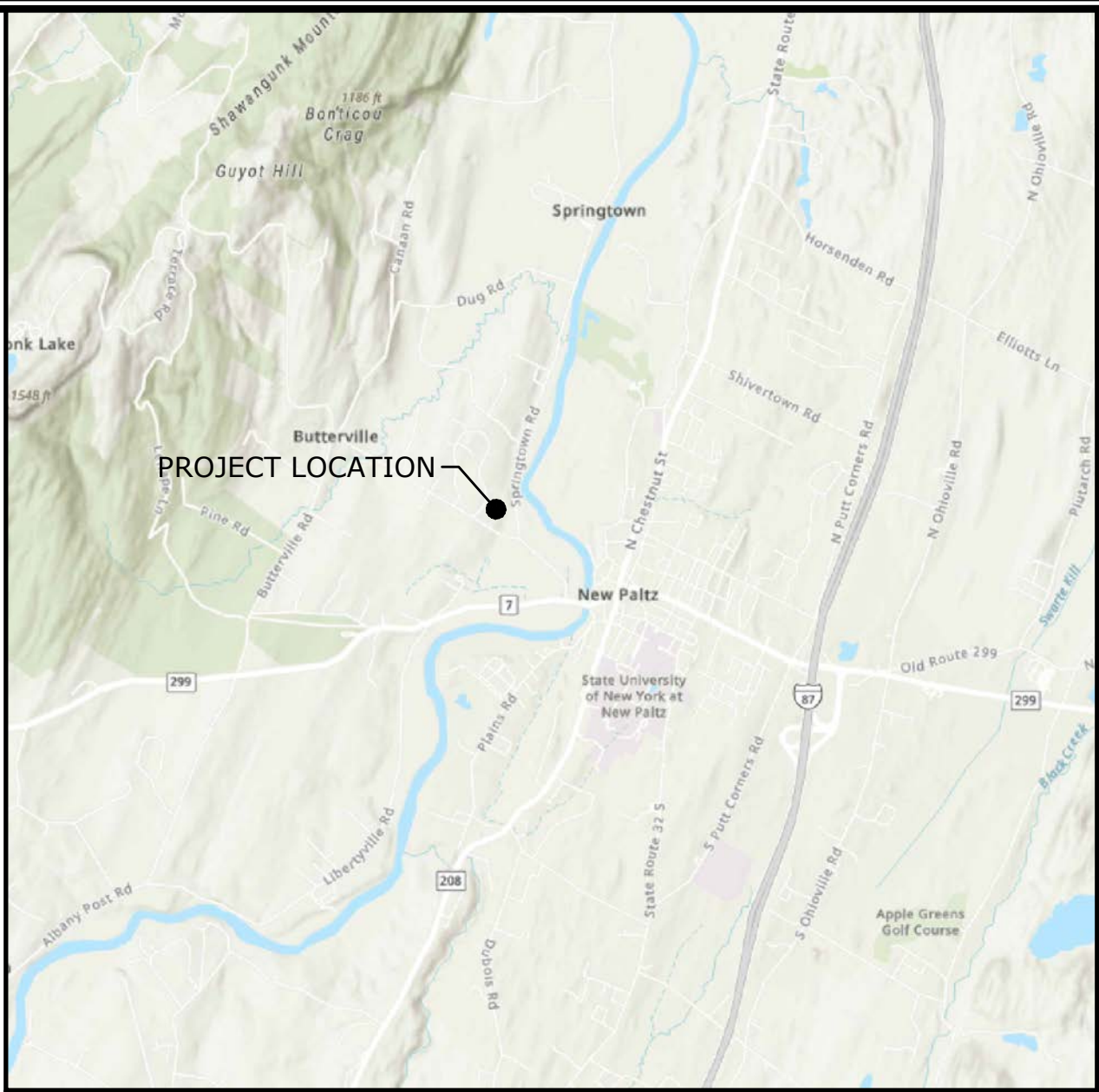


PROJECT: ... OF ... PREPARED FOR: ... PREPARED BY: ...

ECOLOGICAL RESTORATION OF THE KLEINE KILL

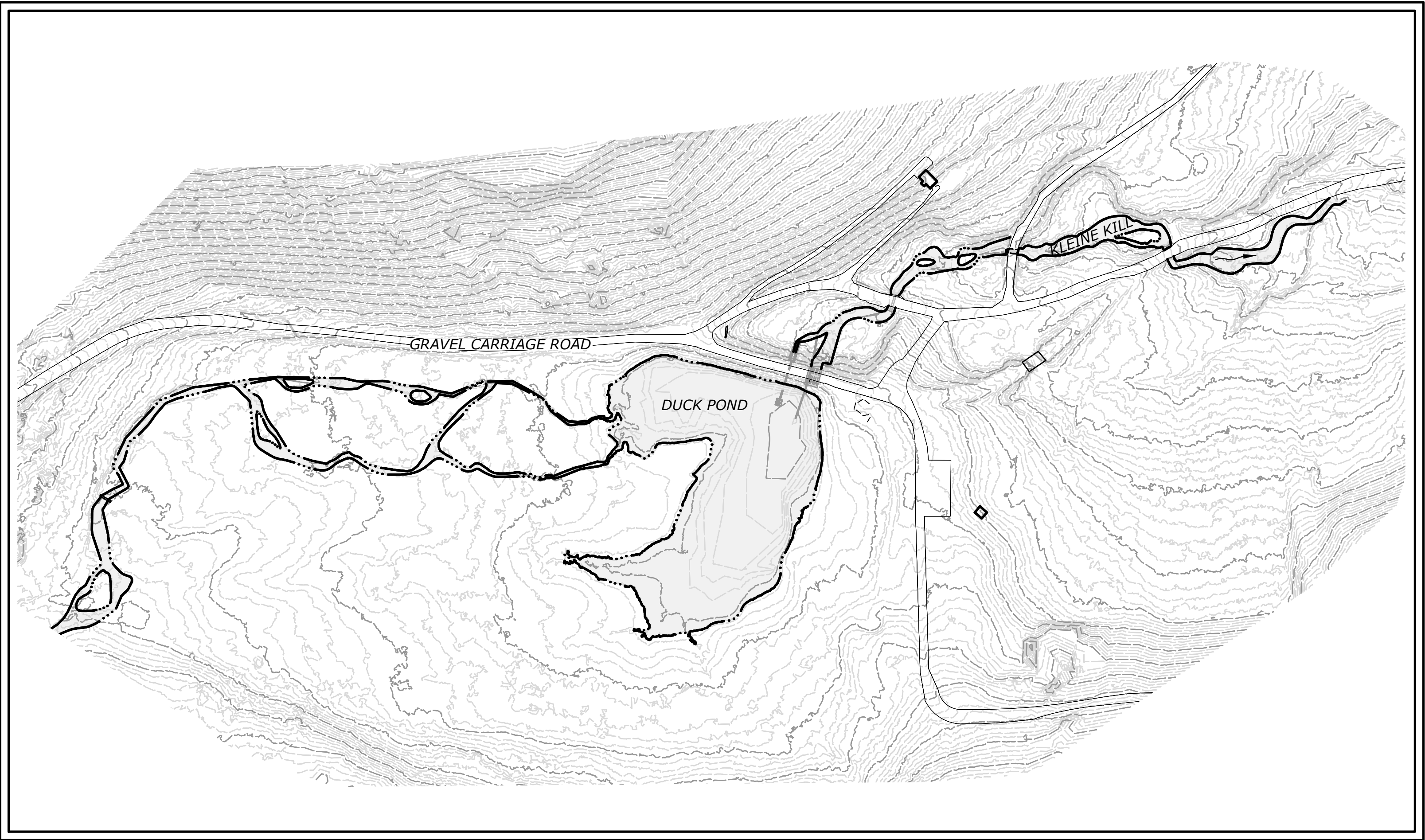
LENAPE LANE
NEW PALTZ, NY

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION
JUNE 12, 2026



LOCATION MAP:

0 2500' 5000'
0 12" 1"
SCALE 1" = 5000'



PROJECT SITE VICINITY MAP:

0' 50' 100'
0 12" 1"
SCALE 1" = 100'

LIST OF DRAWINGS

NO.	NAME	TITLE
01	-	TITLE SHEET
02	IN-1	INDEX PLAN
03	EX-1	EXISTING CONDITIONS - DUCK POND DAM
04	EX-2	EXISTING CONDITIONS - CARRIAGE ROADS AND STREAM CROSSINGS
05	RE-1	REMOVALS PLAN
06	GR-1	GRADING PLAN - DAM REMOVAL AND STREAM RESTORATION
07	GR-2	GRADING PLAN - CARRIAGE ROAD LAYOUT AND PROPOSED BRIDGES
08	LA-1	LAYOUT PLAN - DAM REMOVAL AND STREAM RESTORATION
09	LA-2	LAYOUT PLAN - CARRIAGE ROAD LAYOUT AND PROPOSED BRIDGES
10	PL-1	PROPOSED CARRIAGE ROAD PLAN AND PROFILE
11	RS-1	RESTORATION PLAN
12	PRO-1	CHANNEL PROFILE
13	CS-1	CROSS SECTION AT DAM
14	CS-2	CHANNEL CROSS SECTIONS STA. 1+00 - STA. 4+00
15	CS-3	CROSS SECTIONS: PROPOSED CARRIAGE ROAD
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17	N-1	TYPICAL SECTIONS
18	BOR-1	BORING LOGS
19	BOR-2	BORING LOGS
20	STR-1	UPSTREAM BRIDGE STRUCTURAL PLAN
21	STR-2	UPSTREAM BRIDGE ABUTMENT PLAN AND ELEVATION
22	STR-3	DOWNSTREAM BRIDGE STRUCTURAL PLAN
23	STR-4	DOWNSTREAM BRIDGE ABUTMENT PLAN AND ELEVATION
24	STR-5	STRUCTURAL DETAILS
25	STR-6	STRUCTURAL DETAILS
26	CP-1	CONSTRUCTION SEQUENCE
27	CP-2	TRAFFIC MANAGEMENT AND ACCESS PLAN
28	DE-1	SEDIMENT AND EROSION CONTROLS
29	DE-2	WOODY STRUCTURES AND PLANTING DETAILS
30	DE-3	STONE WORK DETAILS
31	RR-1	REGULATED RESOURCES

PREPARED FOR:
MOHONK PRESERVE
P.O. BOX 715
NEW PALTZ, NY 12561



PREPARED BY:



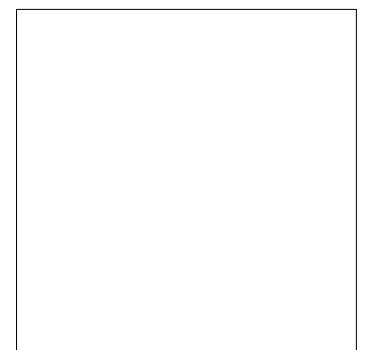
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845.633.8153
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W. Andrew Greene



P.E. NY# 089373

SLR NO.: 20261.00002
SUBMITTED: JUNE 12, 2026



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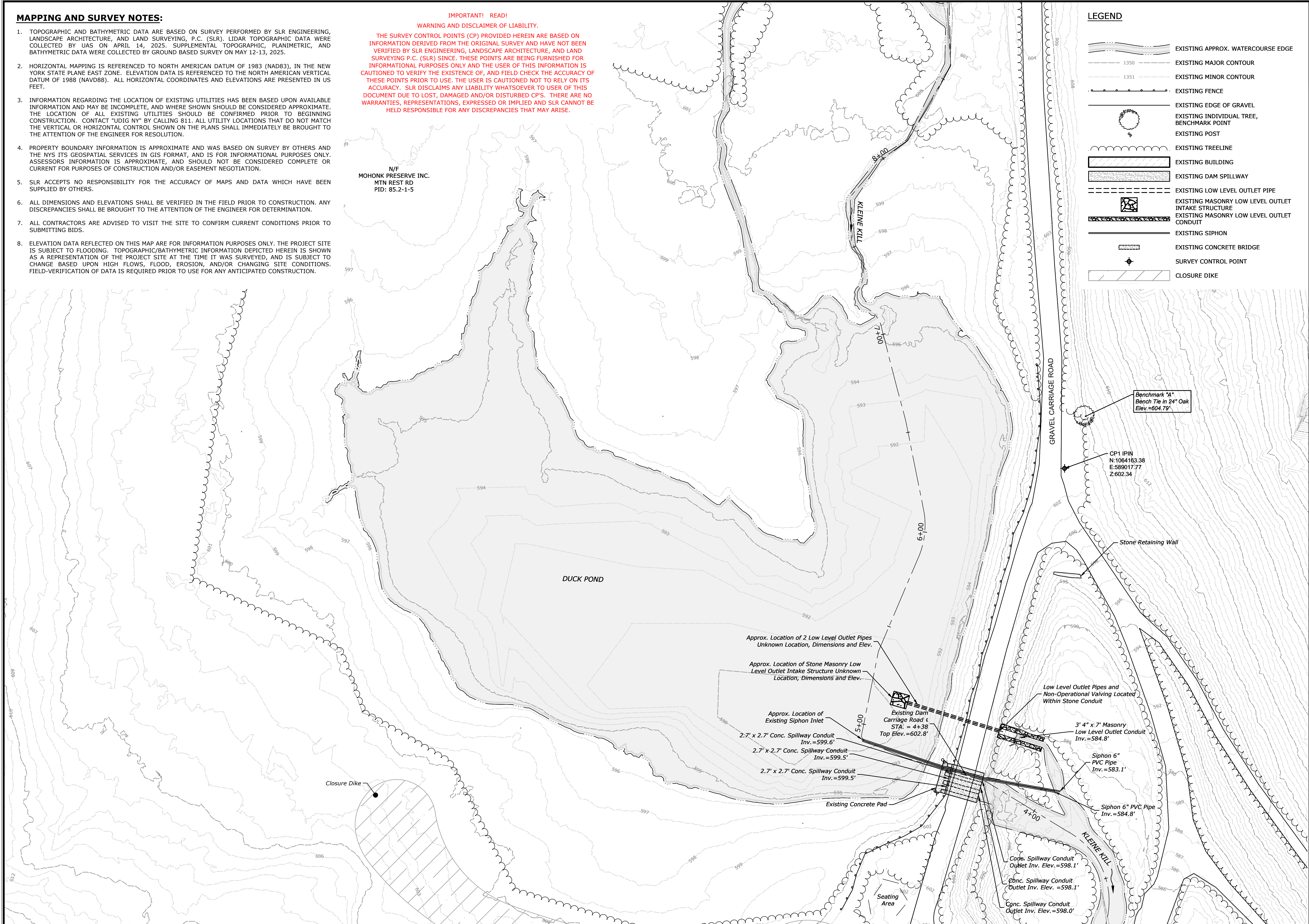
This engineering design plan set was prepared with funding provided by the New York State Department of State through the Clean Water, Clean Air, and Green Jobs Environmental Bond Act

MAPPING AND SURVEY NOTES:

- TOPOGRAPHIC AND BATHYMETRIC DATA ARE BASED ON SURVEY PERFORMED BY SLR ENGINEERING, LANDSCAPE ARCHITECTURE, AND LAND SURVEYING, P.C. (SLR). LIDAR TOPOGRAPHIC DATA WERE COLLECTED BY UAS ON APRIL 14, 2025. SUPPLEMENTAL TOPOGRAPHIC, PLANIMETRIC, AND BATHYMETRIC DATA WERE COLLECTED BY GROUND BASED SURVEY ON MAY 12-13, 2025.
- HORIZONTAL MAPPING IS REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83), IN THE NEW YORK STATE PLANE EAST ZONE. ELEVATION DATA IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL HORIZONTAL COORDINATES AND ELEVATIONS ARE PRESENTED IN US FEET.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CONTACT "DIG N.Y." BY CALLING 811. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- PROPERTY BOUNDARY INFORMATION IS APPROXIMATE AND WAS BASED ON SURVEY BY OTHERS AND THE NYS ITS GEOSPATIAL SERVICES IN GIS FORMAT, AND IS FOR INFORMATIONAL PURPOSES ONLY. ASSESSORS INFORMATION IS APPROXIMATE, AND SHOULD NOT BE CONSIDERED COMPLETE OR CURRENT FOR PURPOSES OF CONSTRUCTION AND/OR EASEMENT NEGOTIATION.
- SLR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DETERMINATION.
- ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE TO CONFIRM CURRENT CONDITIONS PRIOR TO SUBMITTING BIDS.
- ELEVATION DATA REFLECTED ON THIS MAP ARE FOR INFORMATION PURPOSES ONLY. THE PROJECT SITE IS SUBJECT TO FLOODING. TOPOGRAPHIC/BATHYMETRIC INFORMATION DEPICTED HEREIN IS SHOWN AS A REPRESENTATION OF THE PROJECT SITE AT THE TIME IT WAS SURVEYED, AND IS SUBJECT TO CHANGE BASED UPON HIGH FLOWS, FLOOD, EROSION, AND/OR CHANGING SITE CONDITIONS. FIELD-VERIFICATION OF DATA IS REQUIRED PRIOR TO USE FOR ANY ANTICIPATED CONSTRUCTION.

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THE SURVEY CONTROL POINTS (CP) PROVIDED HEREIN ARE BASED ON INFORMATION DERIVED FROM THE ORIGINAL SURVEY AND HAVE NOT BEEN VERIFIED BY SLR ENGINEERING, LANDSCAPE ARCHITECTURE, AND LAND SURVEYING P.C. (SLR) SINCE THESE POINTS ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY AND THE USER OF THIS INFORMATION IS CAUTIONED TO VERIFY THE EXISTENCE OF, AND FIELD CHECK THE ACCURACY OF THESE POINTS PRIOR TO USE. THE USER IS CAUTIONED NOT TO RELY ON ITS ACCURACY. SLR DISCLAIMS ANY LIABILITY WHATSOEVER TO USER OF THIS DOCUMENT DUE TO LOST, DAMAGED AND/OR DISTURBED CP'S. THERE ARE NO WARRANTIES, REPRESENTATIONS, EXPRESSED OR IMPLIED AND SLR CANNOT BE HELD RESPONSIBLE FOR ANY DISCREPANCIES THAT MAY ARISE.

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MTN REST RD
PID: 85.2-1-5



- LEGEND
- EXISTING APPROX. WATERCOURSE EDGE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING FENCE
 - EXISTING EDGE OF GRAVEL
 - EXISTING INDIVIDUAL TREE, BENCHMARK POINT
 - EXISTING POST
 - EXISTING TREELINE
 - EXISTING BUILDING
 - EXISTING DAM SPILLWAY
 - EXISTING LOW LEVEL OUTLET PIPE
 - EXISTING MASONRY LOW LEVEL OUTLET INTAKE STRUCTURE
 - EXISTING MASONRY LOW LEVEL OUTLET CONDUIT
 - EXISTING SIPHON
 - EXISTING CONCRETE BRIDGE
 - SURVEY CONTROL POINT
 - CLOSURE DIKE

0'12'24'

W
N
E
S

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DESCRIPTION	DATE	BY

EXISTING CONDITIONS - DUCK POND DAM

ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

DESIGNED

KJC

MC

SCALE

1"=20'

DATE

JUNE 12, 2026

PROJECT NO.

20261.00002

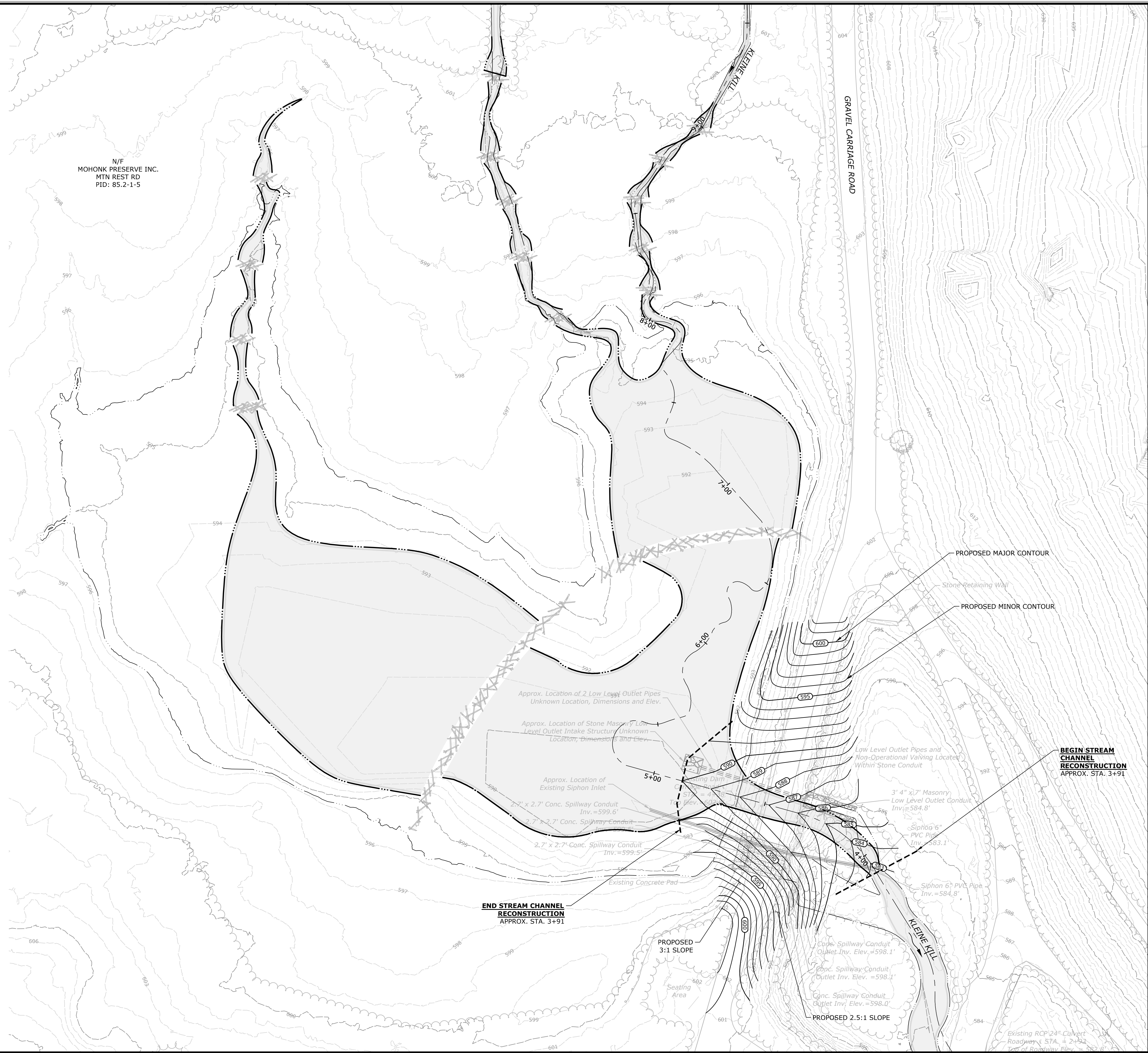
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03 OF 31

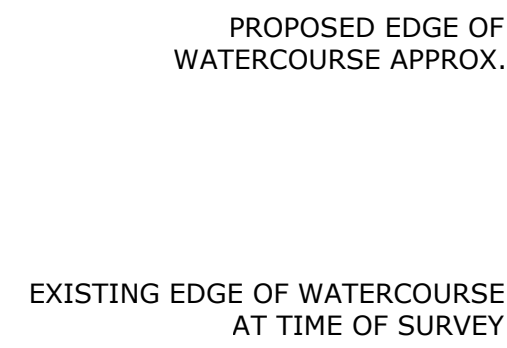
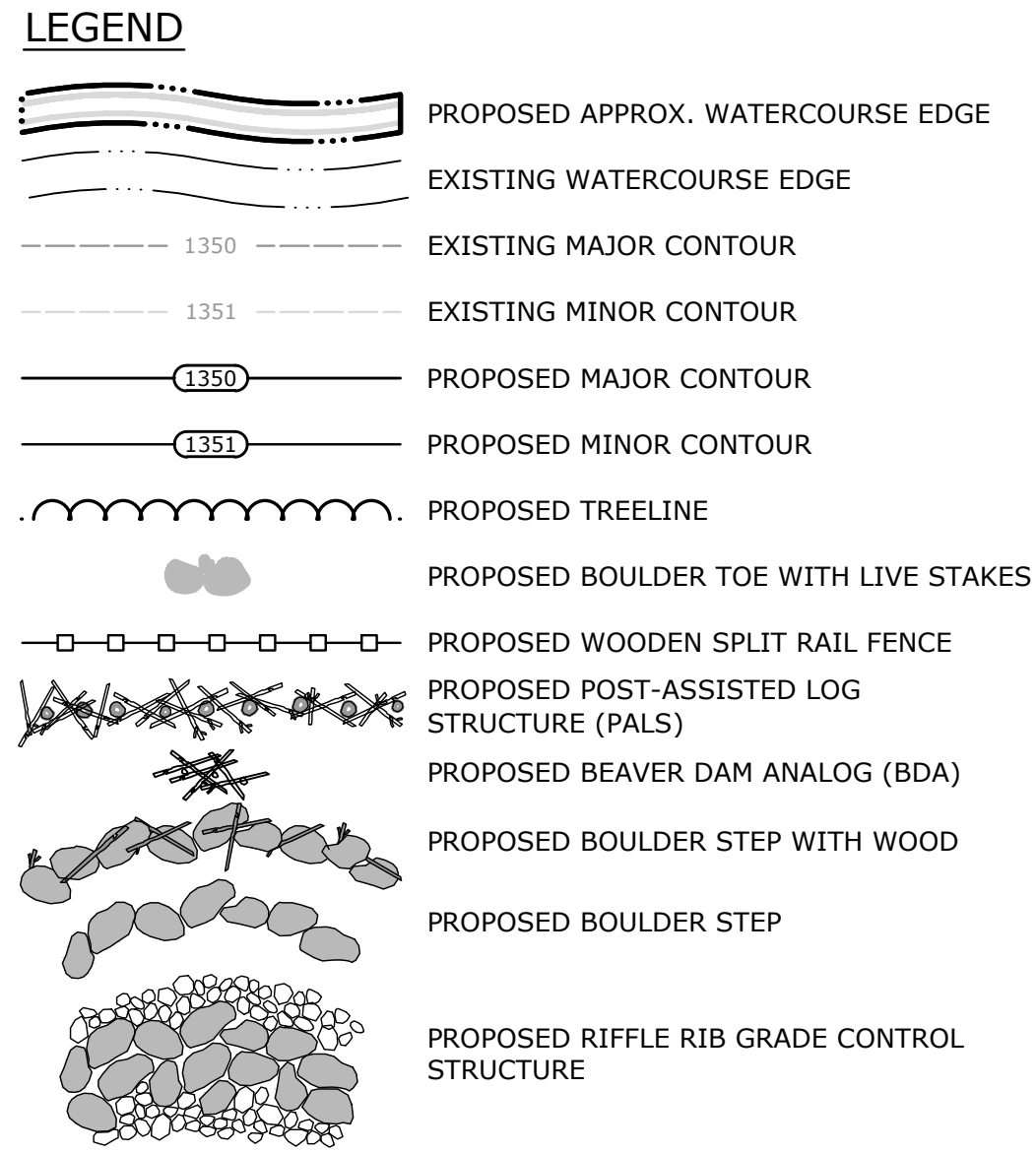
EX-1

SHEET NAME

1. PROPOSED CONTOURS AS PRESENTED ON THIS PLAN INDICATE FINAL GRADE AFTER TOPSOIL, ROCKS, AND OTHER PROPOSED FEATURES AND FINISHED TREATMENTS ARE COMPLETED.
2. PROPOSED CONTOURS PRESENTED WITHIN THE WATERCOURSE INDICATE THE PREVAILING SLOPE OF THE STREAM CHANNEL AND DOES NOT REPRESENT THE BOULDER STEP AND POOL MORPHOLOGY. REFER TO THE CHANNEL PROFILE AND CROSS SECTIONS FOR THE POOL CONSTRUCTION.
3. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
 - PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
 - NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
 - PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.



GRADING PLAN - DAM REMOVAL AND STREAM RESTORATION ECOLOGICAL RESTORATION OF THE KLEINE KILL LENAPE LANE NEW PALTZ, NY			60% ADVANCED DESIGN NOT FOR CONSTRUCTION		
MET	KJC	MC			
DESIGNED	DRAWN	CHECKED			
SCALE 1"=20'					
DATE JUNE 12, 2026					
PROJECT NO. 20261.00002					
SHEET NO. 06 OF 31					
GR-1					
SHEET NAME					



(A)

(B)

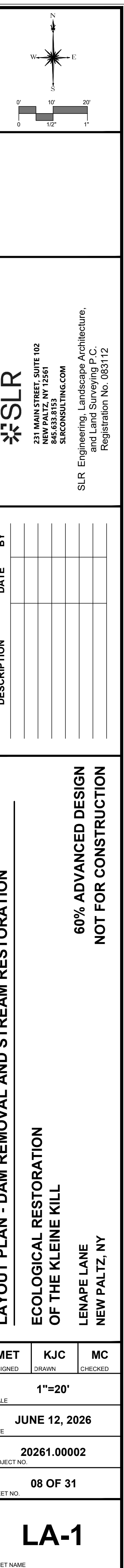
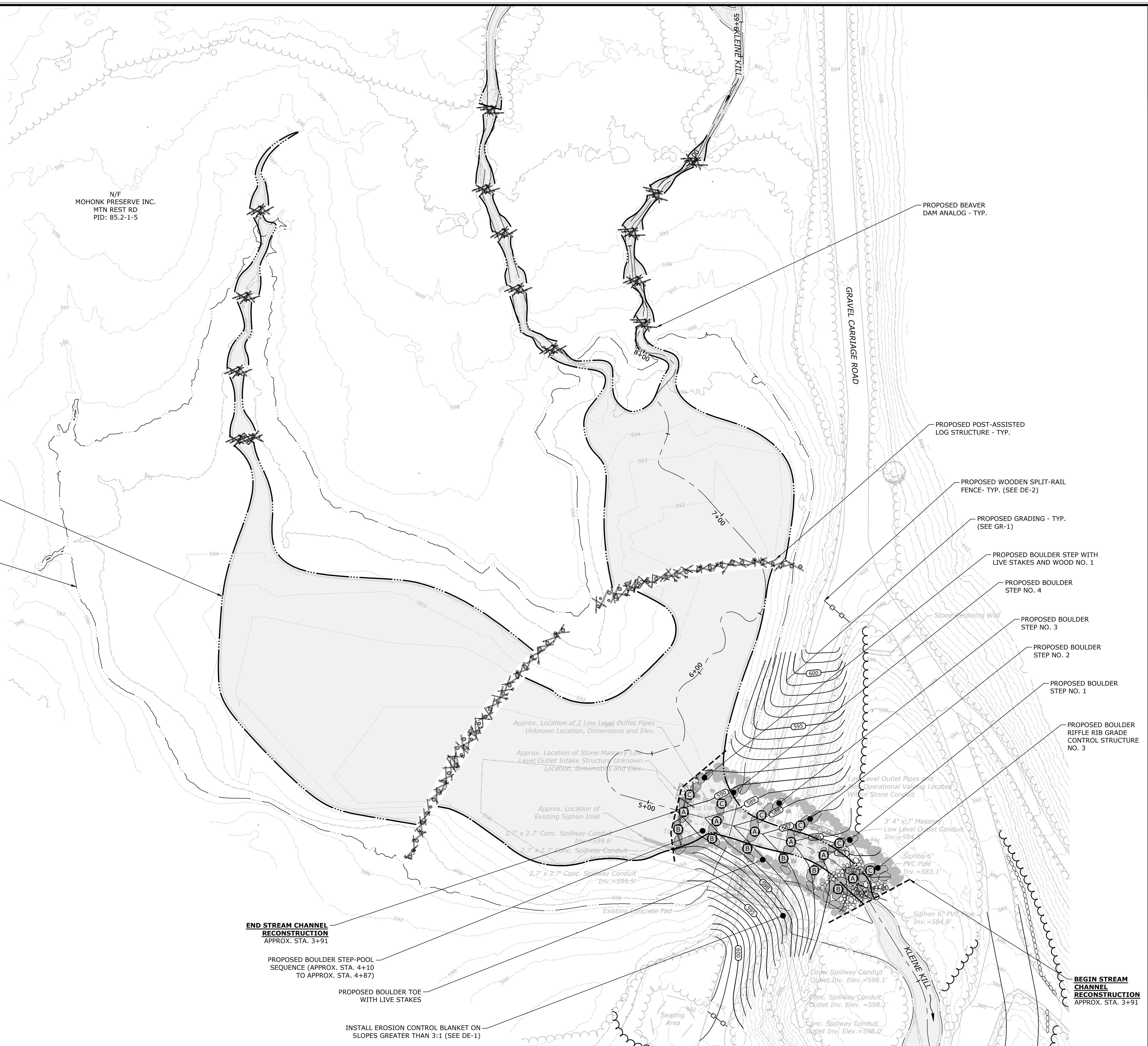
(C)

THALWEG

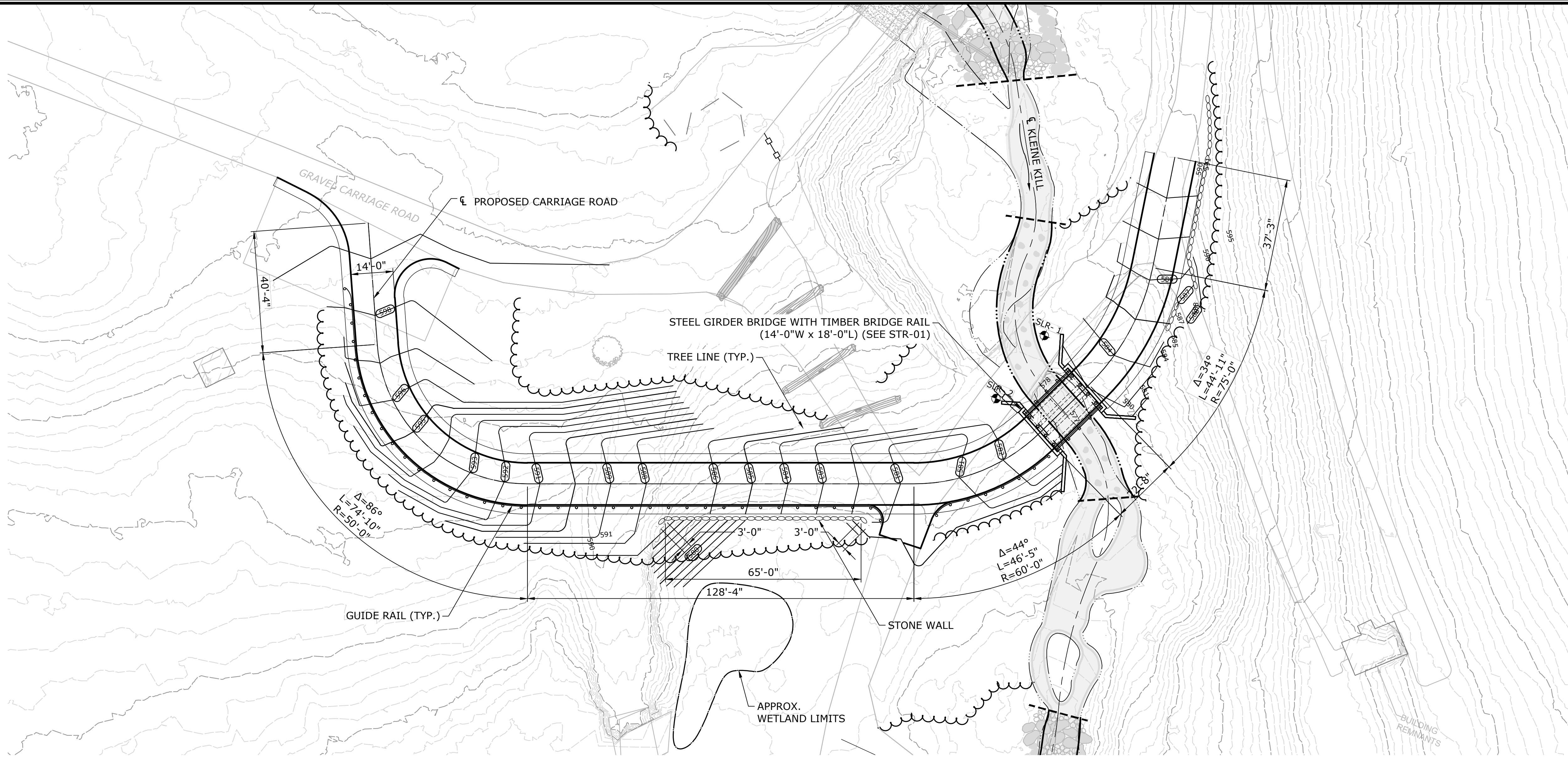
RIGHT BANKFULL

LEFT BANKFULL

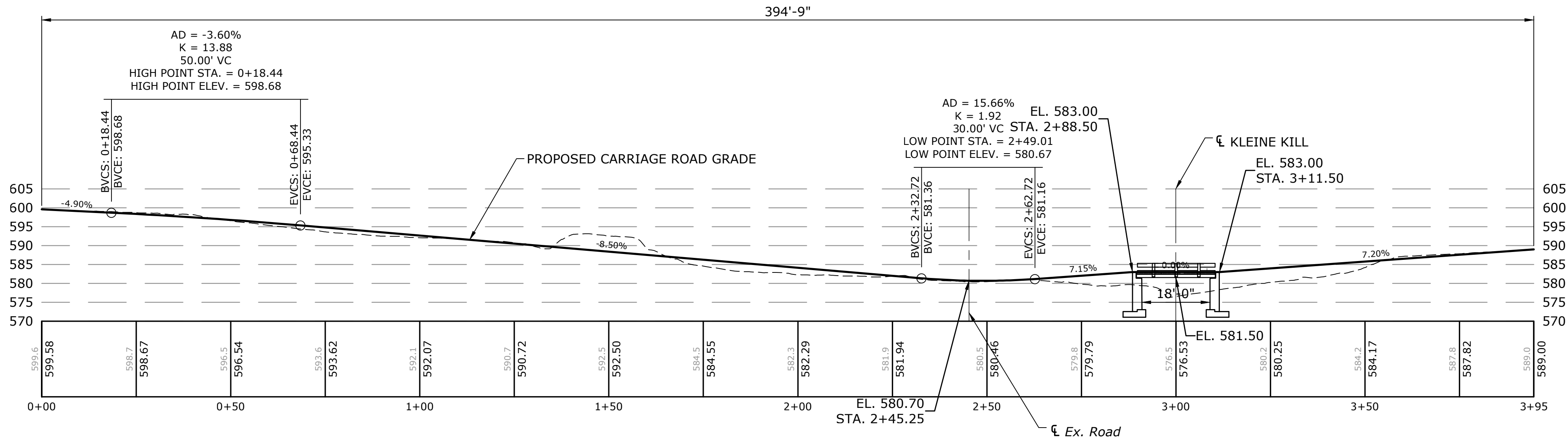
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NOT TO SCALE
DATE: 06/12/2026
PROJECT: 20261.00002
SHEET: 10 OF 31
DRAWN BY: JG
CHECKED BY: KP
DESIGNED BY: KP

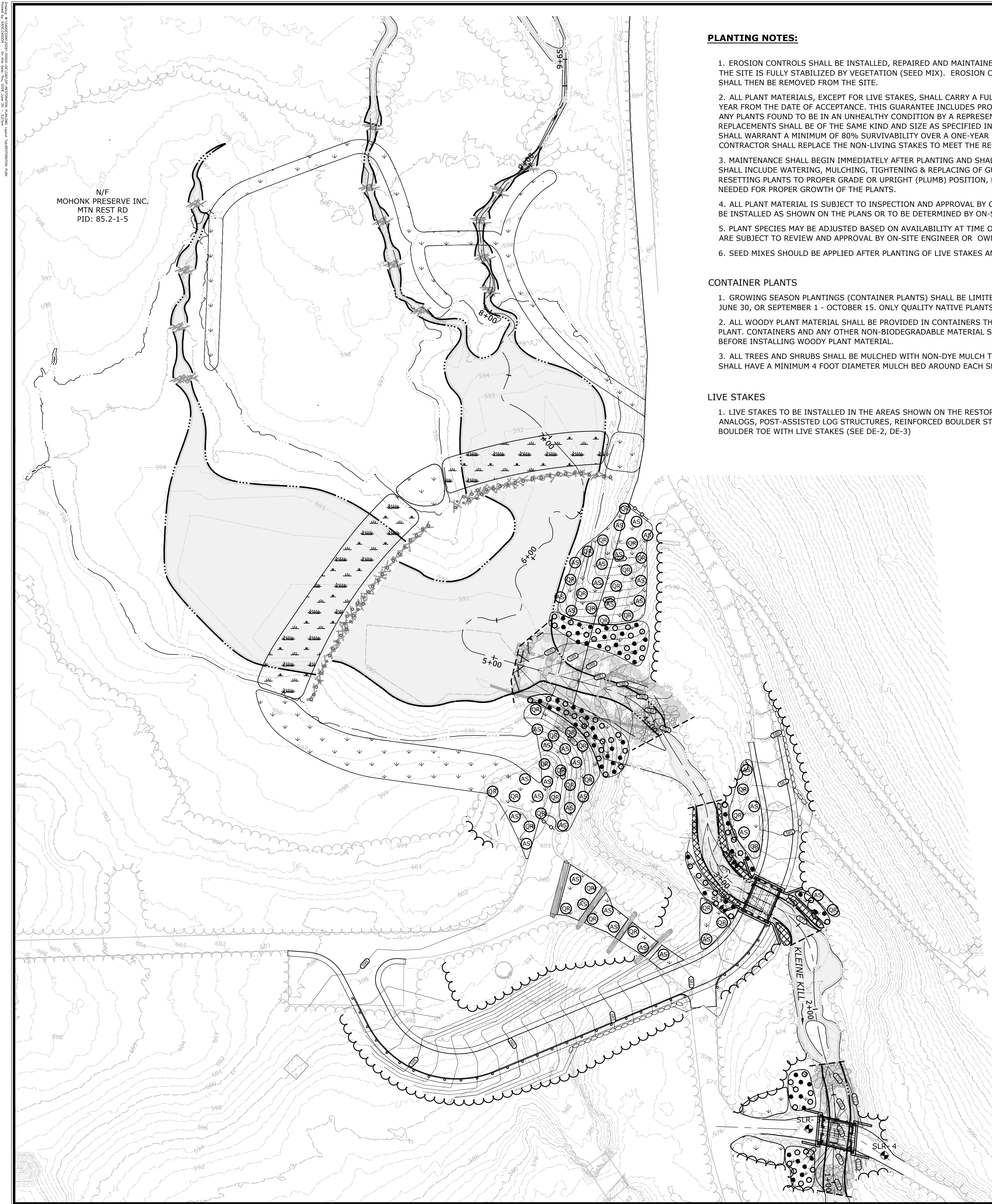


PROPOSED CARRIAGE ROAD PLAN
SCALE: 1" = 20'-0"



PROPOSED CARRIAGE ROAD PROFILE
SCALE: 1" = 20'-0"

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DESCRIPTION	DATE	BY			
PROPOSED CARRIAGE ROAD PLAN AND PROFILE			60% ADVANCED DESIGN NOT FOR CONSTRUCTION		
ECOLOGICAL RESTORATION OF THE KLEINE KILL LENAPE LANE NEW PALTZ, NY					
KP	JG	KP			
DESIGNED	DRAWN	CHECKED			
AS NOTED					
JUNE 12, 2026					
DATE					
20261.00002					
PROJECT NO.					
10 OF 31					
SHEET NO.					
PL-1					
SHEET NAME					



PLANTING NOTES:

1. EROSION CONTROLS SHALL BE INSTALLED, REPAIRED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD UNTIL THE SITE IS FULLY STABILIZED BY VEGETATION (SEED MIX). EROSION CONTROLS, EXCEPT EROSION CONTROL BLANKET, SHALL THEN BE REMOVED FROM THE SITE.
2. ALL PLANT MATERIALS, EXCEPT FOR LIVE STAKES, SHALL CARRY A FULL SURVIVAL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. THIS GUARANTEE INCLUDES PROMPT TREATMENT, REMOVAL, AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY A REPRESENTATIVE OF THE PROJECT OWNER. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. FOR LIVE STAKES CONTRACTOR SHALL WARRANT A MINIMUM OF 80% SURVIVABILITY OVER A ONE-YEAR PERIOD. IF SURVIVABILITY FALLS BELOW 80%, THE CONTRACTOR SHALL REPLACE THE NON-LIVING STAKES TO MEET THE REQUIRED SURVIVAL PERCENTAGE.
3. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTling PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
4. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY OWNER. LOCATION OF SPECIFIC PLANT SPECIES TO BE INSTALLED AS SHOWN ON THE PLANS OR TO BE DETERMINED BY ON-SITE ENGINEER OR OWNERS REPRESENTATIVE.
5. PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY ON-SITE ENGINEER OR OWNERS REPRESENTATIVE.
6. SEED MIXES SHOULD BE APPLIED AFTER PLANTING OF LIVE STAKES AND CONTAINER PLANTS IS COMPLETE.

CONTAINER PLANTS

1. GROWING SEASON PLANTINGS (CONTAINER PLANTS) SHALL BE LIMITED TO THE INSTALLATION PERIODS OF APRIL 15 - JUNE 30, OR SEPTEMBER 1 - OCTOBER 15. ONLY QUALITY NATIVE PLANTS FROM A NURSERY SHALL BE USED.
2. ALL WOODY PLANT MATERIAL SHALL BE PROVIDED IN CONTAINERS THAT ARE APPROPRIATELY SIZED FOR THE SPECIFIED PLANT. CONTAINERS AND ANY OTHER NON-BIODEGRADABLE MATERIAL SHALL BE REMOVED FROM ENTIRE ROOT BALL BEFORE INSTALLING WOODY PLANT MATERIAL.
3. ALL TREES AND SHRUBS SHALL BE MULCHED WITH NON-DYE MULCH TO A DEPTH OF 4 INCHES. TREES AND SHRUBS SHALL HAVE A MINIMUM 4 FOOT DIAMETER MULCH BED AROUND EACH SHRUB AND/OR TREE.

LIVE STAKES

1. LIVE STAKES TO BE INSTALLED IN THE AREAS SHOWN ON THE RESTORATION PLAN (RS-1) AND IN THE BEAVER DAM ANALOGS, POST-ASSISTED LOG STRUCTURES, REINFORCED BOULDER STEP WITH LIVE STAKES AND WOOD, AND IN THE BOULDER TOE WITH LIVE STAKES (SEE DE-2, DE-3).

2. LIVE STAKE SPECIES SHALL BE AS NOTED ON THE PLANT SCHEDULE AND IN THE SPECIFICATIONS (SEE RS-1).
3. PLANT SPECIES AND CONDITION SHALL BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO INSTALLATION.
4. STAKES THAT ARE SPLIT OR DAMAGED DURING INSTALLATION SHALL BE REMOVED AND REPLACED.
5. LIVE STAKE INSTALLATIONS SHALL OCCUR DURING THE DORMANT SEASON. DORMANT SEASON PLANTINGS SHALL BE LIMITED TO THE INSTALLATION PERIODS OF NOVEMBER 1 THROUGH MARCH 31, BUT NOT WHILE THE GROUND IS FROZEN.
6. LIVE STAKES SHALL BE SOAKED FOR 24-72 HOURS PRIOR TO INSTALLATION.
7. ALL PLANT MATERIAL MUST BE MAINTAINED IN A CONTINUOUSLY COOL, COVERED, MOIST SETTING AND BE IN GOOD CONDITION AT TIME OF INSTALLATION.
8. BEGIN LIVE STAKE INSTALLATION BY USING STINGER OR SIMILAR METHOD TO CREATE PILOT HOLES.
9. LIVE STAKES SHALL BE AT LEAST 1 INCH IN DIAMETER AND AT LEAST 3 FEET LONG, WITH AT LEAST 5 BUD NODES PER STAKE.
10. BASAL END OF EACH STAKE SHALL BE CUT TO A POINT FOR INSERTION INTO THE GROUND.
11. STAKES SHALL BE INSTALLED WITH APPROXIMATELY TWO-THIRDS OF THE STAKE INSERTED INTO THE SOIL WITH THE CORRECT END ORIENTED UPWARDS.
12. TO ENSURE GOOD SOIL-TO-STAKE CONTACT, APPLY WATER-SOIL SLURRY, TO THE CONSISTENCY OF CHEAP SYRUP, AROUND STAKES IMMEDIATELY AFTER.
13. STAKES INSTALLED IN BEAVER DAM ANALOGS AND POST-ASSISTED LOG STRUCTURES TO BE SPACED 1' O.C.
14. STAKES INSTALLED IN HATCHED AREAS ON THE RESTORATION PLAN (RS-1), IN THE REINFORCED BOULDER STEP WITH WOOD AND LIVE STAKES, AND IN THE BOULDER TOE WITH LIVE STAKES ARE TO BE SPACED 3' O.C. (SEE RS-1, DE-3).

SEED MIX

1. IF SEEDING IS TO BE DONE AFTER SEPTEMBER 30, INCREASE THE SEEDING RATE BY 50% OVER SPECIFIED RATES.
2. DISTURBED PORTIONS OF THE PROJECT AREA WHERE CONSTRUCTION ACTIVITIES CEASE SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN SEVEN (7) DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND PLANS.
3. SEED MIXES SHALL BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO PLANTING.
4. SEEDING RATES AND USE OF COVER CROPS SHALL BE AS SPECIFIED ON THE RESTORATION PLAN (RS-1).
5. AREAS TO BE SEEDED SHALL BE HAND RAKED TO SCARIFY THE SOIL SURFACE, THEN HAND SEEDED, RAKED LIGHTLY TO ENSURE SEED TO SOIL CONTACT, AND HYDRO-MULCHED, OR HAND SPREAD WITH STRAW MULCH. STRAW MULCH SHALL BE WET AFTER PLACEMENT.
6. ONCE SEED MIXES HAVE GERMINATED AND GROWN, COVER CROPS SHALL BE TERMINATED BY MECHANICAL MOWING JUST PRIOR TO OR DURING FLOWERING.

PLANT SCHEDULE:						
TREES						
SYMBOL	COMMON NAME	SCIENTIFIC NAME	SPACING	QUANTITY	SIZE	SPACING
AS	SUGAR MAPLE	ACER SACCHARUM	10' O.C.	35	# 7	10' O.C.
RO	NORTHERN RED OAK	QUERCUS RUBRA	10' O.C.	35	# 7	10' O.C.
SHRUBS						
SYMBOL	COMMON NAME	SCIENTIFIC NAME	SPACING	QUANTITY	SIZE	SPACING
○	SPICEBUSH	LINDERA BENZOIN	5' O.C.	60	# 7	5' O.C.
●	WINTERBERRY	ILEX VERTICILLATA	5' O. C.	60	# 7	5' O. C.
LIVE STAKES						
SYMBOL	COMMON NAME	SCIENTIFIC NAME	SPACING	MIN. LENGTH	MIN. DIA.	MIN. DIA.
	PUSSY WILLOW	SALIX DISCOLOR	SEE NOTES	3'	1"	1"
	SILKY DOGWOOD	CORNUS AMOMUM	SEE NOTES	3'	1"	1"
	SILKY WILLOW	SALIX SERICEA	SEE NOTES	3'	1"	1"
SEED MIX						
HATCH	NAME	AREA	NOTES			
	ERNMX-140: PARTIALLY SHADED AREA ROADSIDE MIX	0.6 AC	SEEDING RATE: 20 LB PER ACRE WITH 30 LB PER ACRE OF A COVER CROP*			
	ERNMX-122 FACW WETLAND MEADOW MIX	0.1 AC	SEEDING RATE: 20 LB PER ACRE WITH 30 LB PER ACRE OF A COVER CROP*			

*COVER CROP: GRAIN OATS (JAN. 1 - JULY 31); GRAIN RYE (AUG. 1 - DEC 31)

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SLR Engineering, Landscape Architecture,
and Land Surveying P.C.
Registration No. 083112

DESCRIPTION	DATE	BY

RESTORATION PLAN

ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

MET	KJC	MC
DESIGNED	DRAWN	CHECKED

1"=30'

JUNE 12, 2026

20261.00002

PROJECT NO.

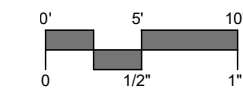
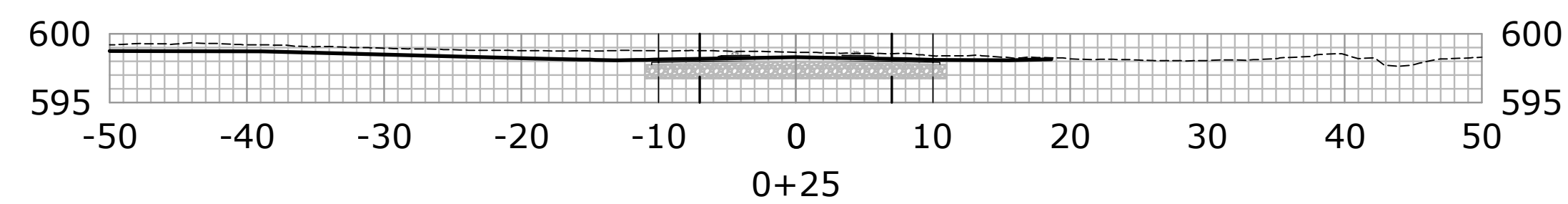
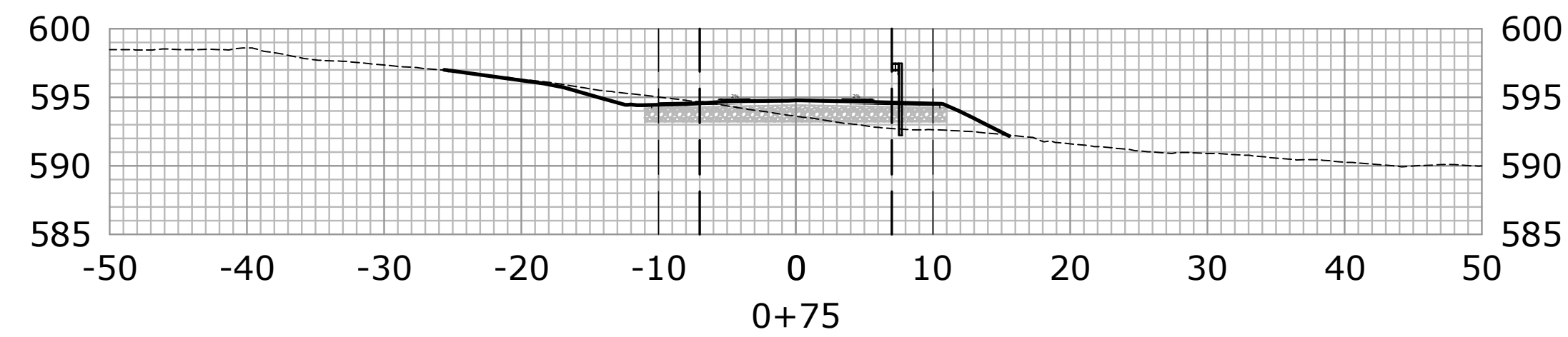
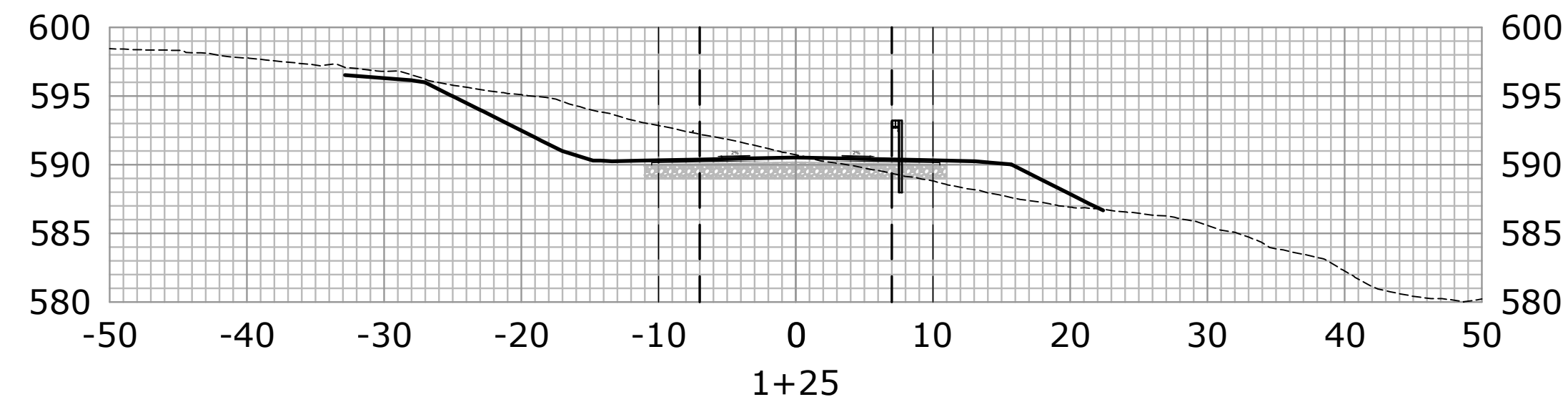
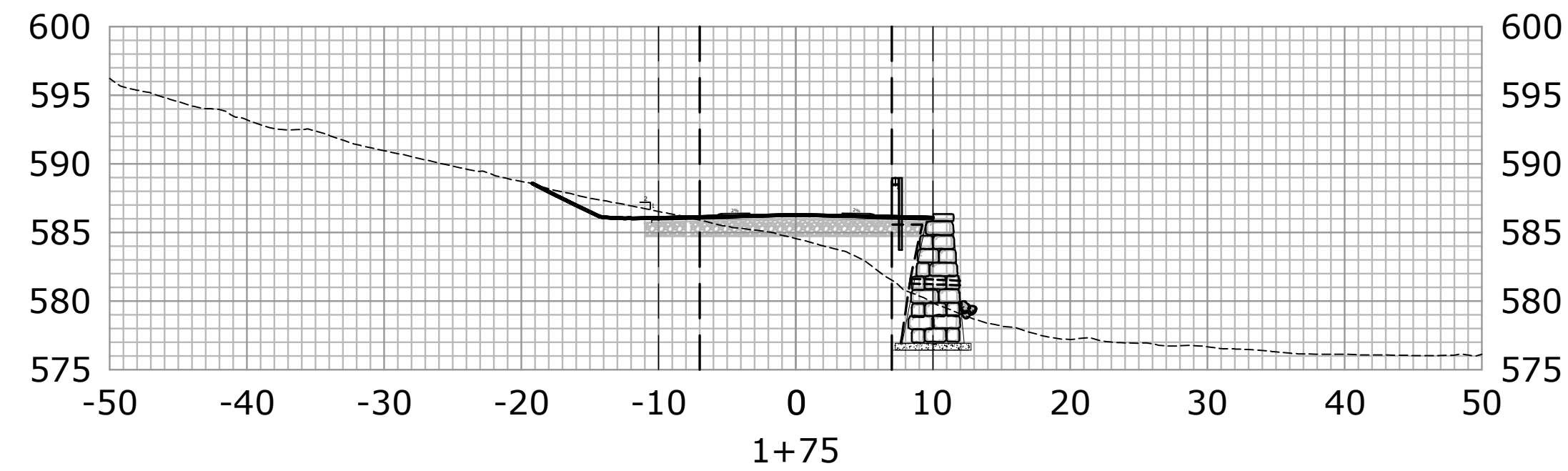
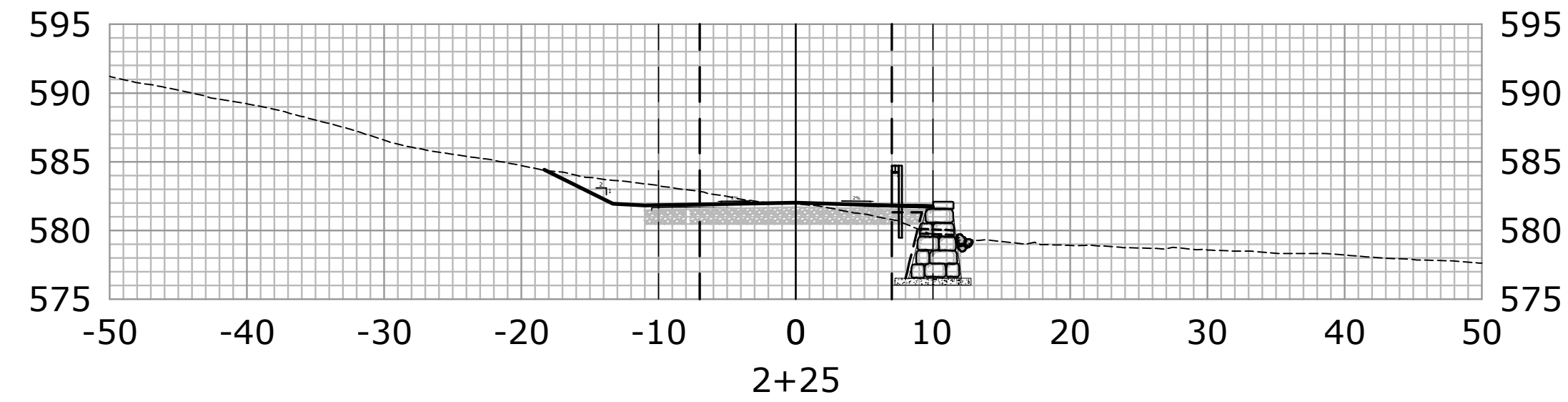
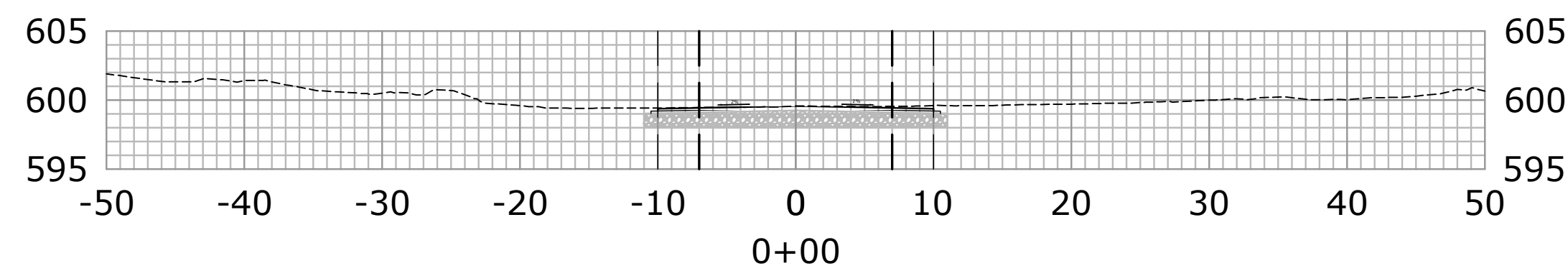
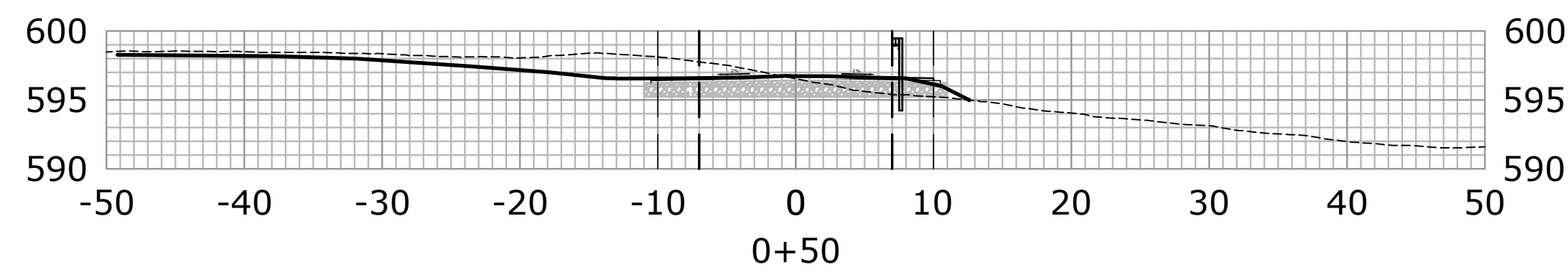
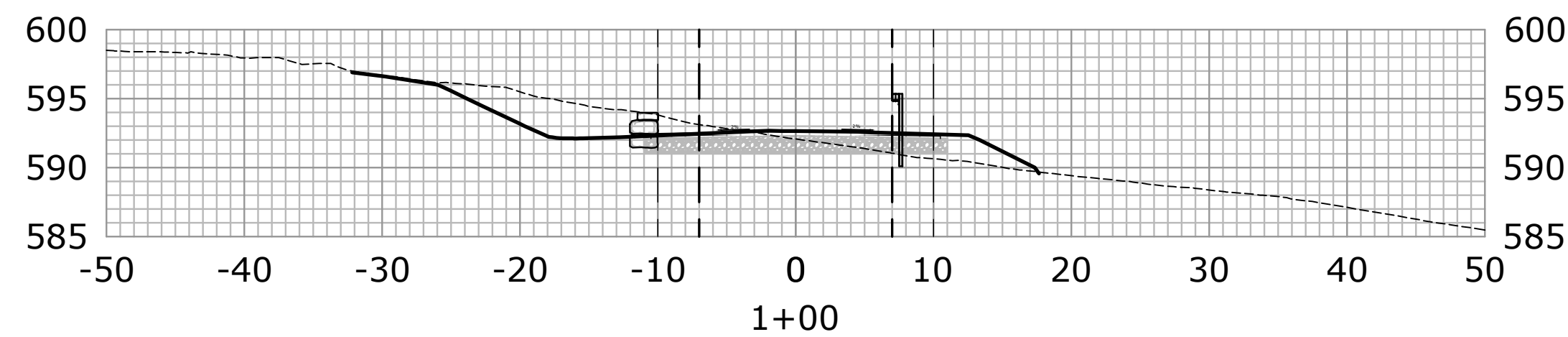
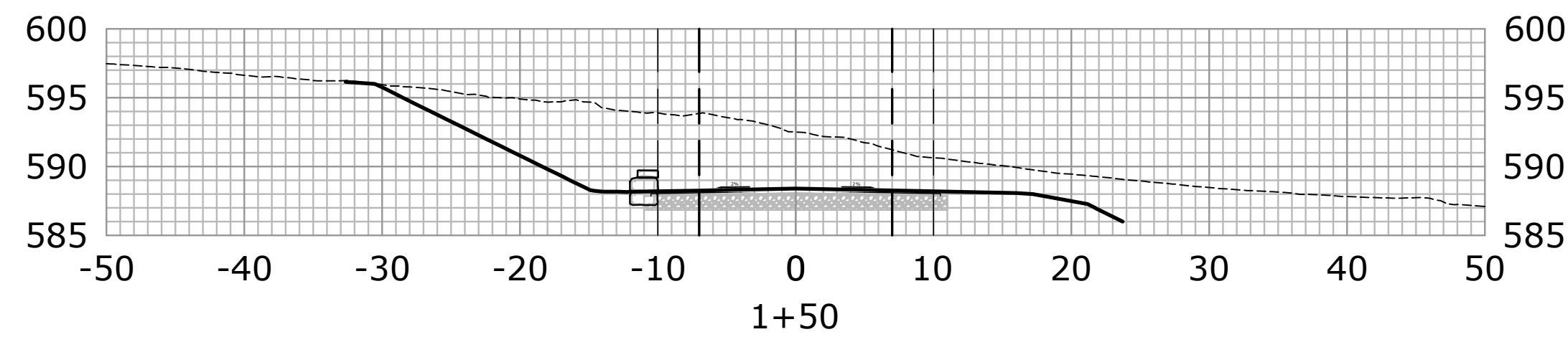
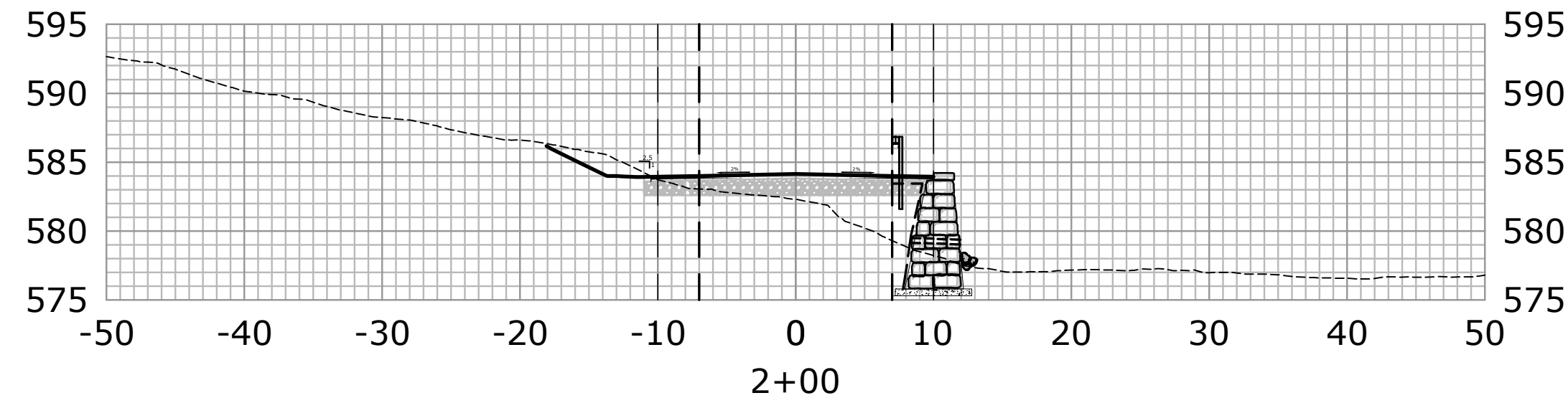
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SHEET NO.

RS-1

SHEET NAME

PROJECT: 20261.00002, SHEET: 15 OF 31, DATE: 2026.06.12, SCALE: 1"=10'-0", PROJECT NO.: 20261.00002, SHEET NO.: 15 OF 31, DATE: 2026.06.12, SCALE: 1"=10'-0"



***SLR**
251 MAIN STREET, SUITE 102
NEW PALTZ, NY 12561
845.633.8153
SLRCONSULTING.COM
SLR Engineering, Landscape Architecture,
and Land Surveying P.C.
Registration No. 083112

DESCRIPTION	DATE	BY

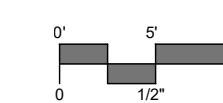
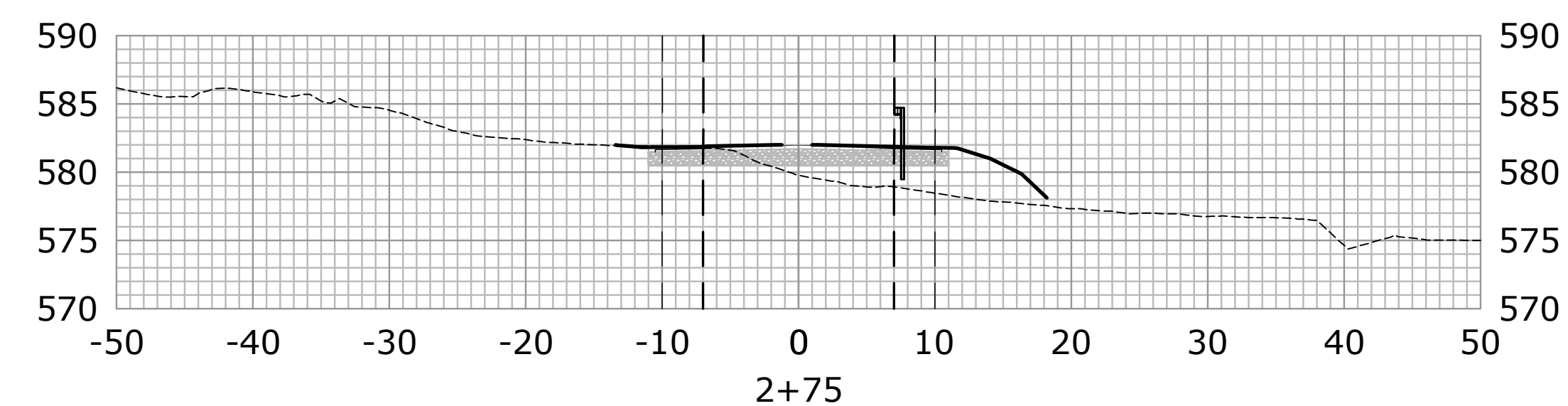
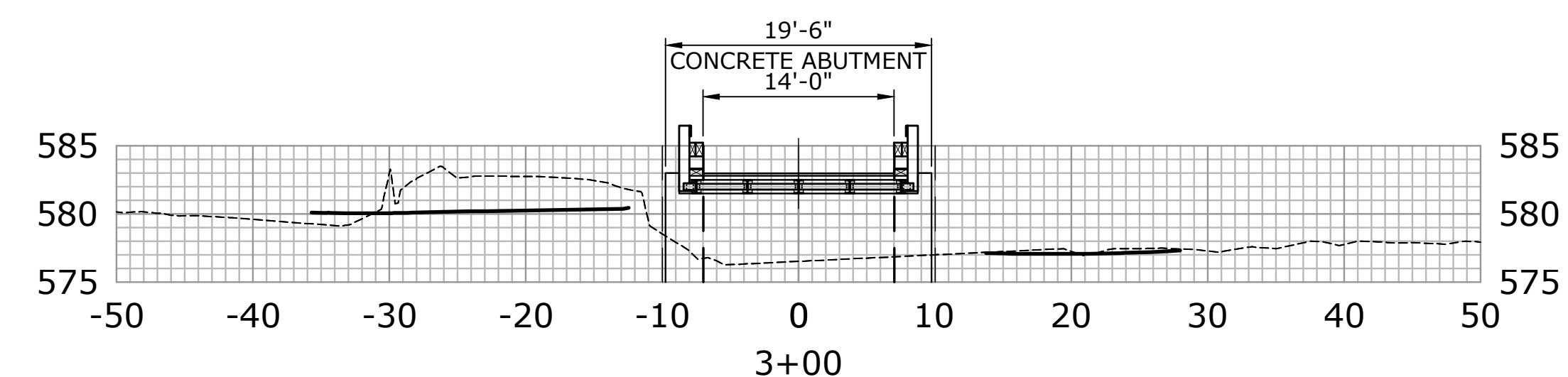
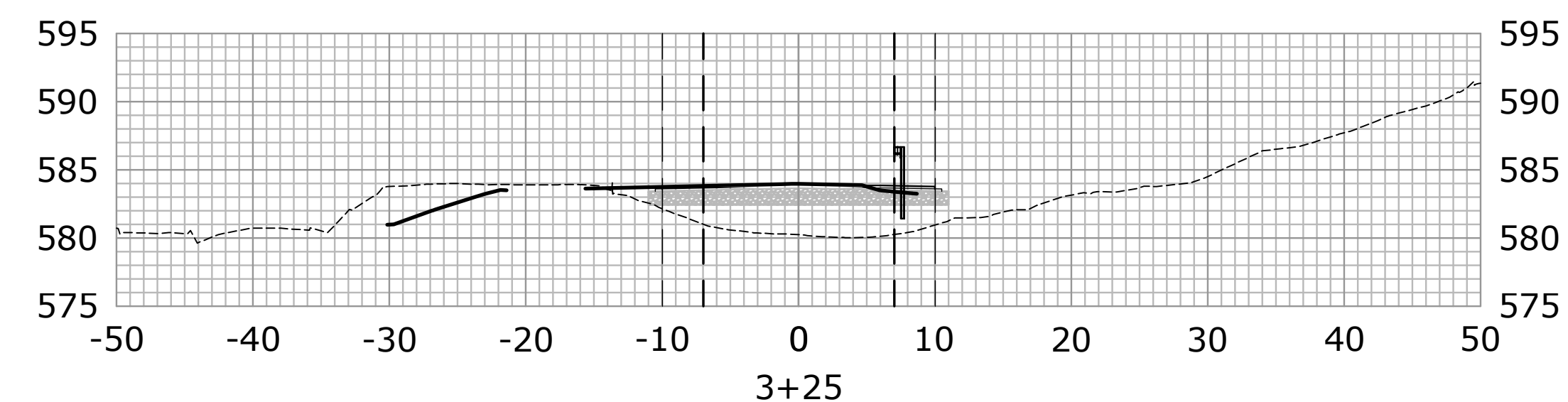
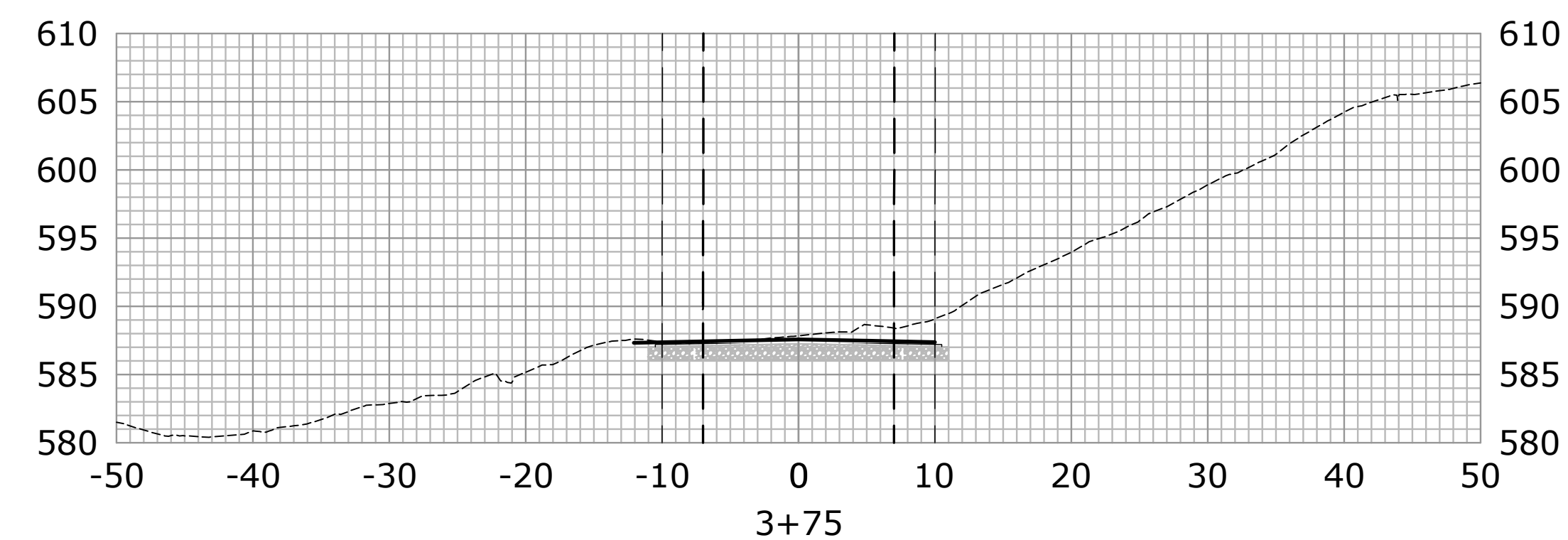
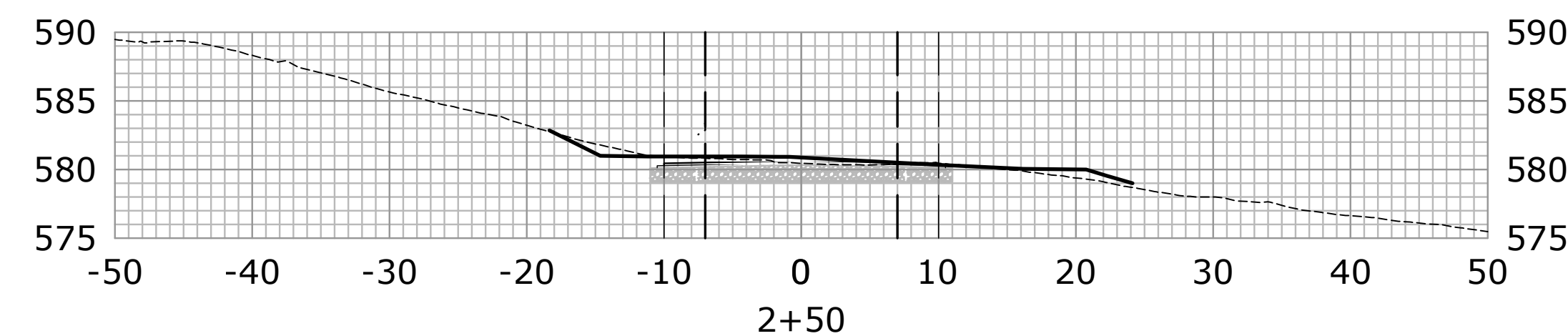
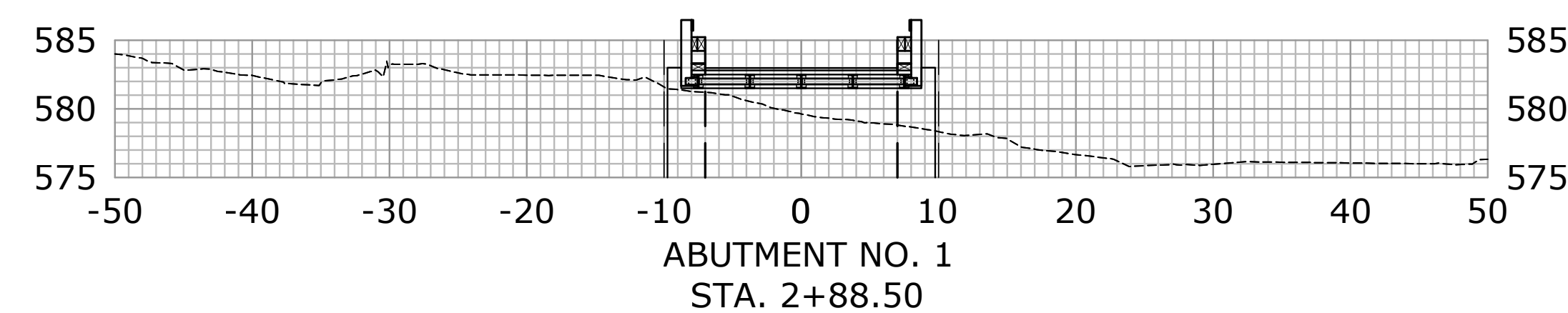
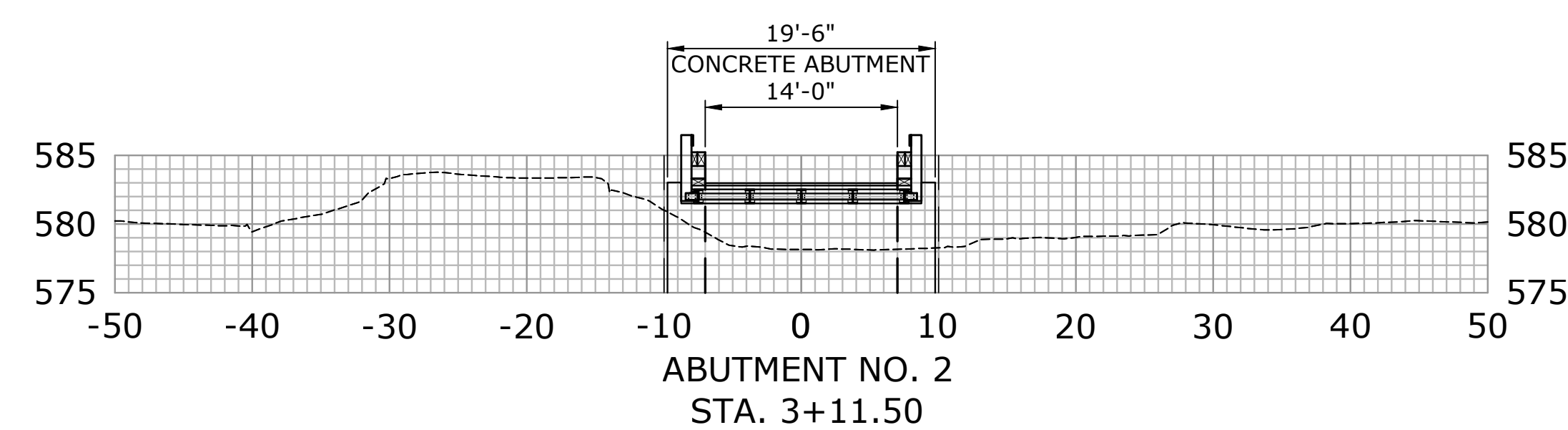
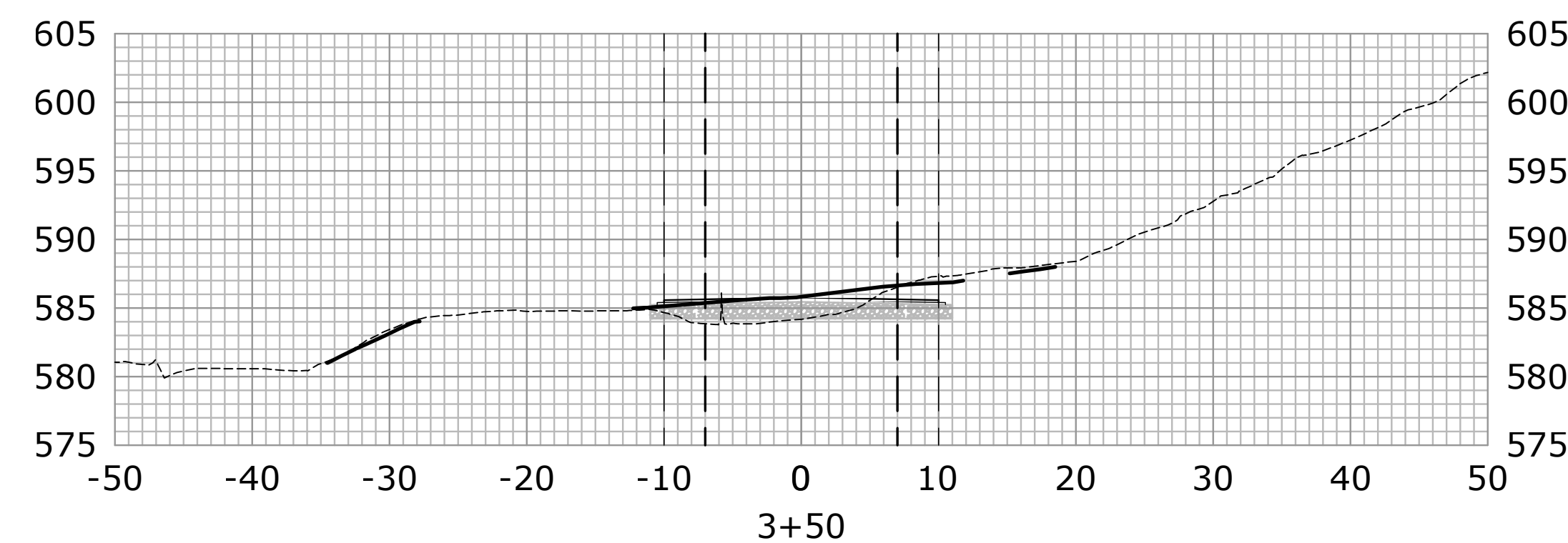
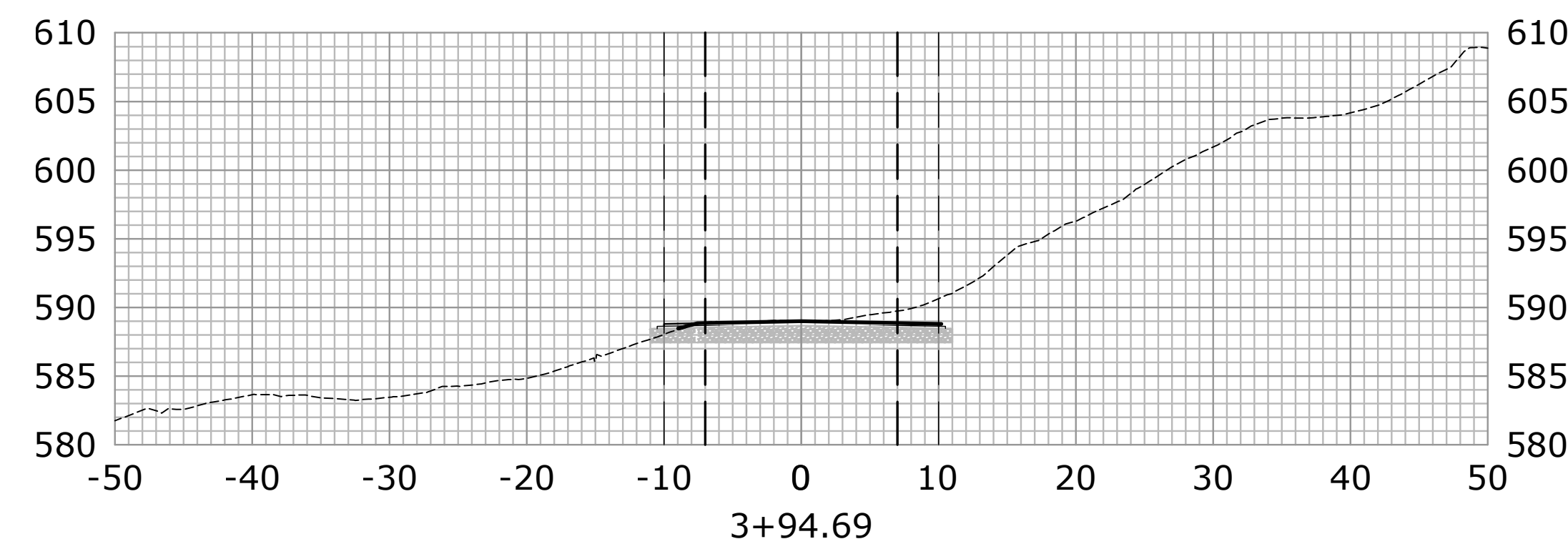
CROSS SECTIONS: PROPOSED CARRIAGE ROAD

ECOLOGICAL RESTORATION
OF THE KLEINE KILL
LENAPE LANE
NEW PALTZ, NY

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION

KP	JG	KP
DESIGNED	DRAWN	CHECKED
1" = 10'-0"		
JUNE 12, 2026		
20261.00002		
15 OF 31		

CS-3



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331 MAIN STREET, SUITE 102
NEW PALTZ, NY 12561
845.633.8153
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[illegible]

CROSS SECTIONS: PROPOSED CARRIAGE ROAD

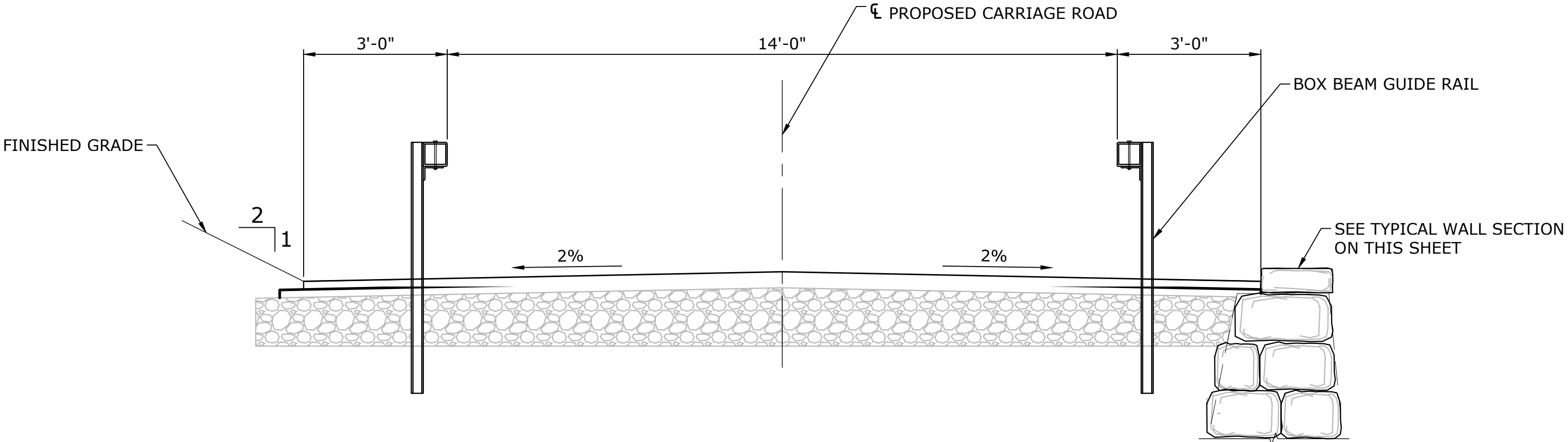
ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION

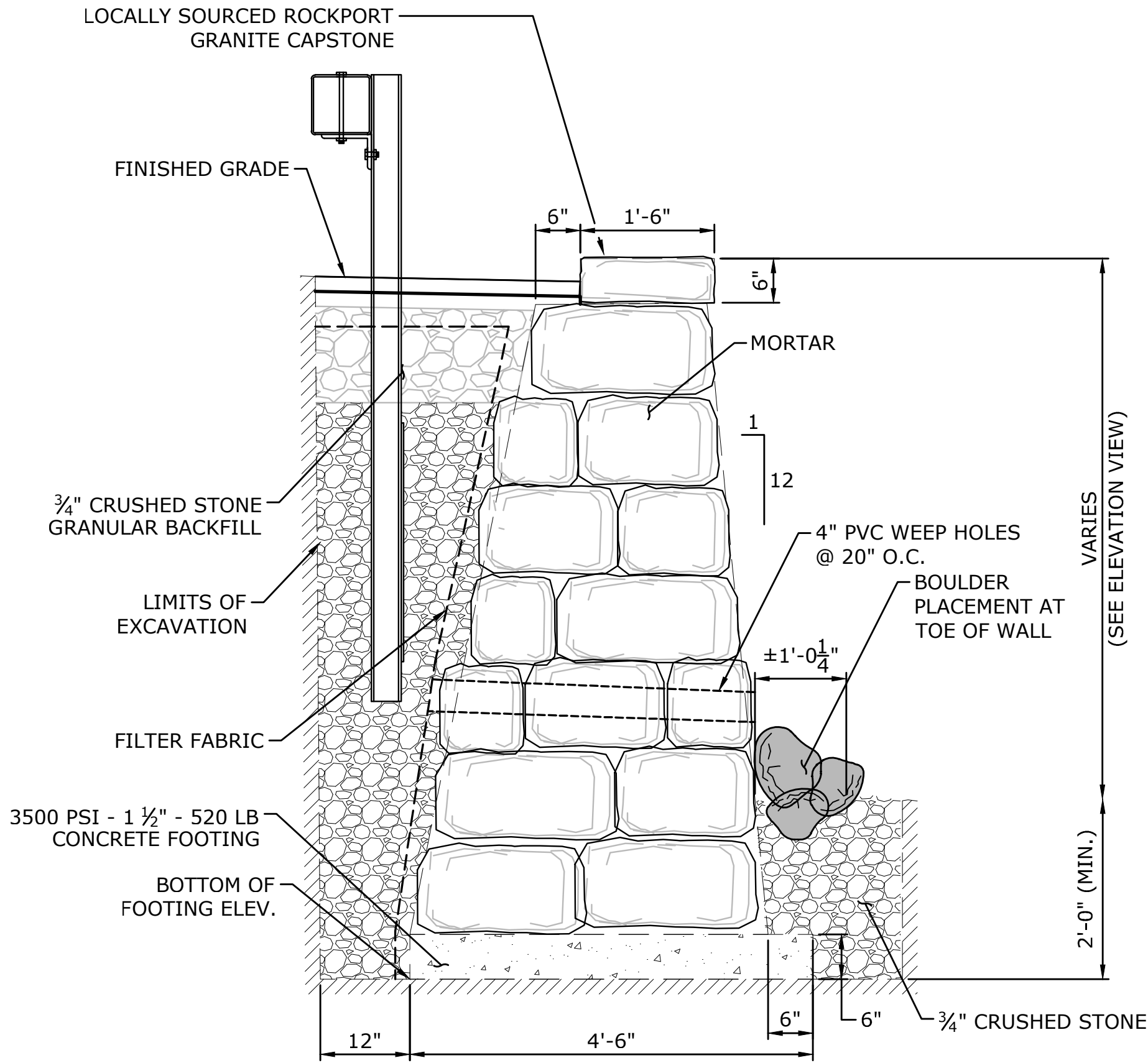
KP	JG	K
DESIGNED	DRAWN	CHECKED
1" = 10'-0"		
SCALE		
JUNE 12, 2026		
DATE		
20261.00002		
PROJECT NO.		
16 OF 31		
SHEET NO.		

CS-4



TYPICAL CARRIAGE ROADWAY SECTION

SCALE: $\frac{1}{2}" = 1'-0"$



TYPICAL STONE WALL SECTION

SCALE: $\frac{3}{4}"=1'$

[illegible]

TYPICAL SECTIONS

ECOLOGICAL RESTORATION OF THE KILINE KILL

LENAPE LANE

60% ADVANCED DESIGN

KP	JG	KP
DESIGNED	DRAWN	CHECKED

AS NOTED

JUNE 12, 2022

20261.00002

17 OF 31

N-1

NOTES: 1. SLR shall be responsible for obtaining all necessary permits and approvals for this project. 2. SLR shall be responsible for obtaining all necessary permits and approvals for this project. 3. SLR shall be responsible for obtaining all necessary permits and approvals for this project.

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.1773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-1		SHEET: 1 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 9, 2025				GROUND SURFACE ELEVATION: ±583.5'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)			TYPE OF RIG:					
TYPE		SSA	HW	SS	-	DATE	TIME	WATER DEPTH	TRACK W/ AUTO HAMMER					
SIZE OD (IN.)		4 1/2	3 1/2	2	-	6/9/2025	10:30 AM	±4.0'	RIG MODEL:					
HMR. WT (LB.)		-	140	140	-				DIEDRICH D-50					
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"	BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)				DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remarks			
1	S-1	15	8 13 14 50/2"	S-1: Medium dense, Top 7": Gray, fine to coarse GRAVEL, little fine to coarse Sand, little Silt. Bottom 8": Light brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt.					FILL		1			
2								4.0'	G.W.T. ▼	579.5				
3														
4														
5														
6	S-2	10	5 5 9 8	S-2: Top 5": Stiff, light gray-brown, Clayey SILT, some fine Sand, little fine to coarse Gravel. Bottom 5": Medium dense, dark brown-gray, fine to coarse GRAVEL and SILT, some fine to medium Sand.				6.0'	CLAYEY SILT	577.5	2			
7														
8														
9														
10														
11	S-3	9	8 10 12 15	S-3: Medium dense, dark gray-brown, SILT, some fine to medium Sand, some fine to coarse Gravel.										
12														
13														
14														
15														
16	S-4	10	12 17 31 32	S-4: Dense, dark gray-brown, SILT, some fine to medium Sand, some fine to coarse Gravel.										
17														
18														
19														
20														
21	S-5	16	16 23 43 50/3"	S-5: Hard, dark gray-brown, Clayey SILT and fine to coarse GRAVEL, some fine to medium Sand.										
22														
Remarks: 1. Several inferred cobbles/boulders encountered between ±2 and ±4 feet below existing grade. 2. Solid stem augers used to ±5 feet and then switched to flush joint casing.														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE 4-10 = LOOSE 10-30 = MEDIUM DENSE 30-50 = DENSE 50+ = VERY DENSE		0-2 = VERY SOFT 2-4 = SOFT 4-8 = MEDIUM 8-15 = STIFF 15-30 = VERY STIFF 30+ = HARD		C = ROCK CORE S = SPLIT SPOON UP = UNDISTURBED PISTON UT = UNDISTURBED THINWALL		trace = <10% little = 10% - 20% some = 20% - 35% and = 35% - 50%						

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.1773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-1		SHEET: 2 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 9, 2025				GROUND SURFACE ELEVATION: ±583.5'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)			TYPE OF RIG:					
TYPE		SSA	HW	SS	-	DATE	TIME	WATER DEPTH	TRACK W/ AUTO HAMMER					
SIZE OD (IN.)		4 1/2	4 1/2	2	-	6/9/2025	10:30 AM	±4.0'	RIG MODEL:					
HMR. WT (LB.)		-	140	140	-				DIEDRICH D-50					
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"	BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)				DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remarks			
24														
25	S-6	3	50/4"	S-6: Very dense, gray-brown, fine to coarse GRAVEL, little Silt, little fine Sand.										
26														
27														
28														
29														
30	S-7	0	50/1"	S-7: No recovery.				30.3'		553.2'				
31				Roller Bit Refusal ±30.3'										
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
Remarks:														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE 4-10 = LOOSE 10-30 = MEDIUM DENSE 30-50 = DENSE 50+ = VERY DENSE		0-2 = VERY SOFT 2-4 = SOFT 4-8 = MEDIUM 8-15 = STIFF 15-30 = VERY STIFF 30+ = HARD		C = ROCK CORE S = SPLIT SPOON UP = UNDISTURBED PISTON UT = UNDISTURBED THINWALL		trace = <10% little = 10% - 20% some = 20% - 35% and = 35% - 50%						

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.1773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-2		SHEET: 1 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 9, 2025				GROUND SURFACE ELEVATION: ±582.5'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)			TYPE OF RIG:					
TYPE		SSA	HW	SS	-	DATE	TIME	WATER DEPTH	TRACK W/ AUTO HAMMER					
SIZE OD (IN.)		4 1/2	3 1/2	2	-	6/9/2025	1:45 PM	±5.0'	RIG MODEL:					
HMR. WT (LB.)		-	140	140	-				DIEDRICH D-50					
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"	BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)				DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remarks			
1	S-1	9	6 12 12 12	S-1: Medium dense, Top 6": Gray-brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt. Bottom 1": Gray, fine to coarse GRAVEL, little fine to coarse Sand, trace Silt.					FILL		1			
2								4.0'		578.5				
3														
4														
5														
6	S-2	13	14 4 8 9	S-2: Stiff, Top 3": Gray-brown, Clayey SILT, little fine Sand, trace fine Gravel. Bottom 10": Brown, Clayey SILT and fine to coarse GRAVEL, some fine Sand.				5.0'	CLAYEY SILT	577.3	2			
7								5.0'	G.W.T. ▼	577.0				
8														
9														
10														
11	S-3	2	29 50/2"	S-3: Very dense, brown-gray, fine to coarse GRAVEL, some Silt, some fine to coarse Sand.										
12														
13														
14														
15														
16	S-4	13	11 19 22 24	S-4: Dense, gray-brown, fine to coarse GRAVEL and SILT, some fine to medium Sand.										
17														
18														
19														
20														
21	S-5	6	32 50/2"	S-5: Very dense, gray-brown, fine to coarse GRAVEL, some fine to coarse Sand, some Silt.										
22														
Remarks: 1. Several inferred cobbles/boulders encountered between ±2 and ±4 feet below existing grade. 2. Solid stem augers used to ±5 feet and then switched to flush joint casing.														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE 4-10 = LOOSE 10-30 = MEDIUM DENSE 30-50 = DENSE 50+ = VERY DENSE		0-2 = VERY SOFT 2-4 = SOFT 4-8 = MEDIUM 8-15 = STIFF 15-30 = VERY STIFF 30+ = HARD		C = ROCK CORE S = SPLIT SPOON UP = UNDISTURBED PISTON UT = UNDISTURBED THINWALL		trace = <10% little = 10% - 20% some = 20% - 35% and = 35% - 50%						

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.1773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-2		SHEET: 2 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 9, 2025				GROUND SURFACE ELEVATION: ±582.5'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)			TYPE OF RIG:					
TYPE		SSA	HW	SS	-	DATE	TIME	WATER DEPTH	TRACK W/ AUTO HAMMER					
SIZE OD (IN.)		4 1/2	4 1/2	2	-	6/9/2025	1:45 PM	±5.0'	RIG MODEL:					
HMR. WT (LB.)		-	140	140	-				DIEDRICH D-50					
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"	BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)				DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remarks			
24														
25														
26	S-6	13	25 32 37 40	S-6: Very dense, dark gray-brown, SILT, some fine to coarse Sand, some fine to coarse Gravel.										
27														
28														
29														
30														
31	S-7	0	33 41 50/5"	S-7: No recovery.										
32														
33														
34														
35														
36														
37														
38														
39														
40	S-8	0	50/2"	S-8: No recovery.				40.2'		542.3'				
41				Bottom of Exploration ±40.2'										
42														
43														
44														
45														
Remarks: 3. Several inferred boulders encountered between ±34 and ±38 feet below existing grade.														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE 4-10 = LOOSE 10-30 = MEDIUM DENSE 30-50 = DENSE 50+ = VERY DENSE		0-2 = VERY SOFT 2-4 = SOFT 4-8 = MEDIUM 8-15 = STIFF 15-30 = VERY STIFF 30+ = HARD		C = ROCK CORE S = SPLIT SPOON UP = UNDISTURBED PISTON UT = UNDISTURBED THINWALL		trace = <10% little = 10% - 20% some = 20% - 35% and = 35% - 50%						



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NEW PALTZ, NY 12561
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SLRCONSULTING.COM

SLR Engineering, Landscape Architecture,
and Land Surveying P.C.
Registration No. 083112

DESCRIPTION

DATE

BY

BORING LOGS

ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

DESIGNED

JOHN G. JG

CHECKED

KYLE P. KP

SCALE

JUNE 12, 2026

DATE

20261.00002

PROJECT NO.

18 OF 31

SHEET NO.

BOR-01

SHEET NAME

NOTES: 1. OF ANY BORE LOGS, THIS SHEET IS TO BE USED TO RECORD ONLY THE INFORMATION REQUIRED BY THE BORING LOG SHEET. 2. THE BORING LOG SHEET IS TO BE USED TO RECORD ONLY THE INFORMATION REQUIRED BY THE BORING LOG SHEET. 3. THE BORING LOG SHEET IS TO BE USED TO RECORD ONLY THE INFORMATION REQUIRED BY THE BORING LOG SHEET.

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.5773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-3		SHEET: 1 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 10, 2025				GROUND SURFACE ELEVATION: ±575.0'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)				TYPE OF RIG:				
TYPE		SSA	HW	SS	-	DATE	TIME	WATER DEPTH				TRACK W/ AUTO HAMMER		
SIZE OD (IN.)		4 1/2	4 1/2	2	-	6/10/2025	11:00 AM	NOT OBSERVED				RIG MODEL:		
HMR. WT (LB.)		-	140	140	-							DIEDRICH D-50		
HMR. FALL (IN.)		-	30	30										
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"					DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remark			
1	S-1	14	4	S-1: Medium dense, Top 6" Gray, fine to coarse GRAVEL, some fine to coarse Sand, little Silt.				FILL			1	2,3		
2			5	Bottom 6": Light brown, SILT, some fine to medium Sand, little fine Gravel.										
3			14											
4			10											
5														
6														
7														
8														
9														
10			8	S-2: Medium dense, brown-gray, SILT, some fine to coarse Gravel, some fine to coarse Sand.										
11	S-2	4	12					10.0'	565.0'	4				
12			10											
13			11											
14														
15	S-3	3	50/3"	S-3: Very dense, brown-gray, SILT, some fine to coarse Gravel, some fine to coarse Sand.				GLACIAL TILL						
16														
17														
18														
19														
20			15	S-4: Very dense, gray-brown, fine to coarse GRAVEL, some Clayey Silt, some fine to medium Sand.										
21	S-4	15	29											
22			34											
			32											
Remarks: 1. Several inferred cobbles/boulders encountered between ±2 and ±8 feet below existing grade. 2. Auger refusal on inferred boulder ±3 feet below existing grade. 3. Solid stem augers used to ±3 feet and then switched to flush joint casing. 4. No sample taken between ±2 and ±10 feet due to presence of cobbles/boulders. Material above ±10 feet assumed to be fill.														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE		0-2 = VERY SOFT		C = ROCK CORE		trace = <10%						
		4-10 = LOOSE		2-4 = SOFT		S = SPLIT SPOON		little = 10% - 20%						
		10-30 = MEDIUM DENSE		4-8 = MEDIUM		UP = UNDISTURBED PISTON		some = 20% - 35%						
		30-60 = DENSE		8-15 = STIFF		UT = UNDISTURBED THINWALL		and = 35% - 50%						
		50+ = VERY DENSE		15-30 = VERY STIFF		30+ = HARD								

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.5773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-3		SHEET: 2 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 10, 2025				GROUND SURFACE ELEVATION: ±575.0'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)				TYPE OF RIG:				
TYPE		SSA	HW	SS	-	DATE	TIME	WATER DEPTH				TRACK W/ AUTO HAMMER		
SIZE OD (IN.)		4 1/2	4 1/2	2	-	6/10/2025	11:00 AM	NOT OBSERVED				RIG MODEL:		
HMR. WT (LB.)		-	140	140	-							DIEDRICH D-50		
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"					DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remark			
24								S-5: Very dense, gray-brown, fine to coarse GRAVEL and SILT, some fine to medium Sand.						
25	S-5	12	17											
26			19											
27			50/4"											
28														
29														
30			14	S-6: Dense, brown-gray, SILT, some fine to coarse Gravel, some fine to medium Sand.										
31	S-6	14	17											
32			26											
33			42											
34														
35			38	S-7: Very dense, gray-brown, fine to medium SAND and SILT, some fine to coarse Gravel.										
36	S-7	12	38											
37			50/5"											
38														
39														
40														
41	S-8	8	39	S-8: Very dense, gray-brown, fine to coarse GRAVEL, some Clayey Silt, some fine to coarse Sand.										
42			50/4"											
43				Bottom of Exploration ±40.8'										
44														
45														
Remarks:														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE		0-2 = VERY SOFT		C = ROCK CORE		trace = <10%						
		4-10 = LOOSE		2-4 = SOFT		S = SPLIT SPOON		little = 10% - 20%						
		10-30 = MEDIUM DENSE		4-8 = MEDIUM		UP = UNDISTURBED PISTON		some = 20% - 35%						
		30-60 = DENSE		8-15 = STIFF		UT = UNDISTURBED THINWALL		and = 35% - 50%						
		50+ = VERY DENSE		15-30 = VERY STIFF		30+ = HARD								

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.5773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-4		SHEET: 1 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 10, 2025				GROUND SURFACE ELEVATION: ±576.0'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)				TYPE OF RIG:				
TYPE		SSA	HW	SS	NX	DATE	TIME	WATER DEPTH				TRACK W/ AUTO HAMMER		
SIZE OD (IN.)		4 1/2	4 1/2	2	3	6/10/2025	3:00 PM	±12.0'				RIG MODEL:		
HMR. WT (LB.)		-	140	140	-							DIEDRICH D-50		
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"					DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remark			
1	S-1	5	5	S-1: Very dense, brown-gray, fine to coarse GRAVEL, some fine to coarse Sand, some Silt.				FILL			1			
2			4											
3	S-2	24	50/3"											
4			7	S-2: Medium dense, light brown-fine to medium SAND and fine to coarse GRAVEL, some fine to coarse Sand.										
5			7											
6	S-3	24	12	S-3: Medium dense, light brown, SILT and fine to coarse GRAVEL, some fine to coarse Sand.				GLACIAL TILL			3			
7			8											
8			9											
9			28											
10														
11	S-4	8	17	S-4: Medium dense, light brown, SILT and fine to coarse GRAVEL, some fine to medium Sand.										
12			13											
13			9											
14														
15														
16	S-5	12	7	S-4: Medium dense, gray-brown, SILT and fine to coarse GRAVEL, little fine to medium Sand.										
17			4											
18			6											
19			7											
20	S-6	7	25	S-6: Very dense, dark gray-brown, fine to coarse GRAVEL, some fine to medium Sand, some Silt.										
21			50/3"											
22														
Remarks: 1. Auger refusal on inferred boulder ±1.5 feet below existing grade. 2. Offset boring ±25 feet east, augered to ±2 feet, and continued sampling. 3. Solid stem augers used to ±10 feet and then switched to flush joint casing.														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE		0-2 = VERY SOFT		C = ROCK CORE		trace = <10%						
		4-10 = LOOSE		2-4 = SOFT		S = SPLIT SPOON		little = 10% - 20%						
		10-30 = MEDIUM DENSE		4-8 = MEDIUM		UP = UNDISTURBED PISTON		some = 20% - 35%						
		30-60 = DENSE		8-15 = STIFF		UT = UNDISTURBED THINWALL		and = 35% - 50%						
		50+ = VERY DENSE		15-30 = VERY STIFF		30+ = HARD								

BORING LOG														
 SLR International Corporation 99 Realty Drive, Cheshire, CT 06410 203.271.5773 www.slrconsulting.com		PROJECT: DUCK POND CULVERT REPLACEMENTS				BORING NO.: SLR-4		SHEET: 2 OF 2						
		LOCATION: DUCK POND ROAD, NEW PALTZ, NEW YORK				CONTRACTOR: CISCO GEOTECHNICAL, LLC								
		PROJ. NO: 142.20261.00002				FOREMAN: J. KNAPP								
		CLIENT: MOHONK PRESERVE				INSPECTOR: K. REED								
		DATE: JUNE 10, 2025				GROUND SURFACE ELEVATION: ±576.0'								
EQUIPMENT:		AUGER	CASING	SAMPLER	COREBRL	GROUNDWATER DEPTH (FT.)				TYPE OF RIG:				
TYPE		SSA	HW	SS	NX	DATE	TIME	WATER DEPTH				TRACK W/ AUTO HAMMER		
SIZE OD (IN.)		4 1/2	4 1/2	2	3	6/10/2025	3:00 PM	±12.0'				RIG MODEL:		
HMR. WT (LB.)		-	140	140	-							DIEDRICH D-50		
HMR. FALL (IN.)		-	30	30	-									
SOIL AND ROCK CLASSIFICATION-DESCRIPTION														
BURMISTER SYSTEM (SOIL) U.S. CORPS OF ENGINEERS SYSTEM (ROCK)														
Depth (FT.)	SAMPLE NUMBER	RECOVERY (IN)	BLOWS PER 6"					DEPTH (FT.)	STRATUM DESCRIPTION	ELEV. (FT.)	Remark			
24								C-1: Very poor quality, soft to moderately hard, moderately to severely weathered, extremely fractured, fine to medium grained, gray, SHALE. REC. = 80%, R.Q.D. = 0%	GLACIAL TILL	552.0'	4			
25			4.50											
26			6.00											
27	C-1	48	6.75											
28			5.25											
29			6.50											
30				Bottom of Exploration ±29.0'					572.0'					
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
Remarks: 4. Roller bit refusal ±24 feet below existing grade and started coring.														
		NON-PLASTIC (SPT-N)		PLASTIC (SPT-N)		SAMPLE TYPE		PROPORTIONS						
		0-4 = VERY LOOSE		0-2 = VERY SOFT		C = ROCK CORE		trace = <10%						
		4-10 = LOOSE		2-4 = SOFT		S = SPLIT SPOON		little = 10% - 20%						
		10-30 = MEDIUM DENSE		4-8 = MEDIUM		UP = UNDISTURBED PISTON		some = 20% - 35%						
		30-60 = DENSE		8-15 = STIFF		UT = UNDISTURBED THINWALL		and = 35% - 50%						
		50+ = VERY DENSE		15-30 = VERY STIFF		30+ = HARD								



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Registration No. 083112

DESCRIPTION

DATE

BY

BORING LOGS

ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

DESIGNED

DRAWN

CHECKED

SCALE

JG

KP

DATE

JUNE 12, 2026

PROJECT NO.

20261.00002

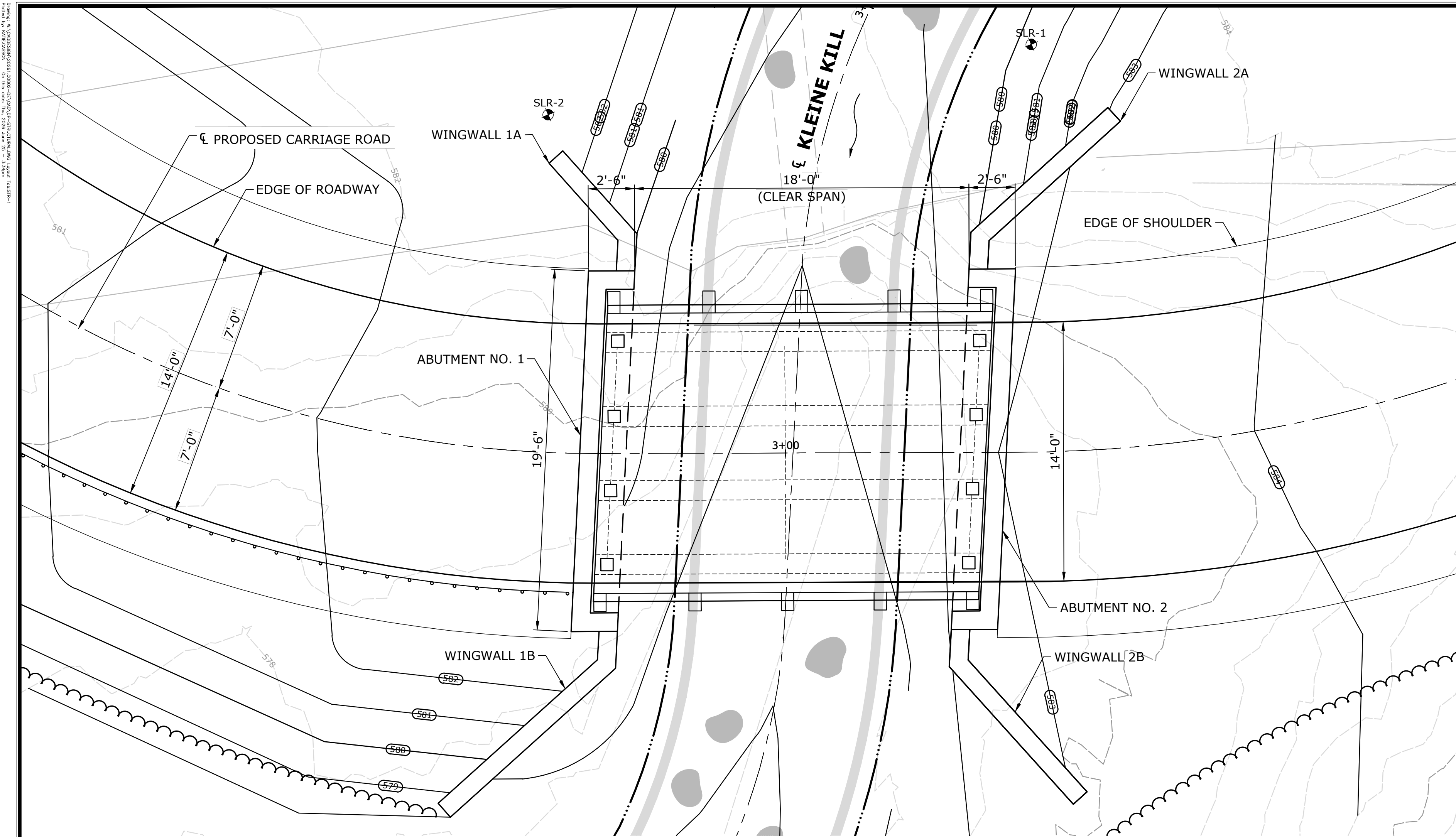
SHEET NO.

19 OF 31

BOR-02

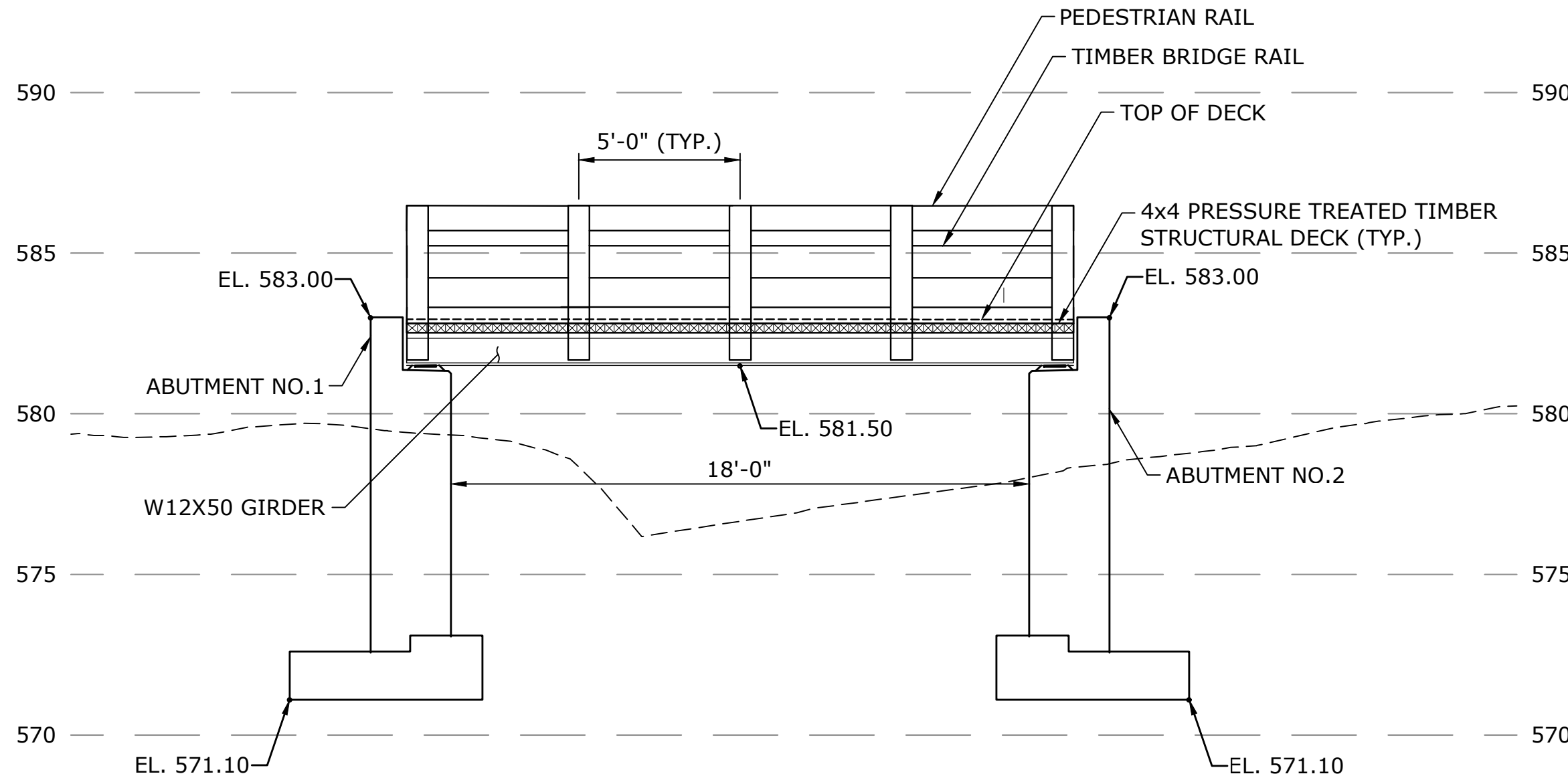
SHEET NAME

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION



UPSTREAM BRIDGE PLAN

SCALE: $\frac{1}{4}$ " = 1'-0"



UPSTREAM BRIDGE ELEVATION

SCALE: $\frac{1}{4}$ " = 1'-0"

STRUCTURAL NOTES

- SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS DATED MAY 01, 2026.
 - DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (AASHTO LRFD, 10TH EDITION, 2024) WITH INTERIM SPECIFICATIONS, AS SUPPLEMENTED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL.
 - ALLOWABLE DESIGN STRESSES:
CLASS "HP" $f'_c = 4,000$ PSI (CONTRACTOR TO SUBMIT MIX DESIGN FOR APPROVAL)
 - REINFORCEMENT:
ASTM A615 GRADE 60 $f_y = 60,000$ PSI
- LIVE LOAD: HS-20
- DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
 - EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISH WORK AND SHALL ASSUME FULL RESPONSIBILITY OF THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

CONCRETE NOTES

- REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.
- CLASS "HP" CONCRETE: CLASS "HP" CONCRETE SHALL BE USED FOR THE BRIDGE ABUTMENTS.
- CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES OF COVER UNLESS DIMENSIONED OTHERWISE.
- EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.
- REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
- EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT WITHIN THE ABUTMENTS SHALL BE EPOXY COATED AND SHALL BE INCLUDED IN THE PAY ITEM.
- CONCRETE DISPOSAL: CONCRETE IS NOT TO BE DISPOSED ON SITE.

STEEL NOTES

- CLASS A STEEL: ALL STEEL BEAMS SHALL BE CLASS "A" ROLLED BEAMS.
- STRUCTURAL STEEL: STRUCTURAL STEEL SHALL CONFORM TO TO AASHTO M270, GRADE 50 T2.
- WELDING: WELDING PROCEDURES, WELDING INSPECTION, AND TESTING METHODS SHALL MEET THE ANSI/AASHTO/AWS D1.5-(2020) - *BRIDGE WELDING CODE*, UNLESS OTHERWISE NOTED ON PLANS. THE FREQUENCY, QUANTITY AND TYPE OF NON-DESTRUCTIVE TESTING OF SHOP AND FIELD WELDS SHALL BE IN ACCORDANCE WITH D1.5 AND ANY ADDITIONAL REQUIREMENTS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
- SPLICES: FIELD SPLICES WILL NOT BE ALLOWED.
- FABRICATOR: STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER THE AISC CERTIFICATION PROGRAM CATEGORY BRIDGE FABRICATOR SIMPLE (SBR).
 - TYPICAL WORK INCLUDES: STRAIGHT SIMPLE UN-SPLICED ROLLED BEAMS.
- CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN BEING.

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Registration No. 083112

DESCRIPTION

DATE

BY

UPSTREAM BRIDGE STRUCTURAL PLAN

ECOLOGICAL RESTORATION
OF THE KLEINE KILL
LENAPE LANE
NEW PALTZ, NY

KP
DESIGNED

JG
DRAWN

KP
CHECKED

AS NOTED

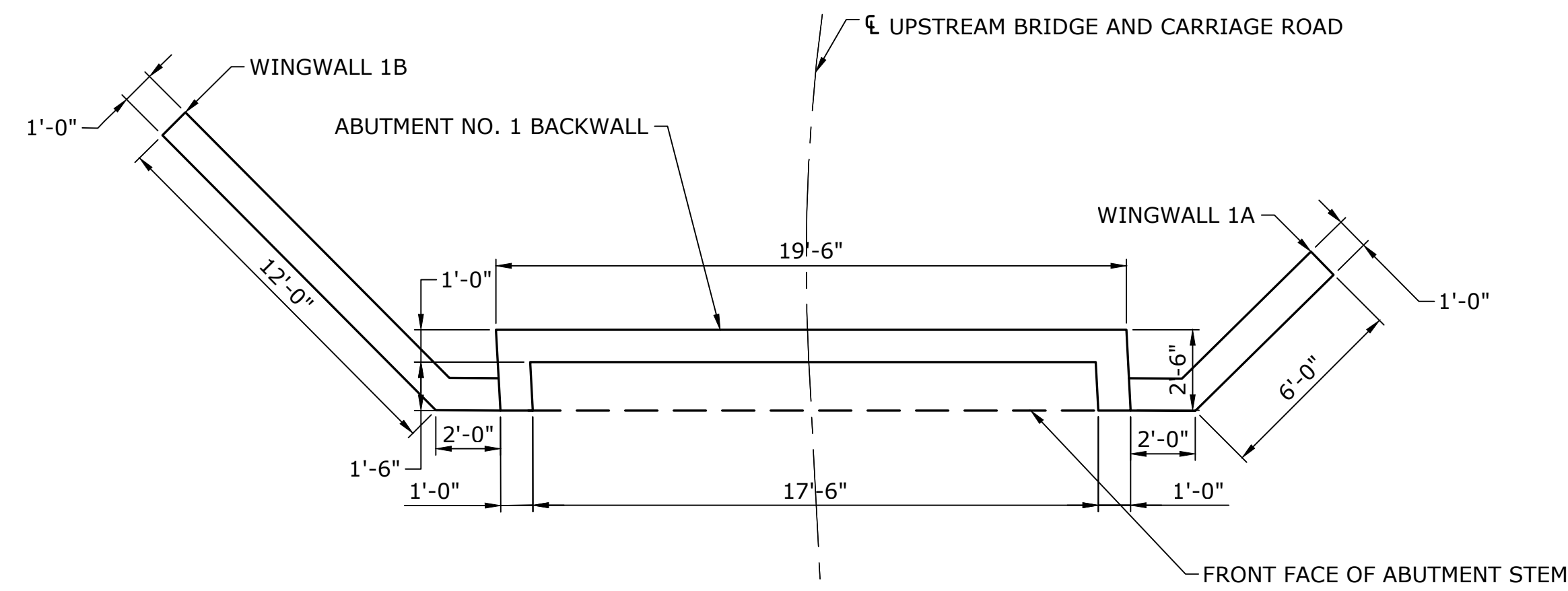
JUNE 12, 2026

20261.00002

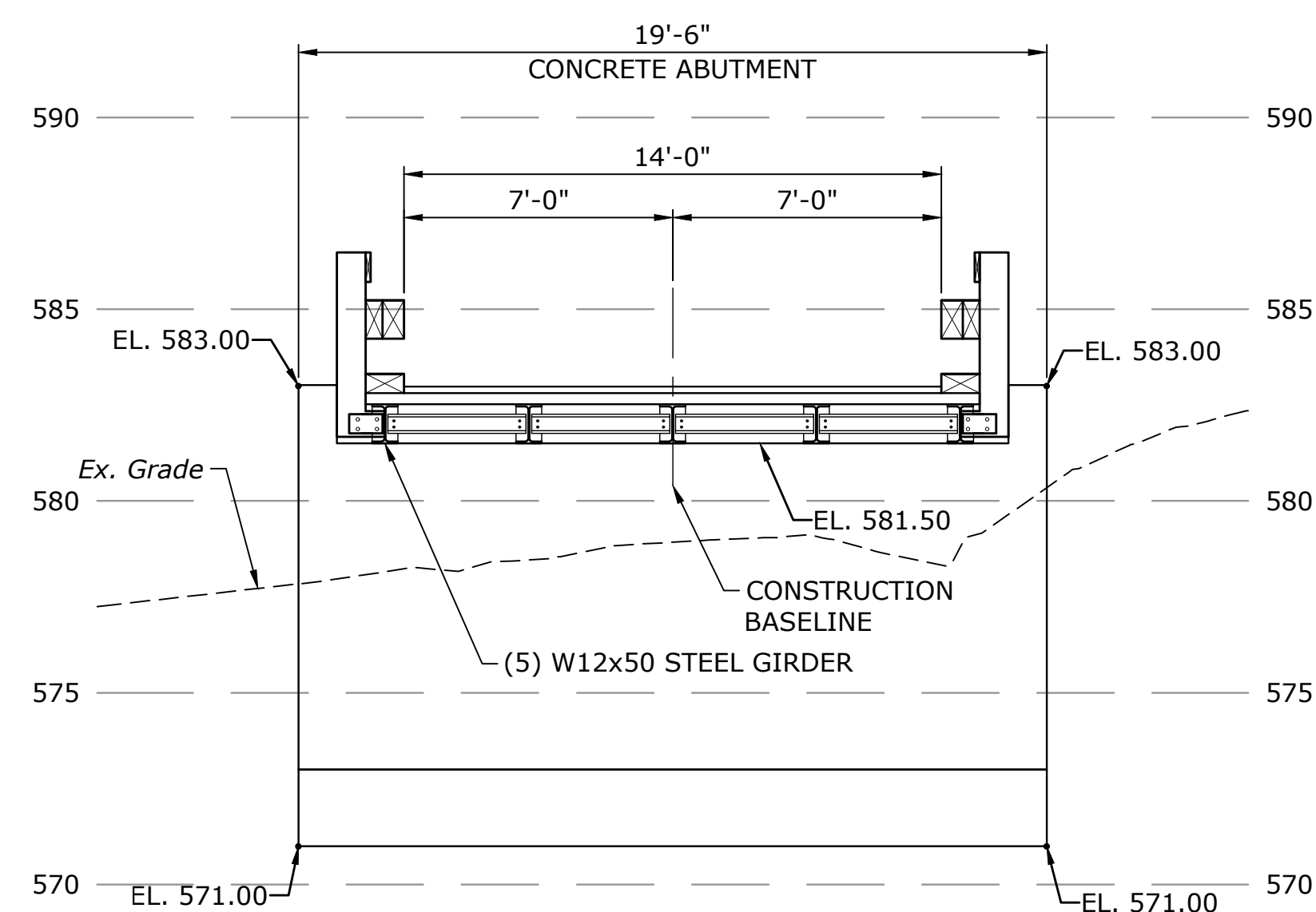
20 OF 31

STR-1

SHEET NAME

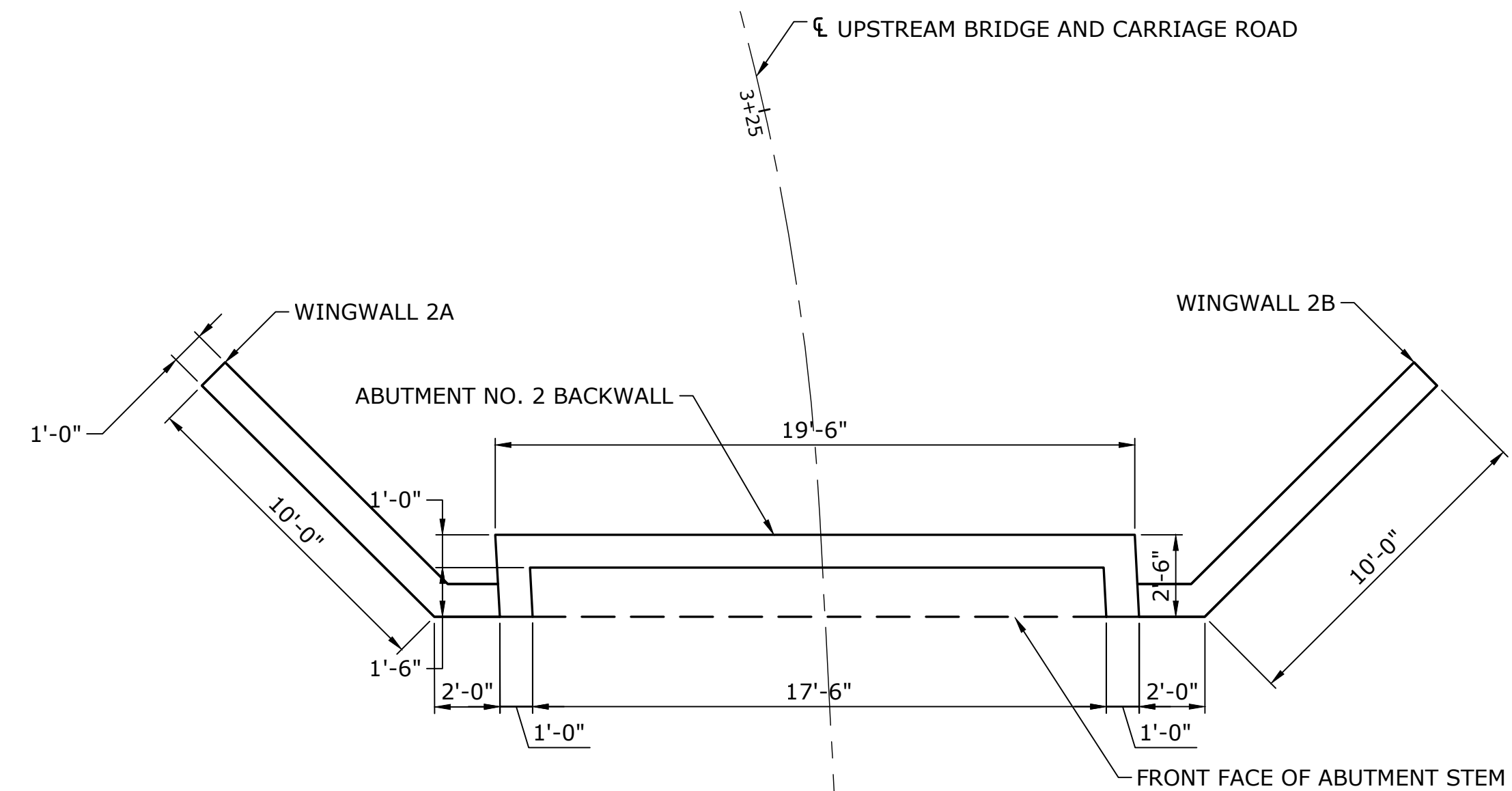


ABUTMENT NO. 1 PLAN
SCALE: $\frac{1}{2} = 1'-0''$

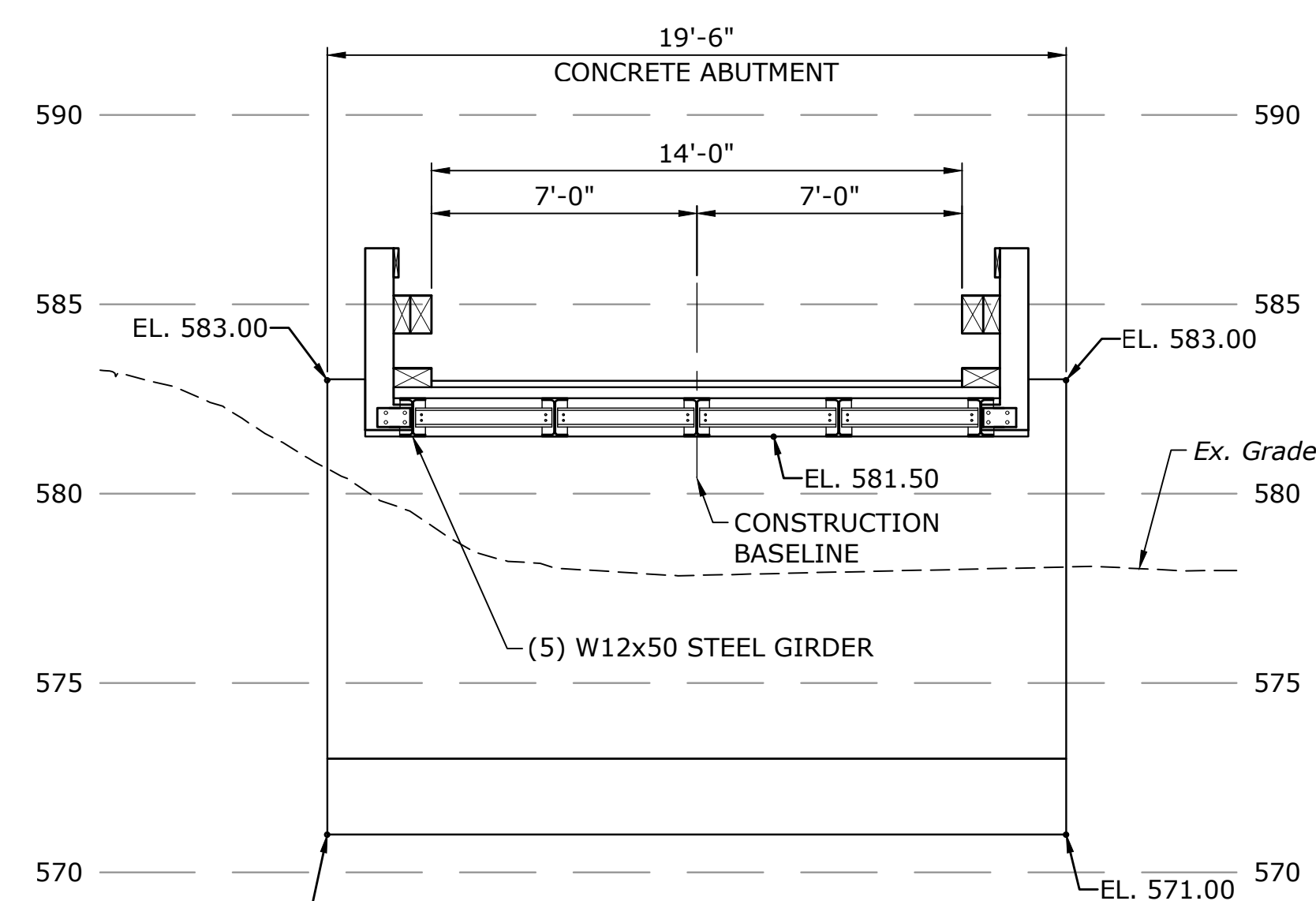


ABUTMENT NO. 1 ELEVATION

SCALE: $\frac{1}{2}$ " = 1'-0"

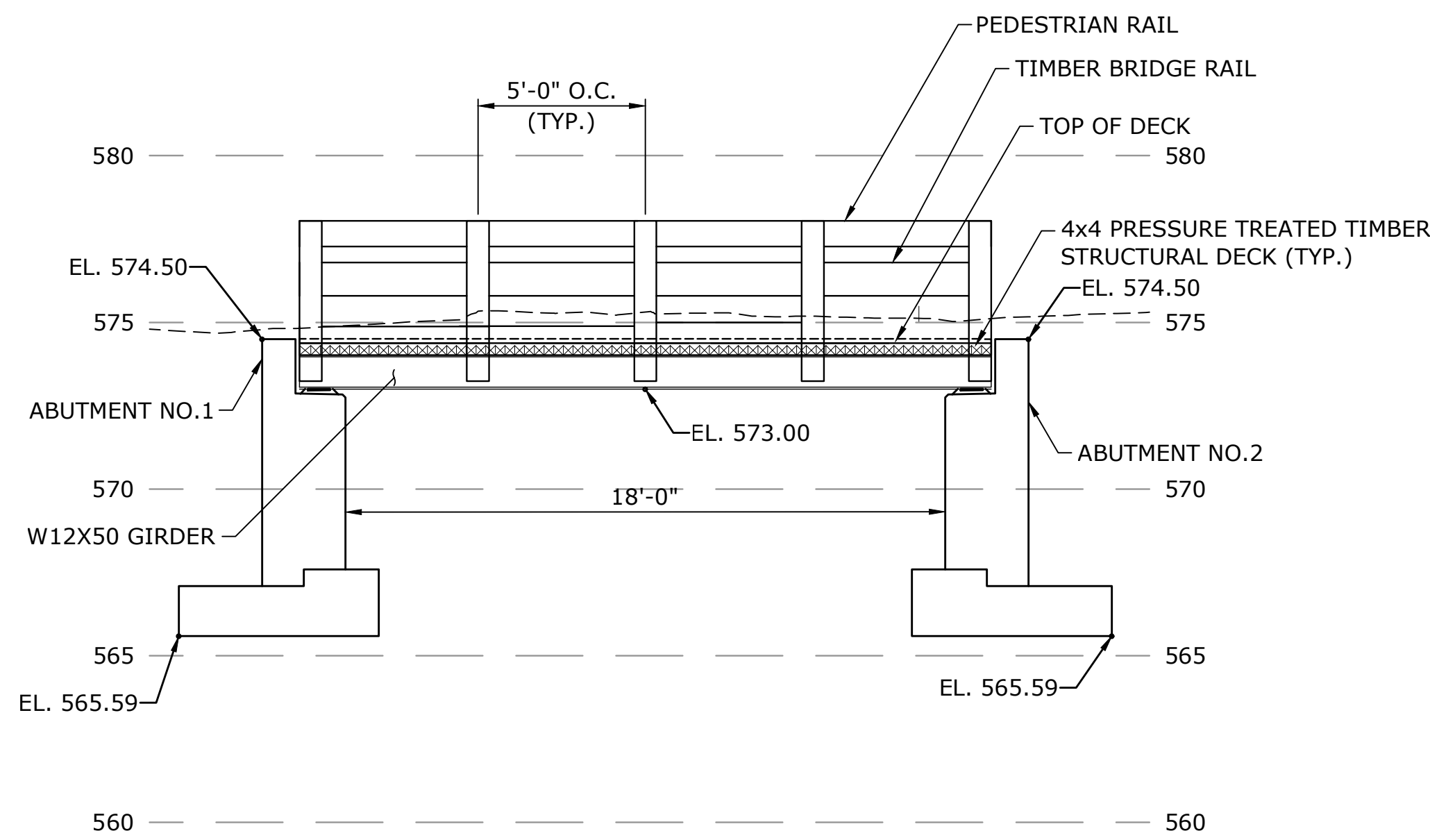


ABUTMENT NO. 2 PLAN
SCALE: $\frac{1}{2}'' = 1'-0''$

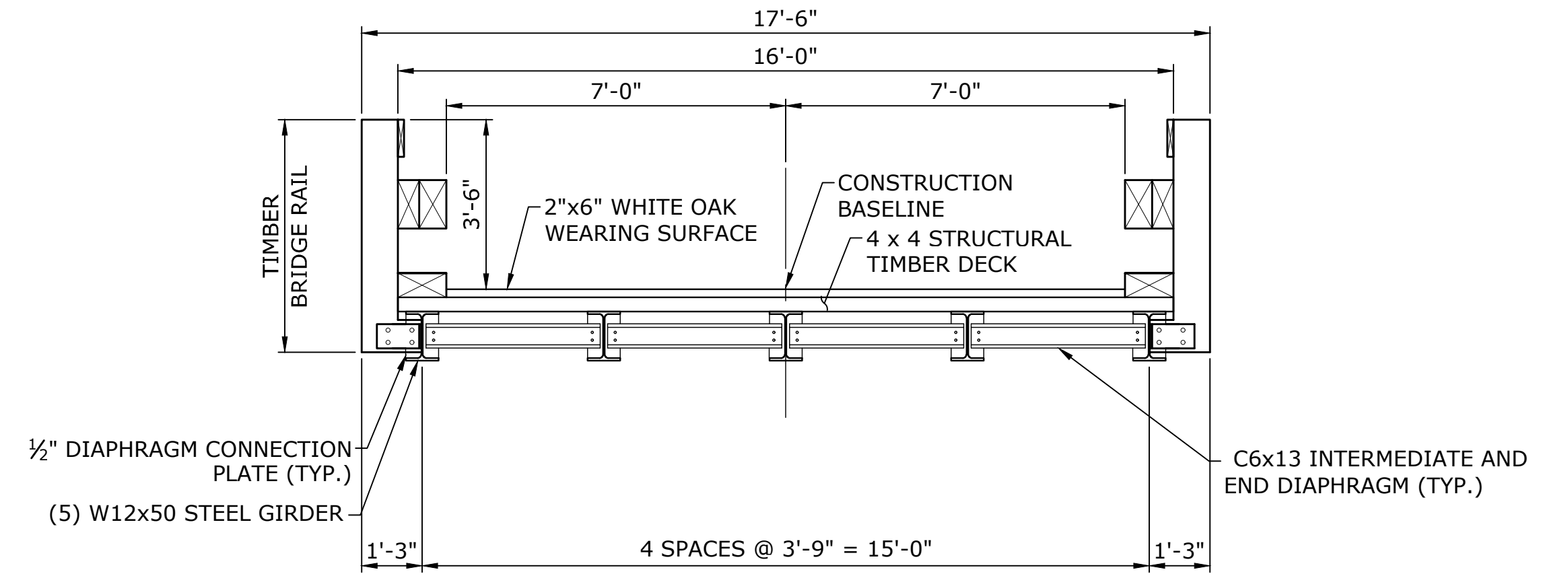


ABUTMENT NO. 2 ELEVATION
SCALE: $\frac{1}{2}$ " = 1'-0"

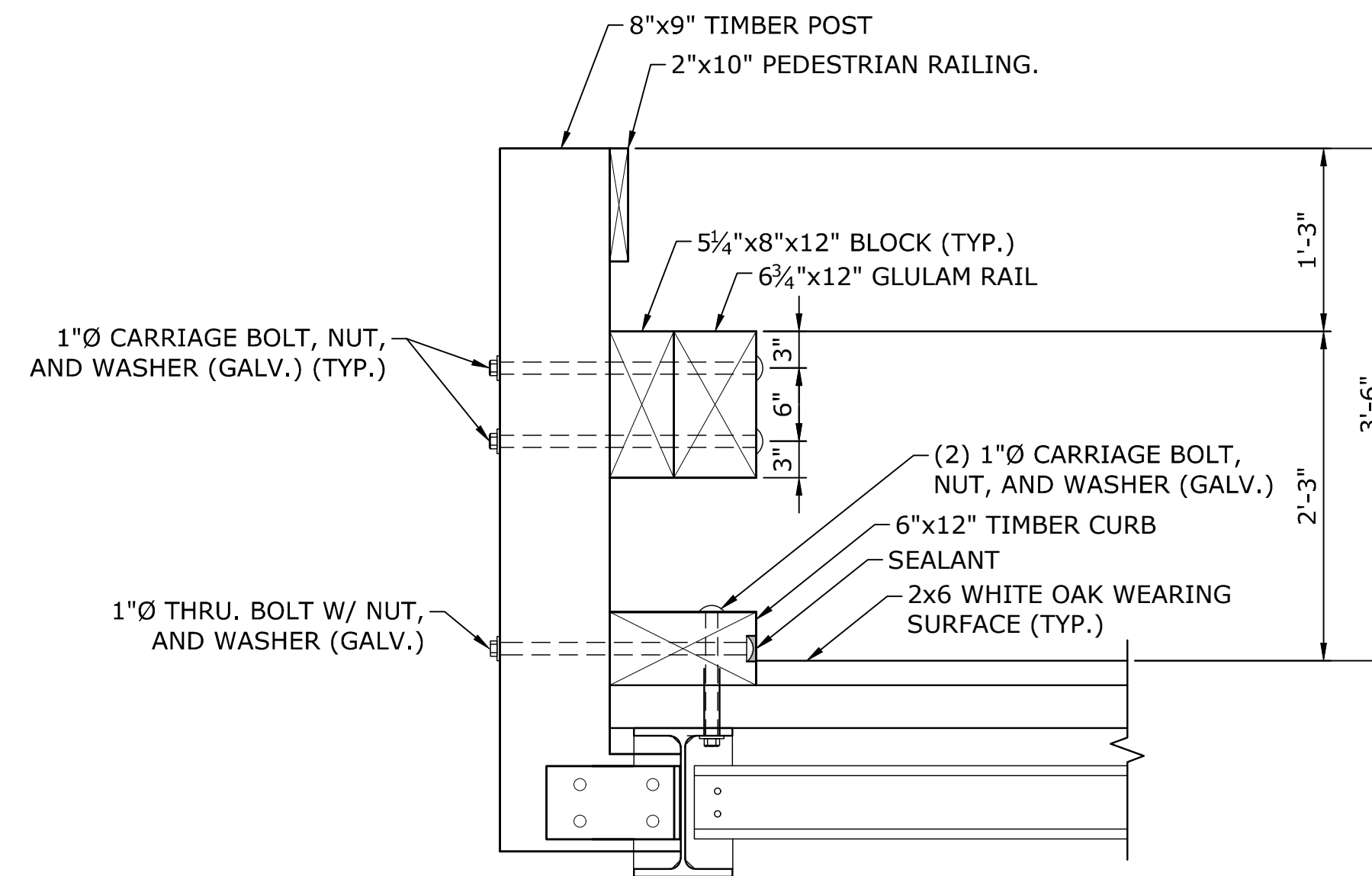
UPSTREAM BRIDGE ABUTMENT PLAN AND ELEVATION		60% ADVANCED DESIGN NOT FOR CONSTRUCTION	
ECOLOGICAL RESTORATION OF THE KLEINE KILL		LENAPE LANE NEW PALTZ, NY	
KP DESIGNED	JG DRAWN	KP CHECKED	
AS NOTED			
SCALE			
JUNE 12, 2026			
DATE			
20261.00002			
PROJECT NO.			
21 OF 31			
SHEET NO.			
STR-2			
SHEET NAME			



DOWNSTREAM BRIDGE ELEVATION
SCALE: $\frac{1}{4}" = 1'-0"$



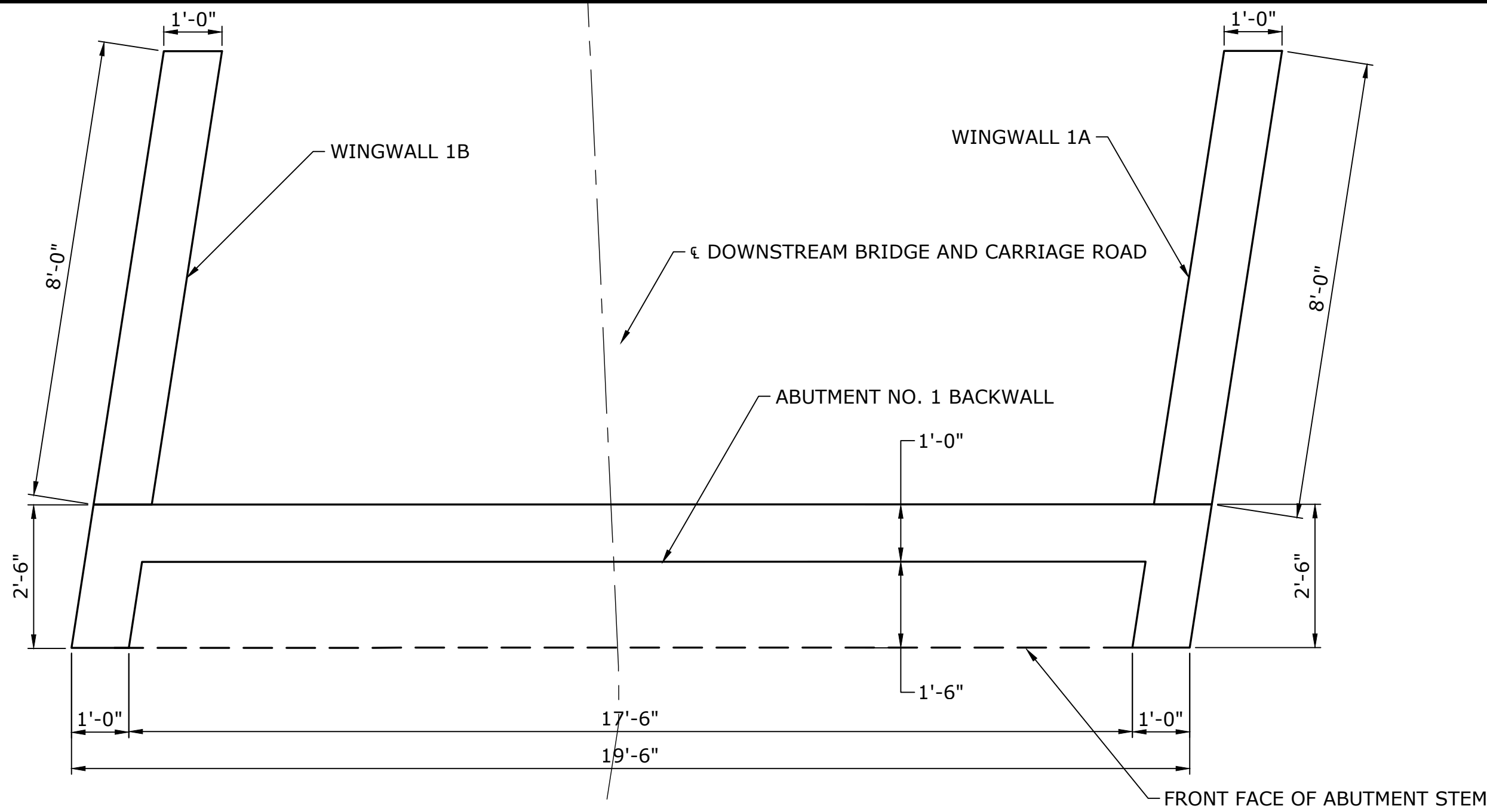
BRIDGE SECTION
SCALE: $\frac{3}{8}" = 1'-0"$



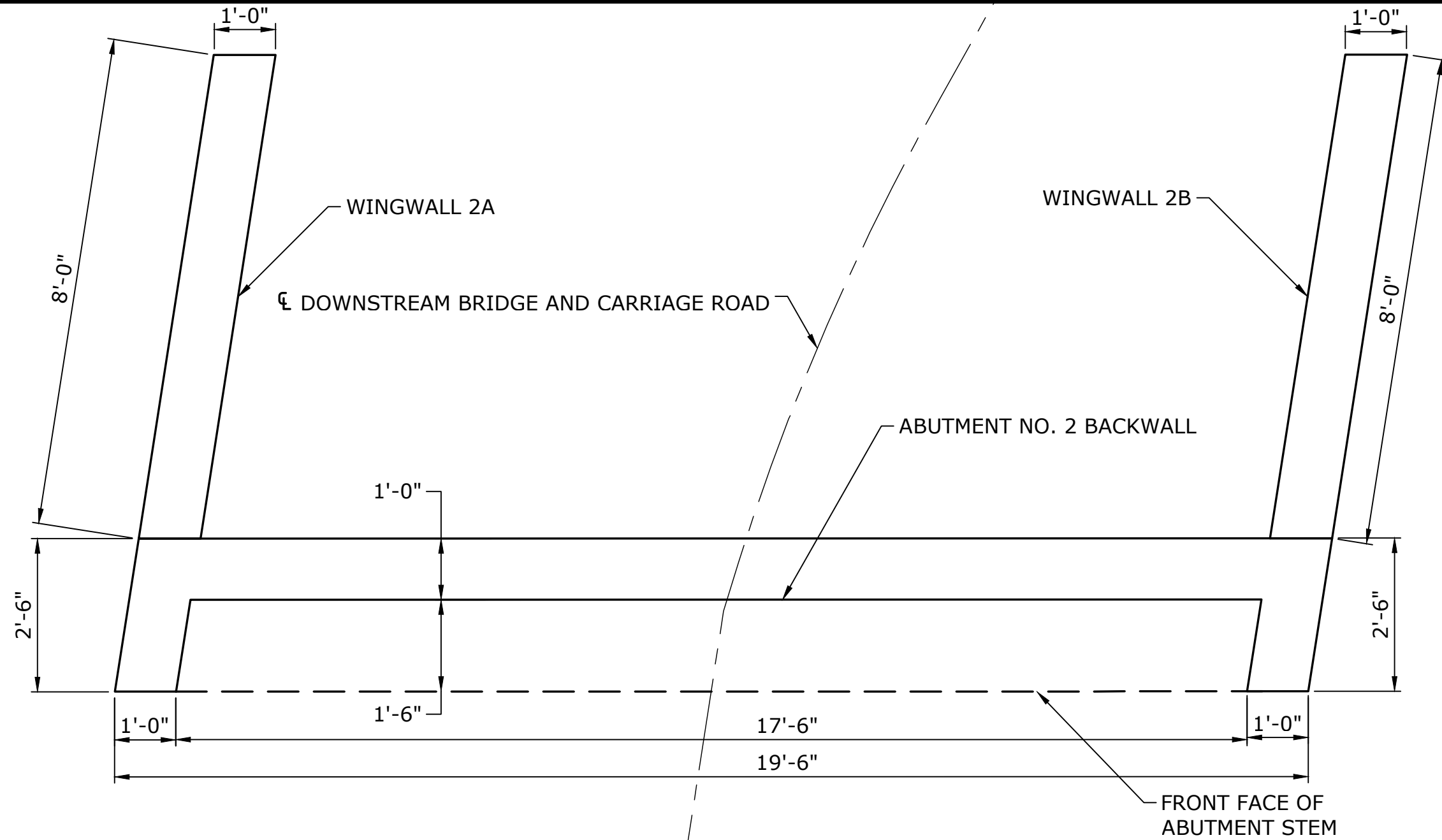
TIMBER BRIDGE RAIL DETAIL
SCALE: 1"=1'-0"

[illegible]

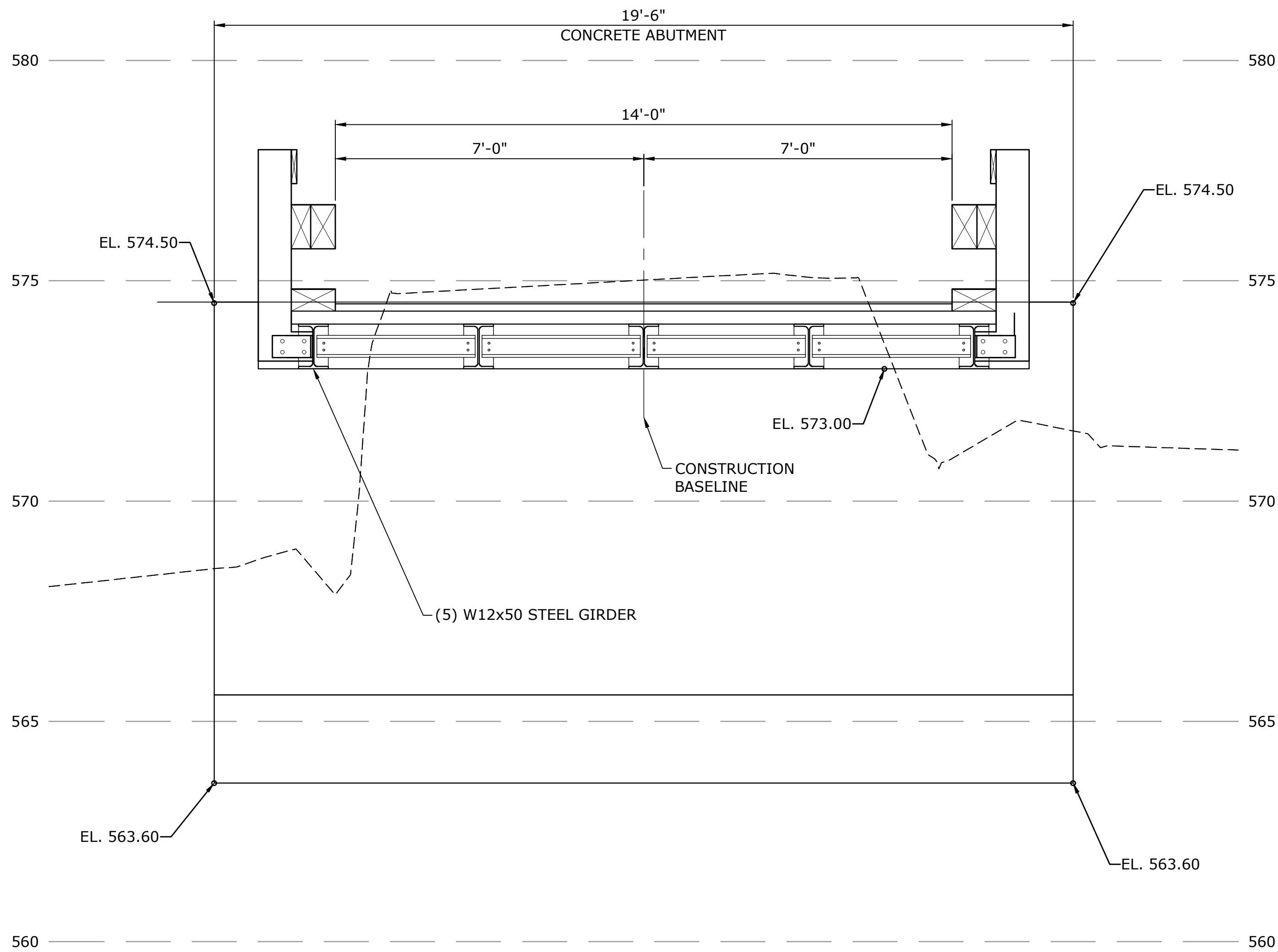
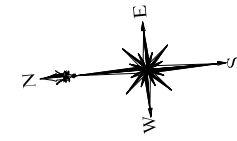
PROJECT: 2026 ECOL. RESTORATION OF THE KLEINE KILL
SHEET: 23 OF 31
DATE: JUNE 12, 2026
SCALE: 1/2" = 1'-0"



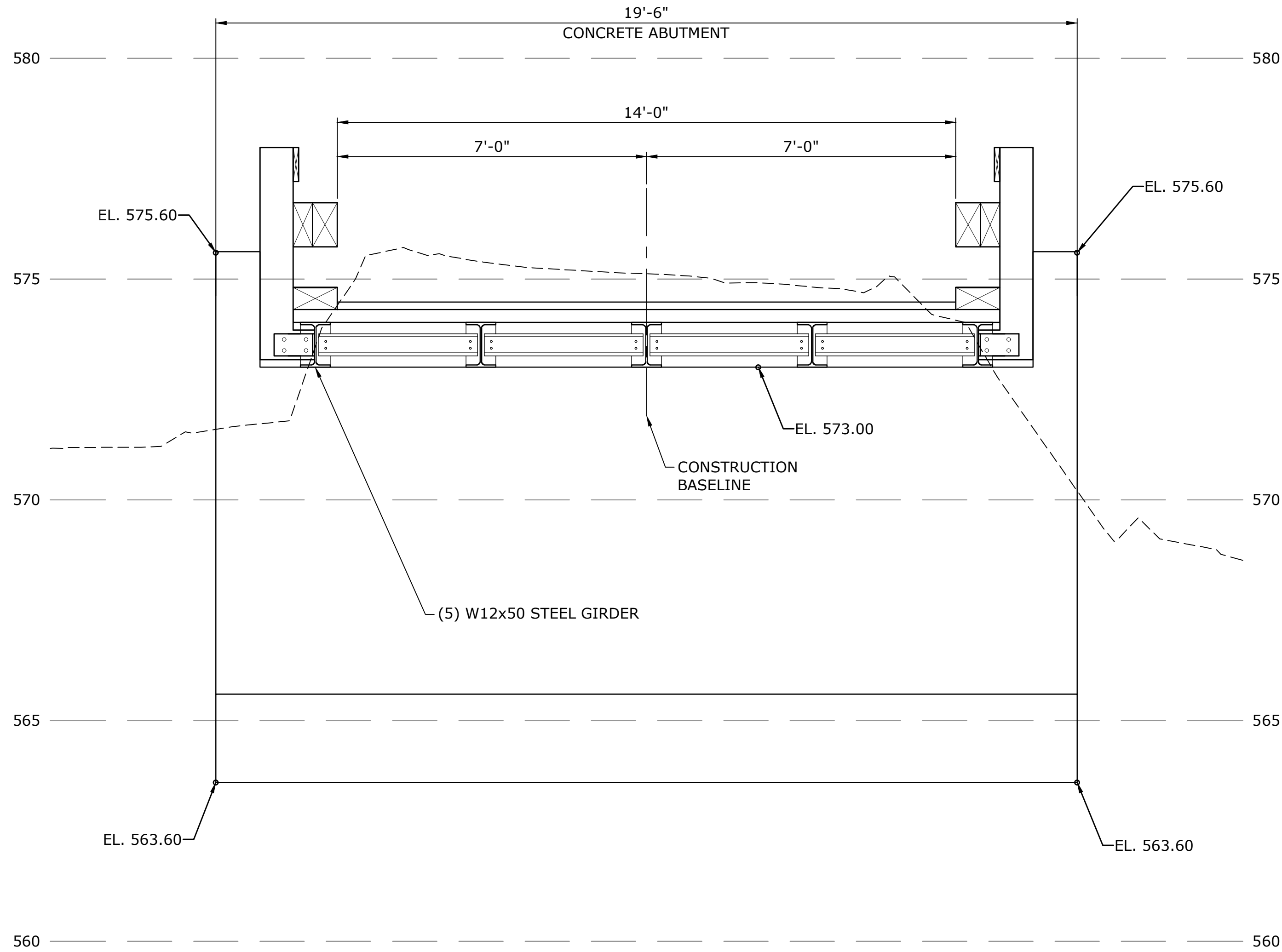
ABUTMENT NO. 1 PLAN
SCALE: 1/2" = 1'-0"



ABUTMENT NO. 2 PLAN
SCALE: 1/2" = 1'-0"

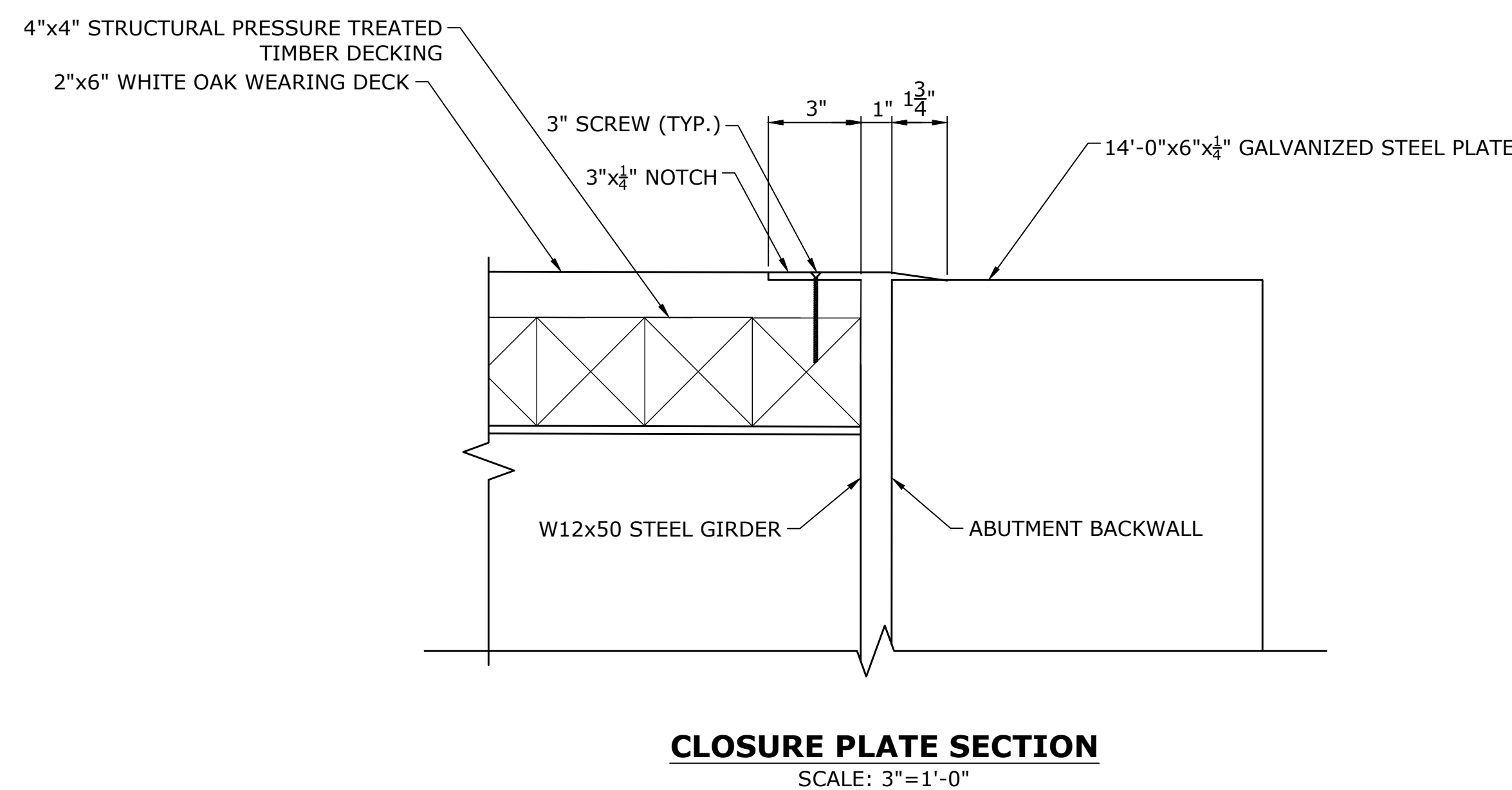
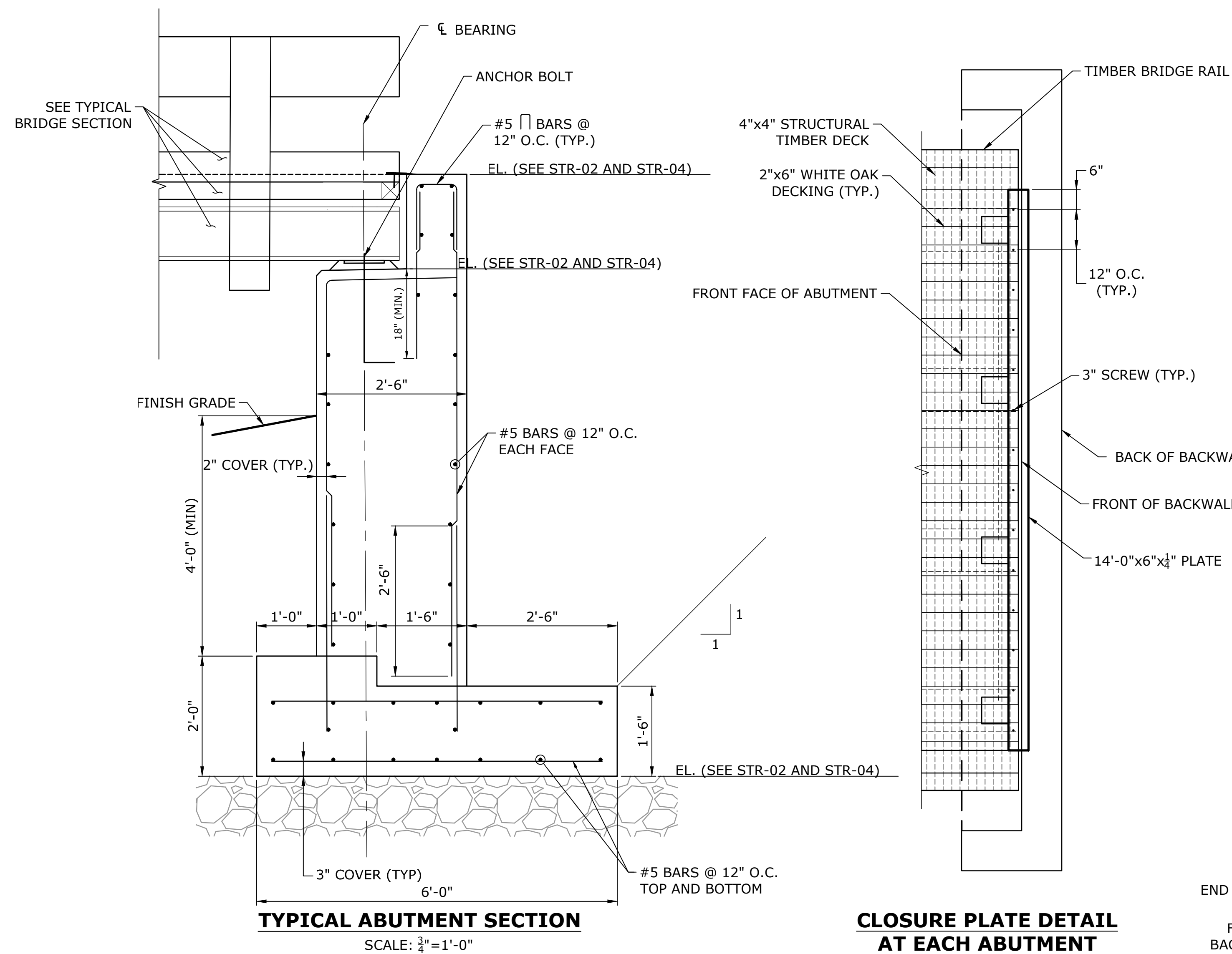


ABUTMENT NO. 1 ELEVATION
SCALE: 1/2" = 1'-0"

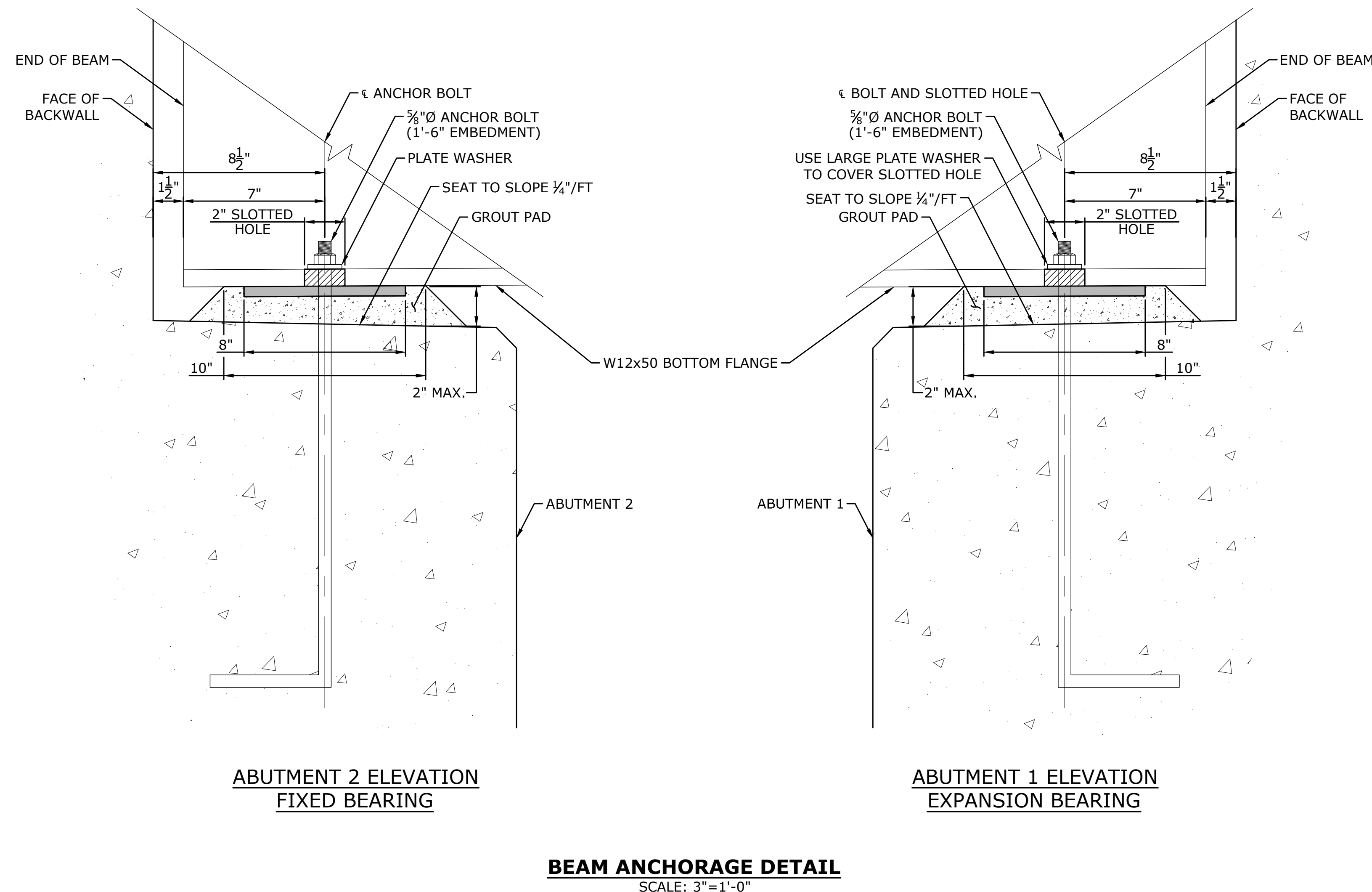
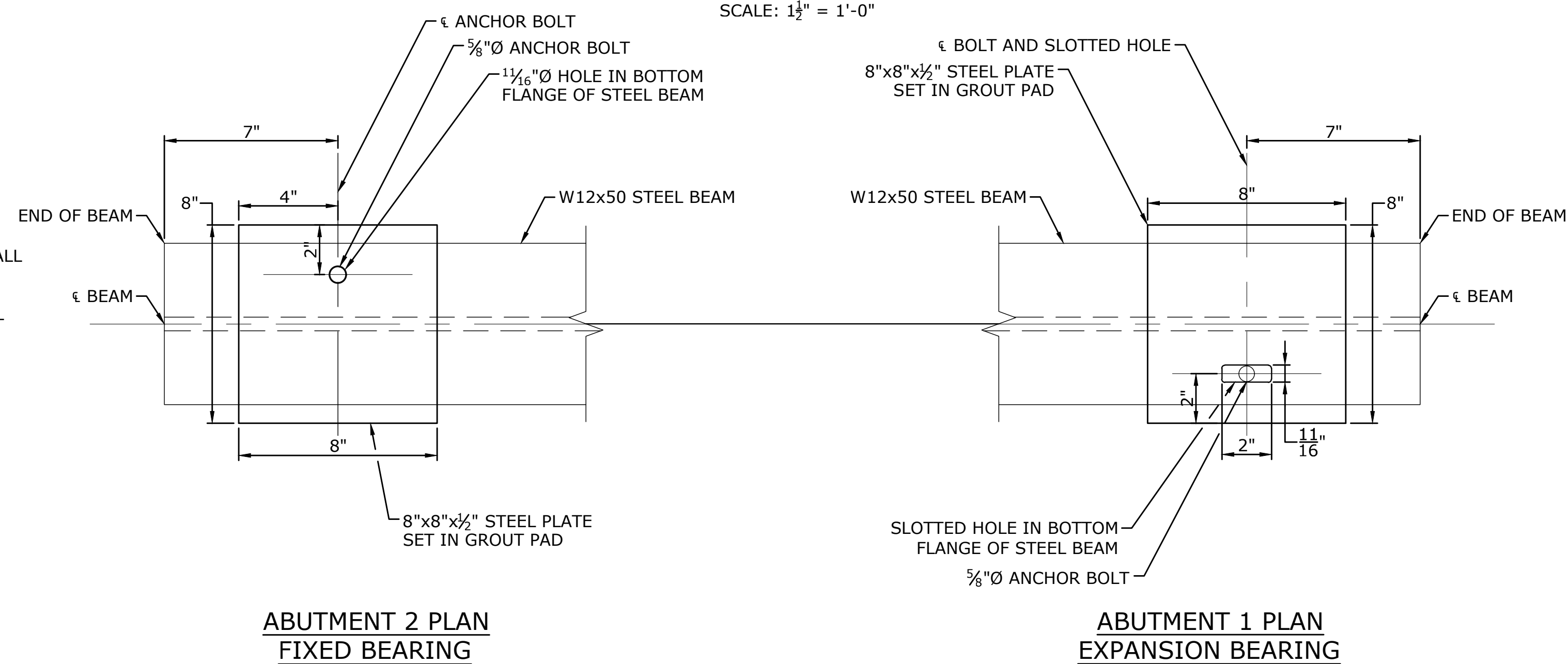
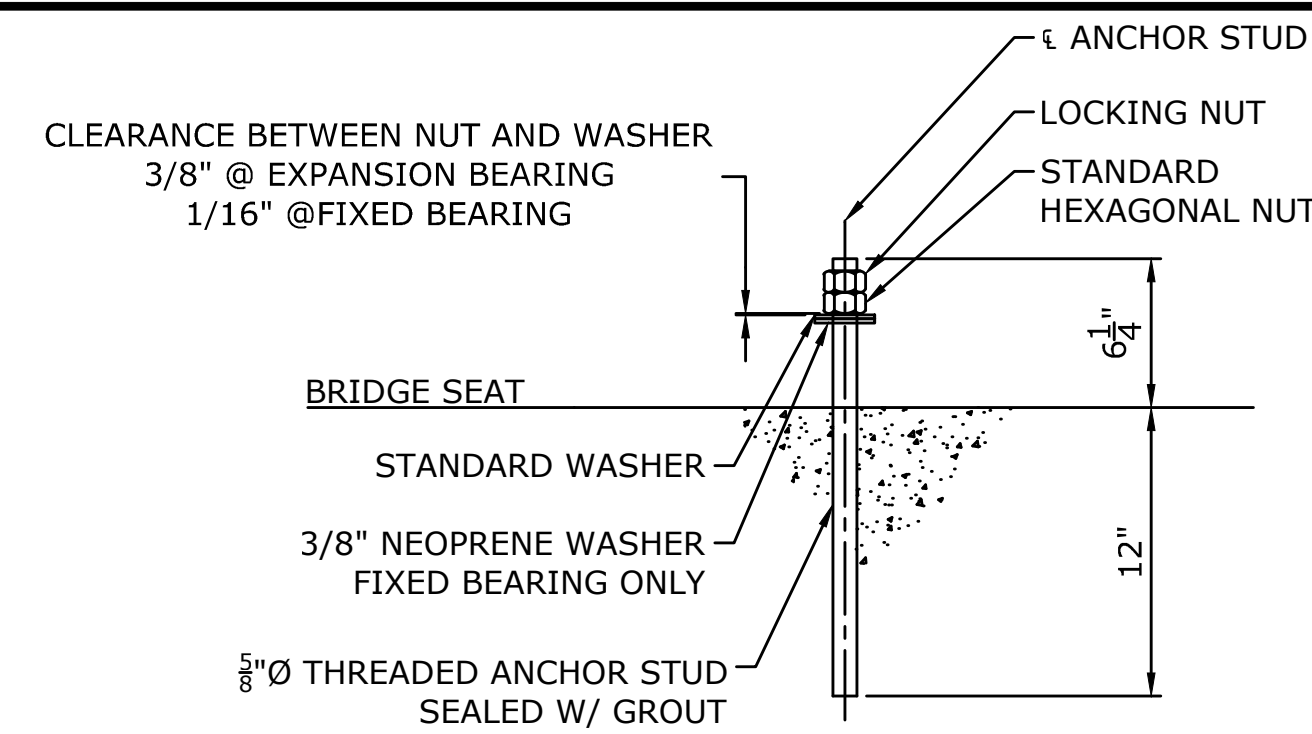


ABUTMENT NO. 2 ELEVATION
SCALE: 1/2" = 1'-0"

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DESCRIPTION	DATE	BY
DOWNSTREAM BRIDGE ABUTMENT PLAN AND ELEVATION		
ECOLOGICAL RESTORATION OF THE KLEINE KILL		
LENAPE LANE NEW PALTZ, NY		
KP	JG	KP
DESIGNED	DRAWN	CHECKED
AS NOTED		
JUNE 12, 2026		
DATE		
20261.00002		
PROJECT NO.		
23 OF 31		
SHEET NO.		
STR-4		
SHEET NAME		



NOTES
CONTRACTOR SHALL BEVEL ABUTMENT SIDE OF PLATE.

[illegible]

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION

STRUCTURAL DETAILS

**ECOLOGICAL RESTORATION
OF THE KLEINE KILL**

LENAPE LANE
NEW BAI T7 NY

KP DESIGNED	JG DRAWN	KI CHECKED
AS NOTED		
SCALE		
JUNE 12, 2026		
DATE		
20261.00002		
PROJECT NO.		
24 OF 31		
SHEET NO.		

STR-5

SHEET NAME

PROJECT: MOHONK PRESERVE INC. MTN REST RD
PID: 85.2-1-5
DATE: 12/12/2026
SHEET: 26 OF 31
PROJECT NO: 20261.00002

CONSTRUCTION SEQUENCE

1. PRIOR TO COMMENCEMENT OF WORK A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE ENGINEER, REPRESENTATIVES OF THE OWNER, AND CONTRACTOR. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
2. THE PROPOSED CONSTRUCTION SEQUENCE IS PROVIDED AS A RECOMMENDED APPROACH. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED CONSTRUCTION SEQUENCE AND WATER CONTROL PLAN TO THE OWNER OR PROJECT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
3. CHANGES TO THE CONSTRUCTION SEQUENCE, WATER CONTROL PLAN, AND EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE NOTIFICATION AND APPROVAL BY NYSDEC PRIOR TO IMPLEMENTATION.
4. PERFORM NECESSARY SITE CLEARING AND ESTABLISH CONSTRUCTION ENTRANCE OFF OF LENAPE LANE WITH APPROPRIATE SIGNAGE (SEE CP-2).

PHASE I

1. INSTALL SEDIMENT & EROSION CONTROLS FOR PHASE I OF WORK (SEE EROSION AND SEDIMENT CONTROL NOTES ON CP-2).
2. CLOSE PROJECT AREA FOR PHASE I OF WORK USING CONSTRUCTION FENCING AND GATE AS SHOWN.
3. INSTALL TEMPORARY WATER CONTROLS AT THE DOWNSTREAM BRIDGE, INCLUDING COFFERDAMS, FLOW DIVERSION PIPE, AND TEMPORARY PUMP (SEE WATER CONTROL NOTES ON CP-2).
4. EXCAVATE & REMOVE EXISTING BRIDGE AND WEIR STRUCTURE.
5. INSTALL DOWNSTREAM BRIDGE AND WINGWALL SECTIONS (SEE STR-3, STR-4).
6. INSTALL BOULDER TOE WITH LIVE STAKES AND RIB RIFFLE GRADE CONTROL STRUCTURES. PERFORM CHANNEL GRADING (SEE DE-2,DE-3, AND GR-2).
7. BACKFILL AND PERFORM FINAL GRADING (SEE GR-2).
8. INSTALL EROSION CONTROL BLANKETS PARALLEL TO FLOW ALONG DISTURBED STREAM BANKS WHEREVER NECESSARY (SEE EROSION AND SEDIMENT CONTROL NOTES).
9. RESTORE DISTURBED AREA PER RESTORATION PLAN (SEE RS-1).
10. RESTORE CARRIAGE ROAD AND INSTALL GUIDE RAILINGS (SEE N-1).
11. REMOVE PHASE I WATER CONTROLS.

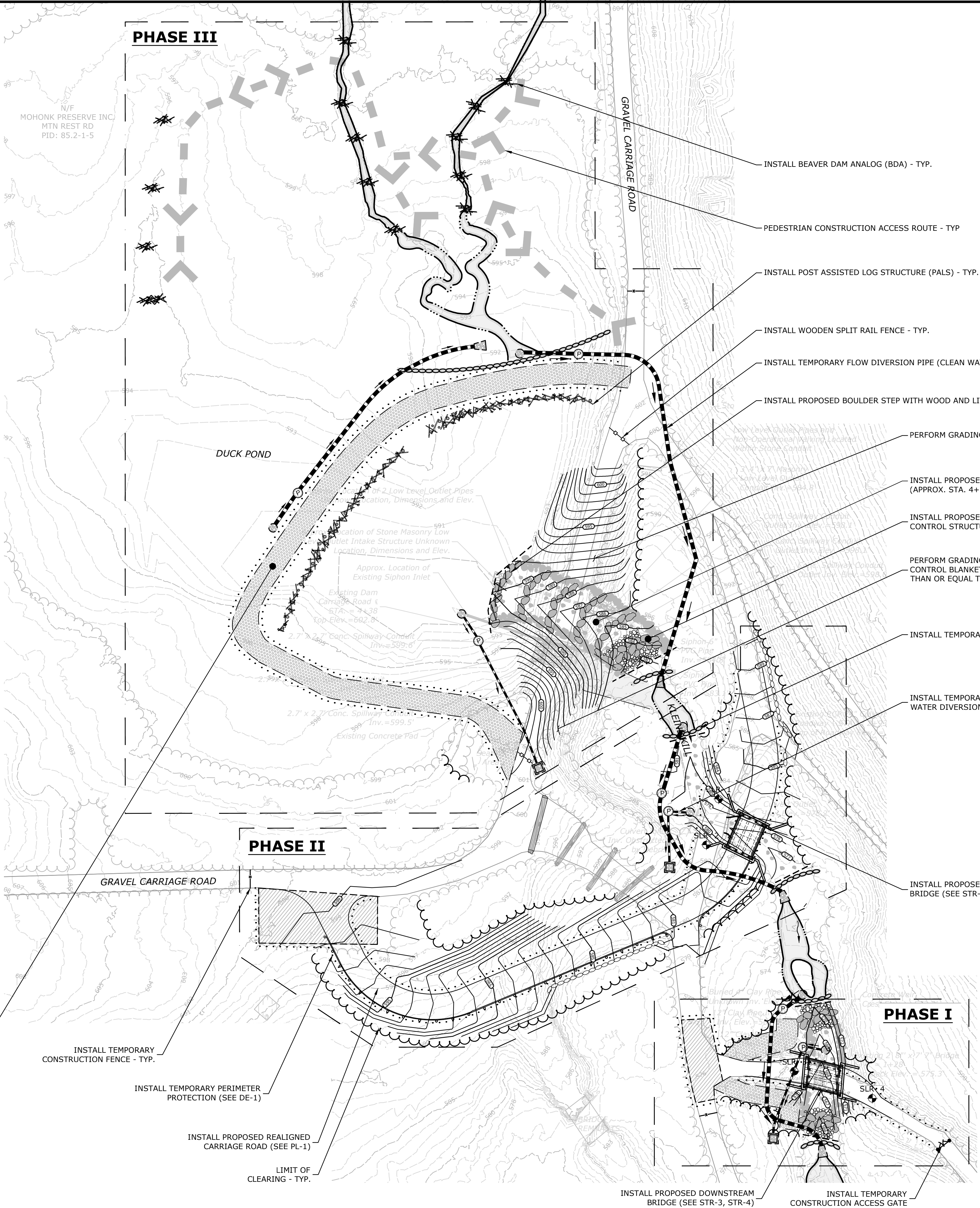
PHASE II

1. INSTALL SEDIMENT & EROSION CONTROLS FOR PHASE II OF WORK (SEE EROSION AND SEDIMENT CONTROL NOTES ON CP-2).
2. CLOSE PROJECT AREA FOR PHASE II OF WORK USING CONSTRUCTION FENCING AND GATE AS SHOWN.
3. INSTALL TEMPORARY WATER CONTROLS AT THE UPSTREAM CULVERT, INCLUDING COFFERDAMS, FLOW DIVERSION PIPE, AND TEMPORARY PUMP (SEE WATER CONTROL NOTES ON CP-2).
4. EXCAVATE & REMOVE EXISTING STRUCTURE AND CARRIAGE ROAD AS SHOWN ON GR-2.
5. INSTALL UPSTREAM BRIDGE AND WINGWALL SECTIONS (SEE STR-1, STR-2).
6. CONSTRUCT PROPOSED CARRIAGE ROAD (SEE N-1).
7. PERFORM PROPOSED GRADING AND RESTORE CHANNEL (SEE GR-2, PRO-1, DE-3).
8. INSTALL EROSION CONTROL BLANKETS PARALLEL TO FLOW ALONG DISTURBED STREAM BANKS WHEREVER NECESSARY (SEE EROSION AND SEDIMENT CONTROL NOTES).
9. RESTORE DISTURBED AREA PER RESTORATION PLAN (SEE RS-1).
10. INSTALL GUIDE RAILINGS.
11. REMOVE PHASE II WATER CONTROLS.
12. INSTALL LOG BARRIER AND LOG PLANTING TERRACES (SEE RS-1).

PHASE III

8. INSTALL SEDIMENT & EROSION CONTROLS FOR PHASE III OF WORK (SEE EROSION AND SEDIMENT CONTROL NOTES ON CP-2).
9. CLOSE PROJECT AREA FOR PHASE III OF WORK USING CONSTRUCTION FENCING AND GATE AS SHOWN.
10. INSTALL TEMPORARY WATER CONTROLS, INCLUDING COFFERDAMS, FLOW DIVERSION PIPE, AND TEMPORARY PUMP (SEE WATER CONTROL NOTES ON CP-2).
11. EXCAVATE & REMOVE EXISTING DAM, LOW LEVEL OUTLET PIPES, MASONRY LOW LEVEL OUTLET CONDUIT, AND SIPHONS TO 6" BELOW PROPOSED GRADING (SEE GR-1, RE-1, CS-1, CS-2).
12. INSTALL PROPOSED CHANNEL BOULDER STRUCTURES AND PERFORM CHANNEL GRADING.
13. BACKFILL AND PERFORM FINAL GRADING.
14. INSTALL PROPOSED POST ASSISTED LOG STRUCTURES (SEE DE-2).
15. INSTALL EROSION CONTROL BLANKETS PARALLEL TO FLOW ALONG DISTURBED STREAM BANKS WHEREVER NECESSARY (SEE EROSION AND SEDIMENT CONTROL NOTES).
16. REMOVE WATER CONTROLS.
17. INSTALL WOODEN SPLIT RAIL FENCES (SEE LA-1).
18. INSTALL BEAVER DAM ANALOGS.
19. RESTORE DISTURBED AREA PER RESTORATION PLAN (SEE RS-1).
20. REMOVE SEDIMENT AND EROSION CONTROLS.
21. REMOVE TEMPORARY TRAFFIC CONTROLS.

CONTRACTOR SHOULD BE AWARE THAT ACCESS IS WITHIN A FORMER POND WITH HIGH GROUNDWATER AND SOFT SOIL CONDITIONS. THE CONTRACTOR SHOULD PLAN EQUIPMENT AND CONSTRUCTION ACCESS BASED UPON THESE CHALLENGING CONDITIONS UTILIZING SMALLER, LIGHTER, LOW GROUND PRESSURE EQUIPMENT AND/OR CRANE MATS OR OTHER SUITABLE MEANS AND METHODS TO PERFORM THE WORK.



LEGEND

- PROPOSED WATERCOURSE EDGE DURING CONSTRUCTION
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- TEMPORARY INTAKE SUMP
- TEMPORARY SETTLING BASIN
- TEMPORARY PUMP
- TEMPORARY OUTLET PROTECTION
- TEMPORARY TURBID WATER DIVERSION PIPE
- TEMPORARY FLOW DIVERSION PIPE (CLEAN WATER BYPASS)
- TEMPORARY COFFERDAM
- EXISTING WATERCOURSE
- TEMPORARY CONSTRUCTION ACCESS GATE
- TEMPORARY CONSTRUCTION FENCE
- TEMPORARY PERIMETER PROTECTION (SILT FENCE/ STRAW BALE)
- TEMPORARY STOCKPILE/STAGING AREA
- TEMPORARY CONSTRUCTION ACCESS ROAD
- LIMIT OF DISTURBANCE
- PEDESTRIAN CONSTRUCTION ACCESS ROUTE
- LIMIT OF CLEARING
- CONSTRUCTION PHASING

SLR

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Registration No. 083112

DESCRIPTION	DATE	BY

CONSTRUCTION SEQUENCE

ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

MET	KJC	MC
DESIGNED	DRAWN	CHECKED

1"=30'

JUNE 12, 2026

DATE

20261.00002

PROJECT NO.

26 OF 31

SHEET NO.

CP-1

SHEET NAME

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CONSTRUCTION VEHICLES AND EQUIPMENT

- VEHICLES BELONGING TO THE CONTRACTOR OR THE WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC WITHIN THE CONTRACT LIMITS, EXCEPT WHERE PARKING IS PERMITTED.
- THE CONTRACTOR SHALL NOT PARK EQUIPMENT OVERNIGHT WHERE IT IS DEEMED A SAFETY HAZARD TO TRAFFIC OR WHERE IT MAY INHIBIT SAFE PEDESTRIAN MOBILITY.
- THE CONTRACTOR SHALL PLAN AND INCORPORATE ACCESS POINTS INTO THE WORK ZONE SUCH THAT, TO THE EXTENT PRACTICAL, THE CONTRACTOR'S VEHICLES ENTERING AND LEAVING THE WORK SHALL NOT IMPEDE THE MOVEMENT OF THROUGH TRAFFIC.
- ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- THE ACCESS ROAD GATES SHOULD BE CLOSED WHEN THE CONTRACTOR IS NOT CONDUCTING WORK.

MAINTENANCE AND PROTECTION OF TRAFFIC

- MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 - WORK ZONE TRAFFIC CONTROL OF THE NYSDOT STANDARD SPECIFICATIONS, THE NEW YORK MANUAL OF UNIFORM TRAFFIC DEVICES AND ANY PROVISIONS CONTAINED IN THIS CONTRACT.
- PRIOR TO START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL SHALL BE COMPLETE, THIS INCLUDES BUT IS NOT LIMITED TO ALL SIGNS, SIGNALS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, TEMPORARY BYPASS ROAD, AND ANY OTHER RELATED WORK.
- THE TRAFFIC CONTROL PLANS SHOWN ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS DETERMINED BY THE PROJECT OWNER. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 619.0101 "BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS)". IF AT ANY TIME THE PROJECT OWNER DETERMINES THAT TRAFFIC IS NOT BEING PROPERLY MAINTAINED WITHIN A WORK ZONE OR WORKER SAFETY IS NOT PROPERLY ADDRESSED, THE CONTRACTOR SHALL IMMEDIATELY CORRECT THIS DEFICIENCY.
- TO PROTECT SENSITIVE SPECIES OF VEGETATION, ALL WORK AND CONSTRUCTION EQUIPMENT SHALL REMAIN WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON CP-1.
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF A PROJECT OWNERS REPRESENTATIVE PRIOR TO THE EXECUTION OF WORK. THE PROJECT OWNER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.
- ALL CONSTRUCTION SIGNS SHALL BE MOUNTED ON BREAKAWAY POSTS.
- EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED AS DIRECTED BY THE REPRESENTATIVE OF THE PROJECT OWNER.
- ALL ELEMENTS OF THE ROAD CLOSURE (INCLUDING BUT NOT LIMITED TO TEMPORARY CONSTRUCTION FENCING, TEMPORARY CONSTRUCTION GATE, AND SIGNAGE) SHALL CONFORM TO NYSDOT SPECIFICATIONS AND STANDARD SHEETS.
- THE COST ASSOCIATED WITH THE DESIGN, CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE TEMPORARY TRAFFIC DIVERSION CONTROLS AND ROADWAY SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.0101 "BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS)".

STOCKPILING NOTES:

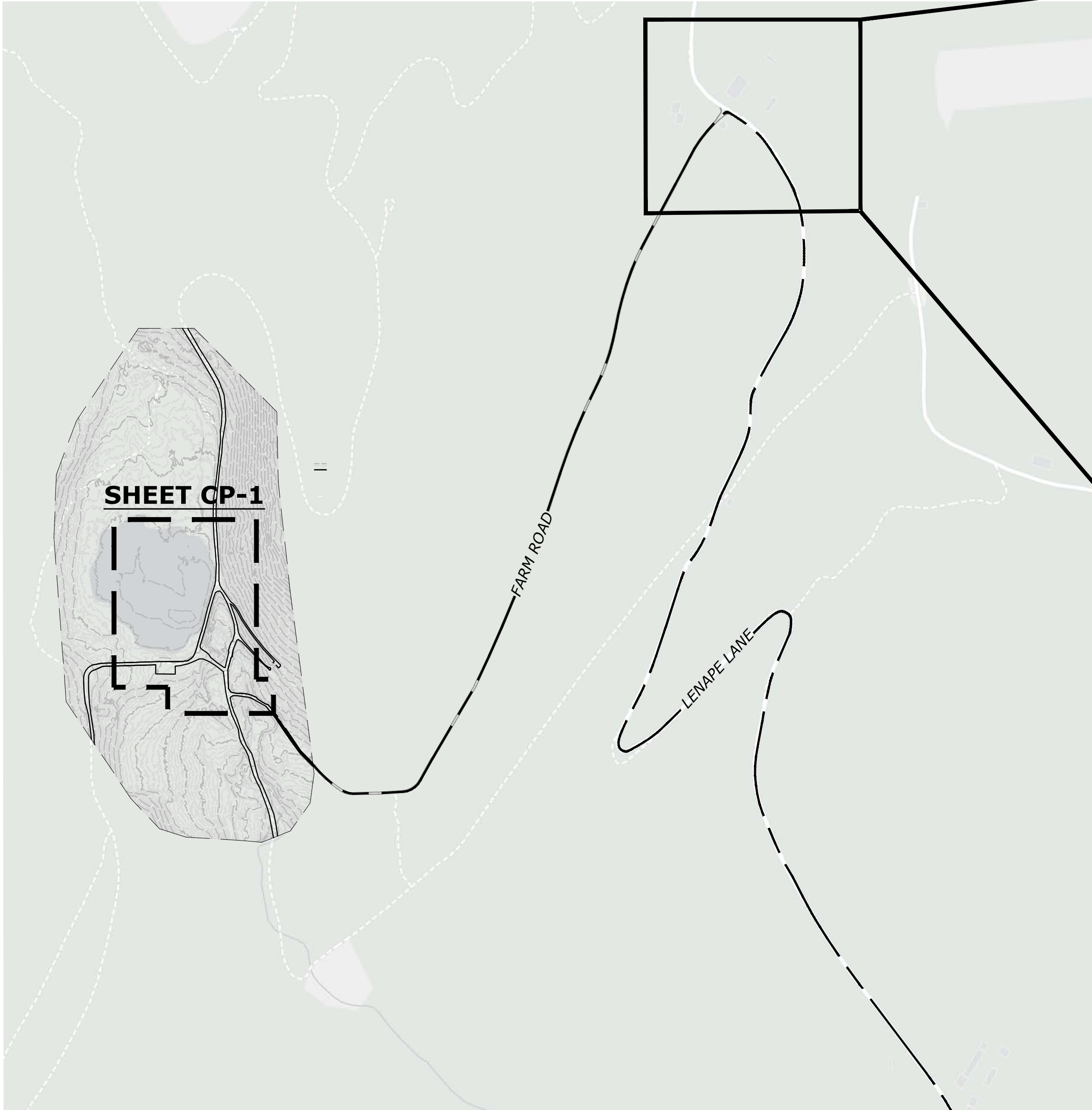
- TEMPORARY STOCKPILE AND STAGING AREAS TO BE FLAGGED BY CONTRACTOR PRIOR TO CONSTRUCTION AND APPROVED BY TOWN, LANDOWNERS AND PROJECT OWNER.
- NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES. AN EMERGENCY MANAGEMENT PLAN AND SPILL KIT WILL BE MAINTAINED ON SITE AT ALL TIMES. IN THE EVENT OF AN ACCIDENTAL RELEASE, IMMEDIATELY STOP CONSTRUCTION WORK, CONTAIN THE SPILL, AND NOTIFY THE TOWN AND APPROPRIATE AUTHORITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD AND CONSTRUCTION DEBRIS. CONSTRUCTION ENTRANCES MUST BE MAINTAINED AT EACH RIVER ACCESS POINT. SEE PLANS AND DETAILS.
- ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS, WORKING HOURS, AND LIMITS OF CLEARING SHALL BE APPROVED BY THE TOWN, LANDOWNERS AND THE PROJECT OWNER.
- FINAL LOCATION OF ALL TEMPORARY HAUL ROADS SUBJECT TO LAND-OWNER APPROVAL, AND MAY CHANGE PRIOR TO CONSTRUCTION. THE HAUL ROAD SHALL BE CONSTRUCTED WITH PROPER EROSION CONTROLS, INCLUDING SILT FENCE WHERE NECESSARY, AND A CONSTRUCTION ENTRANCE PAD AT THE ENTRANCE. RESTORATION OF THE DISTURBED AREA SHALL BE COORDINATED WITH THE PROPERTY OWNER.

WATER CONTROL NOTES

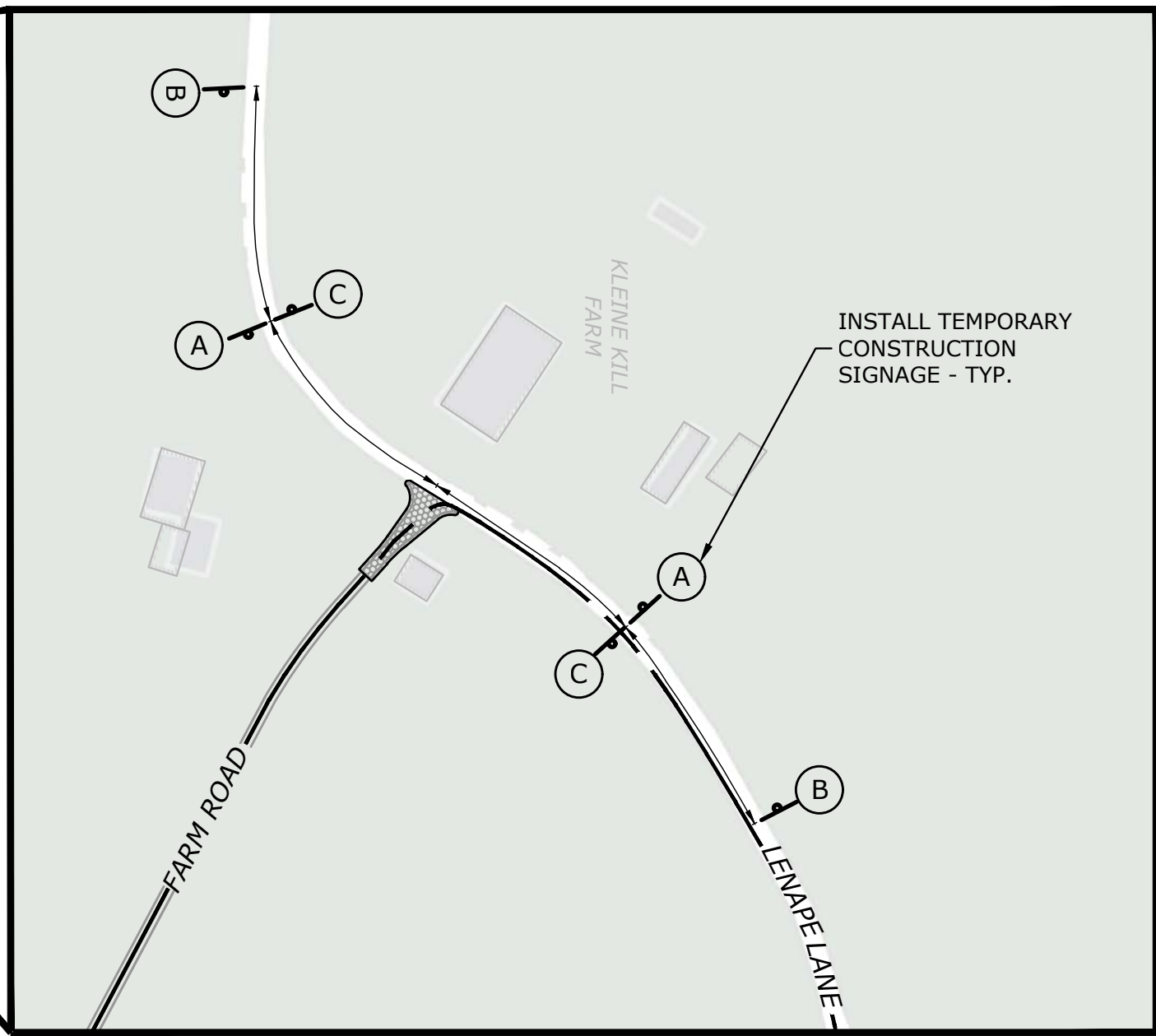
- THE PROJECT SITE IS SUBJECT TO FLOODING. CONTRACTOR SHALL MONITOR WEATHER REPORTS, AND BE PREPARED TO STOP WORK AND STABILIZE SITE IF MORE THAN ONE INCH (1") OF RAINFALL IS PREDICTED BY THE NATIONAL WEATHER SERVICE (70% CHANCE OR HIGHER). WORK SHALL BE HALTED UNTIL PRECIPITATION STOPS, AND CHANCES OF FURTHER RAINFALL FALLS BELOW 50%.
- THE WATER CONTROL MEASURES AS REPRESENTED ON THIS PLAN ARE PRESENTED AS INFORMATIONAL ONLY, AND SUBJECT TO CHANGE BASED ON SEASONAL, WEATHER, AND FIELD CONDITIONS.
- CONTRACTOR SHALL PREPARE AND SUBMIT A WATER CONTROL PLAN AND A FLOOD CONTINGENCY PLAN FOR APPROVAL BY THE NYSDEC PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR MUST MAINTAIN BYPASS FLOW RATES AT OR ABOVE THE EXISTING SIPHON CAPACITY OF 6 CUBIC FEET PER SECOND (CFS). THE ESTIMATED 90TH PERCENTILE FLOW INTO THE POND IS 2.2 CFS AND THE ESTIMATED 50% (MEDIAN) DURATION FLOW IS 0.44 CFS (USGS SIR 2014-5220).
- TEMPORARY TURBID WATER DEWATERING SUMP, PUMP AND BASIN LOCATION MAY VARY AS WELL AS THE QUANTITY NEEDED TO KEEP THE WORK AREA DRY. DEWATERING MEASURES WITHIN THE DRY WORK AREAS SHALL CONFORM TO ALL NYCDEC STANDARDS. WHEN THE SUMP IS PRODUCING CLEAN WATER, IT SHALL BE DISCHARGED TO THE CLEAN WATER BYPASS PIPING WITH THE APPROPRIATE ADAPTERS/SPLICES. WHEN THE SUMP IS PRODUCING TURBID WATER, IT SHALL BE TREATED THROUGH A TEMPORARY SETTLING BASIN OR OTHER MEANS PRIOR TO DISCHARGING. LEAKY OR FAULTY CONNECTIONS OF PIPING WILL NOT BE APPROVED FOR USE ON-SITE. SEE DETAILS FOR PUMP WATER SETTLING BASIN MAINTENANCE INTERVALS (DE-1).
- TURBID WATER MANAGEMENT: AREAS FOR DISCHARGE, DETAINING, AND INFILTRATING OF TURBID CONSTRUCTION WATER SHALL BE LOCATED IN AN AREA WHERE THE TURBID WATER HAS ENOUGH TIME TO INFILTRATE AND SEDIMENT TO SETTLE TO AVOID SEDIMENT FROM ENTERING ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER.
- ADEQUATE MEASURES SHALL BE TAKEN DURING CHANNEL DEWATERING TO RELOCATE PONDED FISH/WILDLIFE WITHIN THE DEWATERED PORTIONS OF THE SITE.
- THE BARRIERS USED TO DEWATER THE WORK AREAS SHALL NOT BE CONSTRUCTED HIGHER THAN SIX (6) FEET, MEASURED VERTICALLY FROM THE TOE OF THE DOWNSTREAM SLOPE.
- CONTRACTOR SHALL SECURE AND PROTECT ALL FINISHED AND UNFINISHED WORK FROM DAMAGE BY HIGH WATER LEVELS, RUNOFF, ETC. AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL REPAIR/REPLACE ANY PART OF THE WORK DAMAGED BY HIGH WATER AND/OR FLOODING DUE TO FAILURE TO MAINTAIN SPECIFIED WATER CONTROL MEASURES AT NO ADDITIONAL COST TO THE PROJECT OWNER.

LEGEND

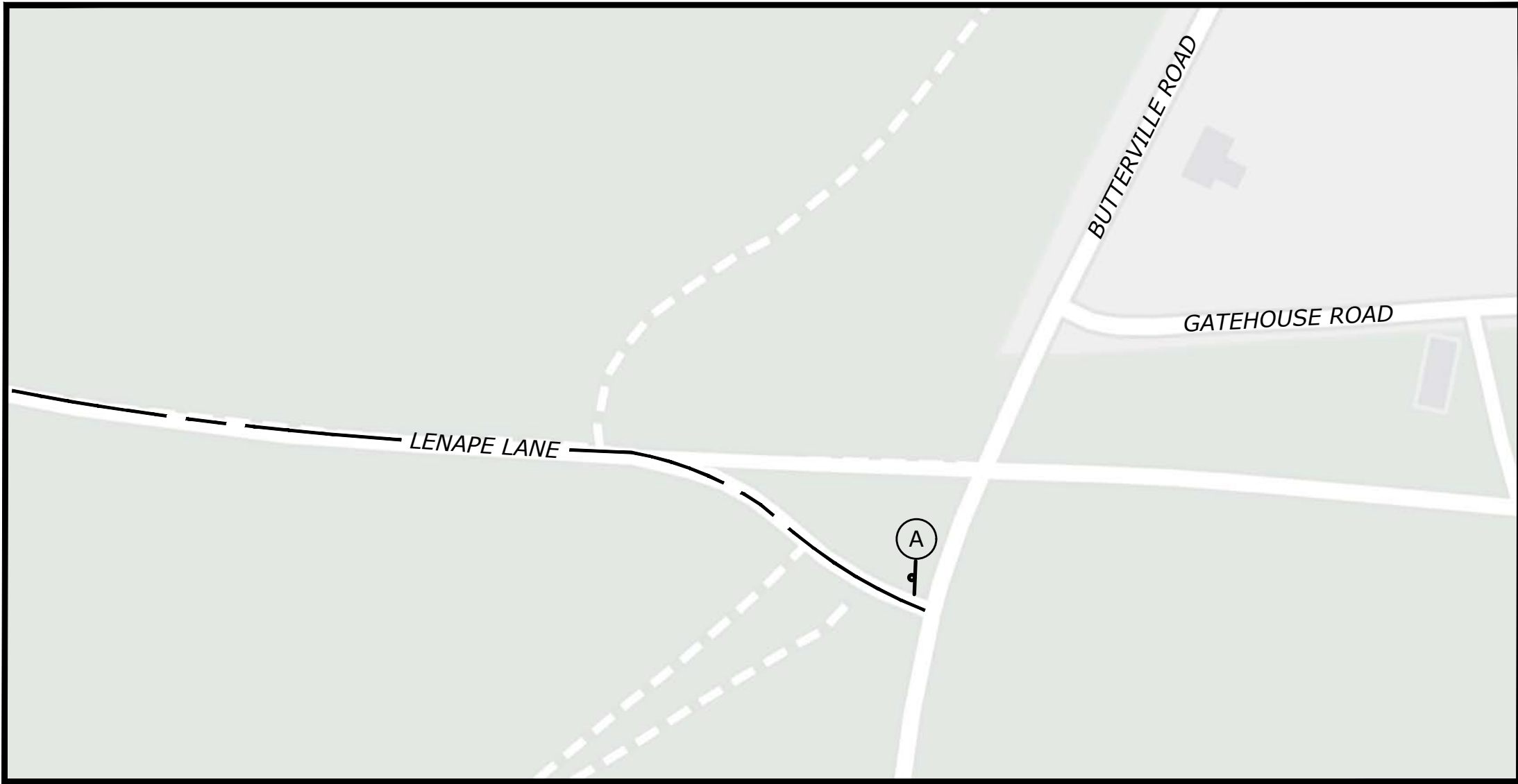
- 1350 ----- EXISTING MAJOR CONTOUR
----- 1351 ----- EXISTING MINOR CONTOUR
- - - - - ACCESS ROUTE



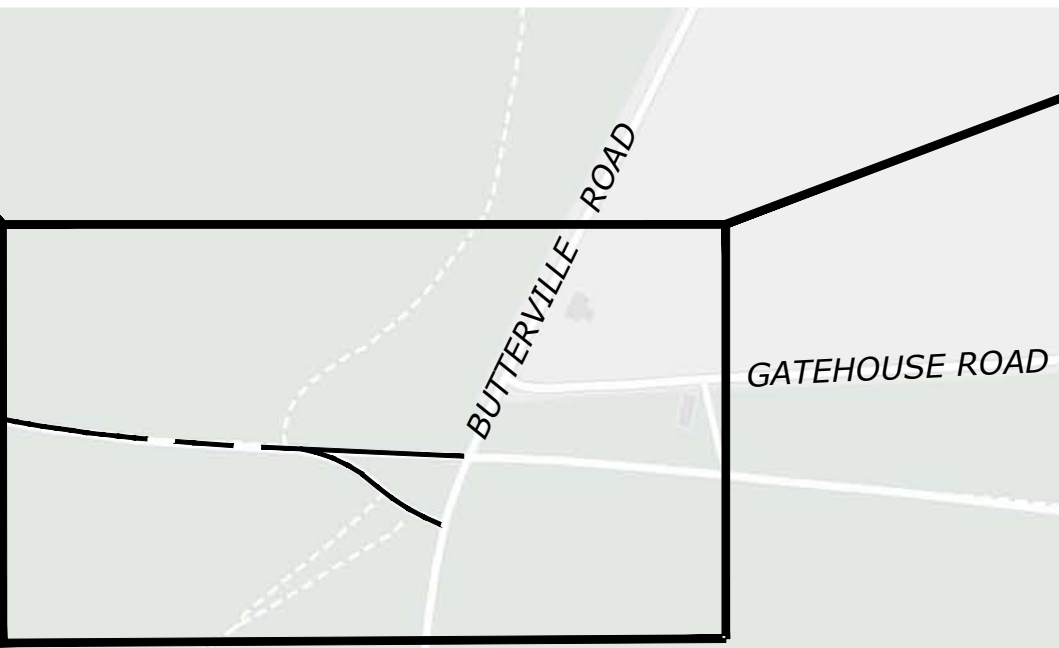
SITE ACCESS ROAD
SCALE: 1"= 300'



FARM ROAD AND LENAPE LANE INTERSECTION
SCALE: 1"= 100'



LENAPE LANE AND BUTTERVILLE ROAD INTERSECTION
SCALE: 1"= 100'



CONSTRUCTION SIGN LEGEND

PLAN DESIGNATION	MESSAGE	SIZE	MUTCD DESIGNATION
(A)	TRUCK CROSSING	36" x 36"	W8-6
(B)	CONSTRUCTION WORK AHEAD	36" x 36"	W20-SERIES
(C)	END CONSTRUCTION WORK	48" x 10" 48" x 18"	G20-2

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Registration No. 083112

DESCRIPTION	DATE	BY

TRAFFIC MANAGEMENT AND ACCESS PLAN

ECOLOGICAL RESTORATION OF THE KLEINE KILL

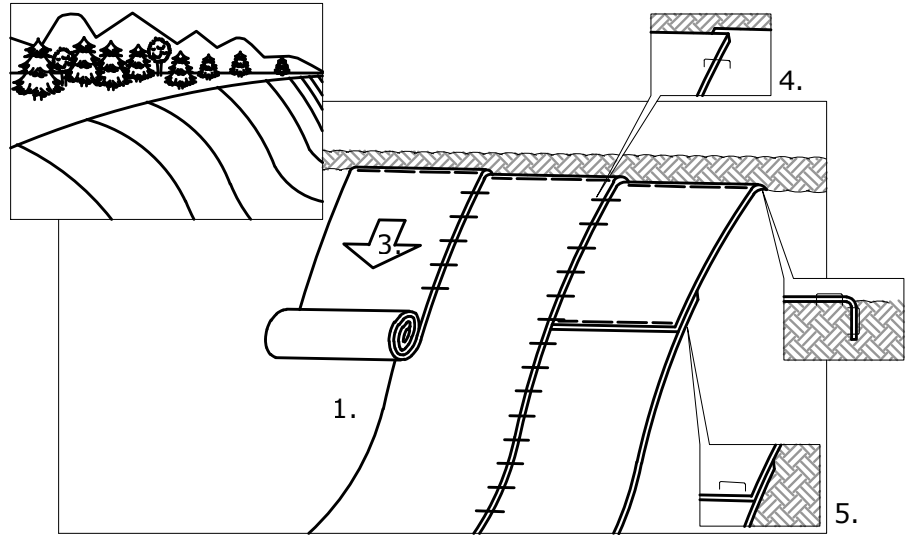
LENAPE LANE
NEW PALTZ, NY

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION

MET DESIGNED	KJC DRAWN	MC CHECKED
AS NOTED		
JUNE 12, 2026		
20261.00002		
27 OF 31		
CP-2		
SHEET NAME		

EROSION AND SEDIMENT CONTROL NOTES

1. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL."
2. THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.
5. STABILIZED CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED AT ALL SITE ACCESS POINTS.
6. THE CONSTRUCTION ACCESS ROAD WILL BE CONSTRUCTED AFTER THE REMOVAL OF TOPSOIL.
7. CLEARING OF NATIVE VEGETATION FOR CONSTRUCTION ACCESS SHOULD BE MINIMIZED.
8. TEMPORARY ACCESS AREAS SHALL BE BORDERED WITH SEDIMENT AND EROSION CONTROL FENCES AND STRAWBALES, OR APPROVED EQUAL. SEE PLANS AND DETAILS.
9. STOCKPILE AREA TO BE FLAGGED PRIOR TO CONSTRUCTION AND APPROVED BY PROJECT OWNER. ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS/WORKING HOURS, AND LIMITS OF CLEARING SHALL BE APPROVED BY A REPRESENTATIVE OF THE PROJECT OWNER.
10. STOCKPILE AREAS TO BE ENCLOSED BY SILT FENCE AND STRAW BALES, OR APPROVED EQUAL. SEE PLANS AND DETAILS.
11. AN EROSION CONTROL BLANKET SHALL BE PLACED OVER ANY DISTURBED AREAS WITH A SLOPE GREATER THAN OR EQUAL TO 3:1 TO PREVENT EROSION. SEE PLANS AND DETAILS.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE CONSTRUCTION INSPECTOR WILL VERIFY THE MAINTENANCE WEEKLY AND AFTER RAIN EVENTS.

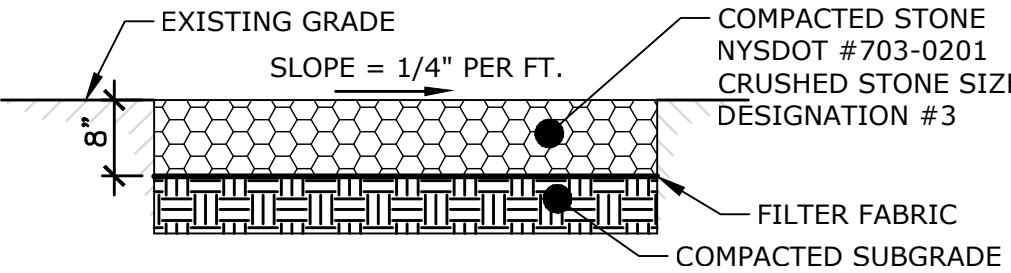


- NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF TOPSOIL/COMPOST, LIME, FERTILIZER MULCH, AND SEED.
2. ECB SHALL BE TENSAR, NORTH AMERICAN GREEN SC150BN, OR APPROVED EQUAL.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
4. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATERWAY.
5. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
6. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.

REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATION.

EROSION CONTROL BLANKET

NOT TO SCALE



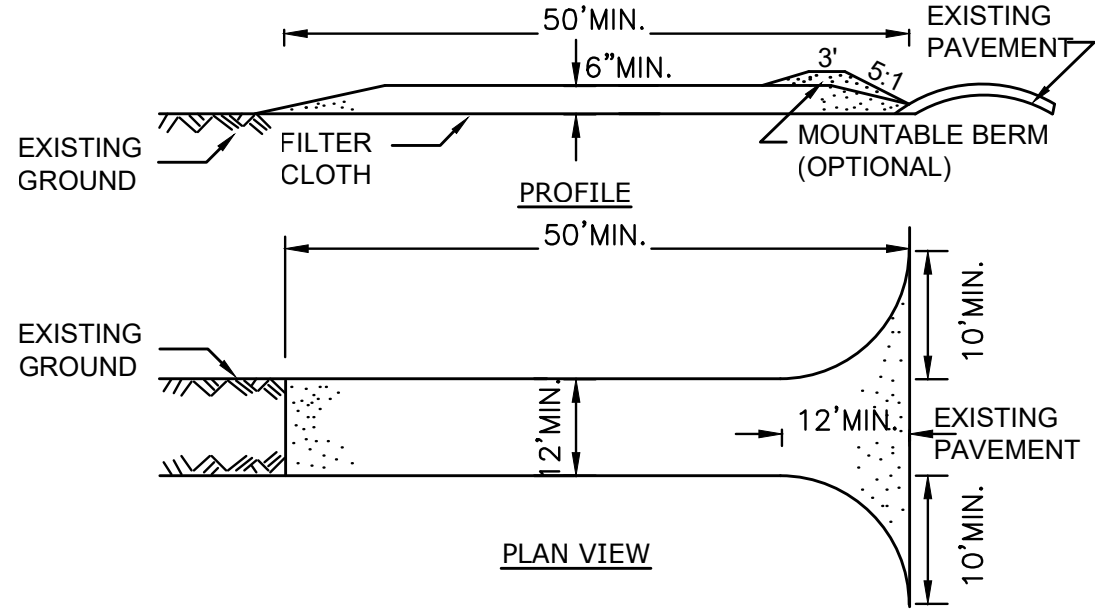
- NOTES:
1. CRUSHED STONE #3 TO BE REMOVED UPON COMPLETION OF CONSTRUCTION, AND REPLACED WITH TOPSOIL. DISTURBED AREAS TO BE SEEDED AND MULCHED ACCORDING TO THE RESTORATION PLAN.

TEMPORARY CONSTRUCTION ACCESS ROAD

NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

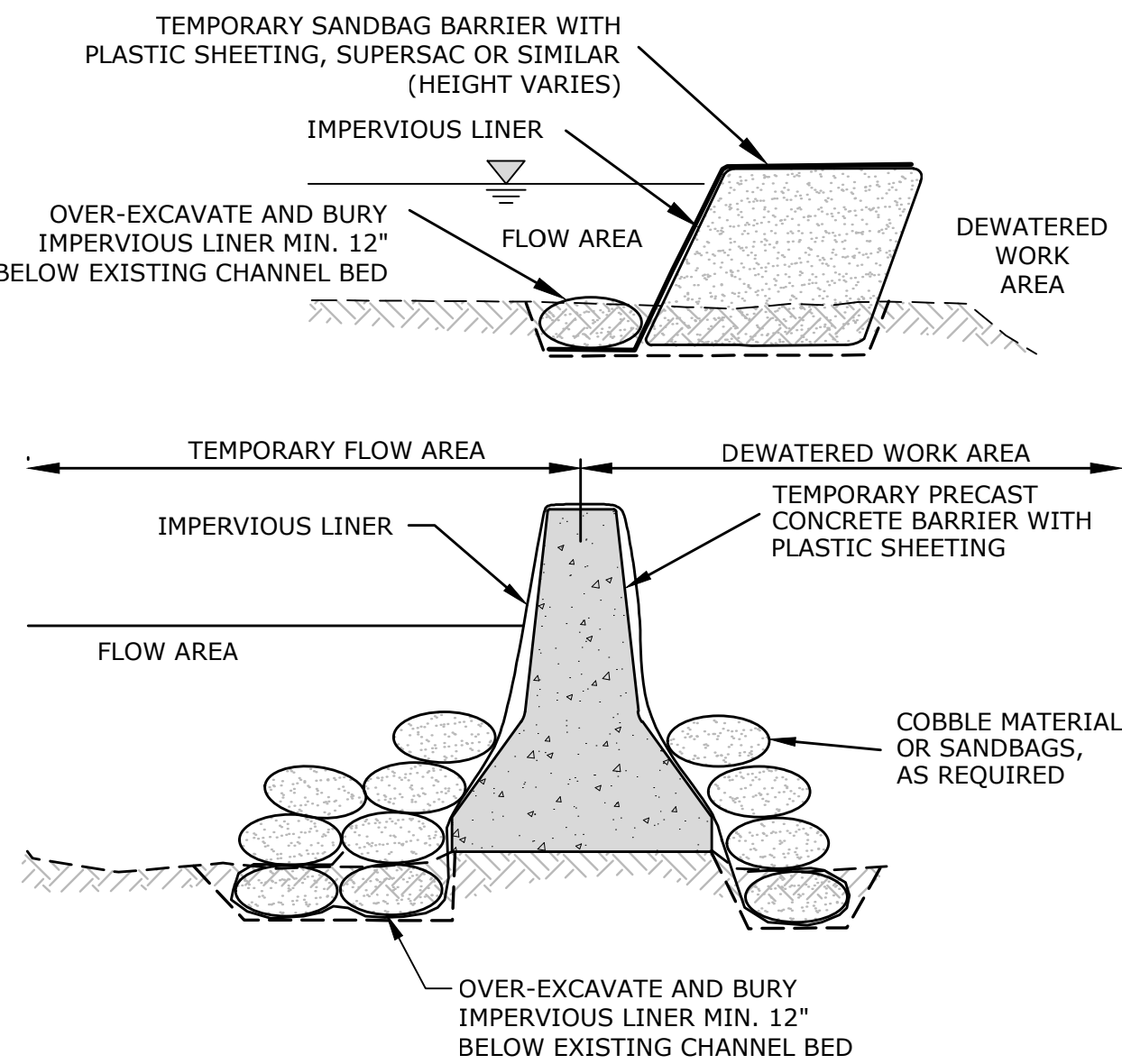
EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO 1/2 THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
PUMP WATER SETTLING BASIN	- DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DEWATERING PUMPS LONG ENOUGH TO ALLOW THE SEDIMENT TO SETTLE OUT.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. STONE OUTLET SHOULD BE AT LEAST SIX (6) INCHES BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES 1/2 OF THE REQUIRED WET STORAGE.	- TURBID DISCHARGE WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE	BASIN MAY BE REMOVED ONCE THE DEWATERING PUMP IS NO LONGER NECESSARY
STABILIZED CONSTRUCTION ENTRANCE	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED



- NOTES:
1. STONE SIZE - USE 1"-3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN TWELVE (12) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

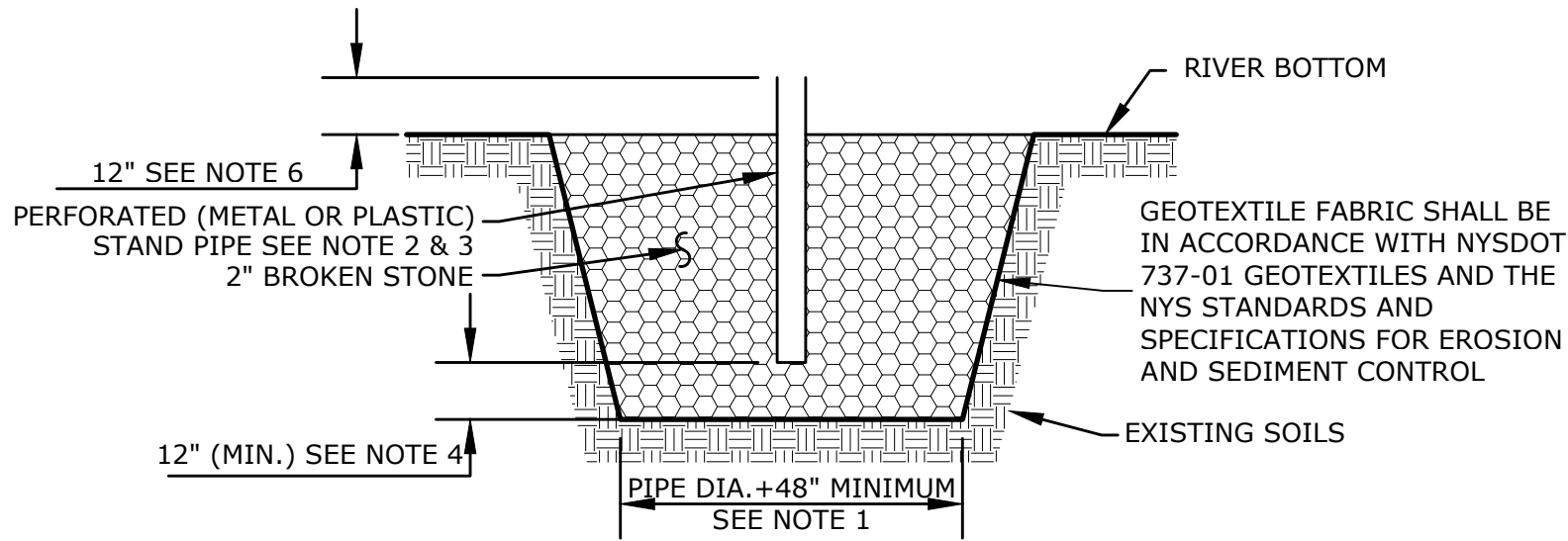
NOT TO SCALE



- NOTES:
1. COFFERDAM TO BE SIZED FOR NORMAL FLOW CONDITIONS. TOP ELEVATION OF COFFERDAM TO ISOLATE BANK FROM STREAM FLOWS.
2. COFFERDAM TO BE CONSTRUCTED OF SANDVAGS, SUPERSAC OR APPROVED EQUAL.

TEMPORARY COFFERDAM

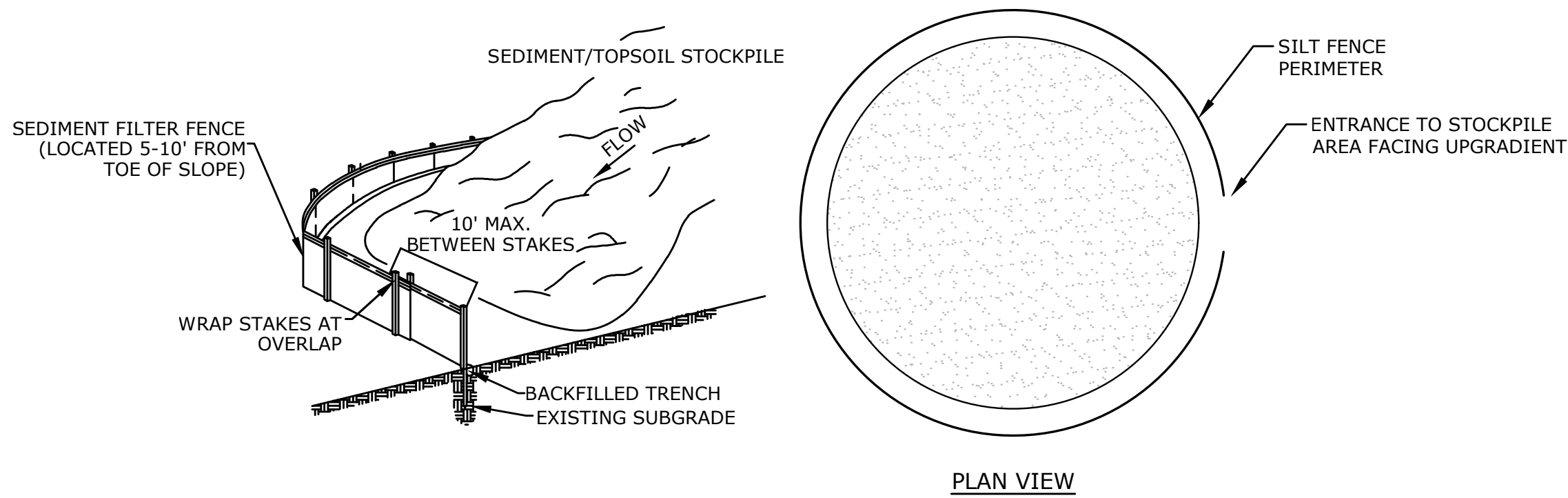
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- NOTES:
1. OVERALL SUMP PIT DIMENSIONS TO BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP TO BE USED.
2. THE STAND PIPE DIAMETER AND NUMBER OF PERFORATIONS TO BE COMPATIBLE WITH THE PUMP SIZE BEING USED.
3. PERFORATIONS IN THE STANDPIPE TO BE EITHER CIRCULAR OR SLOTS, PERFORATION SIZE SHALL NOT EXCEED 1/2" DIAMETER.
4. 2" BROKEN STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STANDPIPE.
5. A PROPERLY DESIGNED GEOTEXTILE TO BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE BACKFILL.
6. THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" ABOVE THE SURROUNDING GROUND.

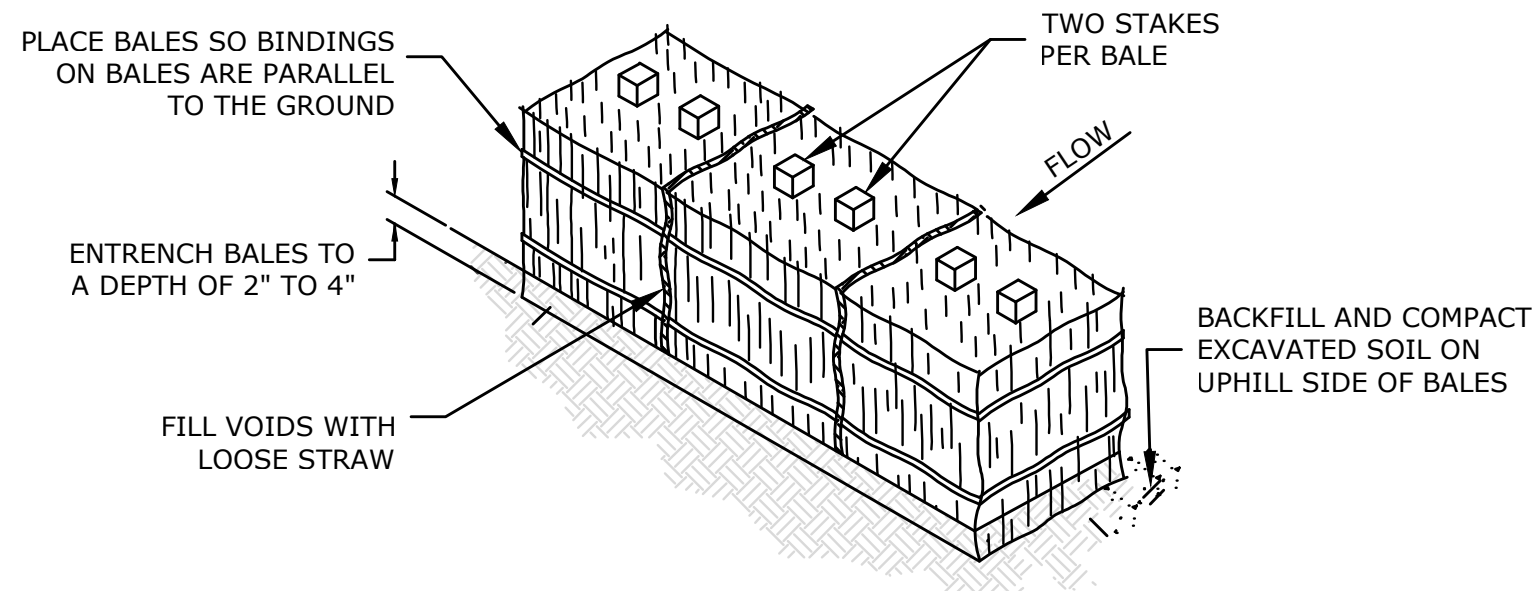
TURBID WATER SUMP FOR PUMPING

NOT TO SCALE



TEMPORARY STOCKPILE AREA

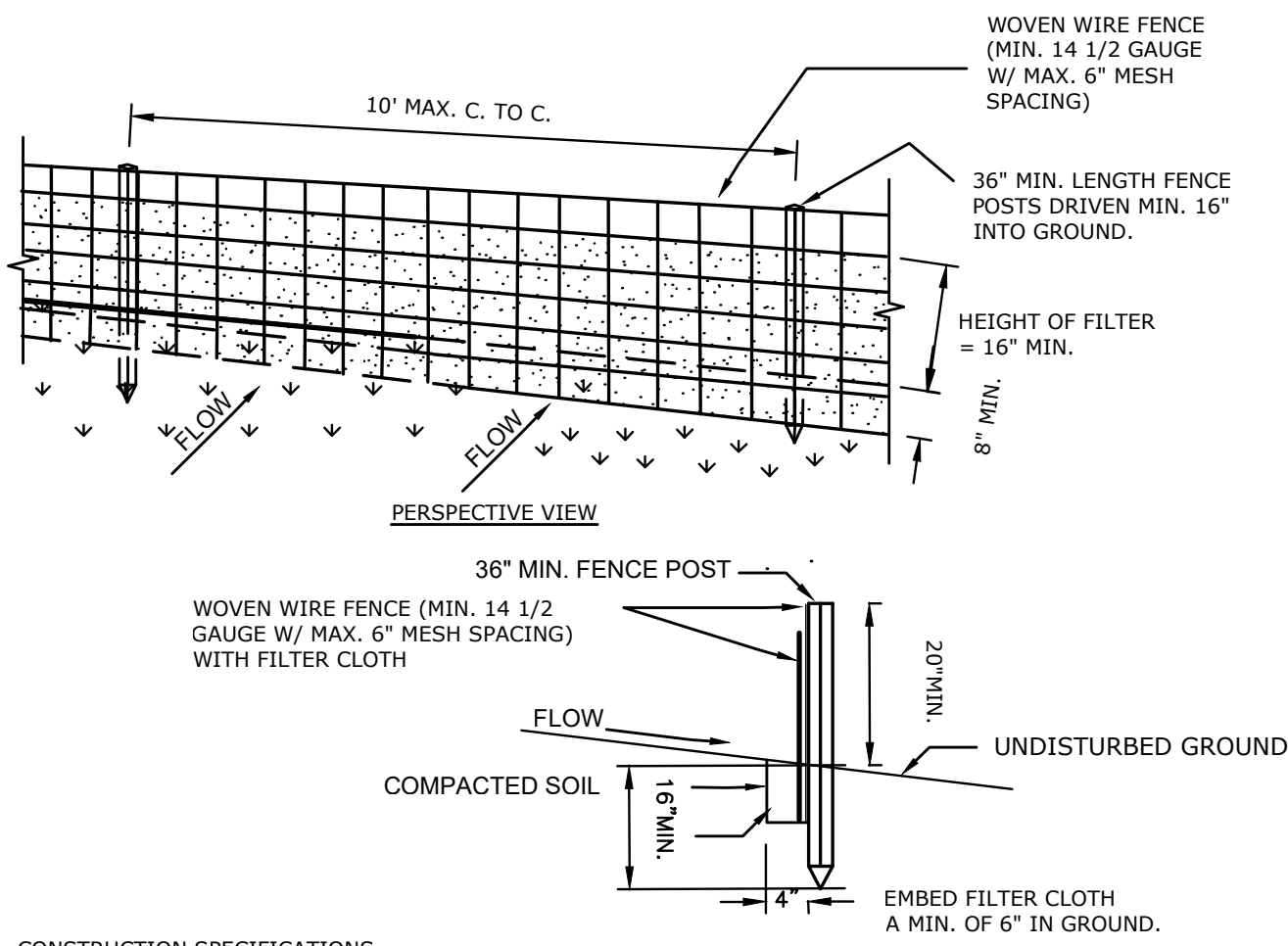
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- NOTES:
1. IDEALLY, BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
2. BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
3. WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
4. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, STRAW BALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.

STRAW BALE BARRIER PROTECTION

NOT TO SCALE



- CONSTRUCTION SPECIFICATIONS
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

NOT TO SCALE

SEDIMENT AND EROSION CONTROLS

ECOLOGICAL RESTORATION
OF THE KLEINE KILL
LENAPE LANE
NEW PALTZ, NY

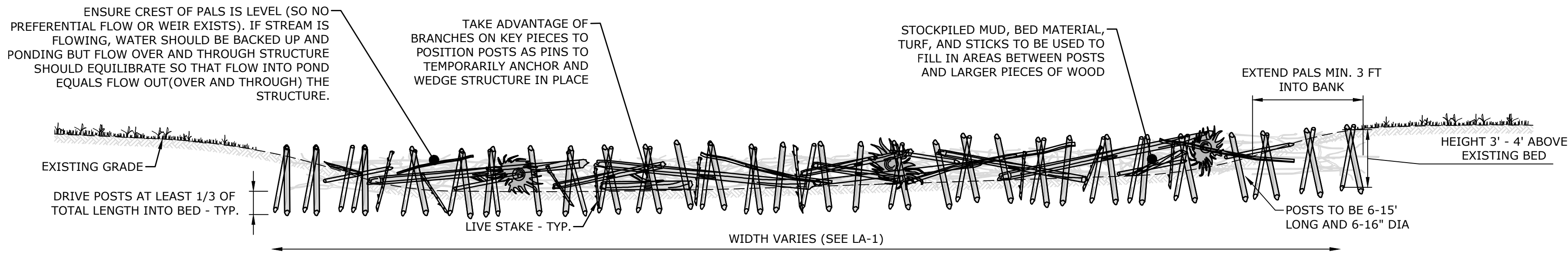
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28 OF 31		
SHEET NO.		
DE-1		
SHEET NAME		

60% ADVANCED DESIGN
NOT FOR CONSTRUCTION

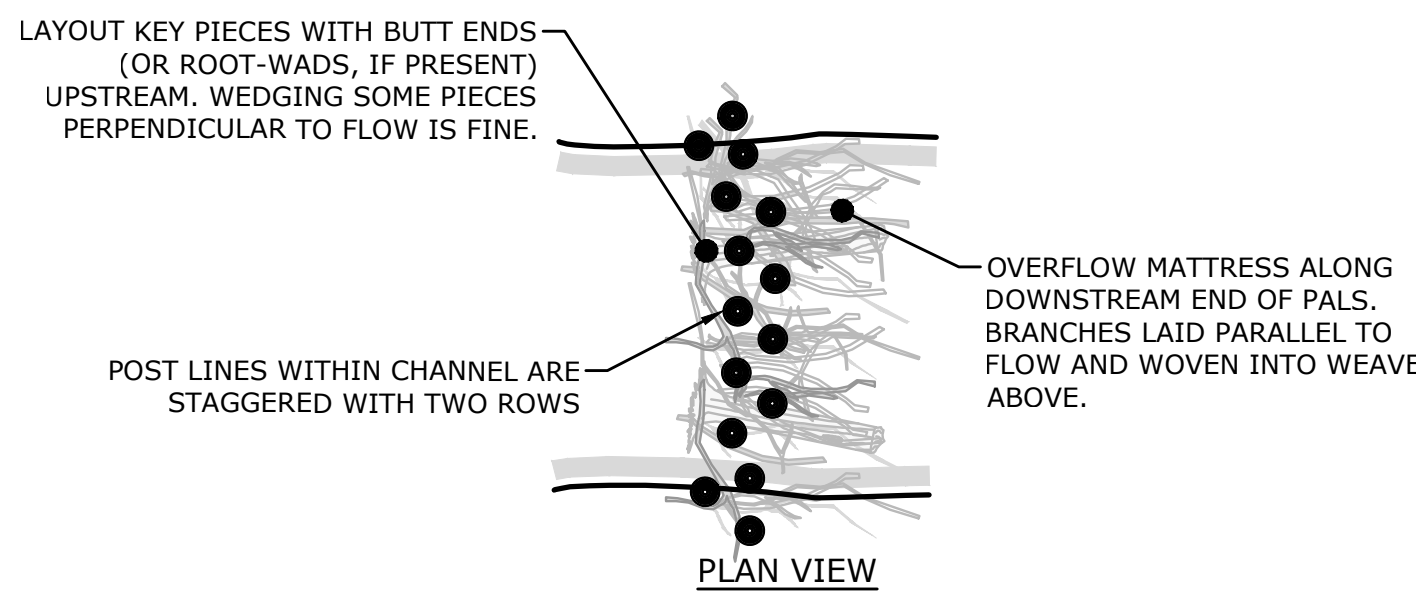
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and Land Surveying P.C.
Registration No. 083112

DESCRIPTION	DATE	BY

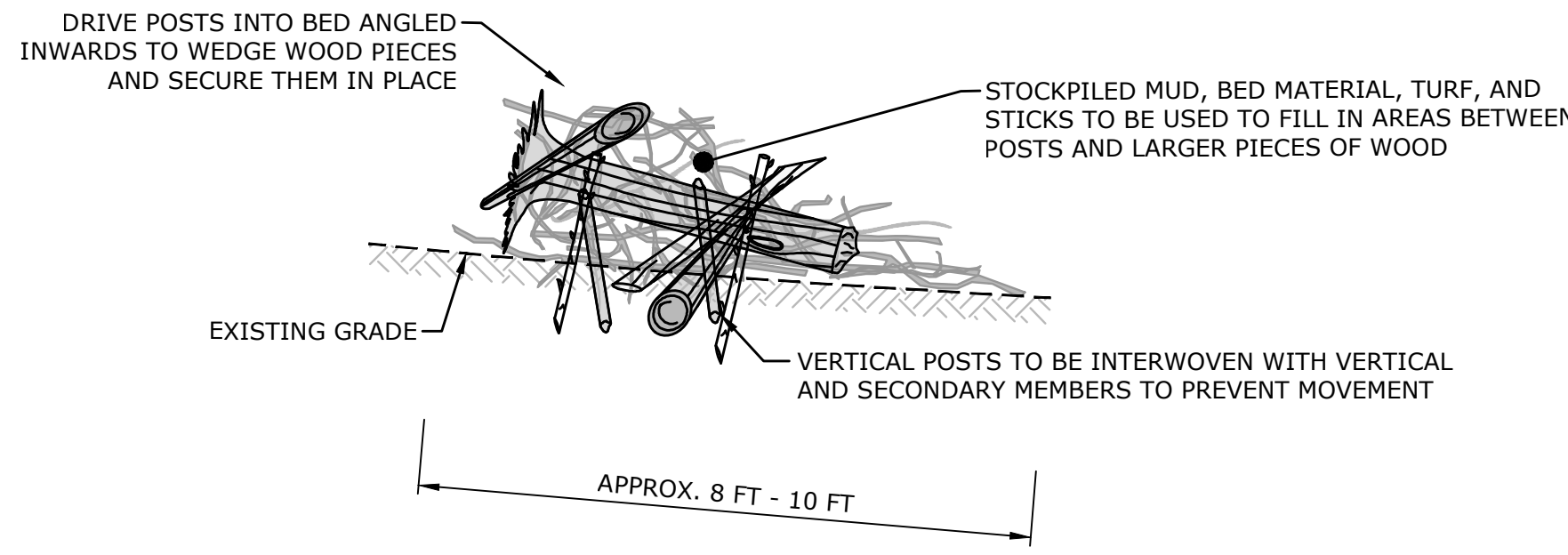
INSET: 1. SEE SHEET 20261.00002 FOR PLANTING DETAILS.
2. SEE SHEET 20261.00002 FOR PLANTING DETAILS.



SECTION VIEW - LOOKING DOWNSTREAM



PLAN VIEW



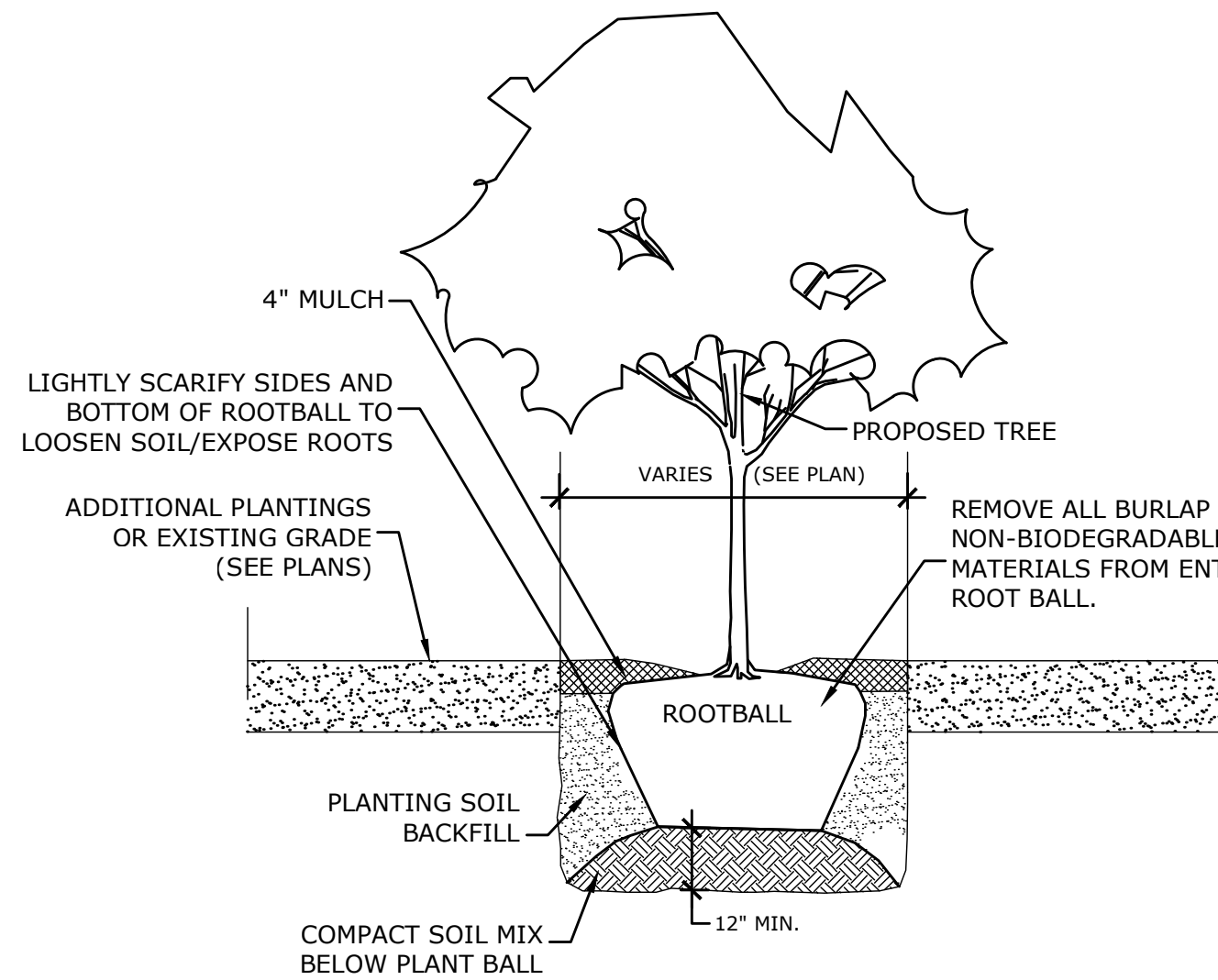
PROFILE VIEW

NOTES:

1. A VARIETY OF TECHNIQUES TO CONSTRUCT POST-ASSISTED LOG STRUCTURES WILL BE USED AND CHANGES IN DESIGN MAY BE DETERMINED ON-SITE BY PROJECT ENGINEER OR OWNER'S REPRESENTATIVE.
2. MATERIAL TO BE SOURCED ON-SITE WITH WOOD FROM CLEARING AND GRUBBING STOCKPILE. ONLY MATERIAL FROM NATIVE SPECIES SHALL BE STOCKPILED AND REUSED.
3. REUSE NATIVE MUD, SAND, AND GRAVEL TO FILL VOID SPACE WITHIN POST-ASSISTED LOG STRUCTURE WITH A FOCUS ON THE BASE OF THE STRUCTURE. WHEN NECESSARY, WASHING-IN MATERIAL WITH HIGH-PRESSURE HOSE TO EFFECTIVELY FILL VOIDS.
4. FINISHED ELEVATION OF POST-ASSISTED LOG STRUCTURE ON LAYOUT PLAN.
5. RANDOMLY PLACE MATERIAL TO LOOK MESSY AND NATURAL.

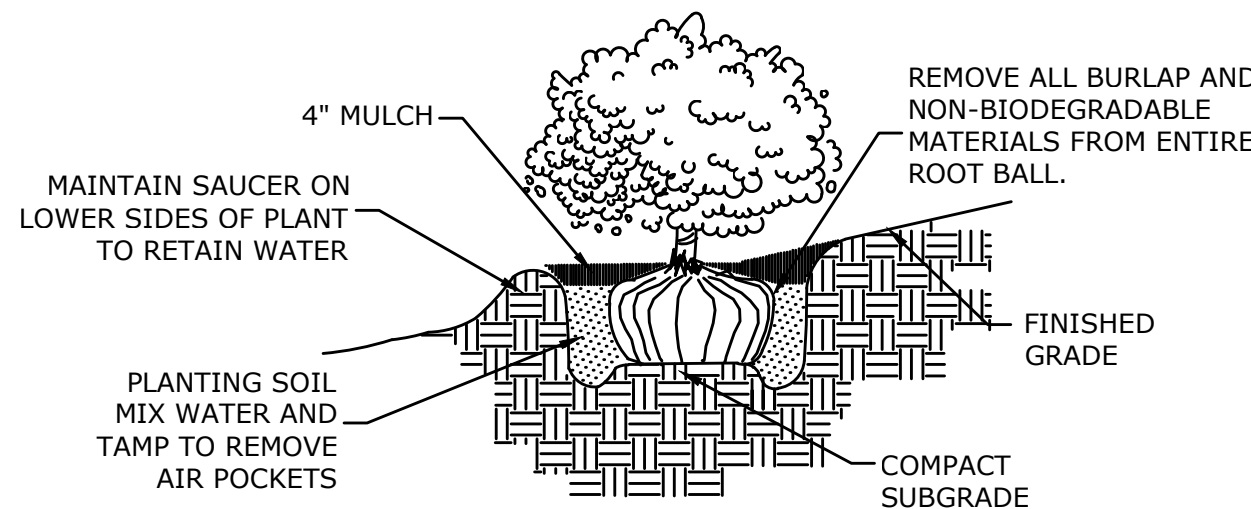
POST ASSISTED LOG STRUCTURE (PALS)

NOT TO SCALE



TREE PLANTING DETAIL

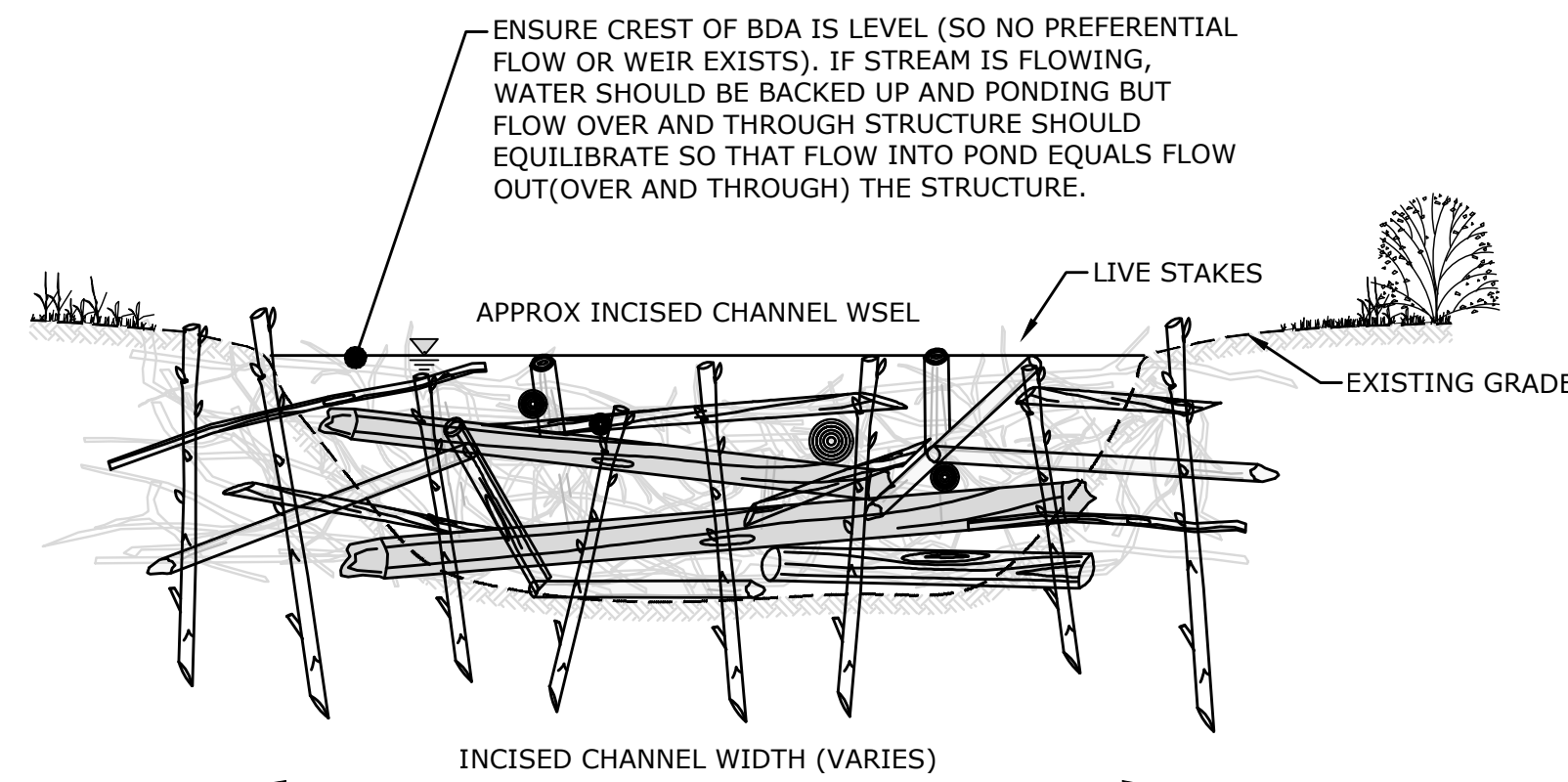
NOT TO SCALE



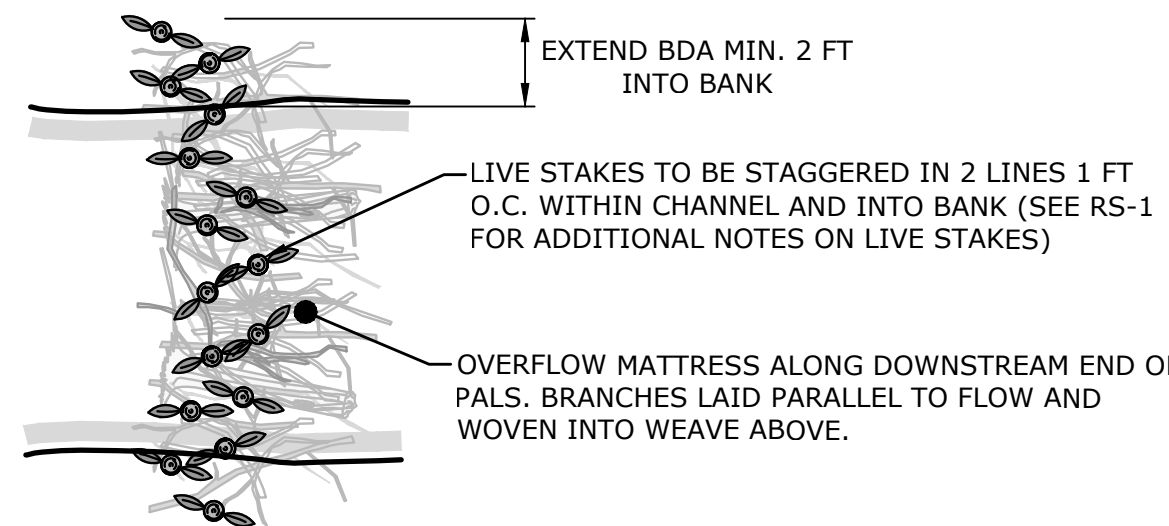
SHRUB PLANTING

NOT TO SCALE

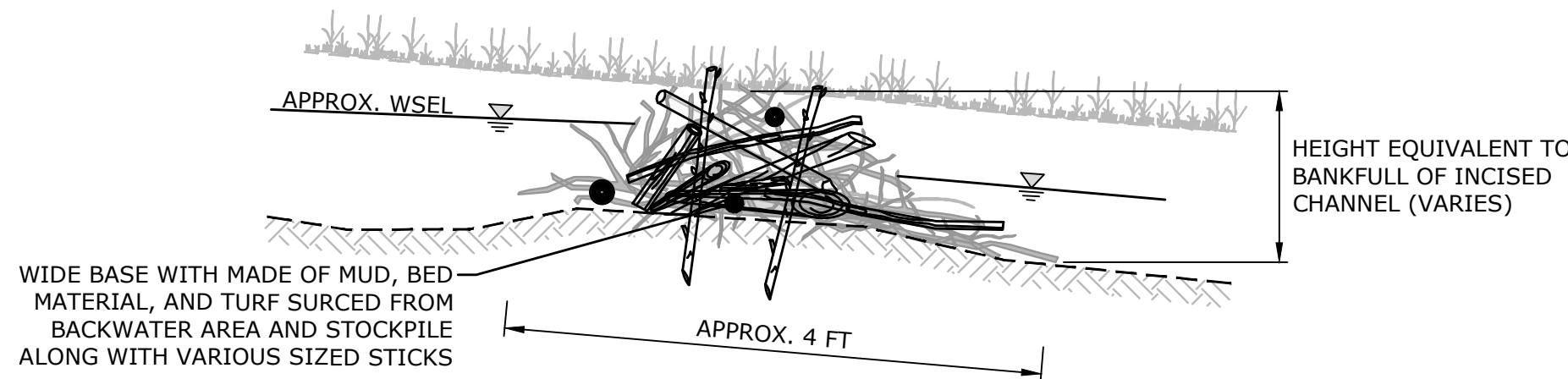
NOTE:
UNLESS OTHERWISE DIRECTED SHREDDED MULCH SHALL BE PLACED TO A LIMIT OF ONE FOOT BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN PLANTING BED. SPECIES SHALL BE EQUALLY DISTRIBUTED THROUGHOUT THE SITE.



SECTION VIEW - LOOKING DOWNSTREAM



PLAN VIEW



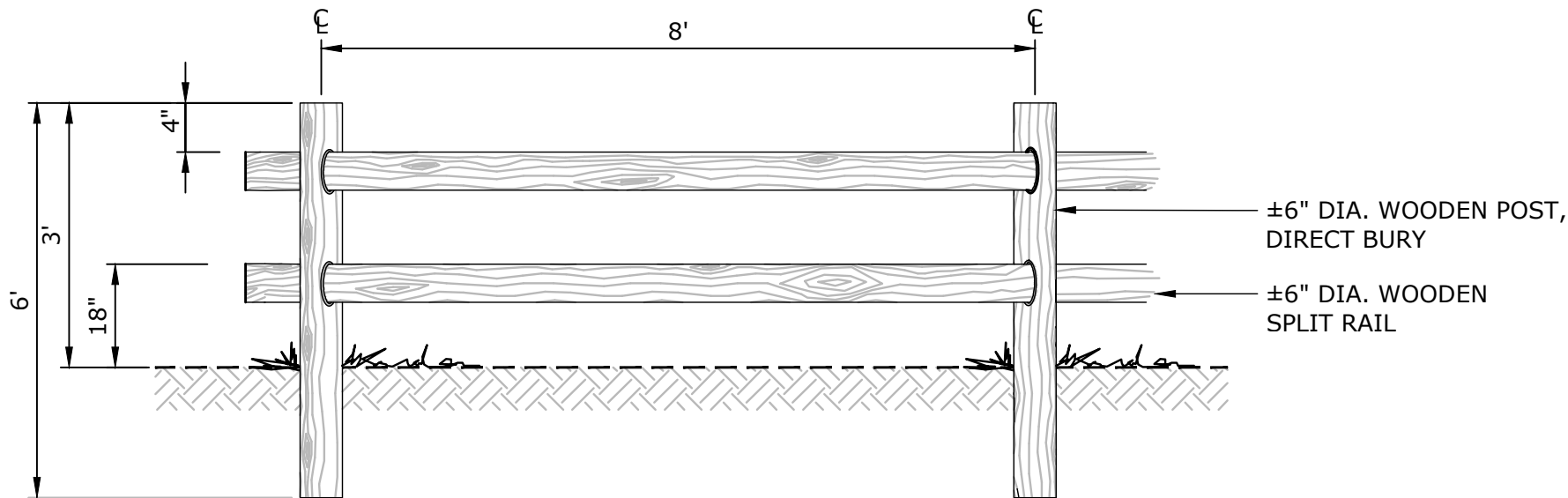
PROFILE VIEW

NOTES:

1. BEAVER DAM ANALOGS TO BE BUILT WITHOUT MECHANICAL ASSISTANCE. LOCATION AND DESIGN MAY BE CHANGED ON-SITE BY PROJECT ENGINEER OR OWNER'S REPRESENTATIVE.
2. MATERIAL TO BE SOURCED ON-SITE WITH WOOD FROM CLEARING AND GRUBBING STOCKPILE. ONLY MATERIAL FROM NATIVE SPECIES SHALL BE STOCKPILED AND REUSED.
3. REUSE NATIVE MUD, SAND, AND GRAVEL TO FILL VOID SPACE WITHIN DAM ANALOG WITH A FOCUS ON THE BASE OF THE STRUCTURE. WHEN NECESSARY, WASHING-IN MATERIAL WITH HIGH-PRESSURE HOSE TO EFFECTIVELY FILL VOIDS.
4. MATERIAL TO BE PLACED RANDOMLY TO LOOK MESSY AND NATURAL.

BEAVER DAM ANALOG (BDA)

NOT TO SCALE



SPLIT RAIL FENCE

NOT TO SCALE



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Registration No. 083112

DESCRIPTION	DATE	BY

WOODY STRUCTURES AND PLANTING DETAILS

ECOLOGICAL RESTORATION
OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

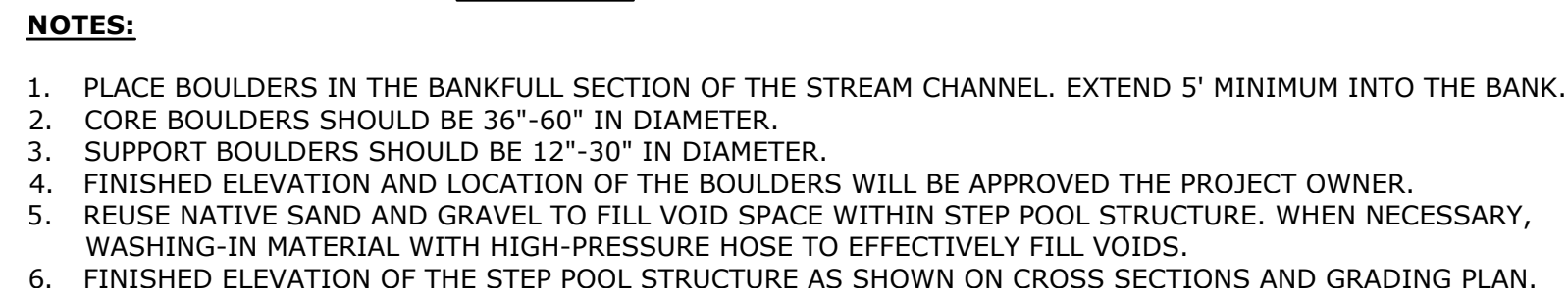
60% ADVANCED DESIGN
NOT FOR CONSTRUCTION

MET	KJC	MC
DESIGNED	DRAWN	CHECKED

SCALE
DATE JUNE 12, 2026
PROJECT NO. 20261.00002
SHEET NO. 29 OF 31

DE-2

SHEET NAME



NOT TO SCALE



- A. LONGEST AXIST (LENGTH)
- B. INTERMEDIATE AXIS (WIDTH)
- C. SHORTEST AXIST (THICKNESS/DEPTH)

1. THE "AVERAGE DIAMETER" (DIAMETER) OF A SINGLE, IRREGULARLY SHAPED STONE SHALL BE MEASURED ALONG ITS MEDIAN AXIS, ILLUSTRATED ABOVE AS THE "B" AXIS.

NOT TO SCALE



- NOTES:**
1. PLACE BOULDERS IN THE BANKFULL SECTION OF THE STREAM CHANNEL. EXTEND 5' MINIMUM INTO THE BANK.
 2. CORE BOULDERS SHOULD BE 36"-60" IN DIAMETER.
 3. SUPPORT BOULDERS SHOULD BE 12"-30" IN DIAMETER.
 4. FINISHED ELEVATION AND LOCATION OF THE BOULDERS WILL BE APPROVED THE PROJECT OWNER.
 5. REUSE NATIVE SAND AND GRAVEL TO FILL VOID SPACE WITHIN REINFORCED RIFFLE STRUCTURE. WHEN NECESSARY, WASHING-IN MATERIAL WITH HIGH-PRESSURE HOSE TO EFFECTIVELY FILL VOIDS.
 6. FINISHED ELEVATION OF THE REINFORCED RIFFLE STRUCTURE AS SHOWN ON LAYOUT PLAN (LA-1).

NOT TO SCALE

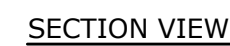


- NOTES:**
1. PLACE BOULDERS IN THE BANKFULL SECTION OF THE STREAM CHANNEL. EXTEND 5' MINIMUM INTO THE BANK.
 2. CORE BOULDERS SHOULD BE 36"-60" IN DIAMETER.
 3. SUPPORT BOULDERS SHOULD BE 12"-30" IN DIAMETER.
 4. FINISHED ELEVATION AND LOCATION OF THE BOULDERS WILL BE APPROVED THE PROJECT OWNER.
 5. REUSE NATIVE SAND AND GRAVEL TO FILL VOID SPACE WITHIN REINFORCED RIFFLE STRUCTURE. WHEN NECESSARY, WASHING-IN MATERIAL WITH HIGH-PRESSURE HOSE TO EFFECTIVELY FILL VOIDS.
 6. FINISHED ELEVATION OF THE REINFORCED RIFFLE STRUCTURE AS SHOWN ON LAYOUT PLAN (LA-1).

NOT TO SCALE



NOT TO SCALE



- NOTES:

1. BOULDER TOE BOULDERS SHOULD BE 36"-60" IN DIAMETER.
2. BOULDERS TO FILL VOIDS AND SUPPORT BOULDER TOE SHOULD BE 12"-30" IN DIAMETER.
3. EMBED STONES MIN. $\frac{1}{3}$ STONE DIAMETER ITO CHANNEL BED AND BANKS.
4. UTILIZE 1-2 COURSES OF STONE TO MEET PROPOSED BANK HEIGHT.
5. CHINK VOIDS IN STONE WITH NATIVE STREAMBED MATERIAL.

NOT TO SCALE

1. REMOVAL OF EXISTING CHANNEL BED MATERIAL:

- 1.1. REMOVE AND STOCKPILE ALL EXISTING SAND, GRAVEL, COBBLE, AND BOULDER TO MINIMUM 12" DEPTH WITHIN EXISTING BANKFULL CHANNEL. COLLECT MORE ARMORING FROM COBBLE BARS, WHERE POSSIBLE. REUSE APPROVED MATERIAL ON TOP 12" OF FINAL CHANNEL BED. ALL BOULDERS OVER 12" IN SIZE LOCATED PARTIALLY OR FULLY WITHIN THE CHANNEL SHALL BE REMOVED FOR REUSE.

2. BANKFULL CHANNEL FORMATION:

- 2.1. PERFORM ROUGH GRADING OF CHANNEL (SEE GR-1, GR-2).
- 2.2. TO ESTABLISH NEW CHANNEL IN FILL SITUATION: FILL TO WITHIN 12" OF FINAL GRADE WITH NATURAL SAND & GRAVEL/COBBLE/BOULDER RE-USED FROM ON-SITE EXCAVATION. DO NOT USE SILTS, CLAYS, OR ORGANICS. DO NOT USE STOCKPILED BED ARMORING AS GENERAL FILL TO RAISE BED. PLACE FINAL 12" OF MATERIAL FROM STOCKPILED MATERIAL, AND SUPPLEMENT WITH BED ARMORING AS DESCRIBED BELOW.
- 2.3. TO ESTABLISH NEW CHANNEL IN CUT SITUATION, IN SUITABLE SOIL: PLACE FINAL 12" OF MATERIAL FROM STOCKPILED MATERIAL, AND SUPPLEMENT WITH BED ARMORING AS DESCRIBED BELOW.
- 2.4. TO ESTABLISH NEW CHANNEL IN CUT SITUATION, IN UNSUITABLE SOIL: REMOVE MATERIAL TO 24" BELOW FINAL GRADE. PLACE 12" OF SUITABLE SAND/GRAVEL FILL. PLACE FINAL 12" OF MATERIAL FROM STOCKPILED MATERIAL, AND SUPPLEMENT WITH BED ARMORING AS DESCRIBED BELOW.

3. LOW-FLOW CHANNEL FORMATION:

- 3.1 SHALL BE A V-SHAPED CHANNEL WITH 8:1 SLOPE (12.5%) FROM DEEPEST POINT TO BANKS, REFER TO CROSS SECTIONS.

4. CHANNEL BED MATERIAL:

- 4.1 REPLACEMENT OF THE SAND, GRAVEL, AND COBBLE STOCKPILED BEFORE CONSTRUCTION
BEGAN SHALL BE DONE IN SUCH A MANNER AS TO SIMULATE THE NATURAL CHANNEL BED
BEFORE CONSTRUCTION.
- 4.2 PLACE CHANNEL BED MATERIAL TO A DEPTH OF 12 INCHES BELOW THE PROPOSED FINISHED
CHANNEL GRADE. MECHANICALLY WORK NATIVE EXCAVATED CHANNEL MATERIAL (GRAVEL
AND SAND) OVER COBBLES AND INTO THE COBBLES TO FILL VOIDS.
- 4.3 STOCKPILED ON SITE COBBLES AND GRAVEL MAY BE USED FOR CHANNEL BED MATERIAL IF
APPROVED BY THE PROJECT OWNER AND MEETS THE SPECIFICATIONS FOR CHANNEL BED
MATERIAL (SEE SPECIFICATIONS).
- 4.4 DO NOT REUSE FINE-GRAINED SILTS, CLAYS, OR ORGANIC MATERIAL WITHIN THE CHANNEL.
- 4.5 UTILIZE EXISTING STREAM BED MATERIAL TO CONSTRUCT CHANNEL BED.

5. CHANNEL ROUGHNESS BOULDERS, RIB- RIFFLE GRADE CONTROL STRUCTURES, AND STEP POOL STRUCTURES:

- 5.1 REFER TO ASSOCIATED DETAILS FOR RANDOM CHANNEL ROUGHNESS, RIFFLE GRADE CONTROL STRUCTURES, AND BOULDER STEP POOL STRUCTURES.
- 5.2 PLACE BOULDERS AS DIRECTED BY ENGINEER TO SIMULATE A NATURAL CHANNEL BED.



NOT TO SCALE

STONE WORK DETAILS	ECOLOGICAL RESTORATION OF THE KLEINE KILL LENAPE LANE NEW PALTZ, NY		
MET DESIGNED	KJC DRAWN	MC CHECKED	
SCALE JUNE 12, 2026			
DATE 202611.00002			
PROJECT NO. 30 OF 31			
SHEET NO. DE-3			

LEGEND

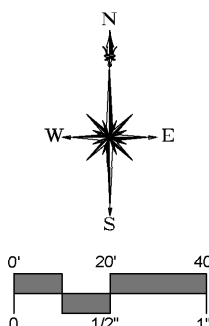
- PROPOSED LIMIT OF PERMANENT DISTURBANCE
 PREVIOUSLY MAPPED FRESHWATER WETLAND
 ASSOCIATED BUFFER AREA
 ORDINARY HIGH WATER
 TOP OF BANK

IMPACTS TO RESOURCE AREAS

REGULATED AREA	AREA OF DISTURBANCE (SF)	VOLUME OF EXCAVATION (CY)	VOLUME OF FILL (CY)
BELOW ORDINARY HIGH WATER	-	80	70
WITHIN STREAM BANK	-	100	90
WITHIN WETLAND	7200	-	-
ASSOCIATED BUFFER AREA	123000	-	-

NOTES:

1. FRESHWATER WETLAND BOUNDARY PREVIOUSLY MAPPED BY NYSDEC AND SOURCED THROUGH DEC ENVIRONMENTAL RESOURCE MAPPER (ERM). ADJUSTMENTS MADE BY PROFESSIONAL WETLAND SCIENTIST (PWS) BASED ON FIELD OBSERVATIONS MADE ON SEPTEMBER 23, 2025.
2. ASSOCIATED BUFFER AREA IS THE AREA 100 FT FROM BOTH FRESHWATER WETLAND BOUNDARY AND THE EDGE OF THE WATERCOURSE.
3. ORDINARY HIGH WATER AND TOP OF BANK EXTENTS DOWNSTREAM OF THE DAM DIGITIZED BASED ON SURVEYED TOPOGRAPHY AND FIELD-VERIFIED BY SLR SEPTEMBER 2025.
4. THE TOTAL AREA OF PROPOSED GROUND DISTURBANCE IS APPROXIMATELY 133000 S.F.



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Registration No. 083112

[illegible]

REGULATED RESOURCES

ECOLOGICAL RESTORATION OF THE KLEINE KILL

LENAPE LANE
NEW PALTZ, NY

**60% ADVANCED DESIGN
NOT FOR CONSTRUCTION**

---	KJC	MC
DESIGNED	DRAWN	CHECKED

JUNE 12, 2026

20261.00002

31 OF 31

RR-1

SHEET NAME