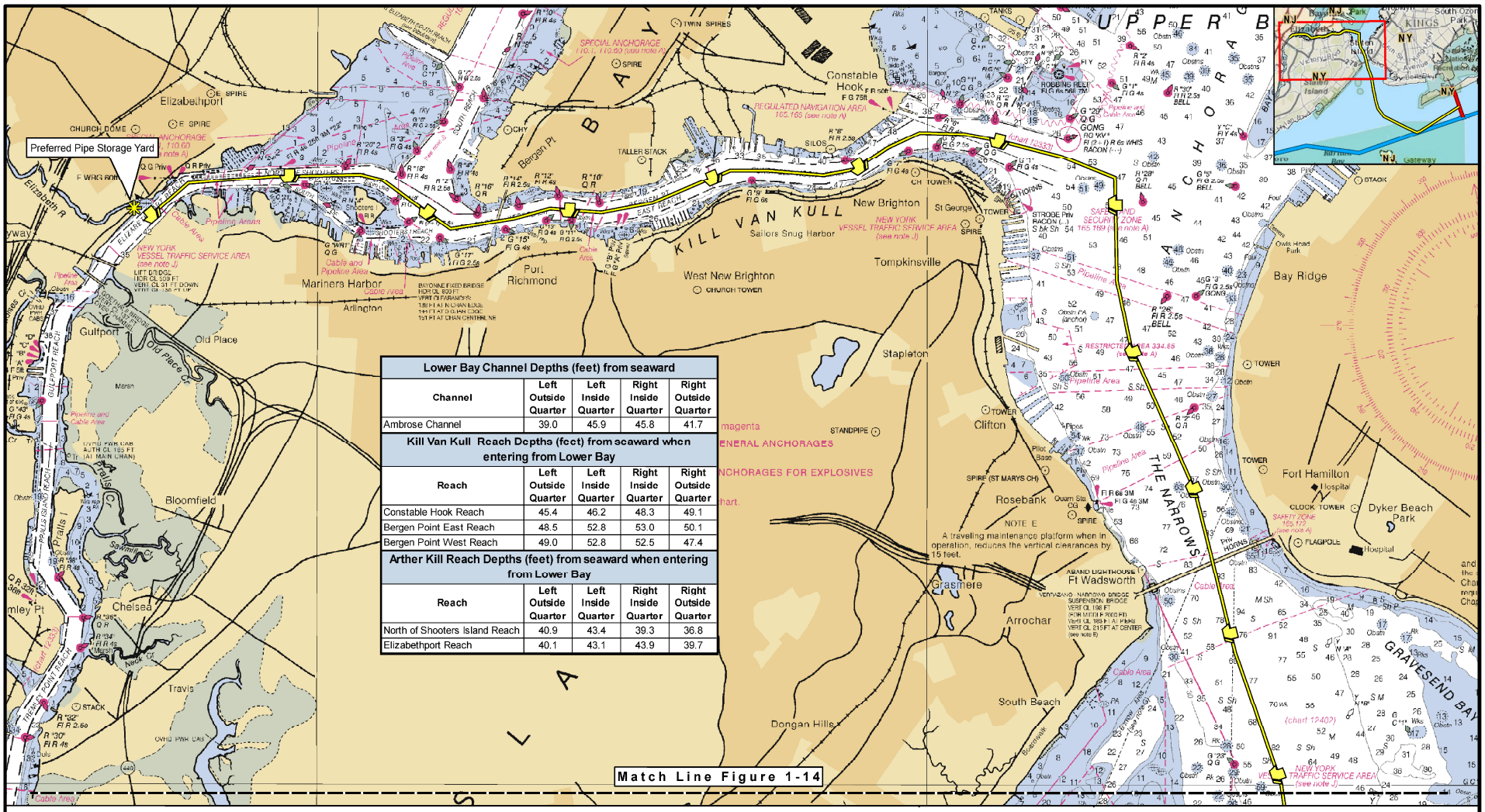
APPENDIX C

PIPE YARD, PIPE TRANSPORT ROUTE, AND HORIZONTAL DIRECTIONAL DRILL ALIGNMENT FIGURES

- **Figure C-1A Pipe Yard and Pipe Transport Route**
- **Figure C-1B Pipe Transport Route**
- **Figure C-2 Horizontal Directional Drill Alignment**

Figure C-1A

Pipe Yard and Pipe Transport Route



Lower Bay Channel Depths (feet) from seaward				
Channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter
Ambrose Channel	39.0	45.9	45.8	41.7

Kill Van Kull Reach Depths (feet) from seaward when entering from Lower Bay				
Reach	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter
Constable Hook Reach	45.4	46.2	48.3	49.1
Bergen Point East Reach	48.5	52.8	53.0	50.1
Bergen Point West Reach	49.0	52.8	52.5	47.4

Arther Kill Reach Depths (feet) from seaward when entering from Lower Bay				
Reach	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter
North of Shooters Island Reach	40.9	43.4	39.3	36.8
Elizabethport Reach	40.1	43.1	43.9	39.7

Preferred Pipe Storage Yard

Preferred Pipeline Route

HDD Exit

Preferred Pipeline Construction Materials Shipping Route (24.8 miles)

Existing 26" Lower NY Bay Lateral

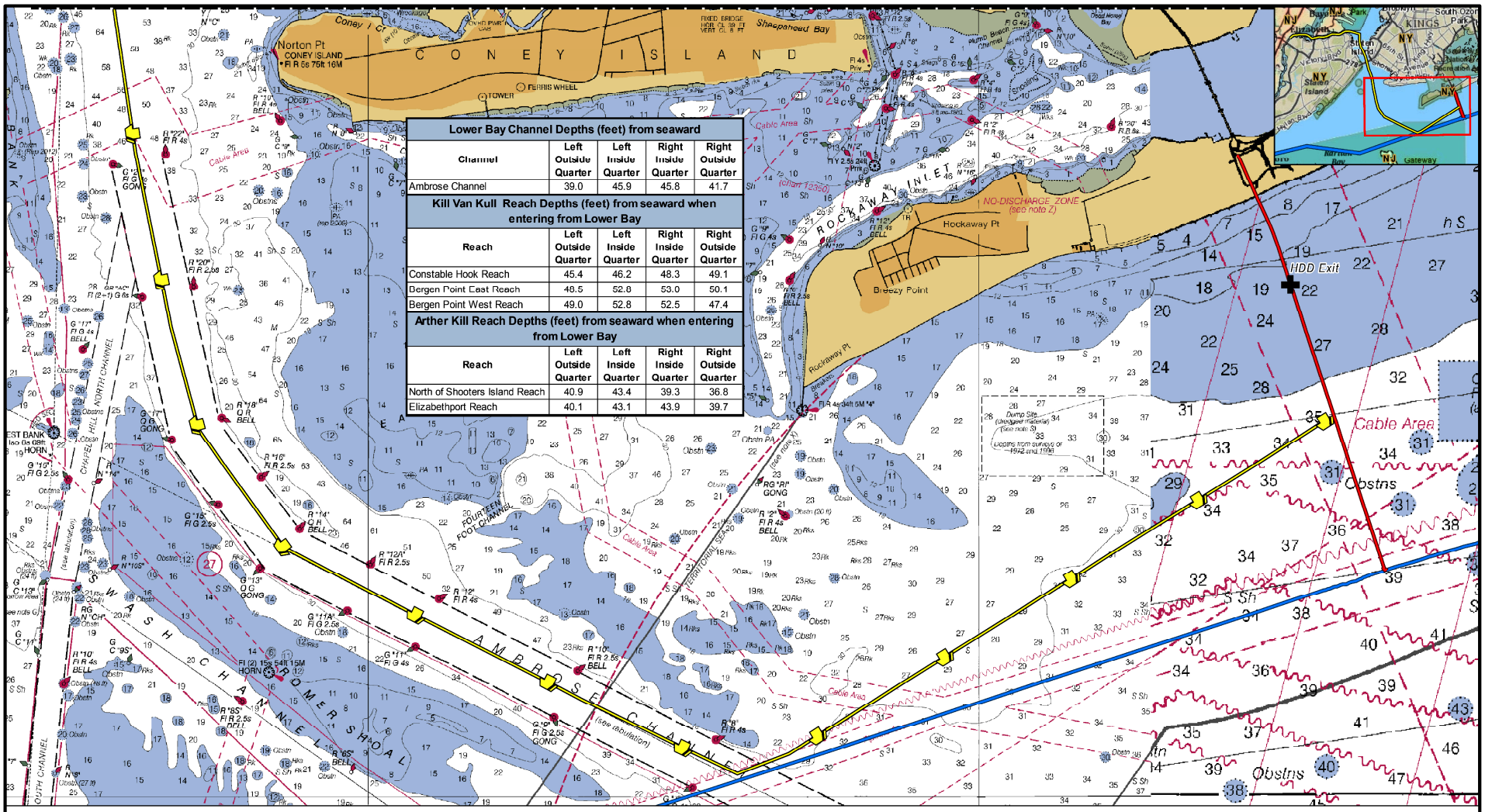
Appendix C-1A

Rockaway Delivery Lateral and Northeast Connector Projects

Pipe Yard and Pipe Transport Route for the Rockaway Delivery Lateral

Figure C-1B

Pipe Transport Route



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Reach	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter
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Elizabethport Reach	40.1	43.1	43.9	39.7

Preferred Pipe Storage Yard

Preferred Pipeline Route

HDD Exit

Preferred Pipeline Construction Materials Shipping Route (24.8 miles)

Existing 26" Lower NY Bay Lateral

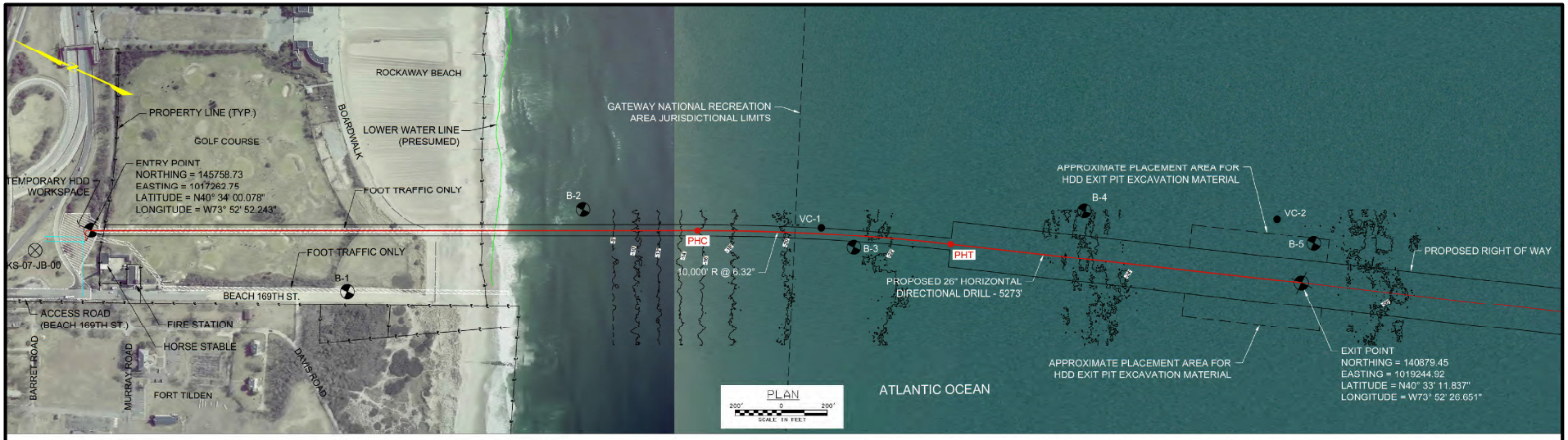
Appendix C-1B

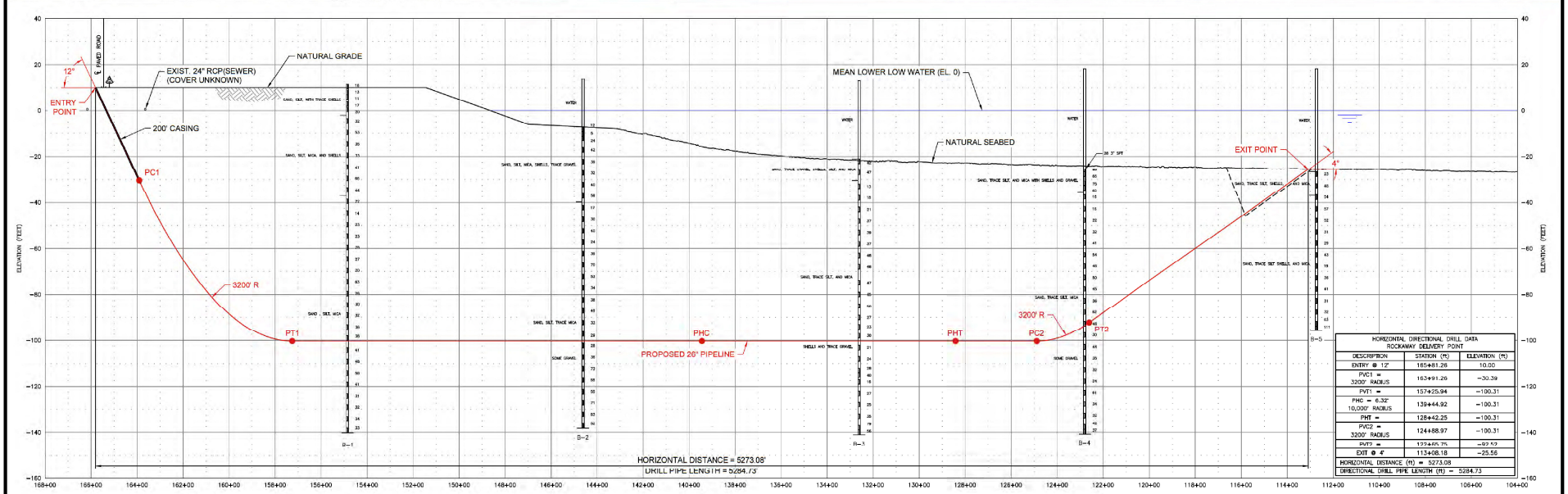
Rockaway Delivery Lateral and Northeast Connector Projects

Pipe Transport Route for the Rockaway Delivery Lateral

Figure C-2

Horizontal Directional Drill Alignment





HORIZONTAL DIRECTIONAL DRILL DATA
ROCKAWAY DELIVERY POINT

DESCRIPTION	STATION (ft)	ELEVATION (ft)
ENTRY @ 12°	165+81.26	10.00
PVC1 = 3200' RADIUS	163+91.26	−30.39
PVT1 =	157+25.94	−100.31
PHC = 6.32° 10,000' RADIUS	139+44.92	−100.31
PHT =	128+42.25	−100.31
PVC2 = 3200' RADIUS	124+88.97	−100.31
PVT2 =	122+55.75	−92.52
EXIT @ 4°	113+08.18	−25.56
HORIZONTAL DISTANCE (ft) = 5273.08		
DIRECTIONAL DRILL PIPE LENGTH (ft) = 5284.73		

Legend

- BORING LOCATION
- BORING LOCATION COMPLETED UNDER DIFFERENT SCOPE
- VIBROCORE LOCATION
- HORIZONTAL DIRECTIONAL DRILL ENTRY/EXIT

Appendix C-2

Rockaway Delivery Lateral and Northeast Connector Projects

Horizontal Directional Drill Alignment for the Rockaway Delivery Lateral