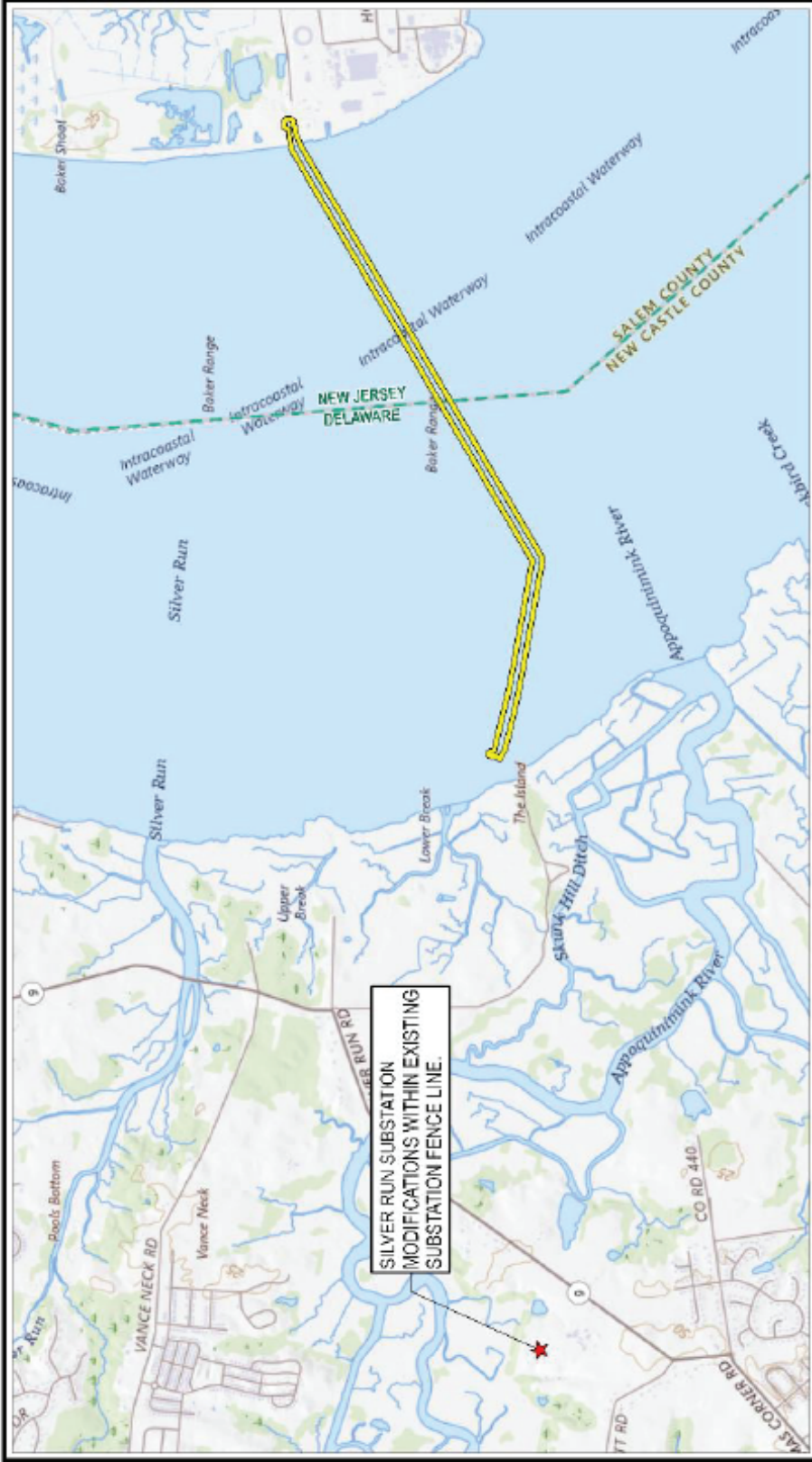




PROJECT
SILVER RUN ELECTRIC LLC
SILVER RUN EXPANSION PROJECT

TITLE
USGS MAP

DRAWN BY: A. FARRIS
CHECKED BY: M. BILLINGS
APPROVED BY: J. TREACY
DATE: SEPTEMBER 2024

PROJ. NO.: 529393.0001.0000

FIGURE 2.1-1

FILE
404 WYMAN STREET
SUITE 375
WALTHAM, MA 02451
PHONE: 781.418.7696
SILVER RUN EXPANSION - BASE 04

BASE MAP: ESRI "USGS NATIONAL W80" ONLINE SERVICE LAYER
7.5 QUADRANGLE: TAYLORS BRIDGE (2023)
DATA SOURCES: ESRI, USGS, TRC

LEGEND

- PROJECT AREA
- ★ SILVER RUN SUBSTATION
- STATE BOUNDARY

SCALE

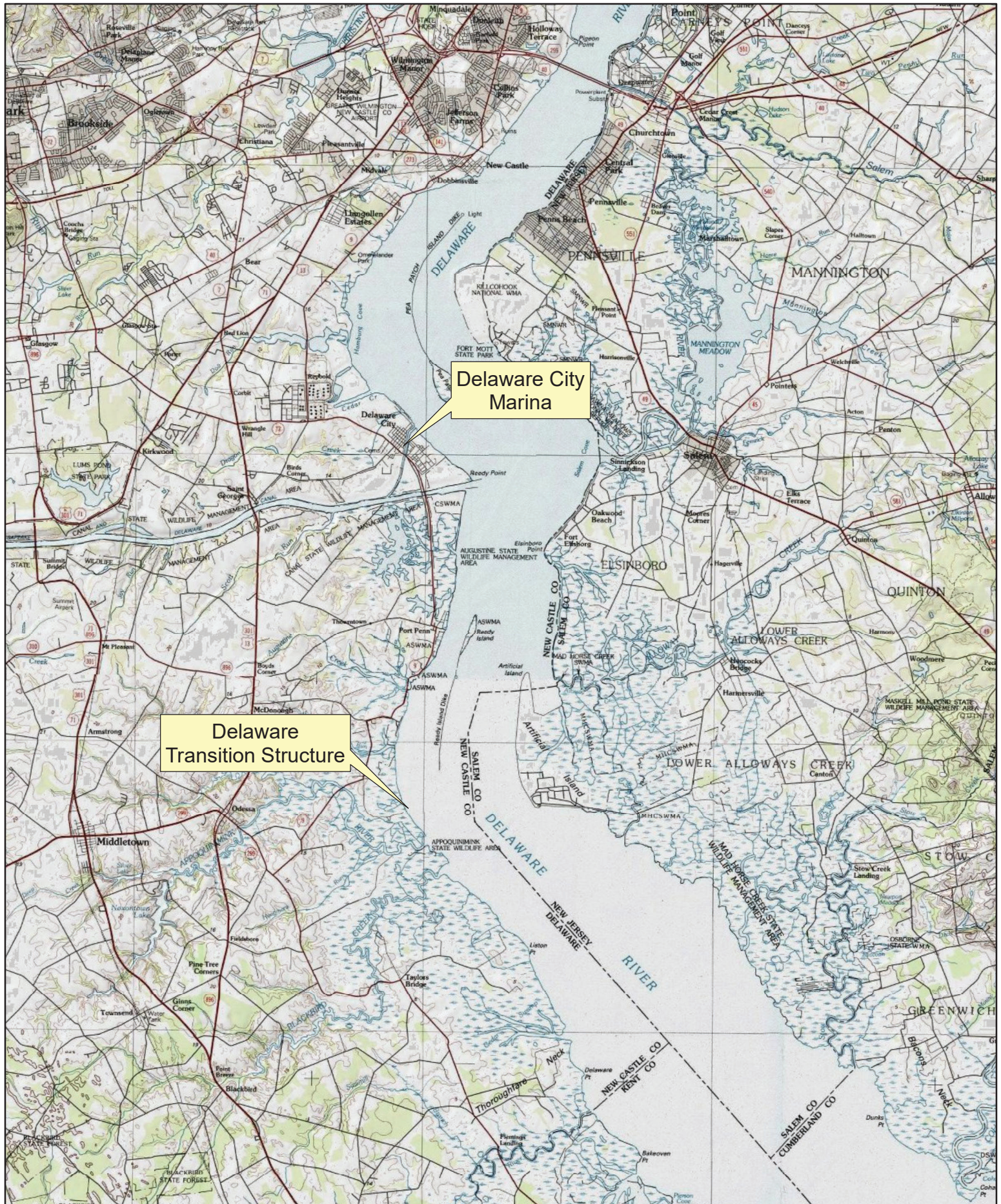
0 1,500 3,000 FEET

1" = 3,000'

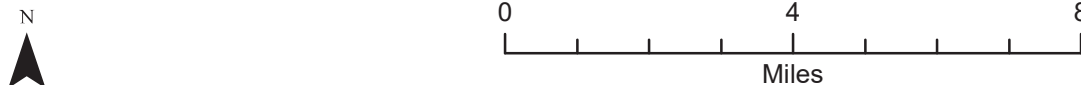
North Arrow

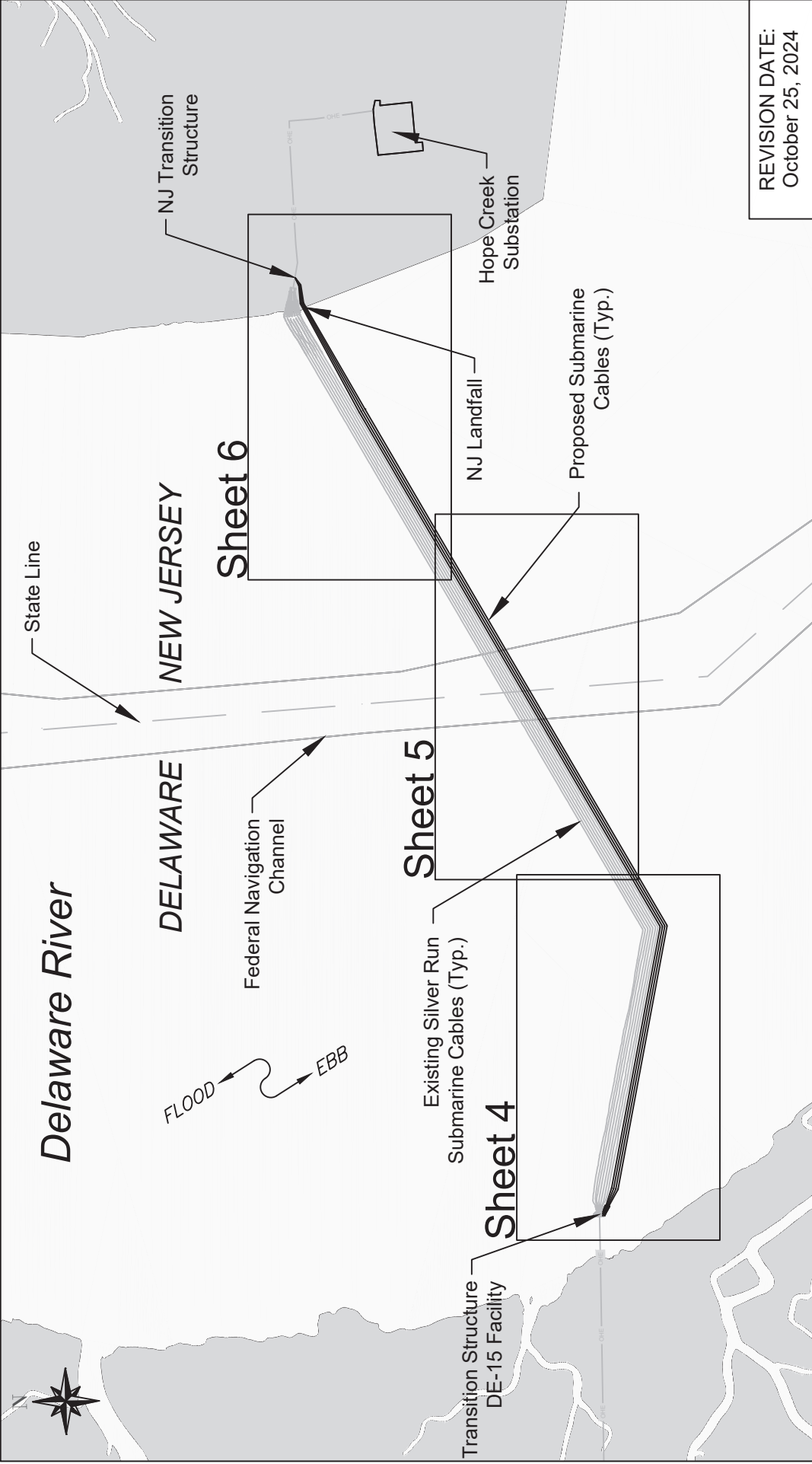
Inset Map

Figure 2.1-1 U.S Geological Survey ("USGS") Map



Delaware City Marina





Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line		Silver Run Expansion Project Key Plan		REVISION DATE: October 25, 2024
0100020004000 1" = 2000' Scale in Feet		SHEET NO. 1		DATE: September 27, 2024
		At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		PROJECT NO. 529393.0001



NOTES:

- Horizontal Datum: UTM Zone 18N, NAD83, U.S. Survey Feet.
- Elevations referenced to NAVD88 in Feet, unless otherwise noted.
- Tidal data from NOAA tidal benchmark at Reedy Point (8551910) [39°33.5'N; 75°34.4'W] and verified using NOAA's VDATUM model (version 3.1).
- Land Survey Source - Land and Mapping Services, Clearfield, PA
- Marine Survey - Ocean Surveys, Inc., Old Saybrook, CT and Alpine Oceanic Seismic Survey, Inc., Norwood, NJ.
- Soundings shown in project area based on field measurements taken during the period 19 March to 22 March 2024 and can only be considered as indicating the conditions existing at that time.
- Wetlands extend beyond Project boundaries.
- Boundaries of wetlands and waters at the PSEG Artificial Island property, as depicted hereon, taken from map entitled, "Wetlands Location Map (Figure 5), New Jersey Wind Port, Salem County, New Jersey," prepared by AKRF; dated January 2023. These wetlands and waters boundaries were established by AKRF, as explained in AKRF's report entitled, "Wetland Delineation Report, PSEG Nuclear LLC, Salem and Hope Creek Generating Stations;" dated June 2020. These wetlands and waters boundaries were verified by the USACE and NJDEP in conjunction with permit decisions for the New Jersey Wind Port (NAP-2019-01084-39, dated March 21, 2022; NJDEP File No. 1704-02-0001.10 LUP210002, dated July 23, 2021).

- NJ Upper Wetlands Boundary digitized from NJDEP Coastal Wetlands Map No.231-1752.
- MHW and Spring High Tide Elevation obtained from USACE Philadelphia District Jurisdictional Determination for PSEG Nuclear, dated February 24, 2014.
- High tide line elevation (5.9 FT, NAVD88) from plans (Figures 55, 55A, 55C) provided with the USACE Public Notice, dated September 4, 2014, for the PSEG nuclear power plant/reactor site at Artificial Island (CENAP-OP-R-2009-0157).
- Existing Silver Run Line components depicted hereon, including the Delaware transition structure, New Jersey transition structure, and seven submarine/underground cables, were authorized by USACE Permit dated October 1, 2018 (CENAP-OP-R-2016-00542-75).

Estimated Disturbance Table				
Activity	Permanent (SF)		Temporary (SF)	
	Open Water (Waterward of MHW Line)	Wetland	Open Water (Waterward of MHW Line)	Wetland
In-River Transition Structure DE-15	13 ¹	0	5,742 ²	0
Vertical Injector ³	0	0	105,562	0
Jet Plow ⁴	0	0	15,768	50
NJ Shore Landing Excavation ⁵	0	0	10,838	830 ⁶
Total*	13	0	127,062	50

¹Area associated with the four proposed piles for In-River Transition Structure DE-15.

²Approximate area associated with excavation adjacent to In-River Transition Structure DE-15.

³Disturbance associated with cable burial between DE-15 excavation and NJ Shore Landing Excavation (Approx. 13,200 LF per cable).

⁴Disturbance associated with cable burial from 450 FT waterward of the NJ shoreline to the NJ shoreline.

⁵Area only to be disturbed if field conditions do not allow for Jet Plow Method.

⁶Impacts to Wetland R.

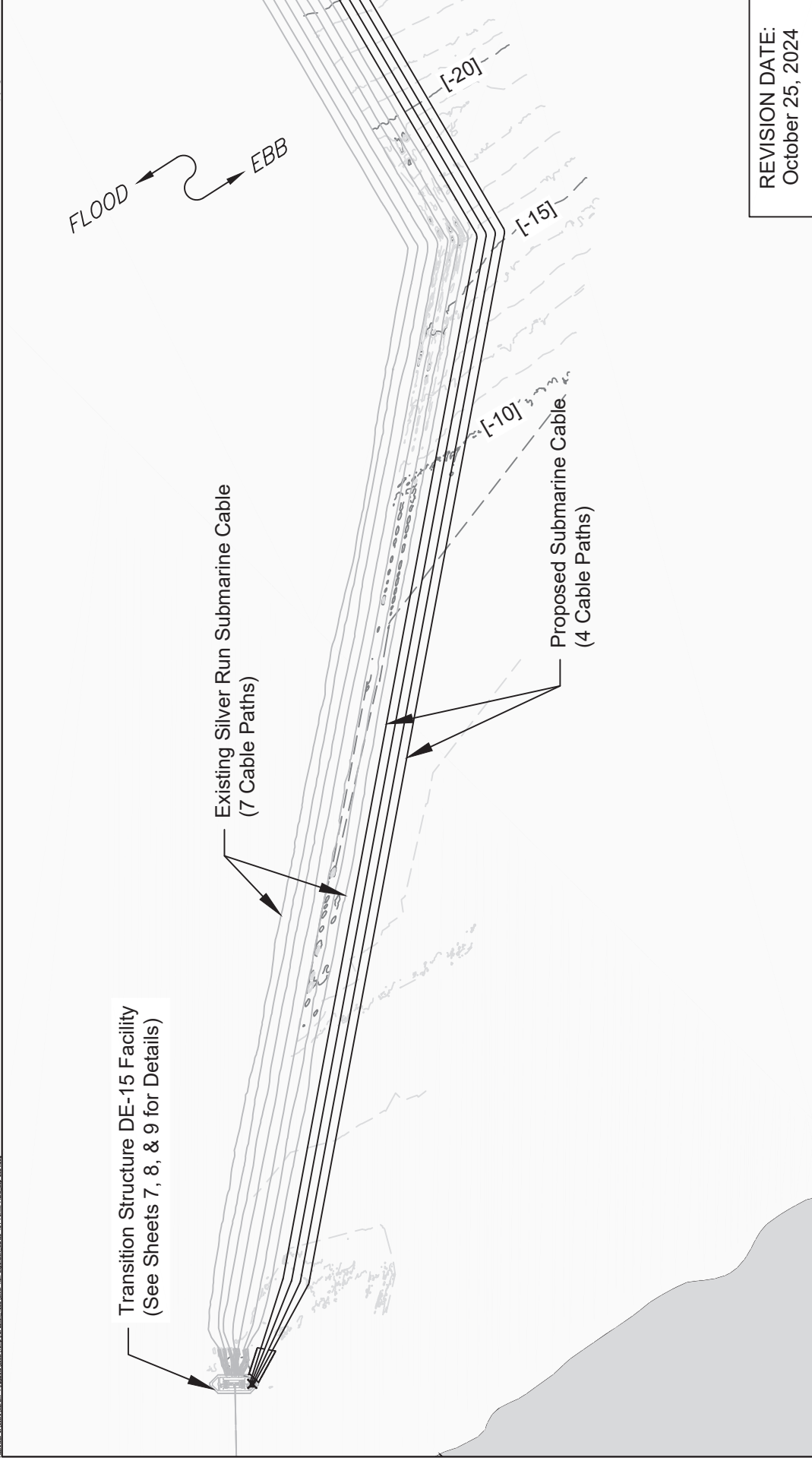
*NJ Shore Landing Excavation disturbance excluded from total due to it being considered an alternative method to the Jet Plow.

Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project		REVISION DATE: October 25, 2024
	Notes		SHEET NO. 2
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		DATE: September 27, 2024 PROJECT NO. 529393.0001



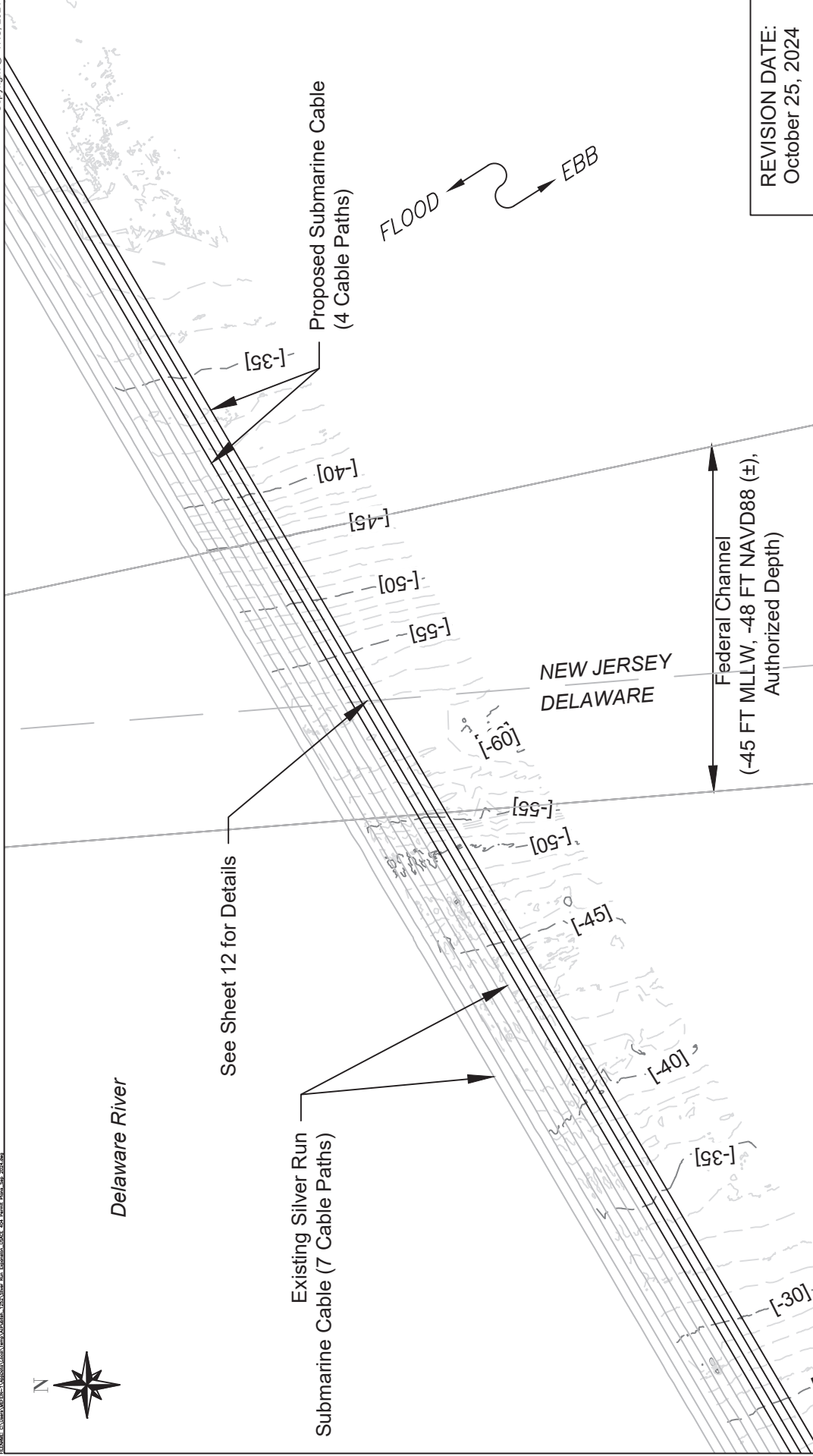
VERTICAL DATUM RELATIONSHIPS DELAWARE TRANSITION STRUCTURE				VERTICAL DATUM RELATIONSHIPS NEW JERSEY LANDELL			
MLW DATUM	MLW DATUM	MLW DATUM	MLW DATUM	MLW DATUM	MLW DATUM	MLW DATUM	NAV88 DATUM
HOWL ± 9.24				HOWL ± 9.24	HIGH TIDE ± 9.09	HIGH TIDE ± 8.91	
MHHW ± 5.84	MHHW ± 6.31	MHHW ± 6.13	MHHW ± 3.19	MHHW ± 5.84	MHHW ± 6.45	MHHW ± 6.27	MHHW ± 3.26
MHW ± 5.52	MHW ± 5.90	MHW ± 5.72	MHW ± 2.78	MHW ± 5.52	MHW ± 6.03	MHW ± 5.85	MHW ± 2.84
NAV88 ± 2.97 MSL ± 2.92 MTL ± 2.85	NAV88 ± 3.12 MTL ± 3.04	NAV88 ± 2.94 MTL ± 2.86	NAV88 ± 0.00 MTL ± -0.08	NAV88 ± 2.97 MSL ± 2.92 MTL ± 2.85	NAV88 ± 3.19 MTL ± 3.11	NAV88 ± 3.01 MTL ± 2.93	NAV88 ± 0.00 MTL ± -0.08
MLW ± 0.08 REEDY POINT, DE NOAA ID: 8551910	MLW ± 0.08 DE TRANSITION POINT DELAWARE RIVER	MLW ± 0.08 DE TRANSITION POINT DELAWARE RIVER	MLW ± -3.94 DE TRANSITION POINT DELAWARE RIVER	MLW ± 0.08 REEDY POINT, DE NOAA ID: 8551910	MLW ± 0.08 NJ LANDELL	MLW ± 0.08 NJ LANDELL	MLW ± -3.01 NJ LANDELL
E:1474834.11 N:14330387.67	E:1474834.11 N:14330387.67	E:1474834.11 N:14330387.67	E:1474834.11 N:14330387.67	E:1487571.96 N:14354572.63	E:1487571.96 N:14354572.63	E:1487571.96 N:14354572.63	E:1487571.96 N:14354572.63
Notes: 1. Tidal data from NOAA tidal benchmark at Reedy Point (8551910) [39°33.5'N; 75°34.4'W] and verified using NOAA's VDATUM model (version 3.1).				REVISION DATE: October 25, 2024			
				SHEET NO. 3			
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line				DATE: September 27, 2024			
				PROJECT NO. 529393.0001			





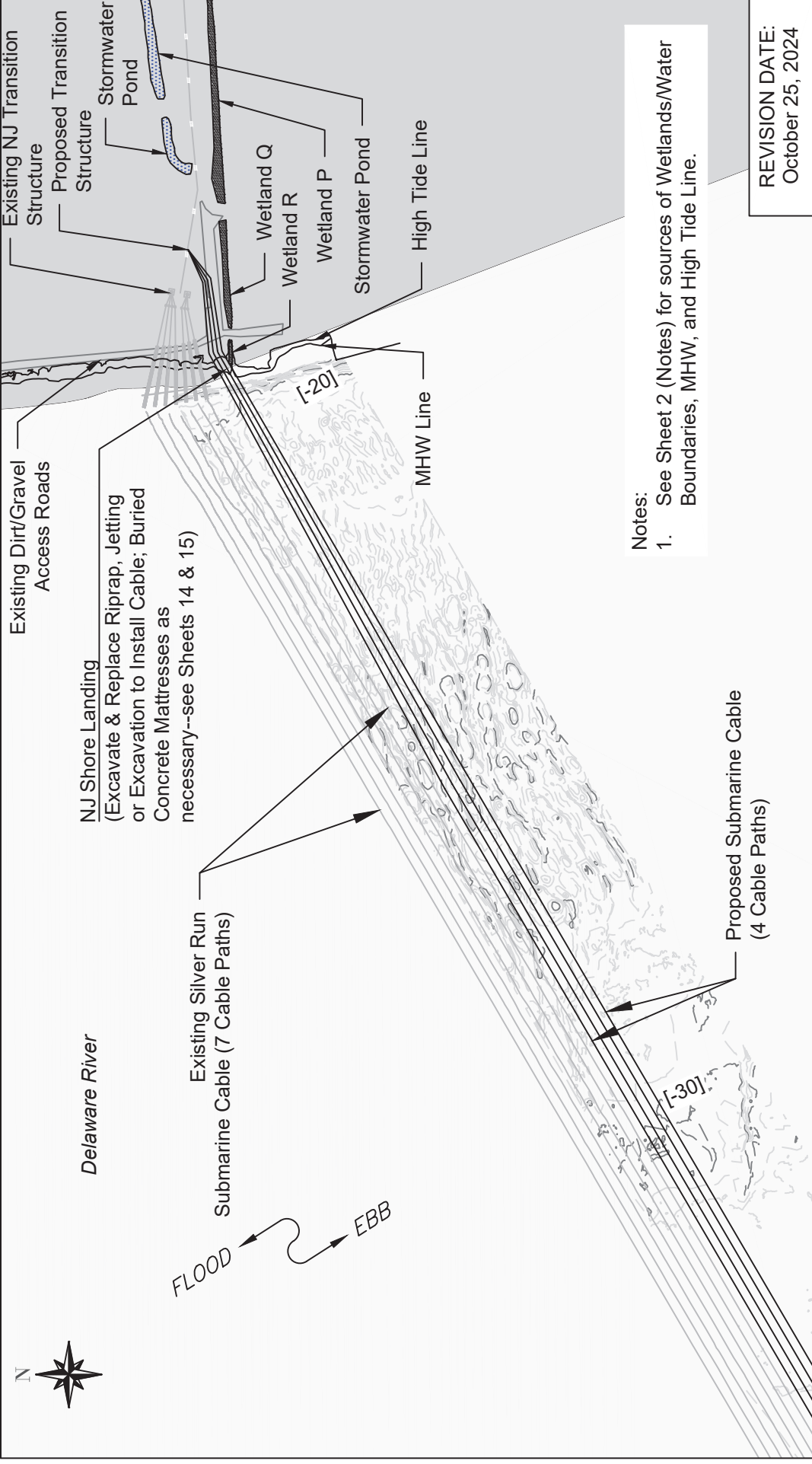
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project Submarine Cable		REVISION DATE: October 25, 2024
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		SHEET NO. 4
			DATE: September 27, 2024
			PROJECT NO. 529393.0001





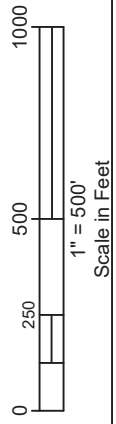
REVISION DATE: October 25, 2024		SHEET NO. 5	
DATE: September 27, 2024		PROJECT NO. 529393.0001	
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line		Silver Run Expansion Project Submarine Cable	
At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		Scale in Feet 0 250 500 1000 1" = 500"	

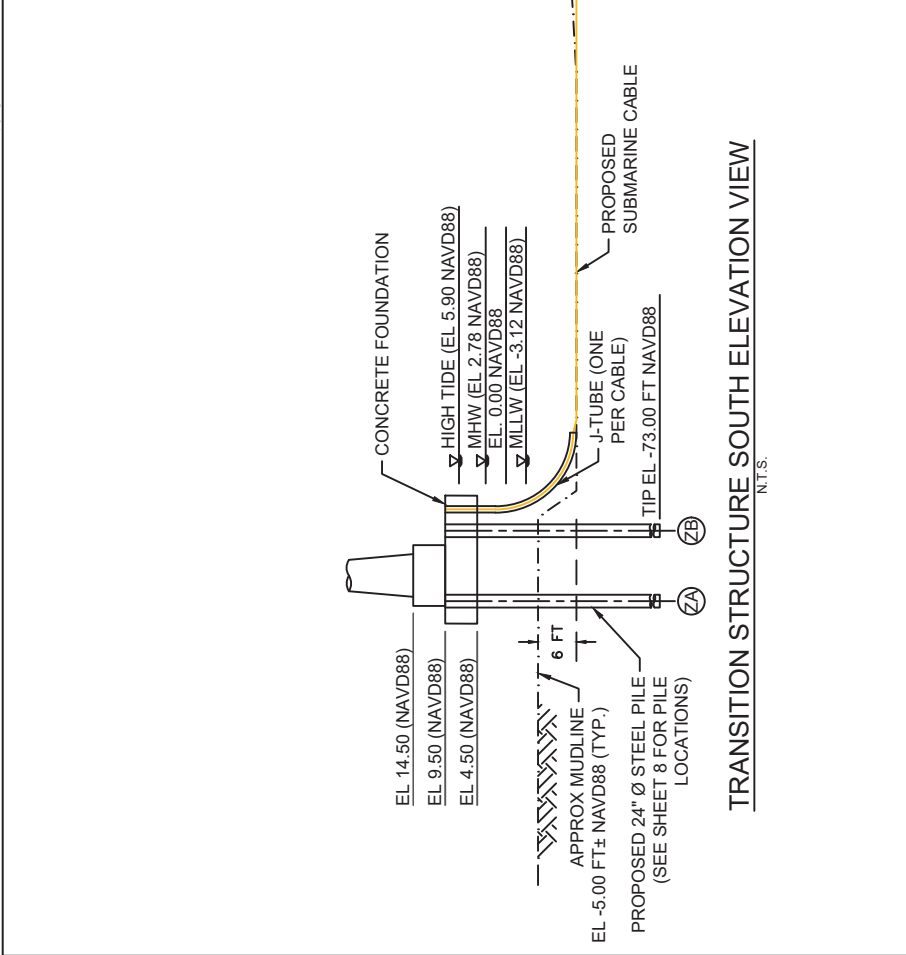
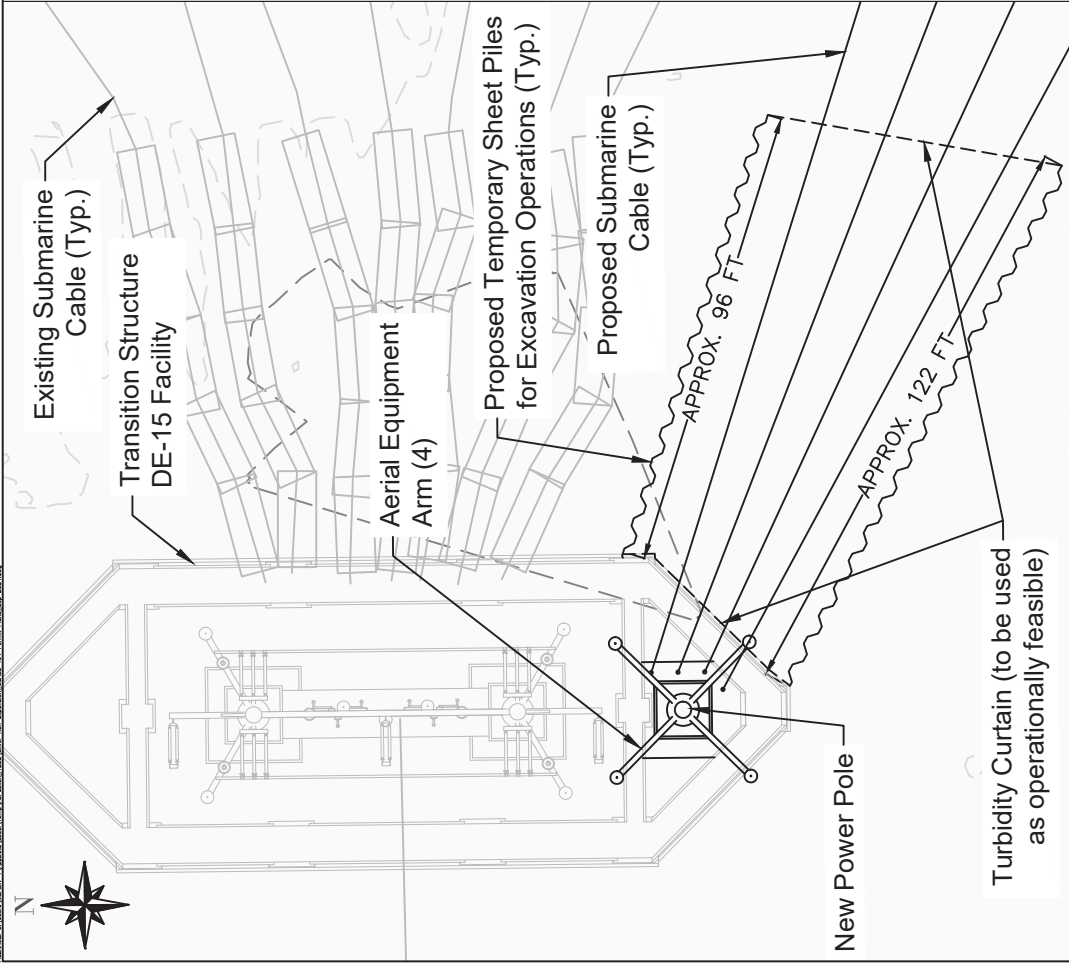




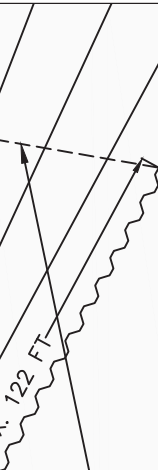
Notes:
1. See Sheet 2 (Notes) for sources of Wetlands/Water Boundaries, MHW, and High Tide Line.

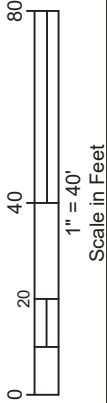
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project Submarine Cable		REVISION DATE: October 25, 2024
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		SHEET NO. 6 DATE: September 27, 2024 PROJECT NO. 529393.0001

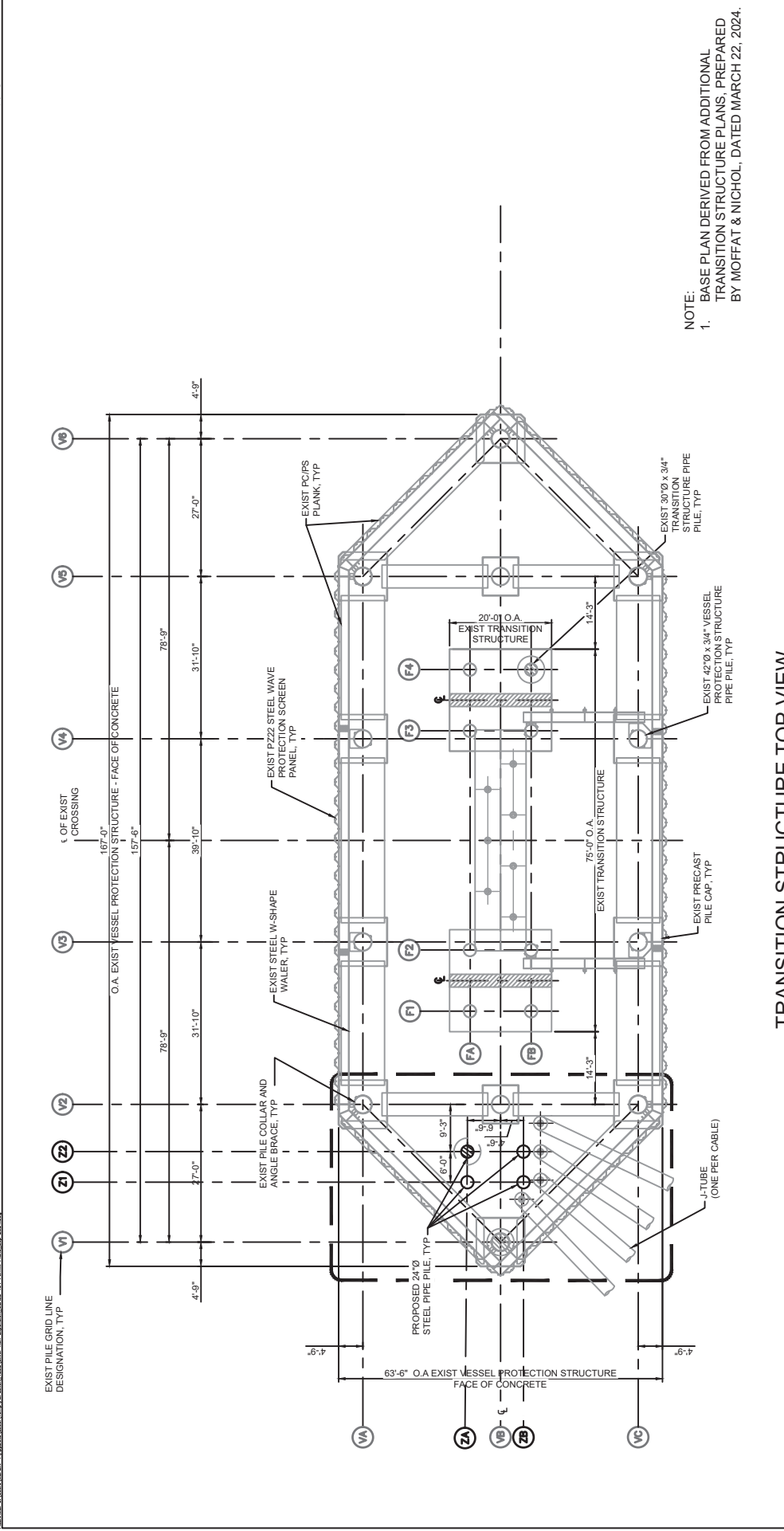




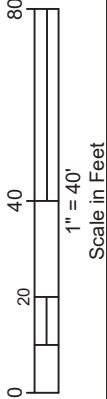
TRANSITION STRUCTURE SOUTH ELEVATION VIEW
N.T.S.

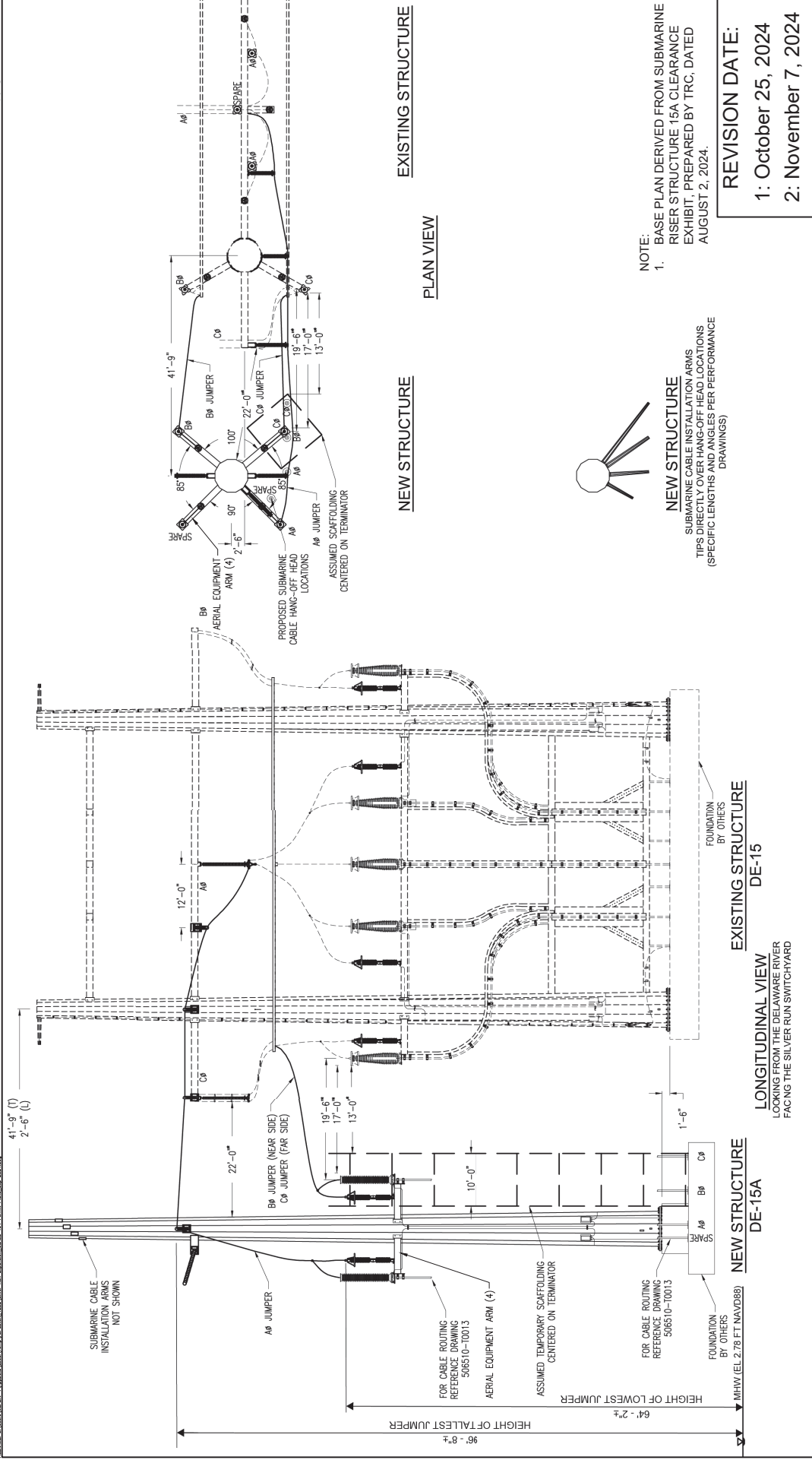
 Turbidity Curtain (to be used as operationally feasible)	Silver Run Expansion Project Delaware In-River Transition Structure Modifications		
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		
0 20 40 80  1" = 40' Scale in Feet	SHEET NO. 7		
DATE: September 27, 2024			
PROJECT NO. 529393.0001			

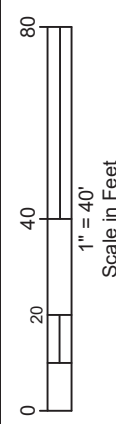




TRANSITION STRUCTURE TOP VIEW N.T.S.		REVISION DATE: October 25, 2024
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project Delaware In-River Transition Structure Modifications At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC	SHEET NO. 8
		DATE: September 27, 2024
		PROJECT NO. 529393.0001

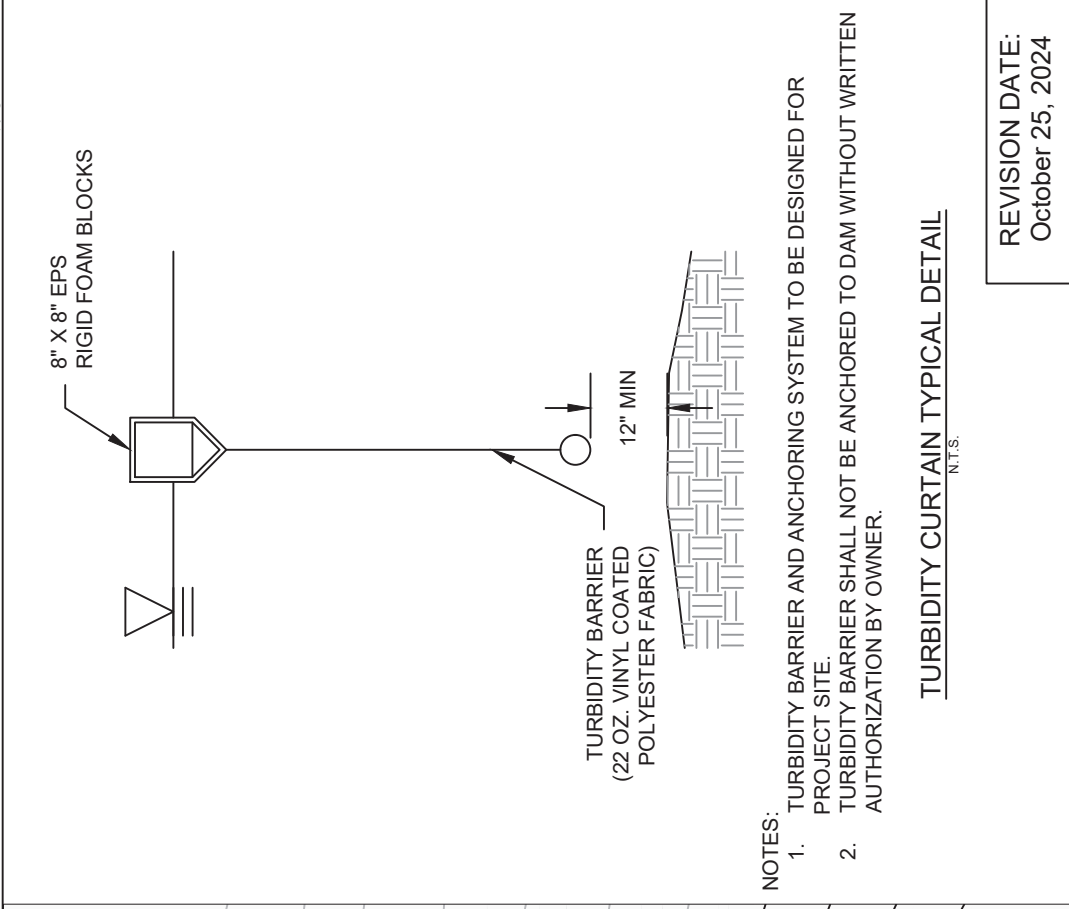
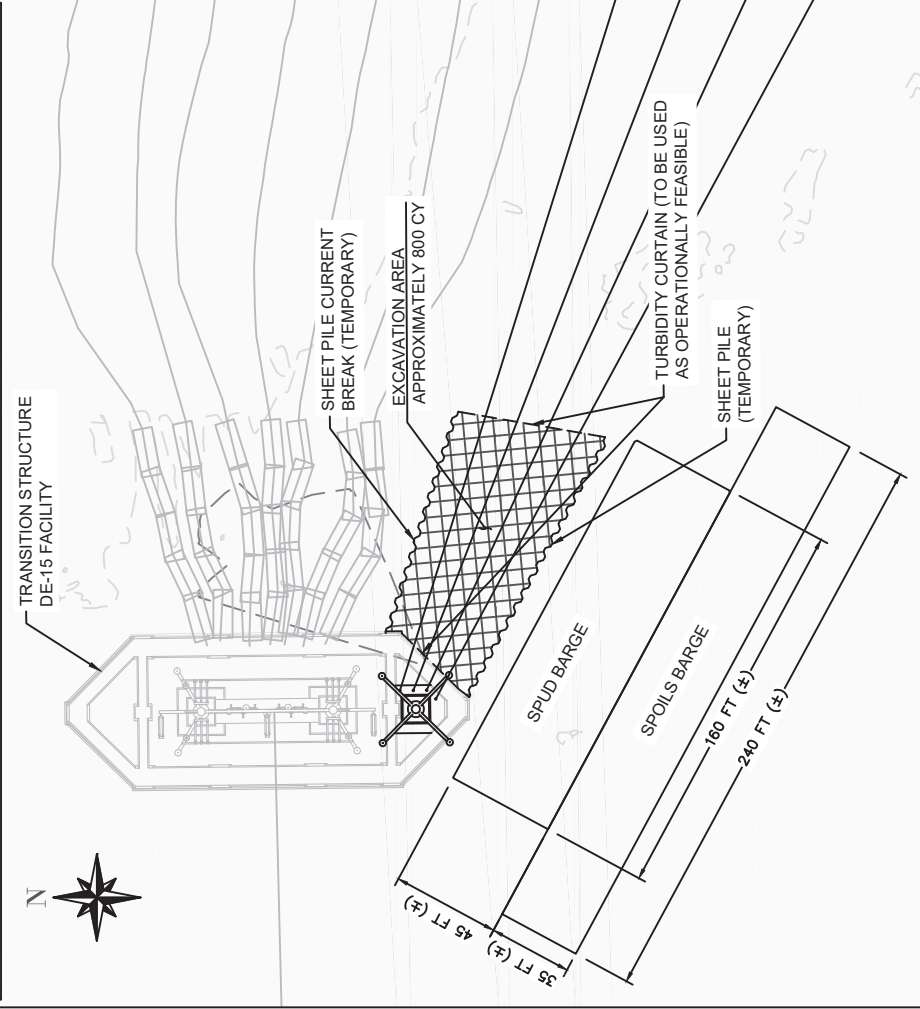




Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line		Silver Run Expansion Project Delaware In-River Transition Structure Modifications	
		At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC	
		REVISION DATE: 1: October 25, 2024 2: November 7, 2024	
		SHEET NO. 9	
		DATE: September 27, 2024	
		PROJECT NO. 529393.0001	

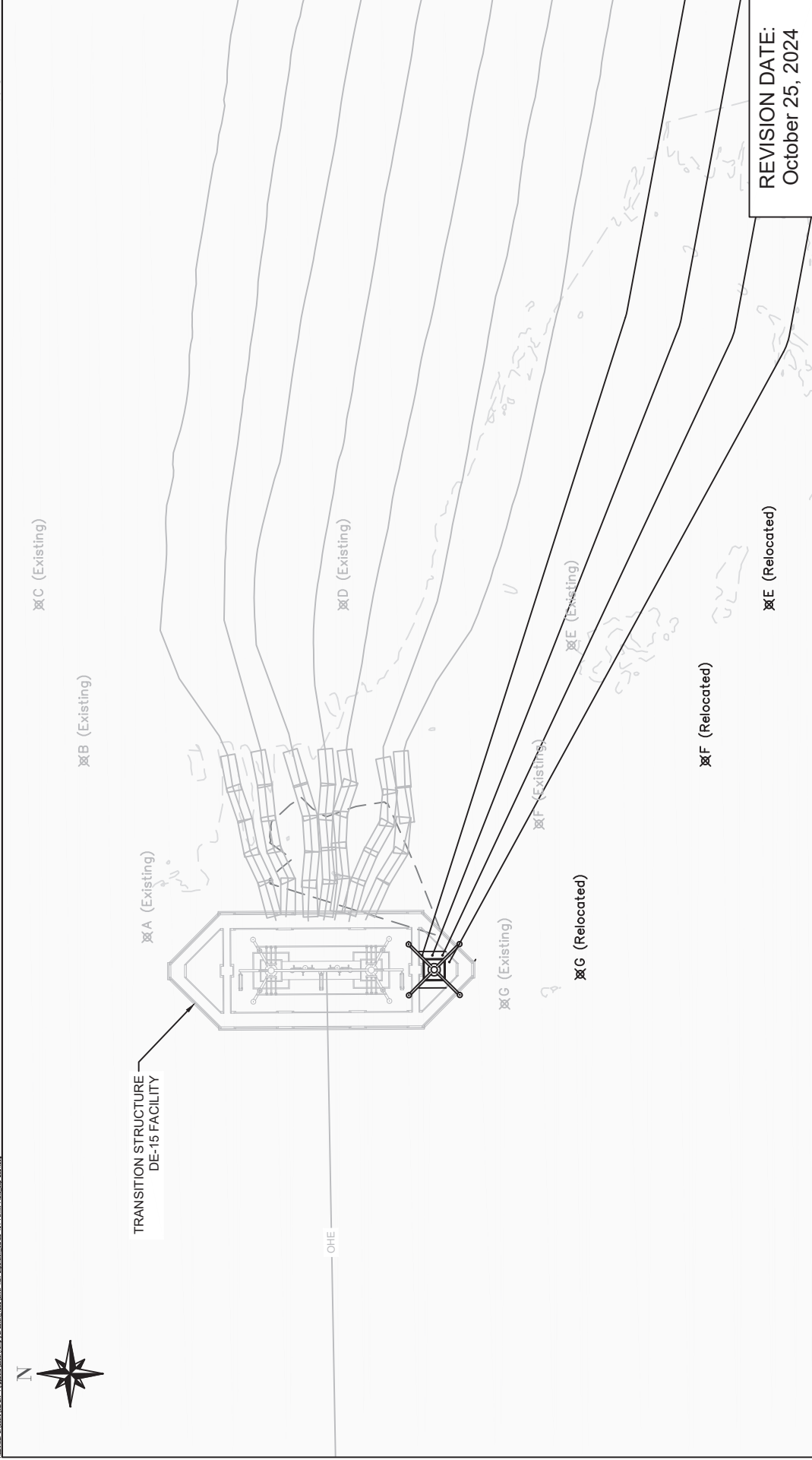


Note: Excavated material to be temporarily stored on the spoils barge, then replaced on the riverbed as cover material for the J-tubes and installed submarine cables beneath/adjacent to the in-river transition structure; area of temporary excavation to be restored to pre-construction contours.



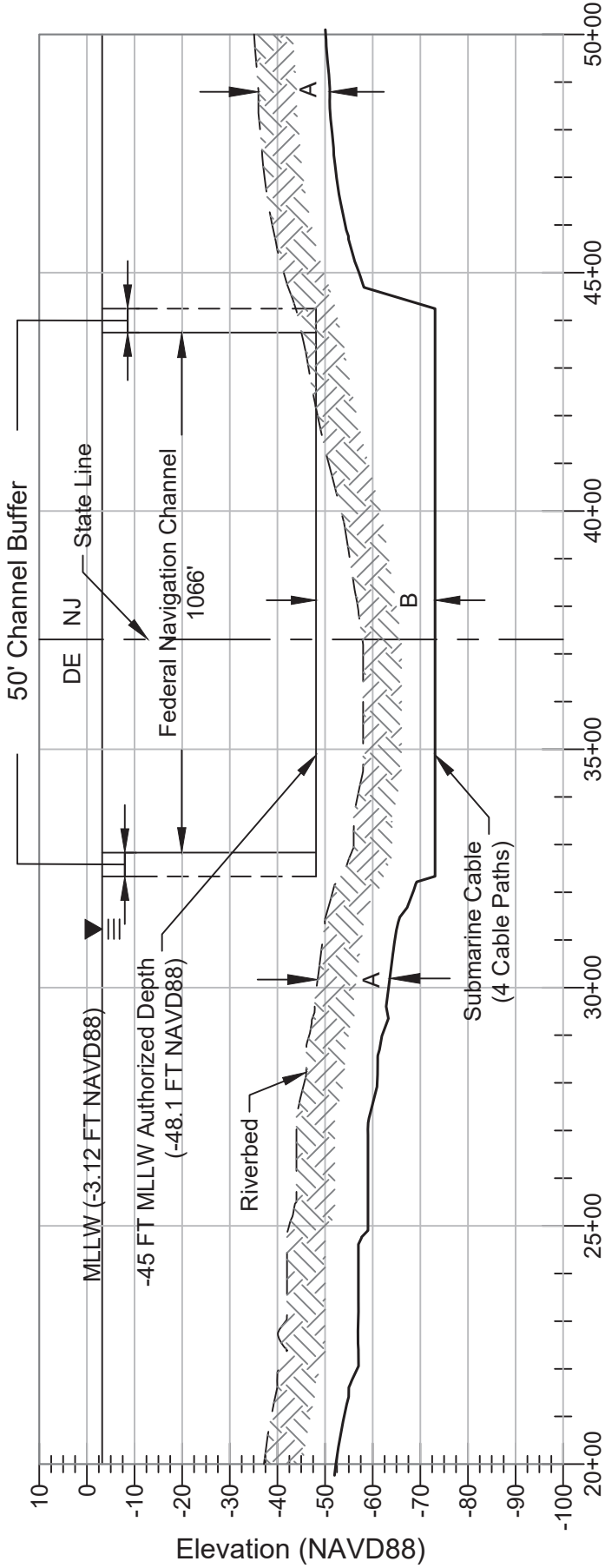
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project Excavation Plan for Delaware Transition Structure		REVISION DATE: October 25, 2024
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		SHEET NO. 10
 Scale in Feet			DATE: September 27, 2024
			PROJECT NO. 529393.0001





Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project Buoy Relocation Plan		REVISION DATE: October 25, 2024
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		SHEET NO. 11
04080160 1" = 80' Scale in Feet			DATE: September 27, 2024
			PROJECT NO. 529393.0001





0 350 700 HORIZONTAL

0 35 70 VERTICAL

SCALE IN FEET

TARGET CABLE BURIAL DEPTH

A= 15' below present bottom
B= 25' below authorized channel depth or 15' below present bottom (whichever is deeper)

REVISION DATE:

1: October 25, 2024

2: November 18, 2024

Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line

Silver Run Expansion Project Federal Channel Crossing

At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware
In: Delaware River
Applicant: Silver Run Electric, LLC

SHEET NO.

12

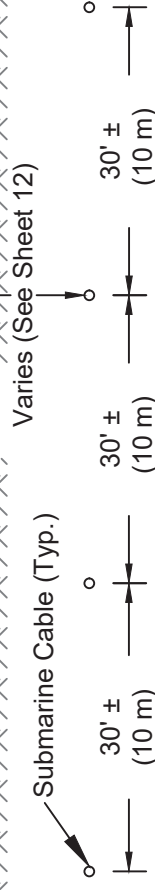
DATE:

September 27, 2024

PROJECT NO.

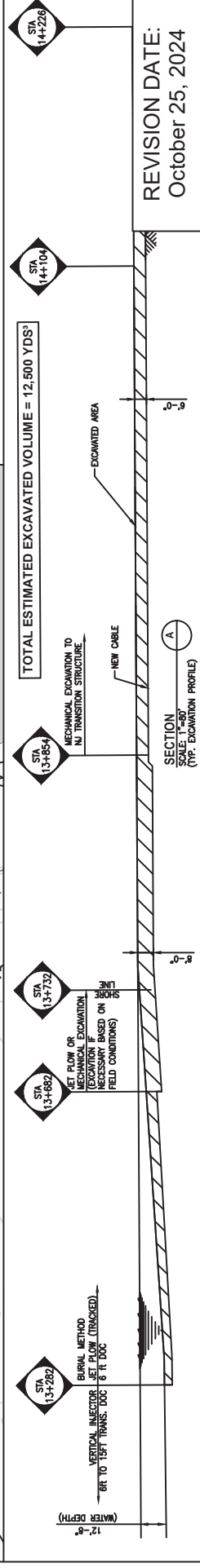
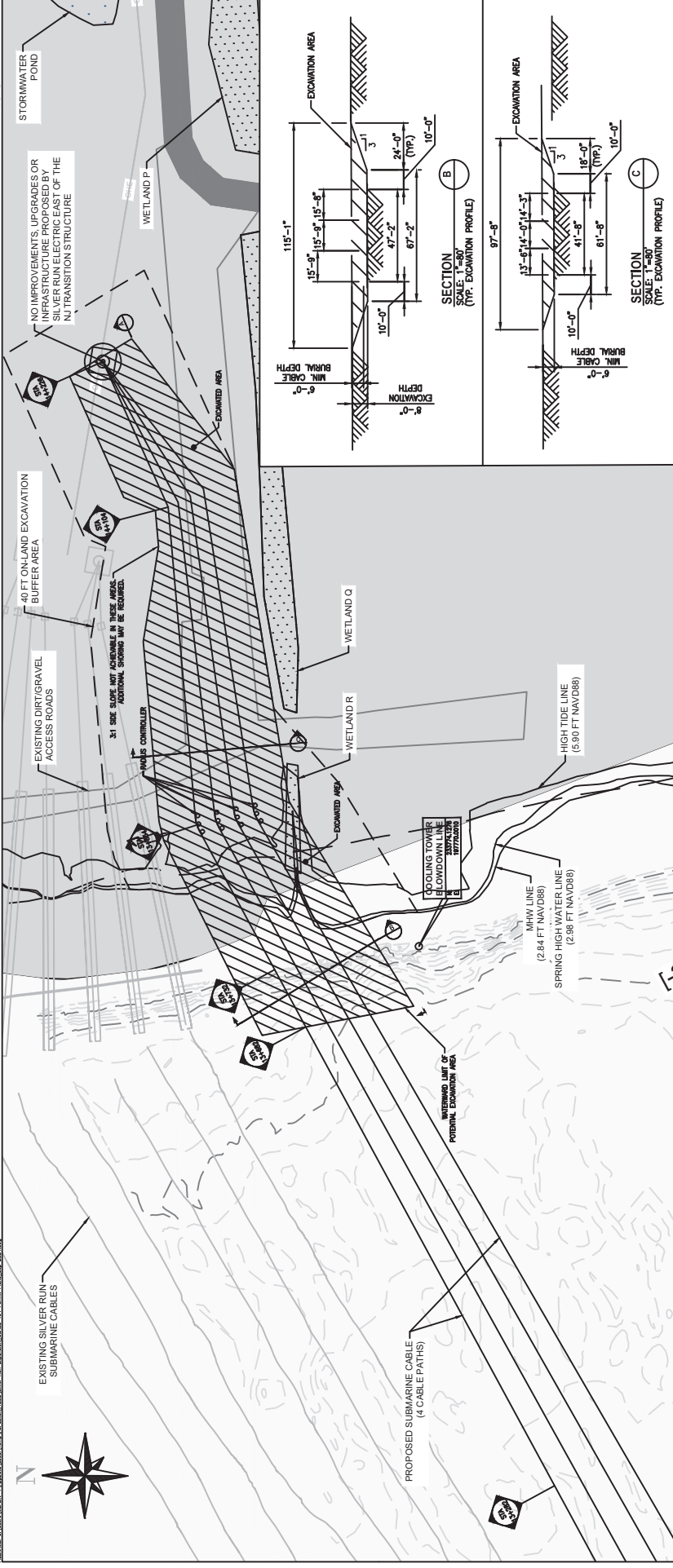
529393.0001





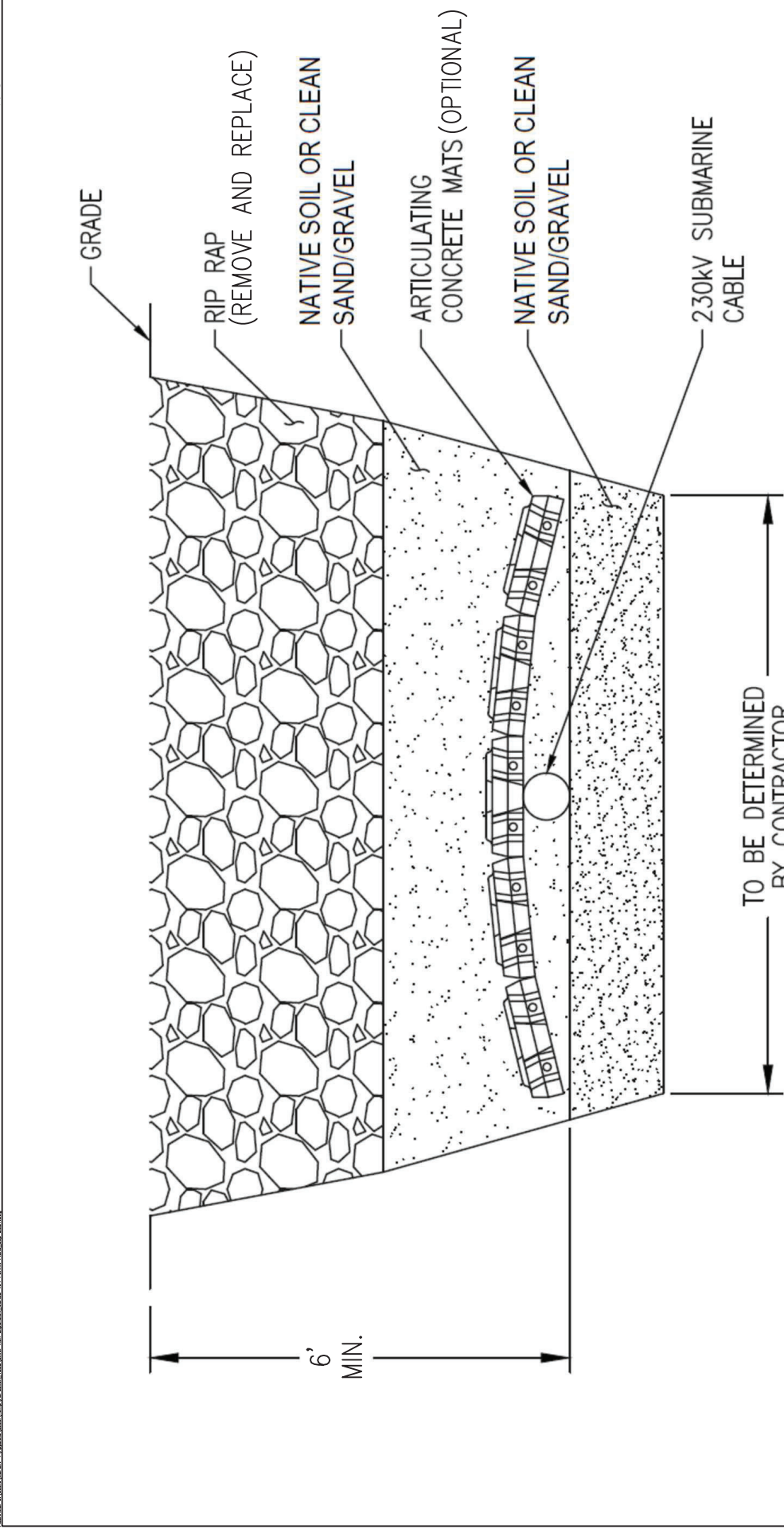
REVISION DATE: October 25, 2024			
SHEET NO. 13			
DATE: September 27, 2024			
PROJECT NO. 529393.0001			
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project Typical Submarine Cable Corridor Cross-Section		
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC		
NOT TO SCALE			





Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line <
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Note: Typical details provided by Silver Run Electric, LLC.		REVISION DATE: October 25, 2024
Purpose: Construct, Interconnect, and Commission Upgrades to the Existing Silver Run Transmission Line	Silver Run Expansion Project	
	Typical NJ Shore Landing Detail	
	At: Lower Alloways Creek Township, New Jersey and New Castle County, Delaware In: Delaware River Applicant: Silver Run Electric, LLC	
NOT TO SCALE	SHEET NO. 15	
	DATE: September 27, 2024	
		PROJECT NO. 529393.0001

