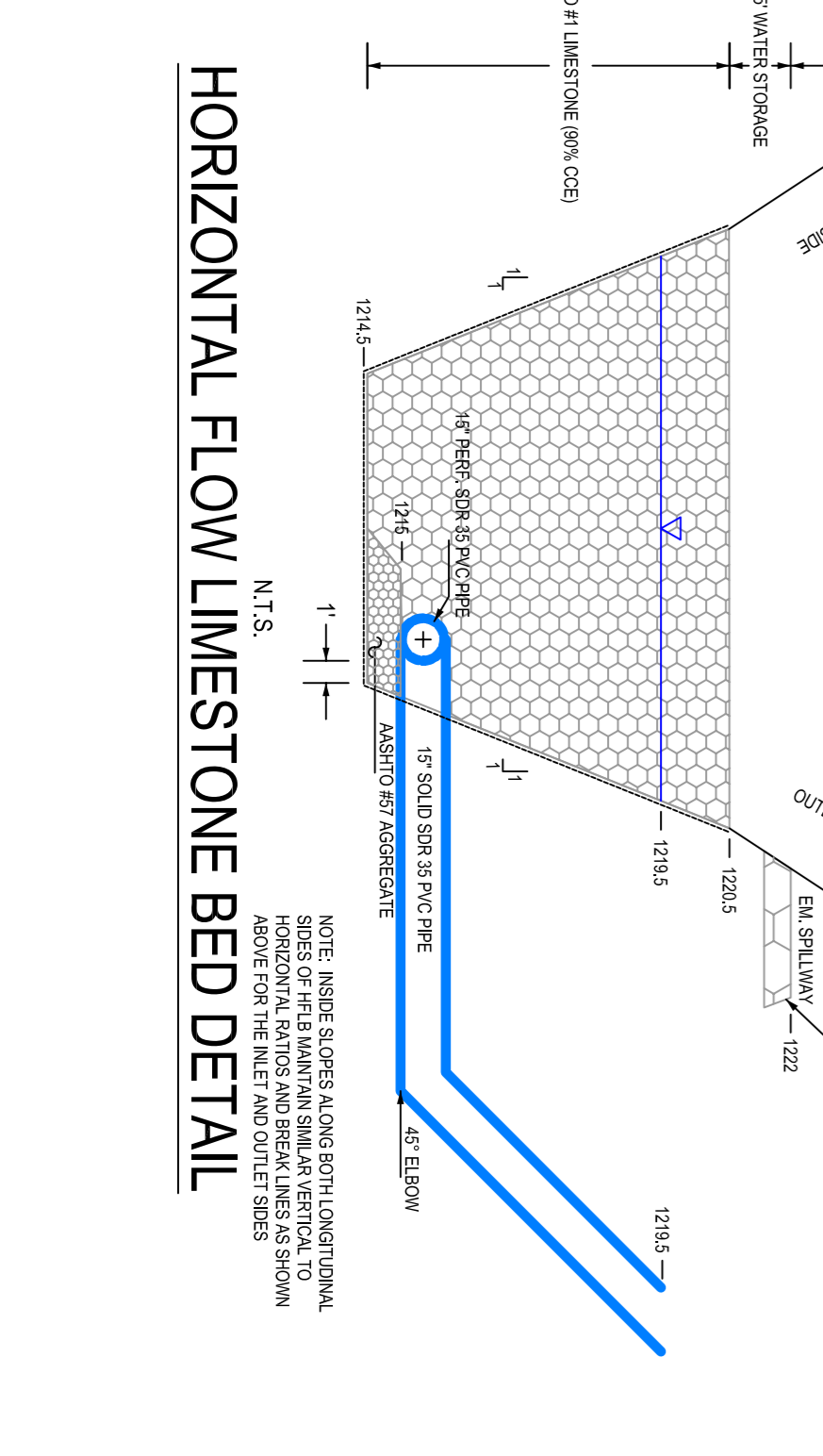
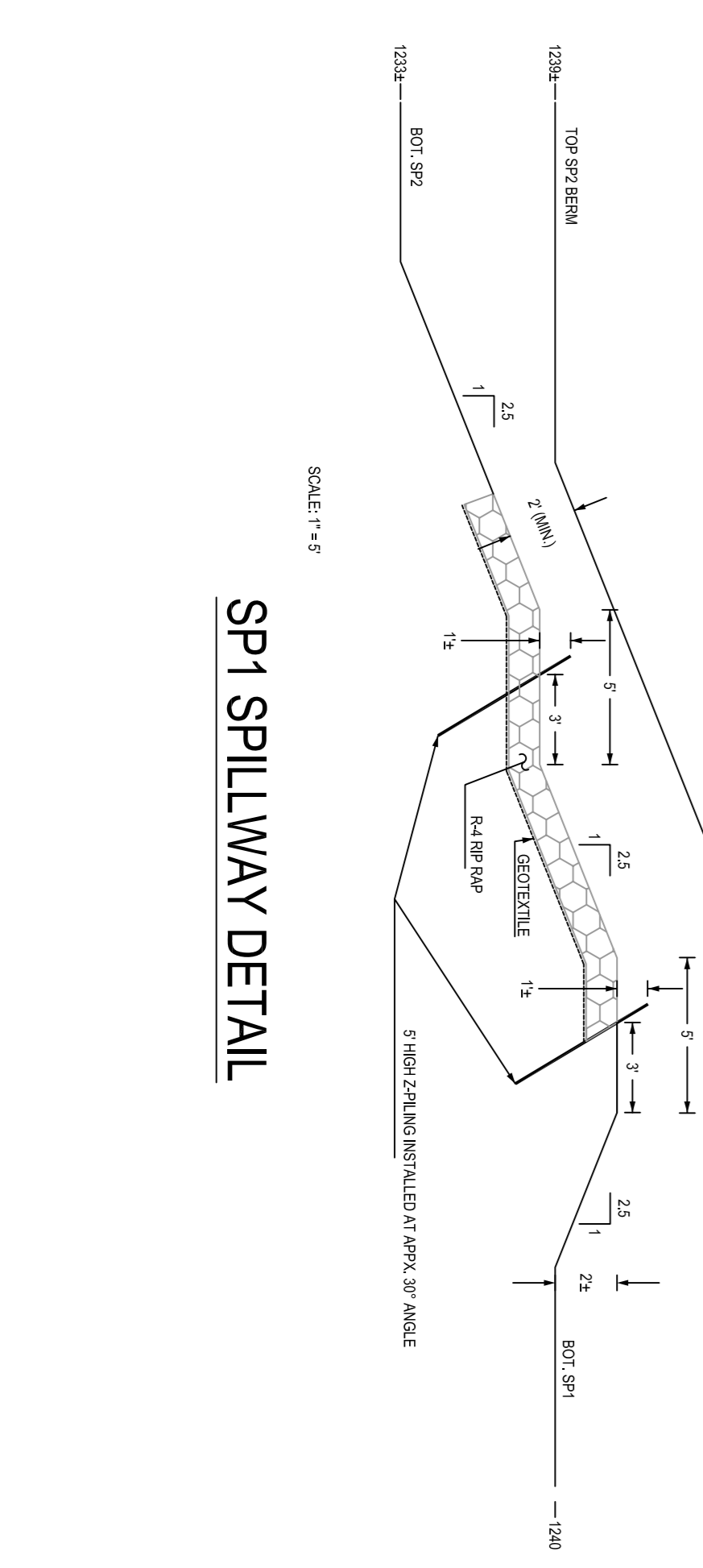
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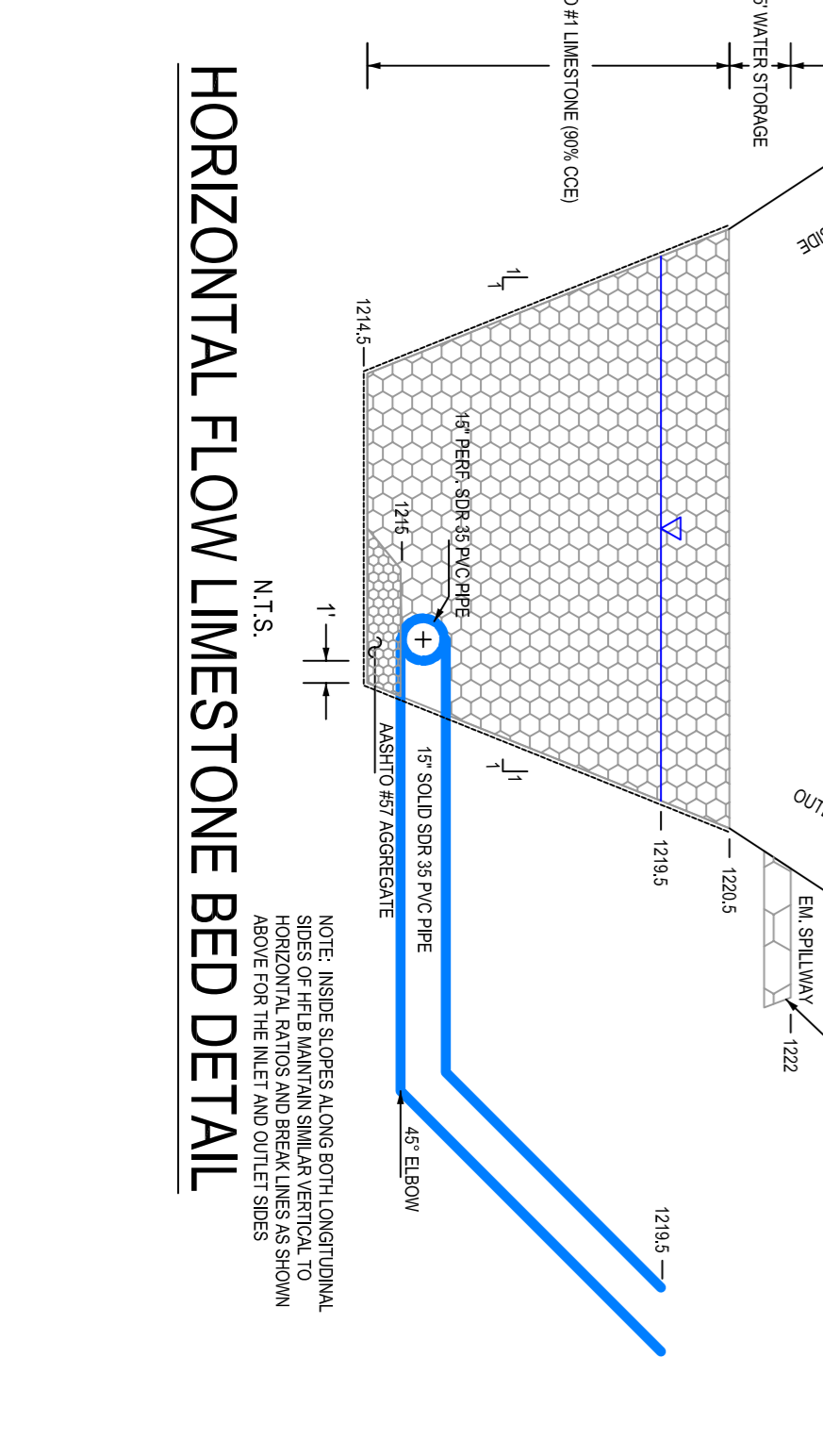
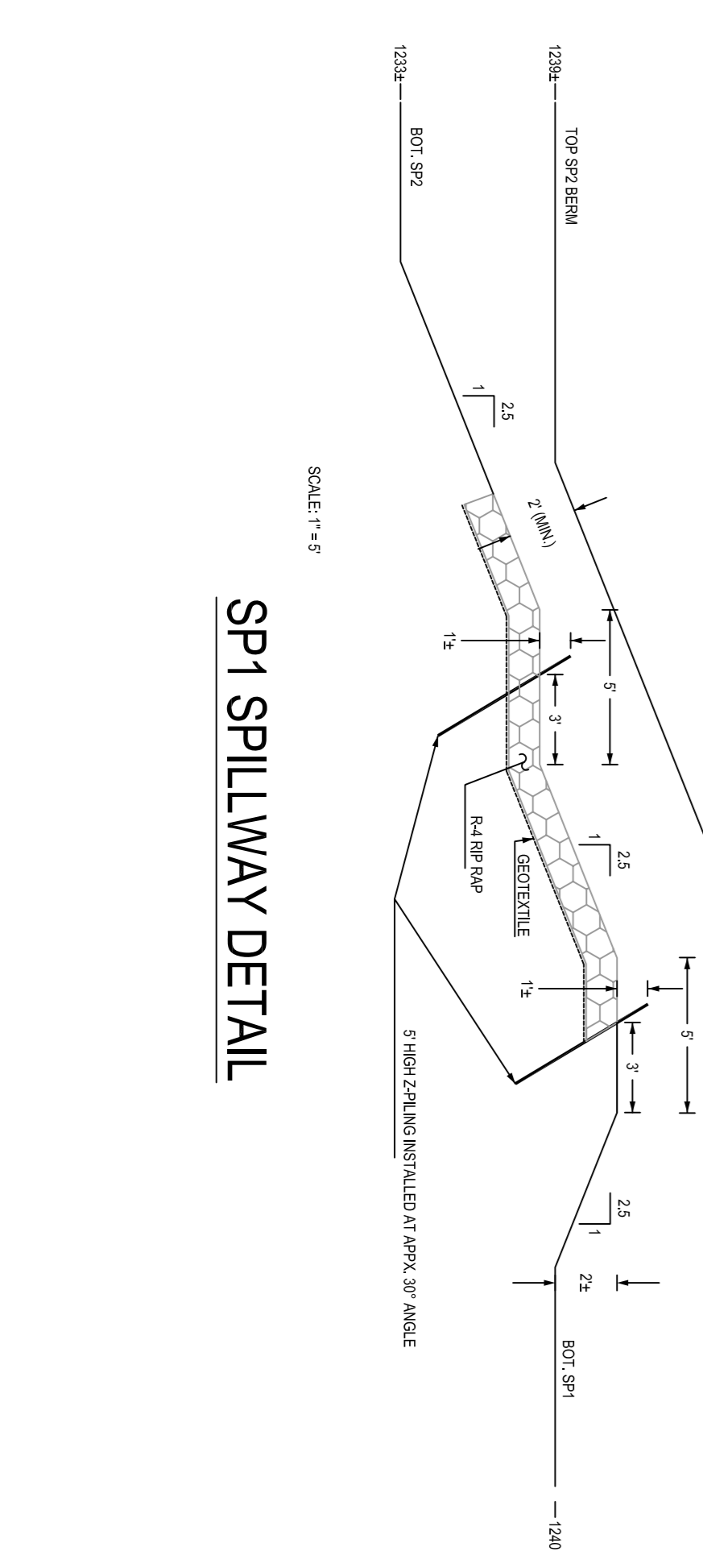
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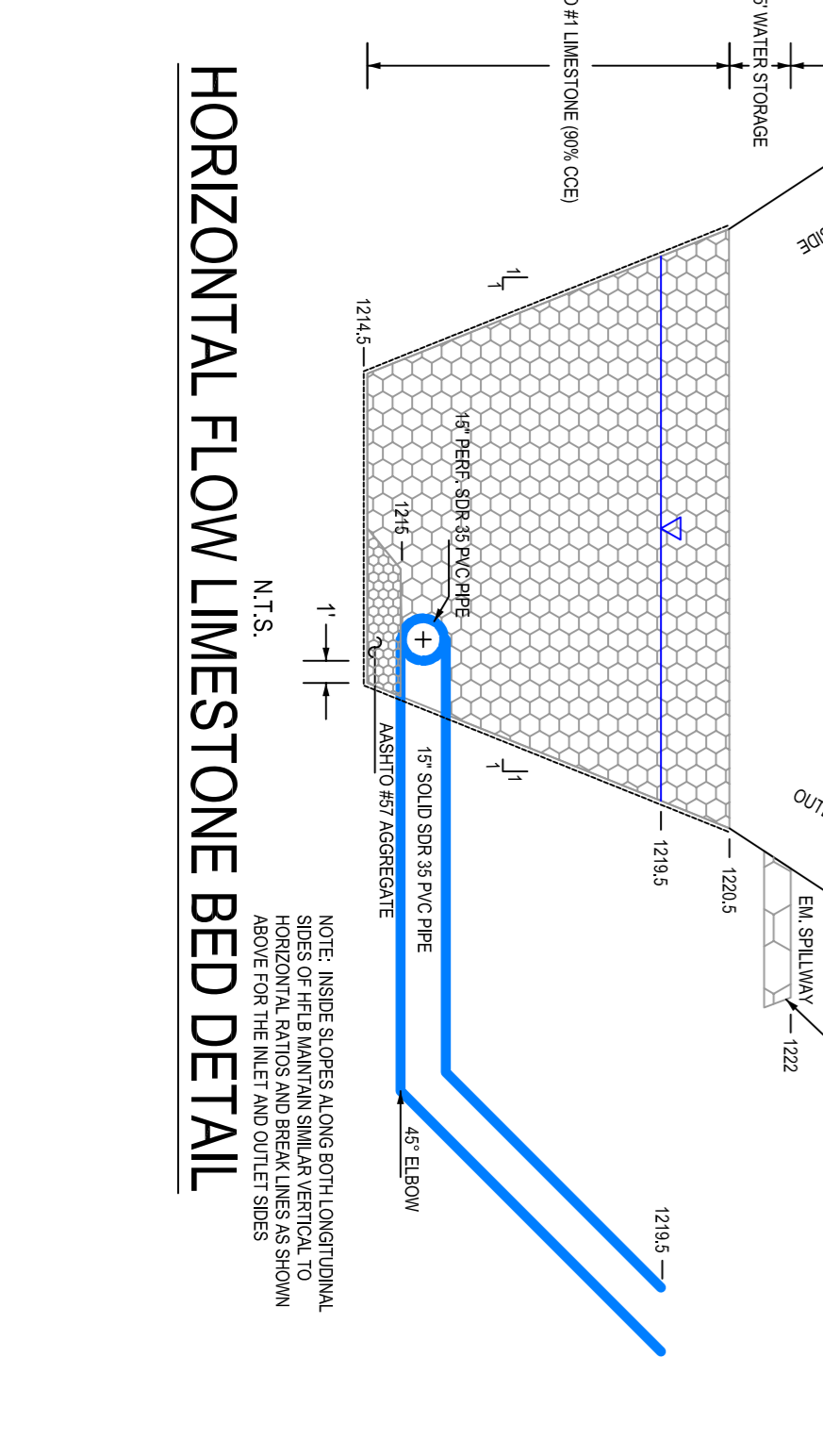
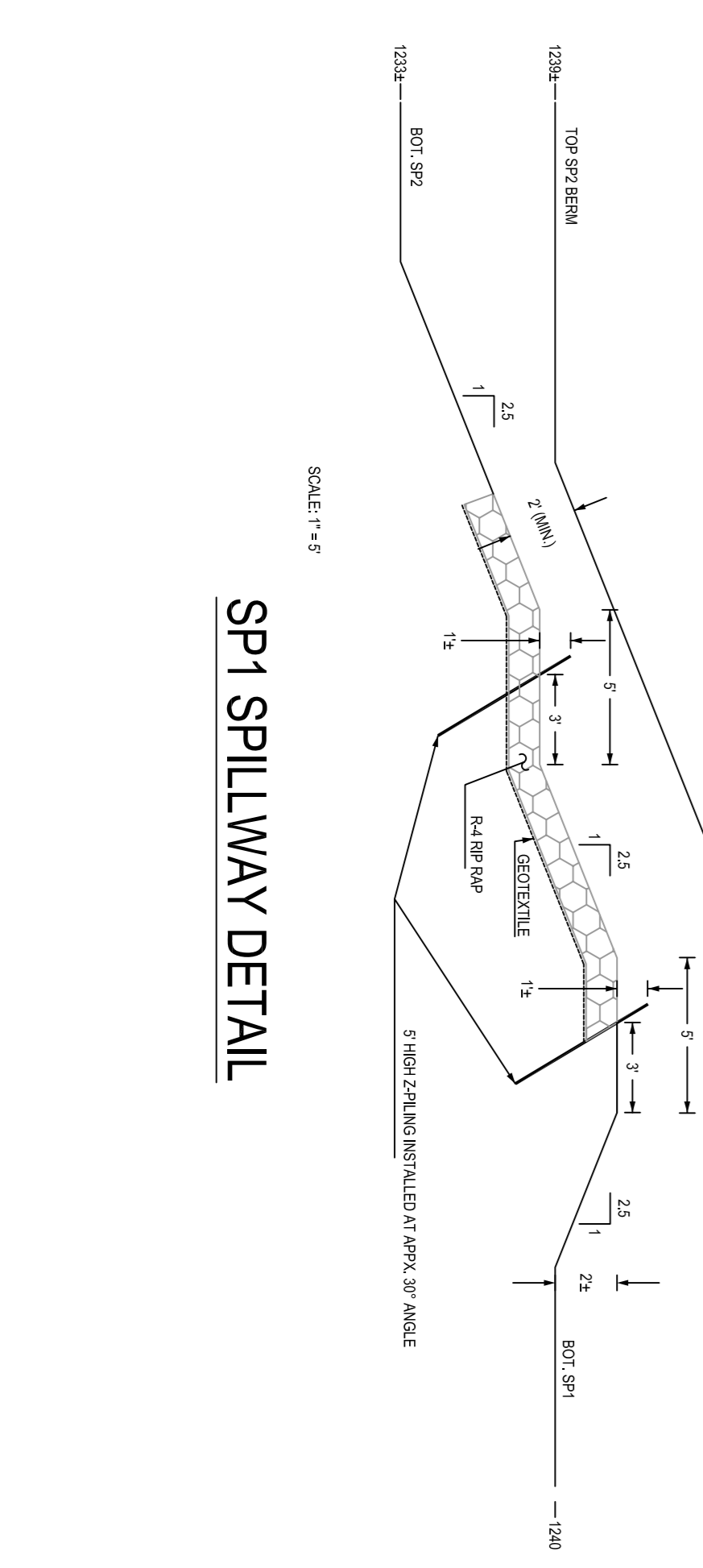
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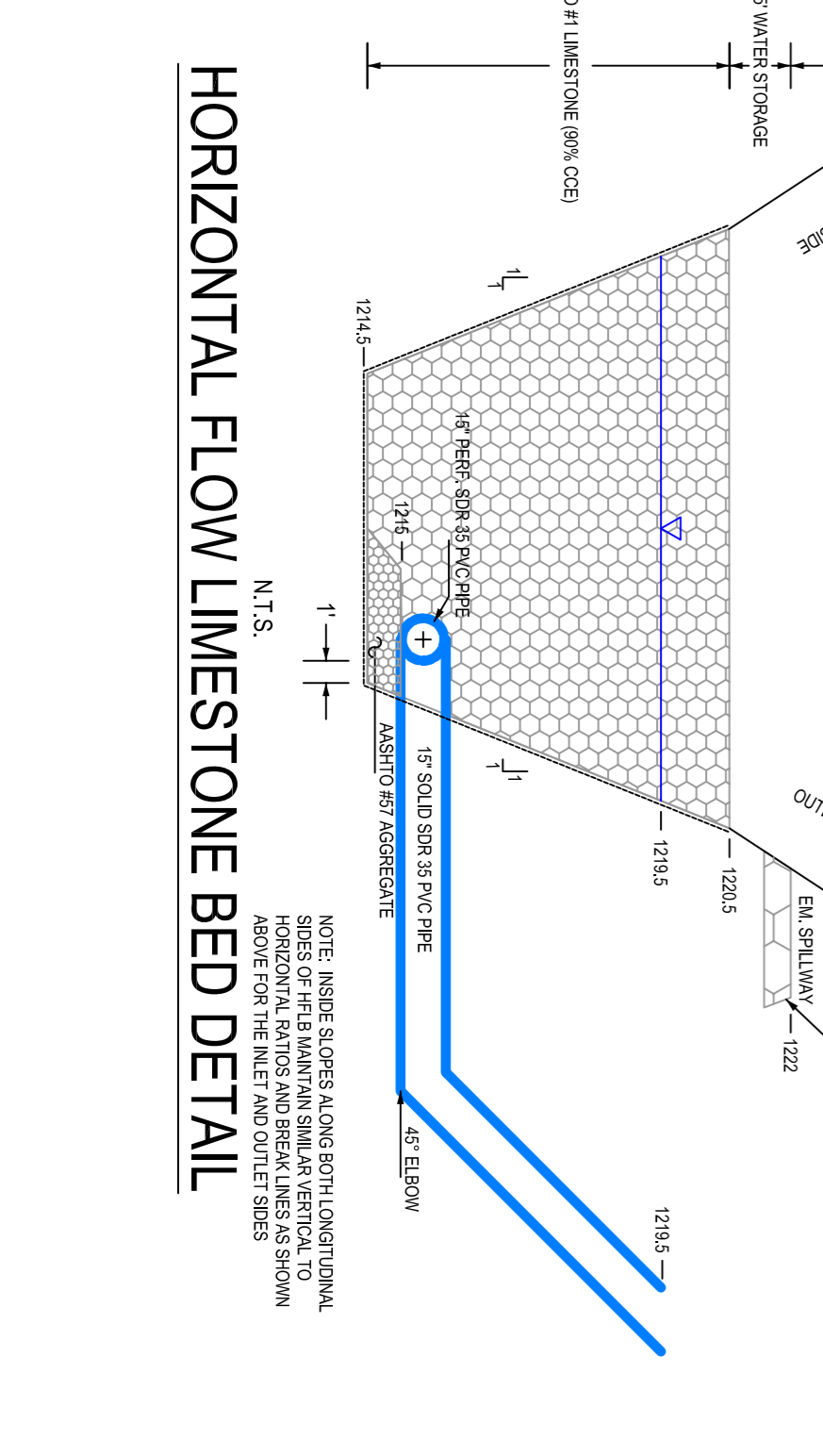
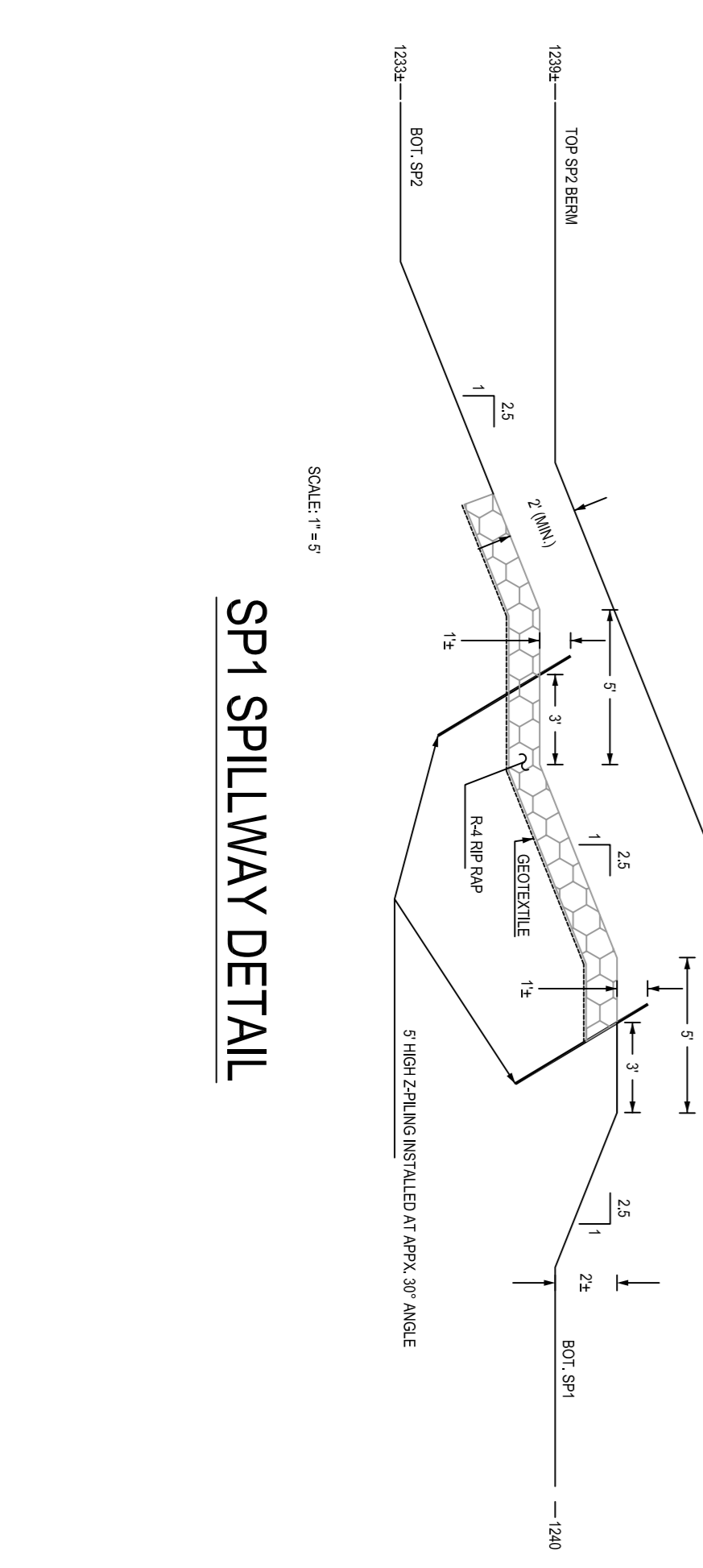
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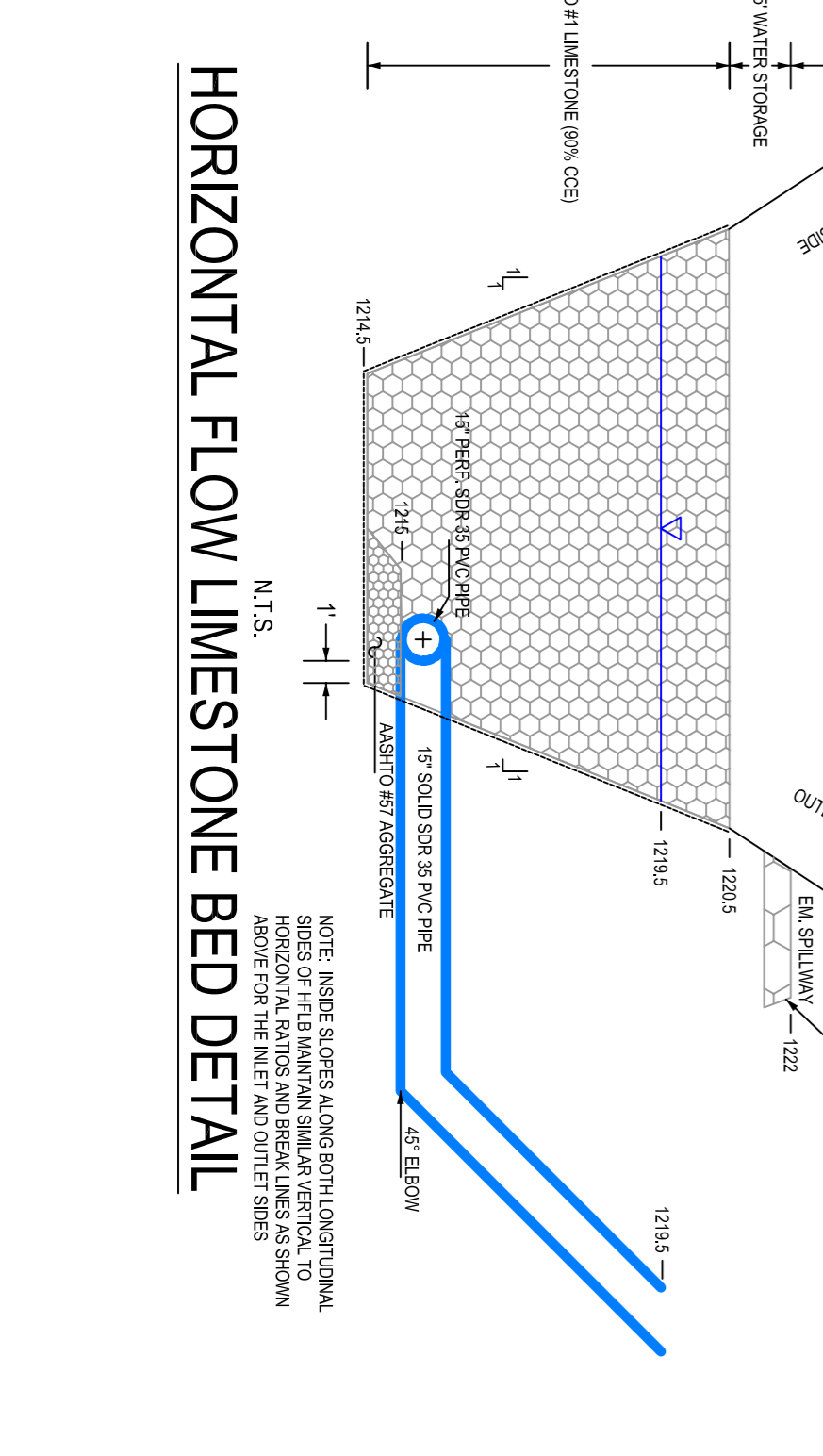
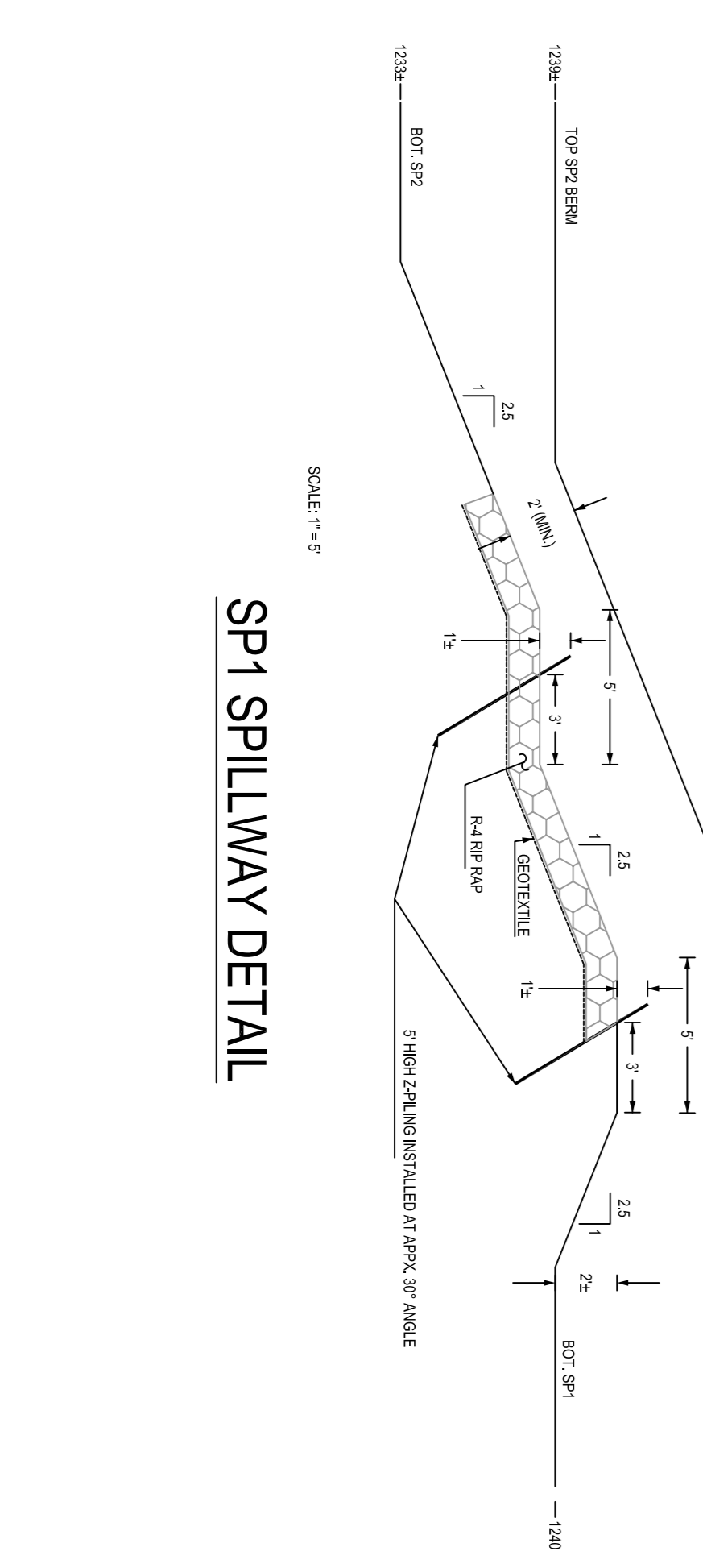
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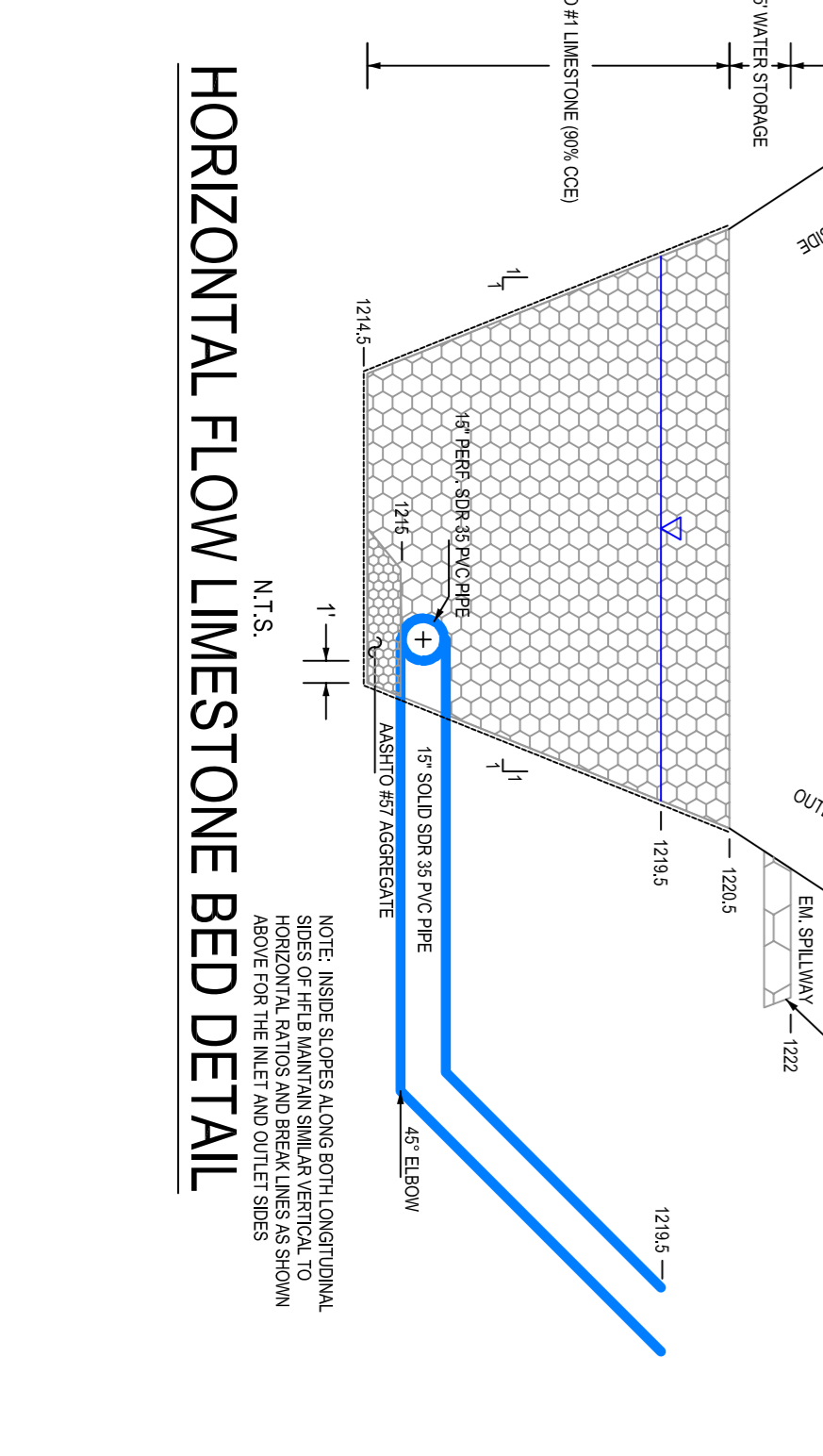
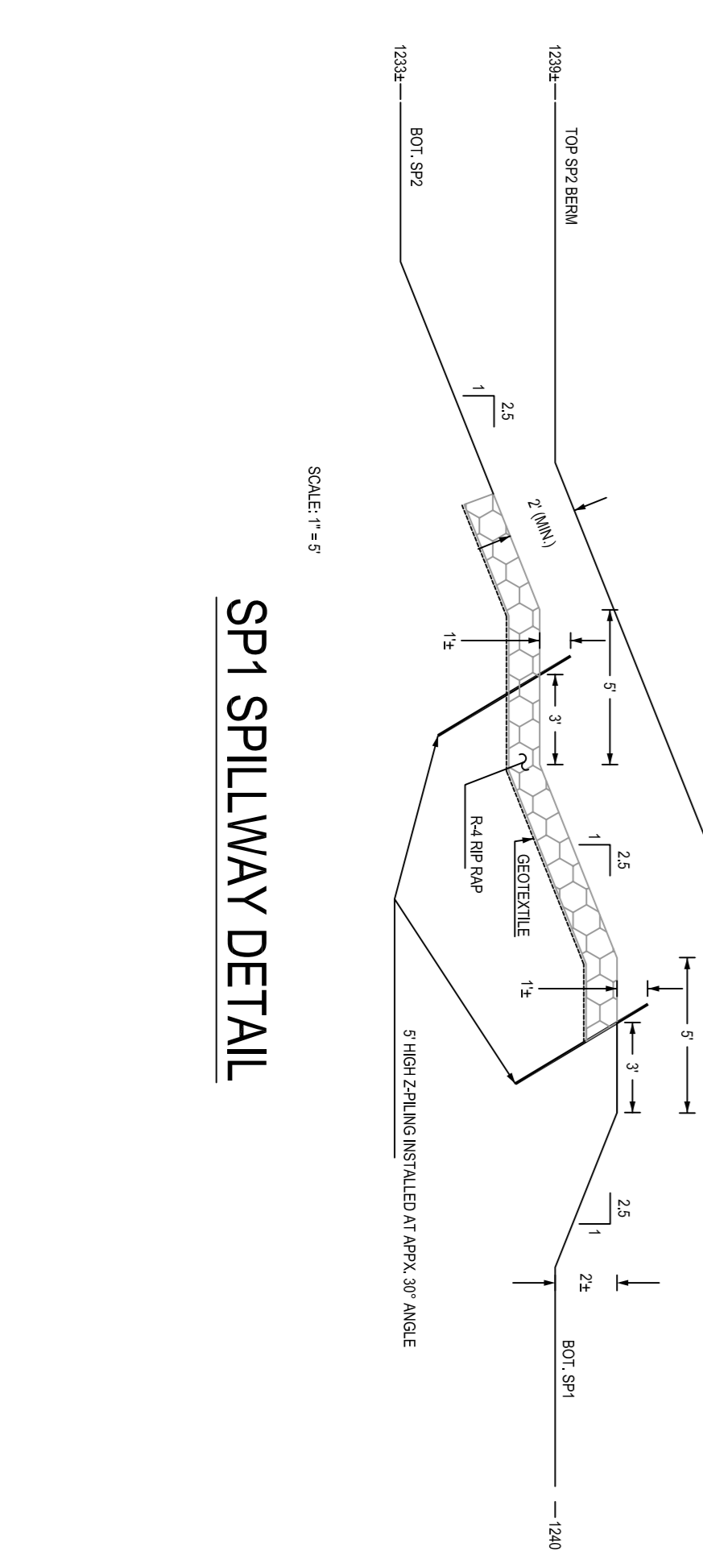
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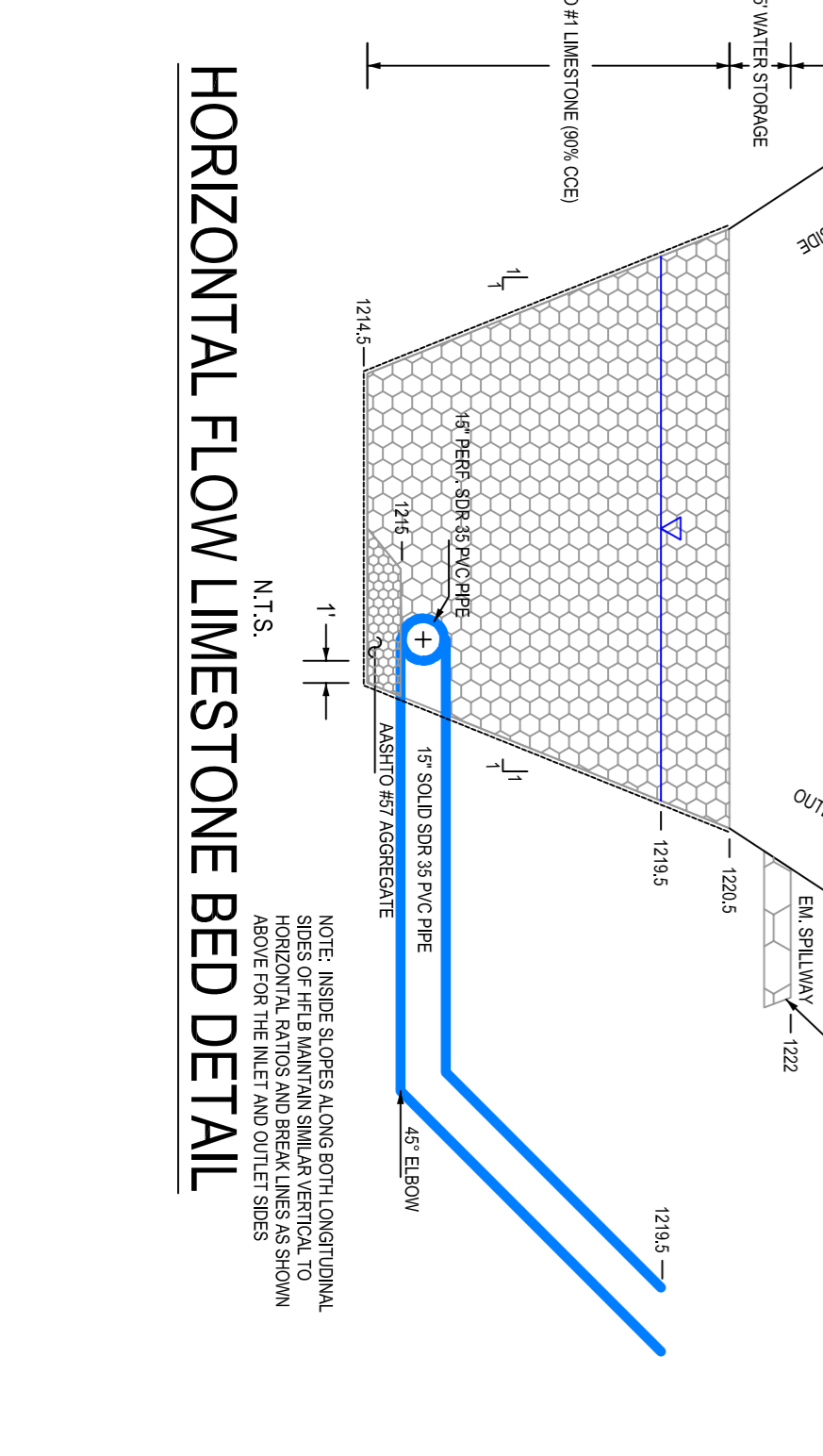
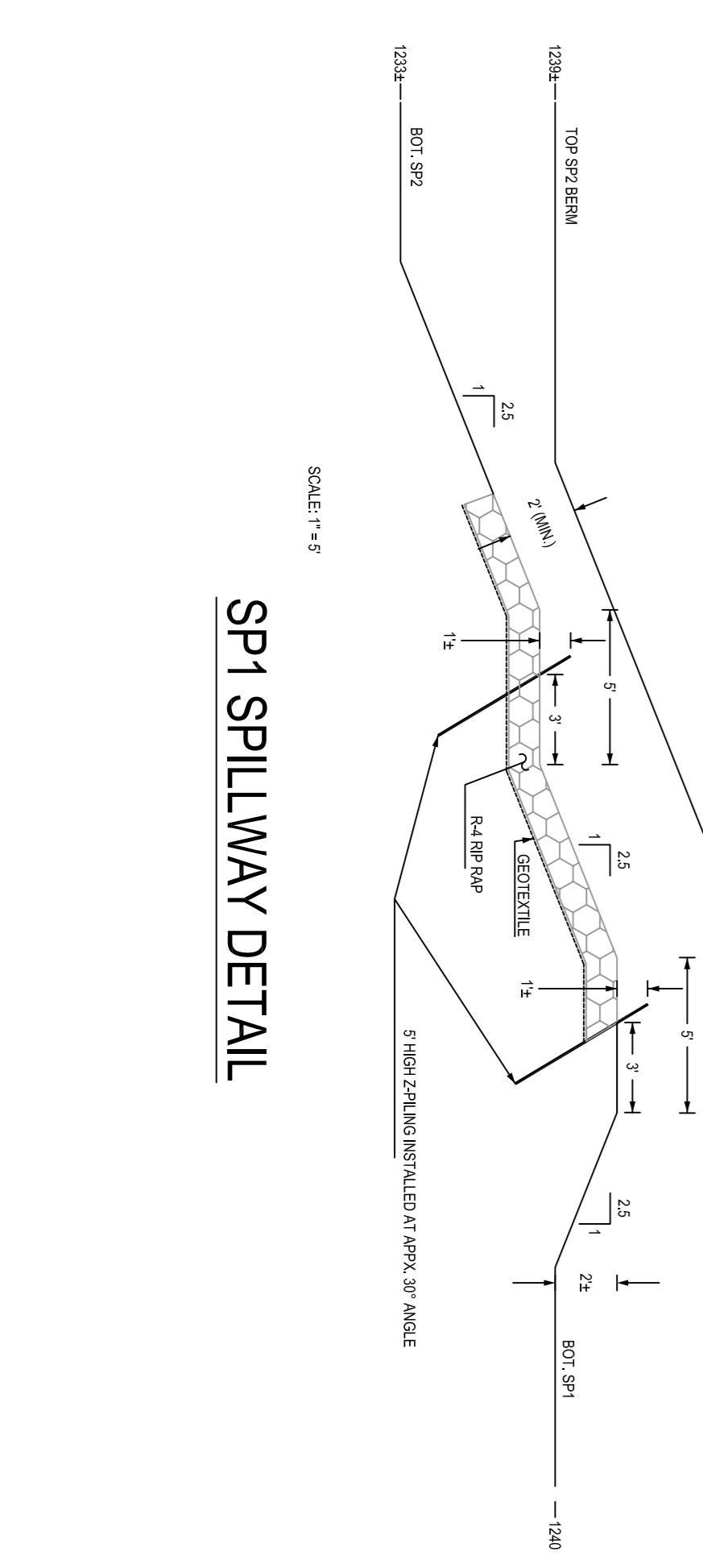
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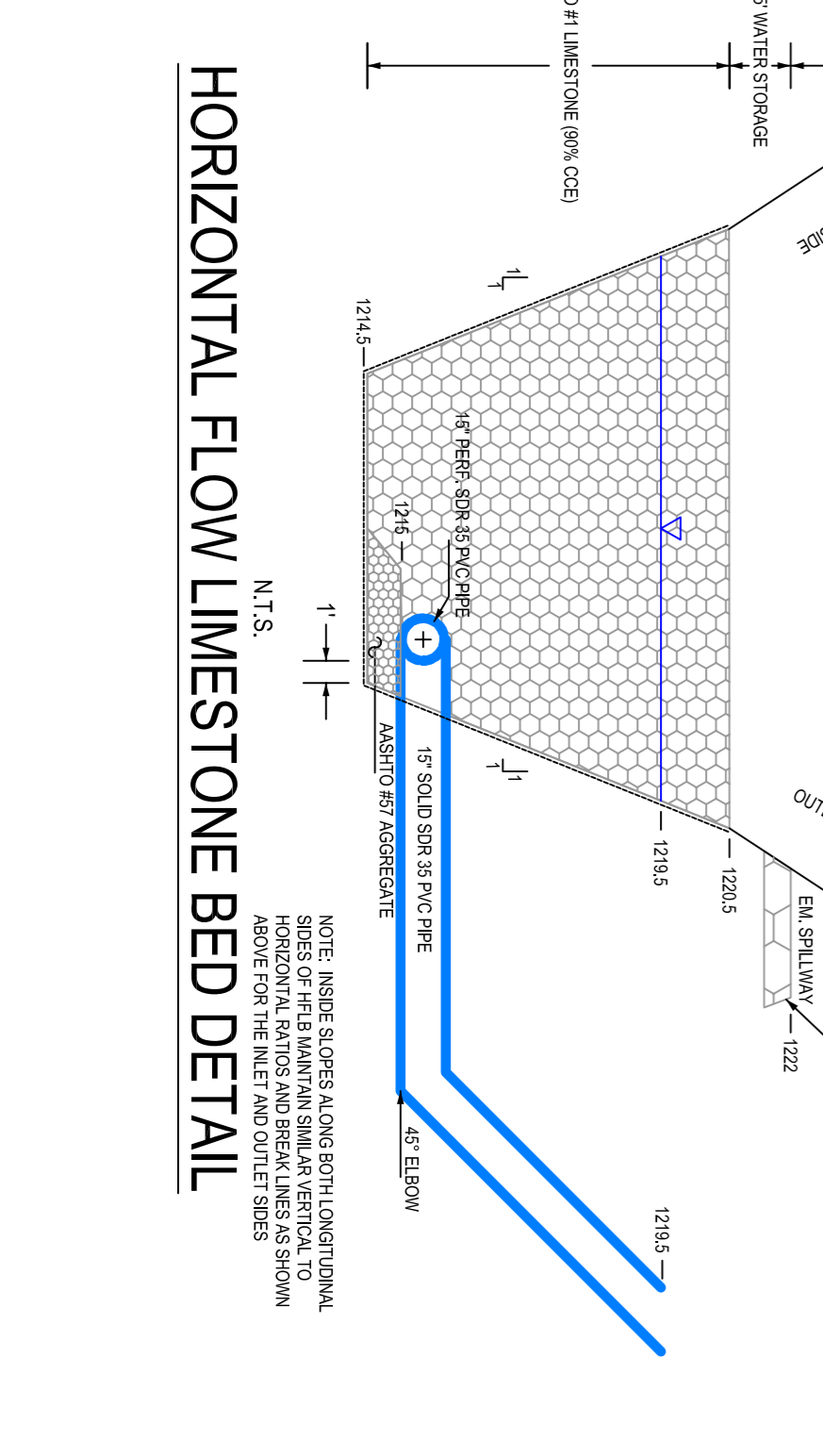
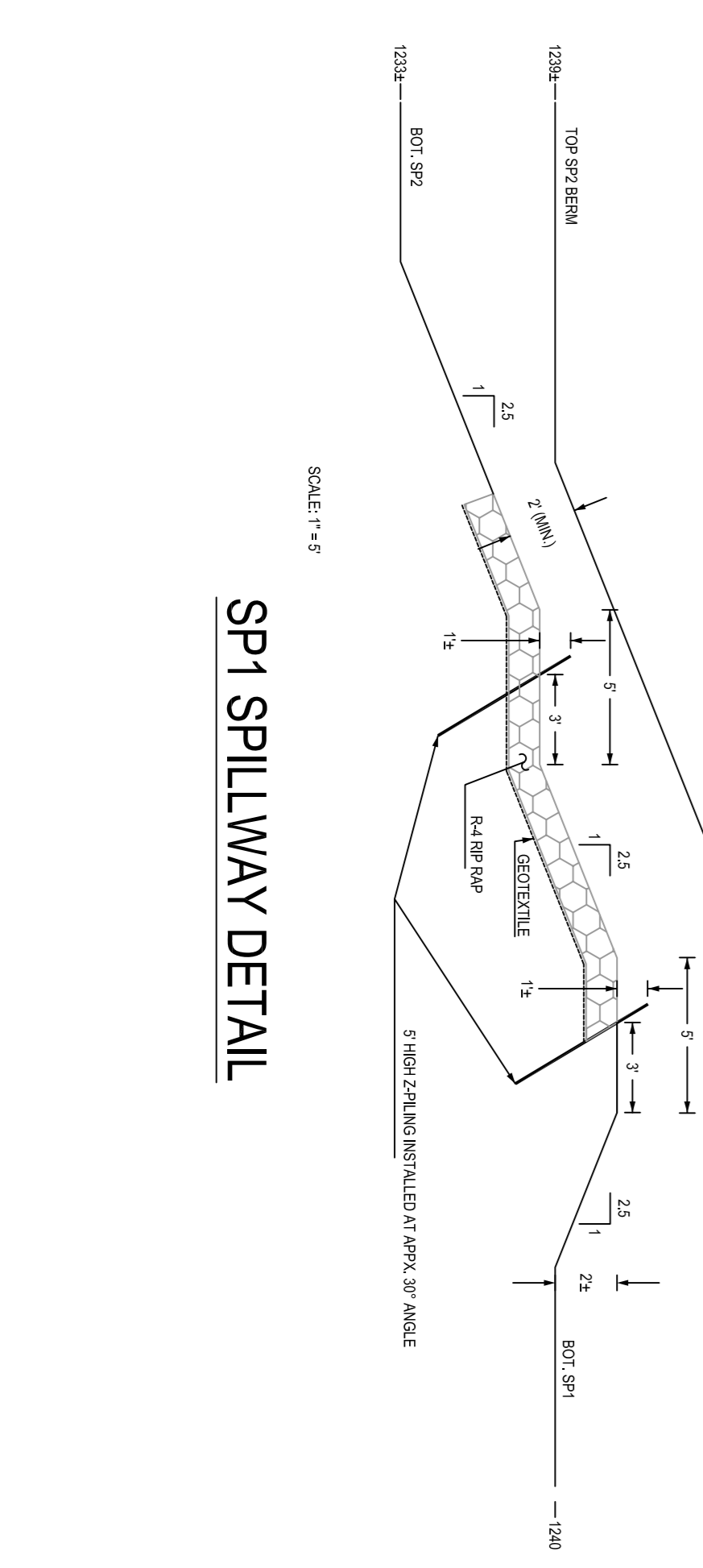
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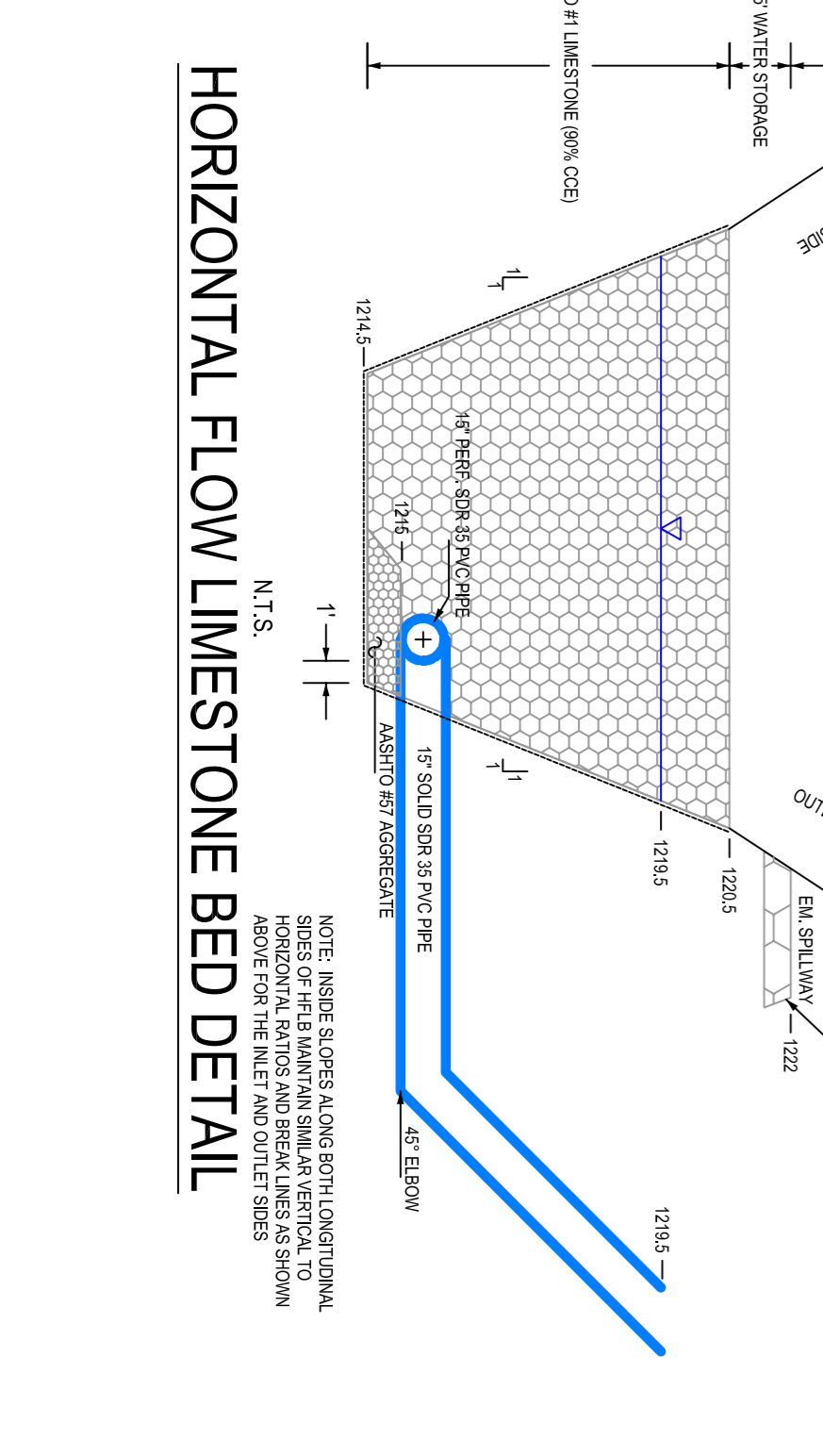
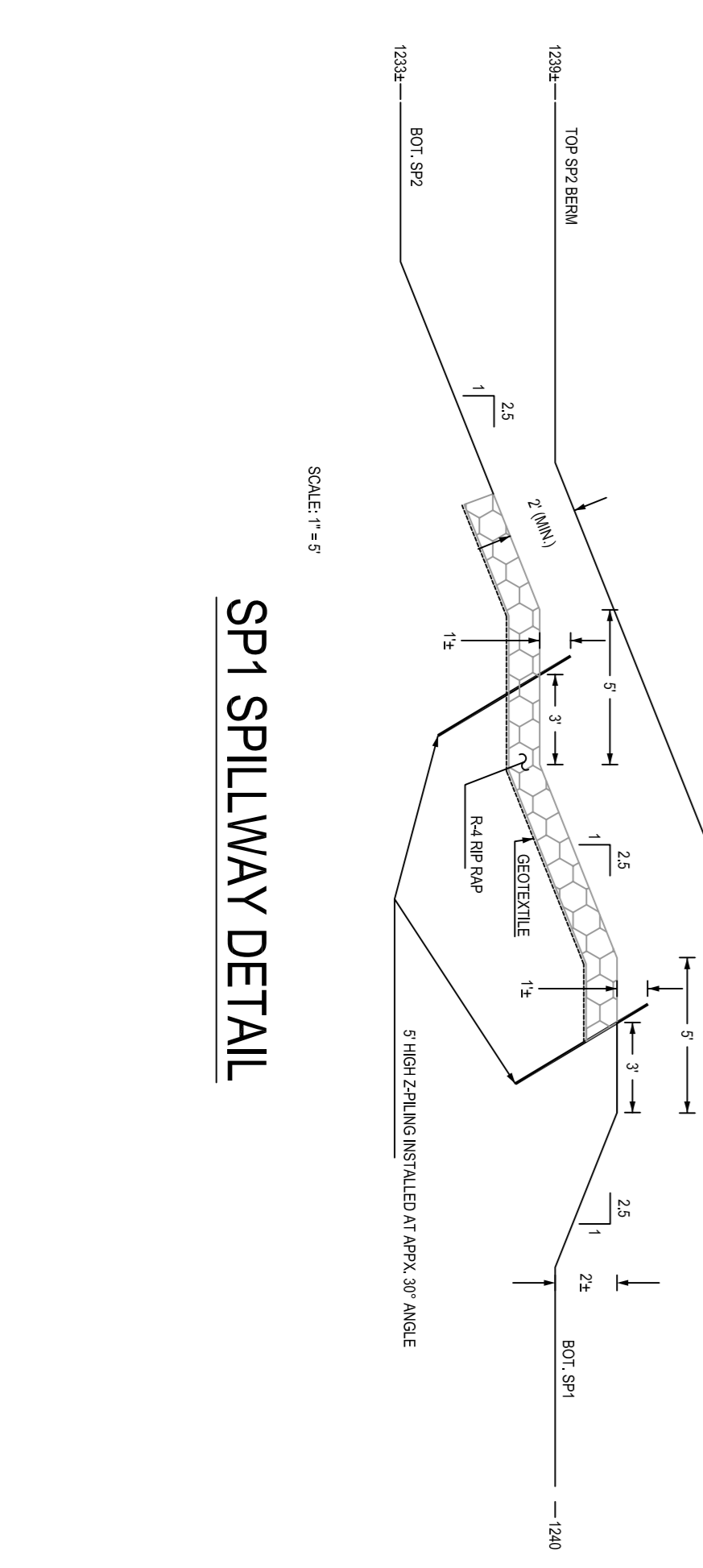
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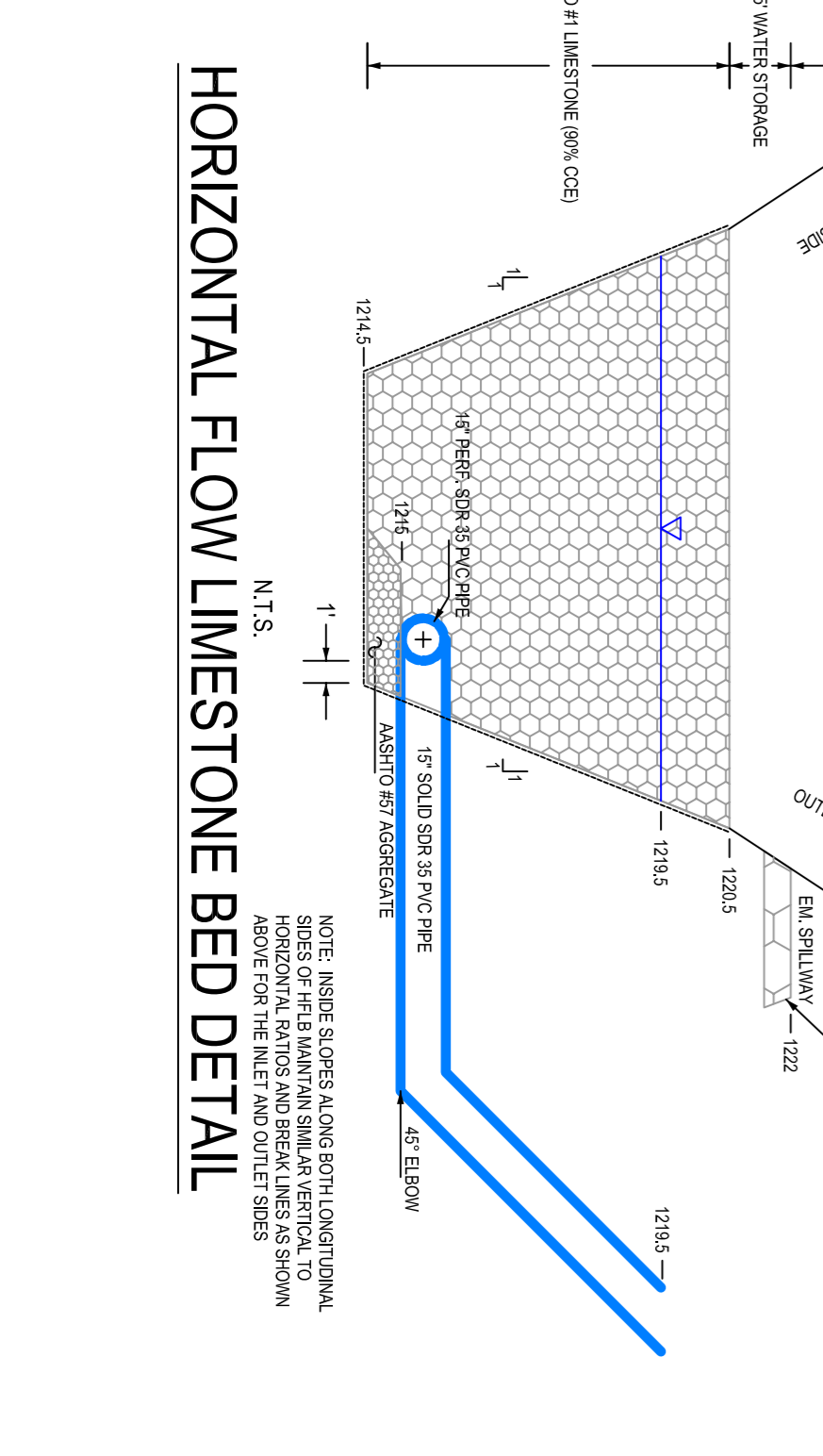
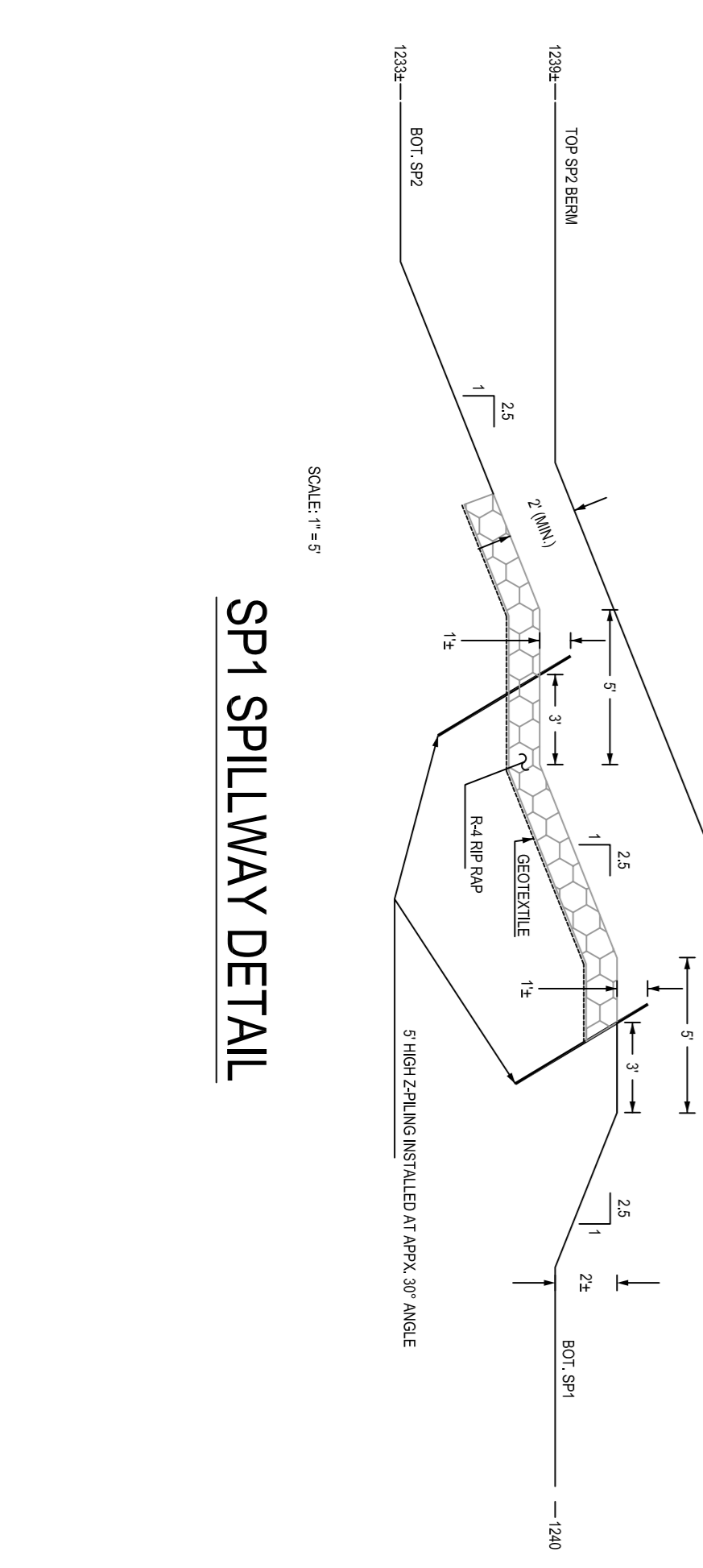
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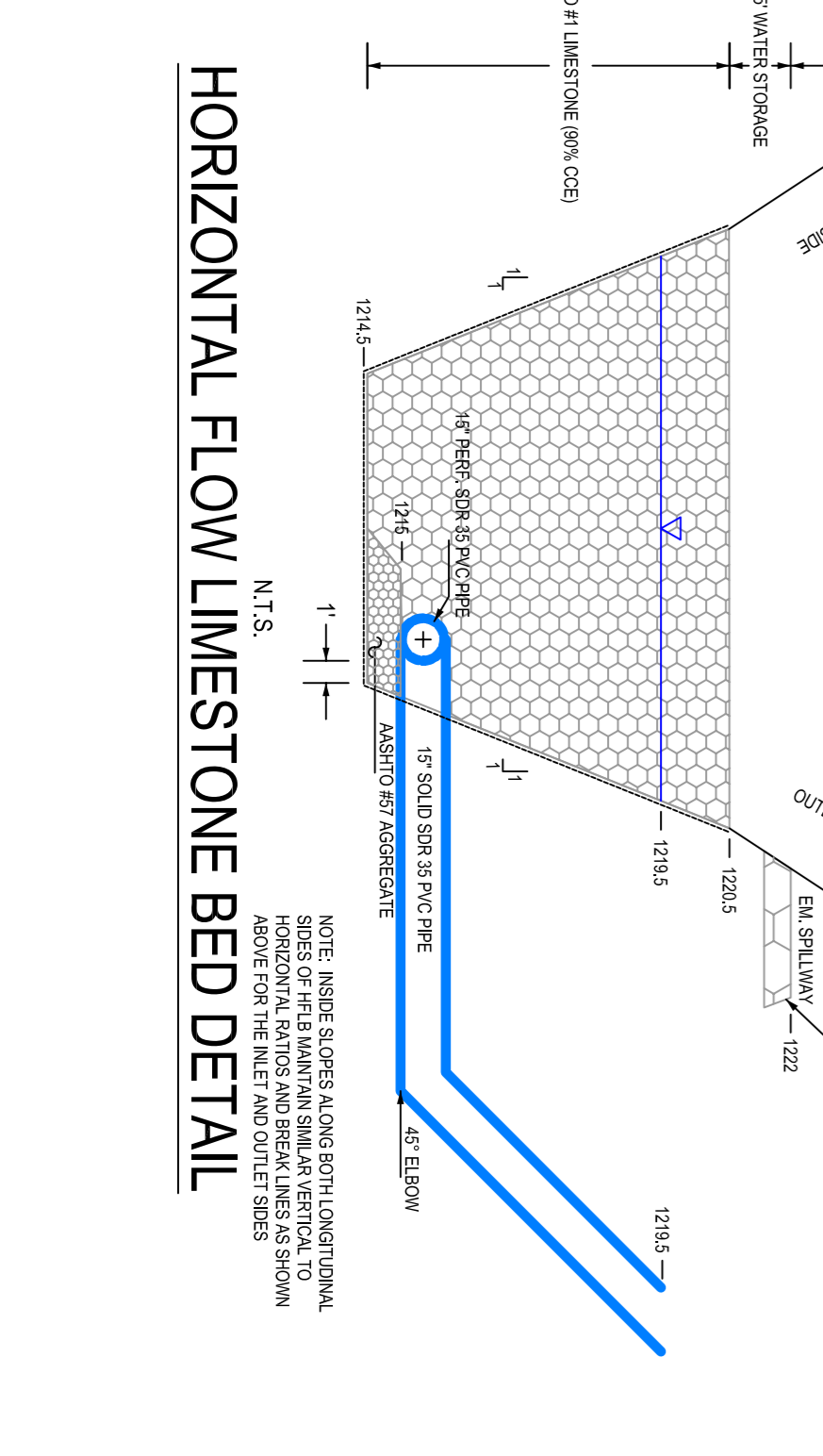
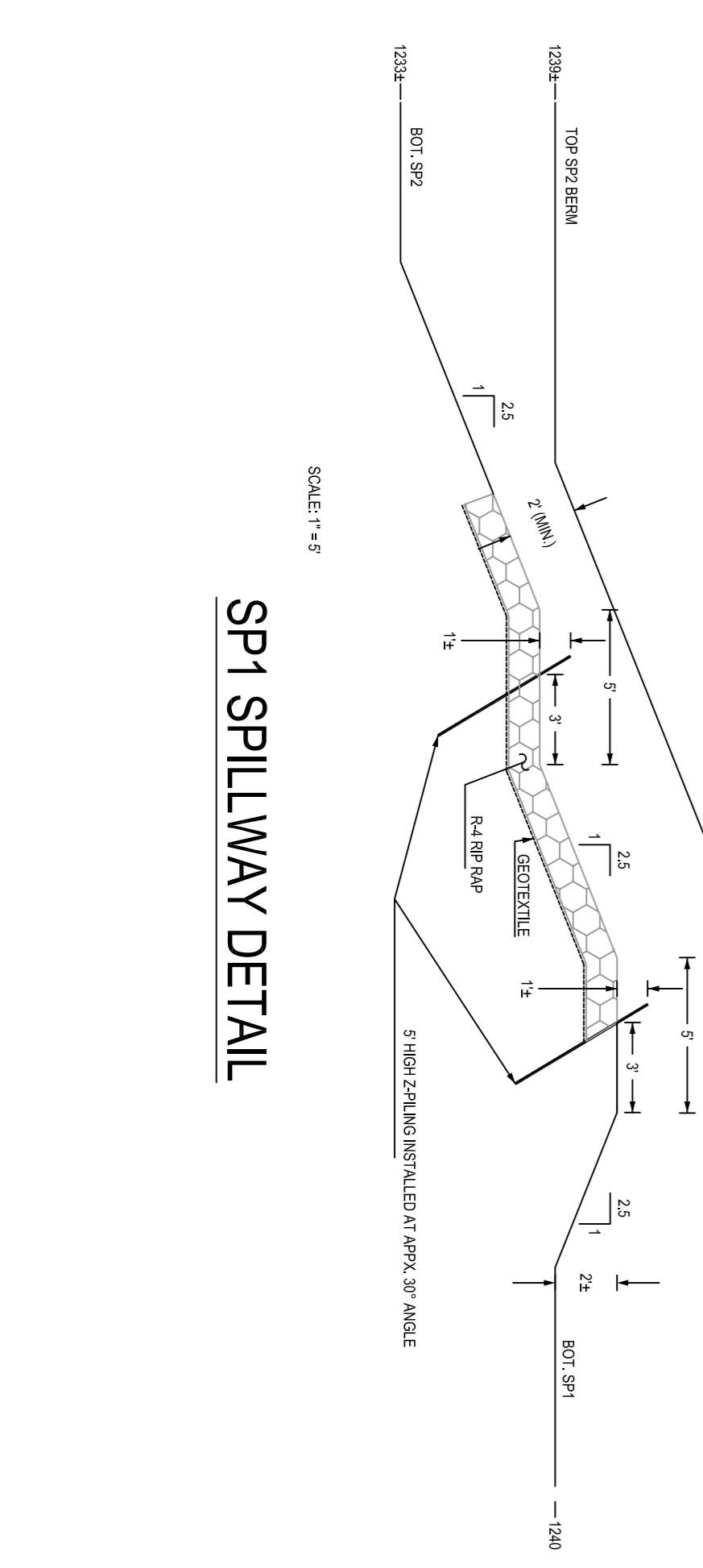
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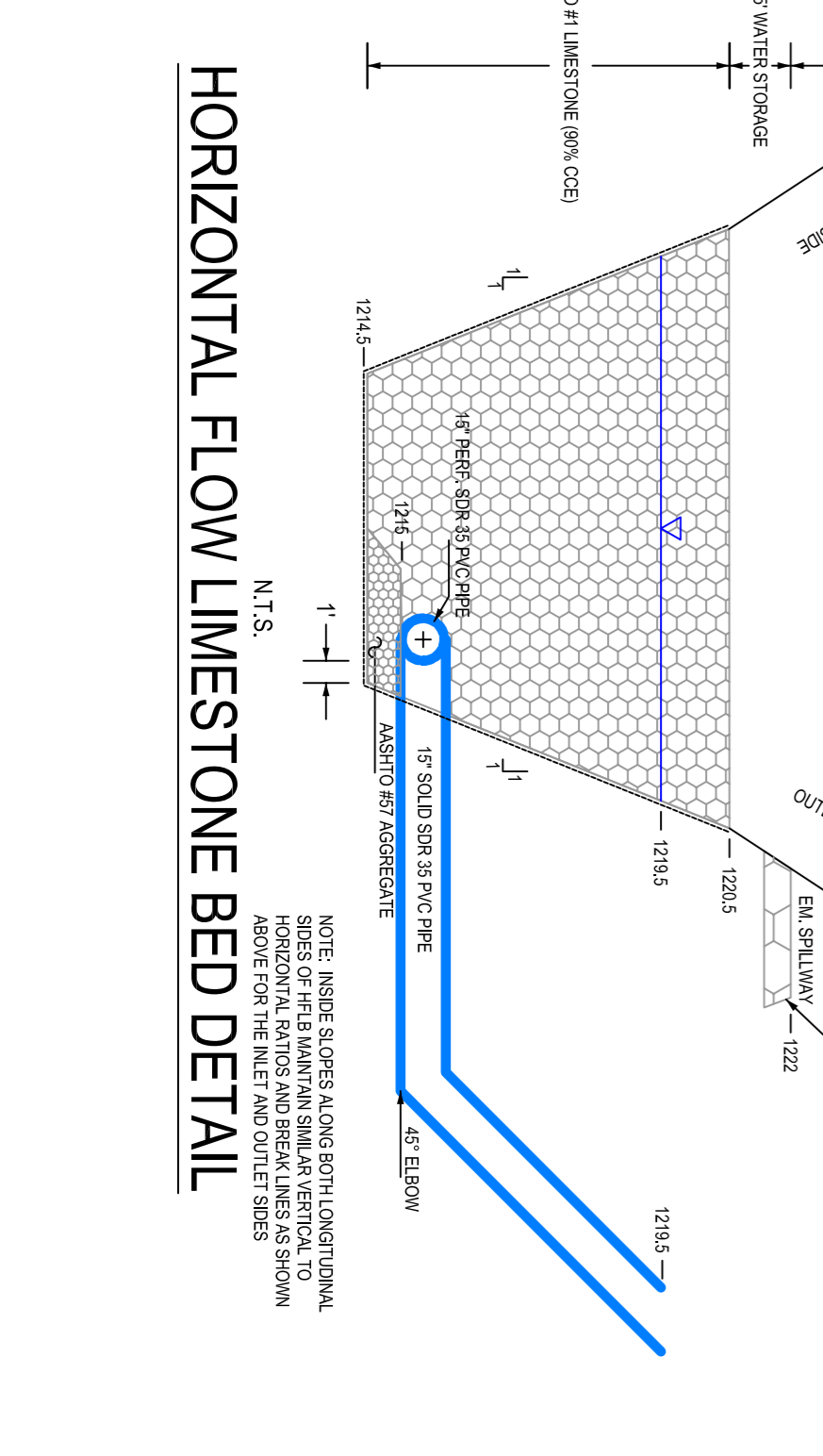
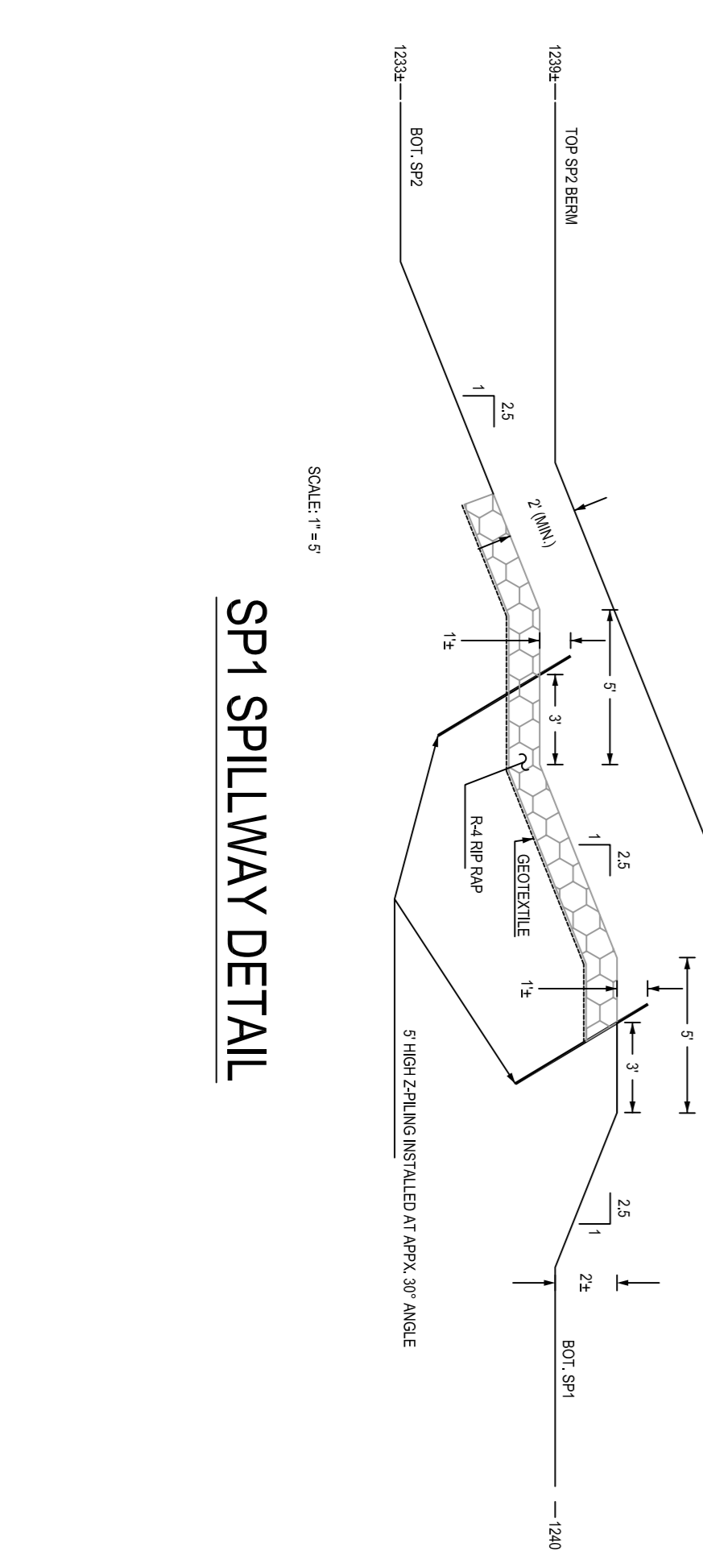
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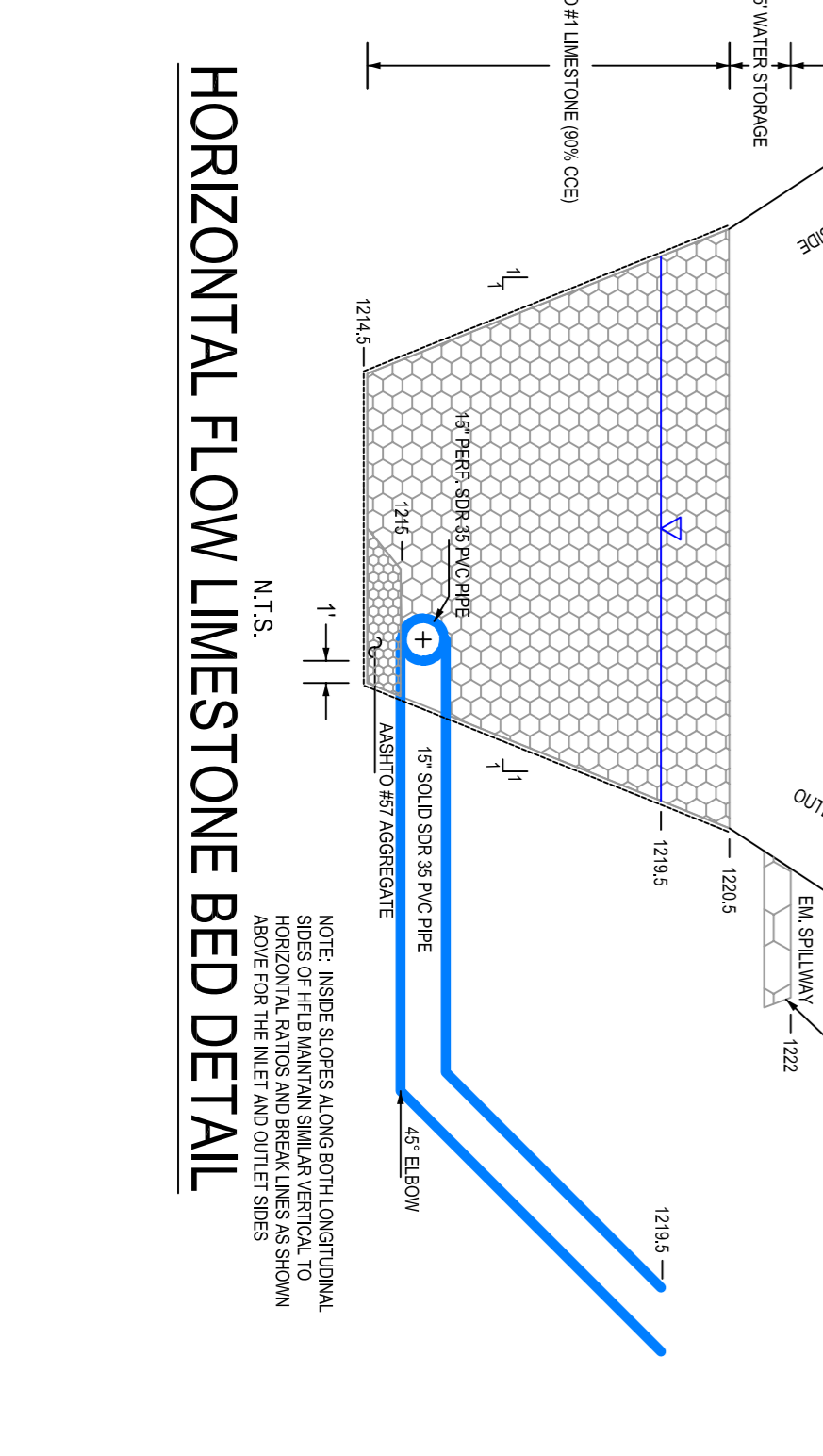
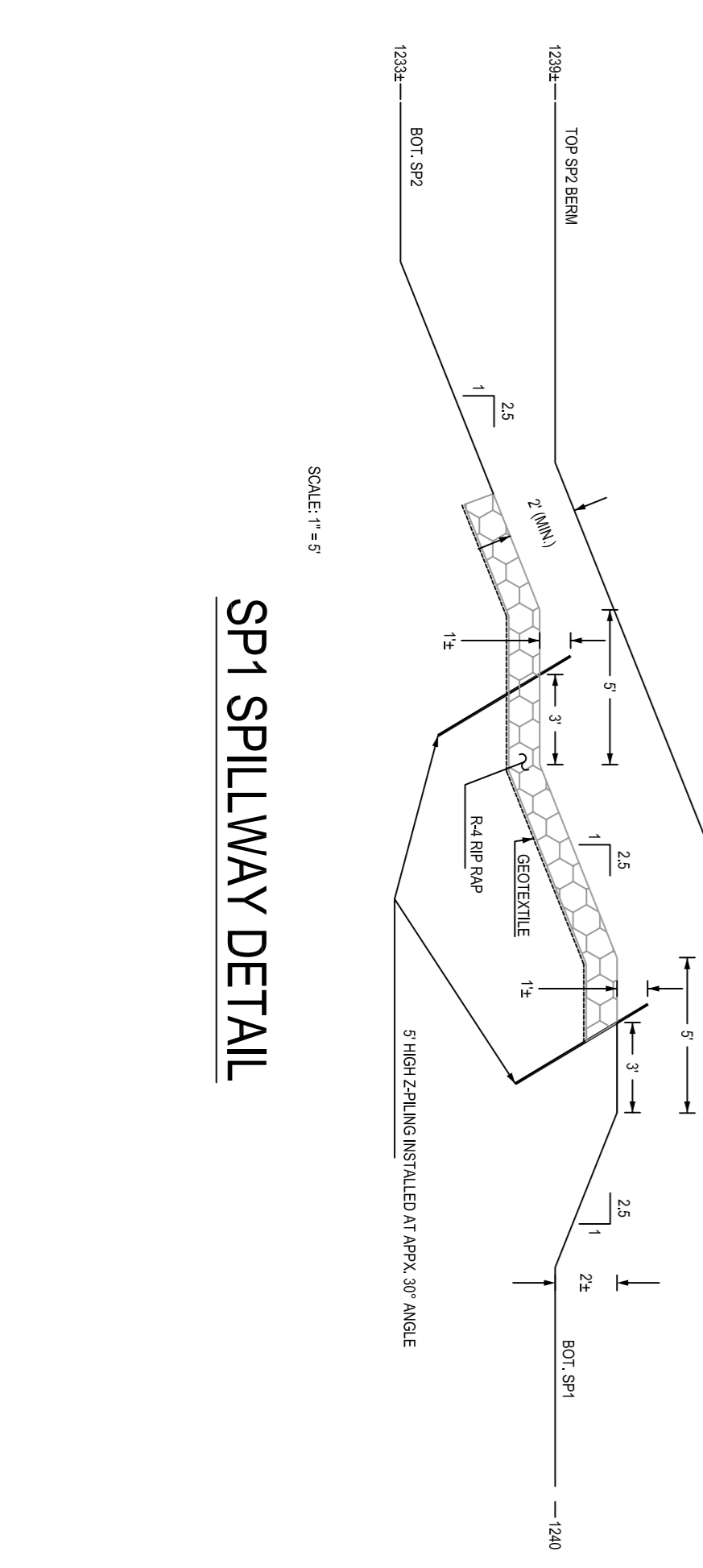
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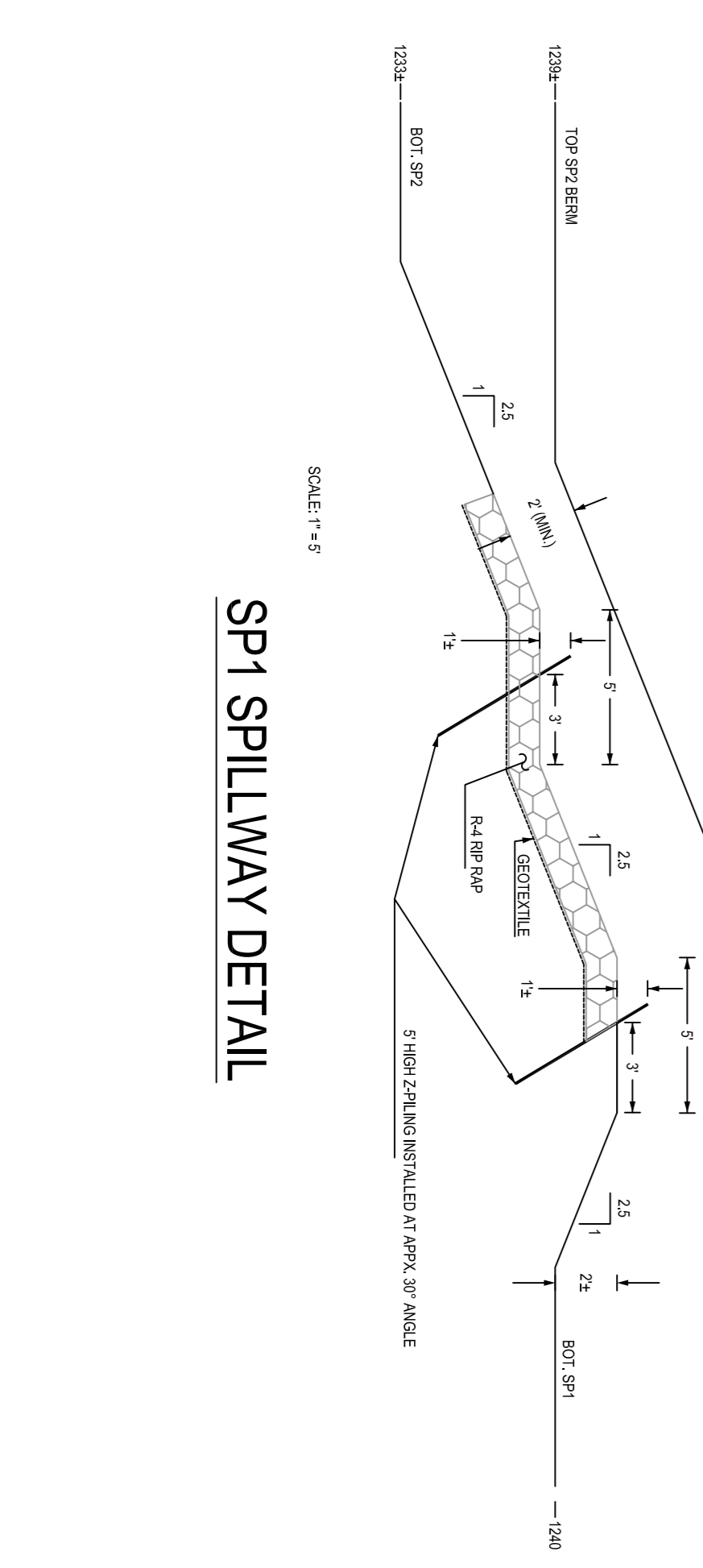
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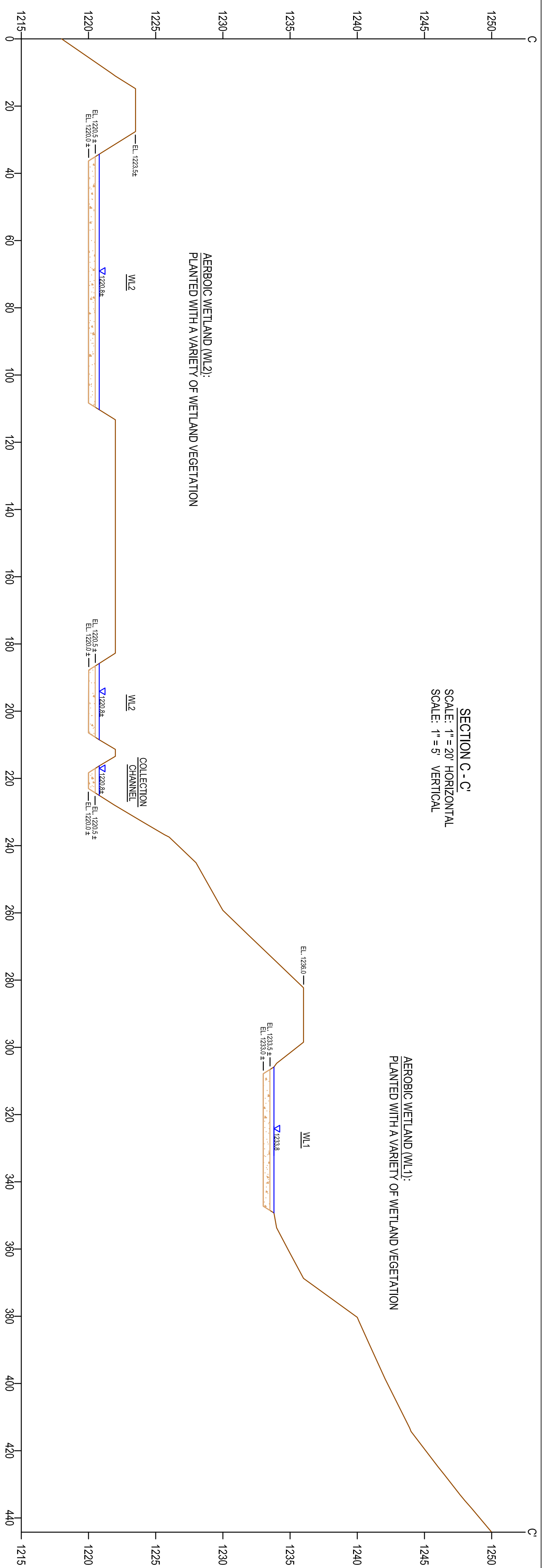


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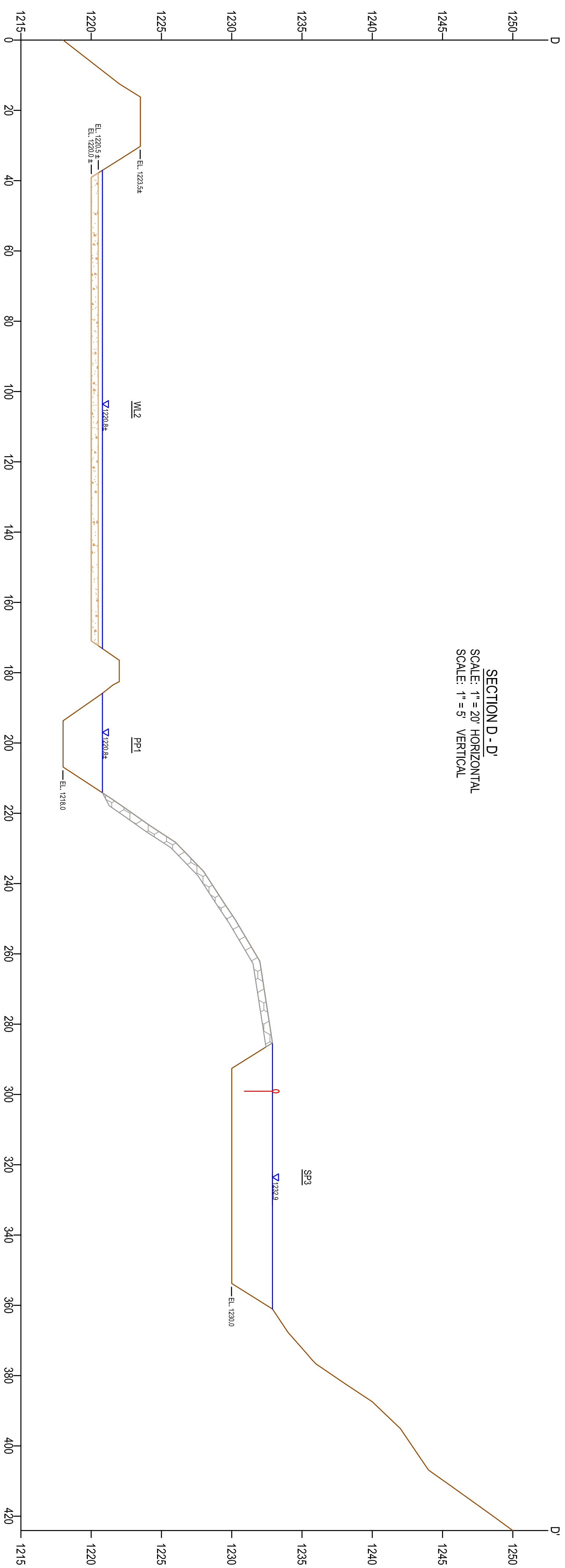


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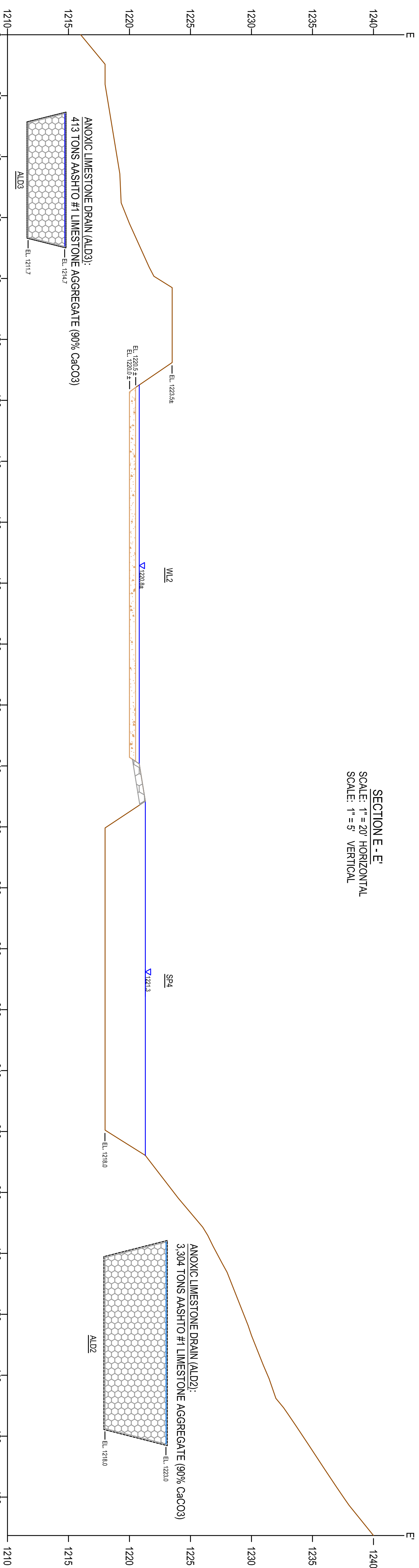




SECTION C - C  
SCALE: 1" = 20' HORIZONTAL  
SCALE: 1" = 5' VERTICAL



SECTION D - D  
SCALE: 1" = 20' HORIZONTAL  
SCALE: 1" = 5' VERTICAL



SECTION E - E  
SCALE: 1" = 20' HORIZONTAL  
SCALE: 1" = 5' VERTICAL

**LEGEND**

	GROUND SURFACE
	GEOTEXTILE
	WATER
	LIMESTONE (ASHTO #1)
	RFP R4P (R-4)
	WETLAND SUBSTRATE
	BAFFLE CURTAIN (DIRECTIONAL)

**Notes:**  
ALD1 and ALD2 elevations based on Erico Bridge Restoration Area Design Plan by Venango Twp., Butler Co., PA.  
ALD3 and ALD4 elevations based on the field by EDM Survey of Edinboro, Inc.  
ALD1 and ALD2 elevations set in the field by EDM Survey of Edinboro, Inc.  
ALD3 elevations based on laser level measurements conducted by Bolker, Inc.  
Bottom elevation and water elevation of wetlands vary due to microtopographical relief.

SHEET 3 OF 3 - CROSS-SECTIONS

**SLEEPY ROCK**

**WATERSHED COALITION**

**AS-BUILT DRAWING**

**ERICO BRIDGE RESTORATION AREA**

**STREAM RESTORATION INCORPORATED**

SEATON CREEK SUBWATERSHED

VENANGO TWP., BUTLER CO., PA

Scale: As Shown December 2004

**Bolker, Inc., Cranberry Township, Pennsylvania**  
Maine and Remediation Services