

*For Indicative, Illustrative, Contemplative Purposes Only*

# Gateway Development Commission Contract Packaging Forum

April 26, 2023

GATEWAY PROGRAM



***Information presented in this briefing relates to future procurements and is for indicative, illustrative, and contemplative purposes only.***

# Agenda

GDC Overview

Preliminary Contract Packaging Plan

Hudson River Ground Stabilization

Palisades Tunnel

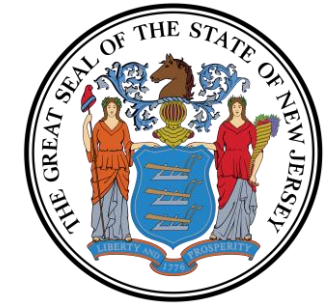
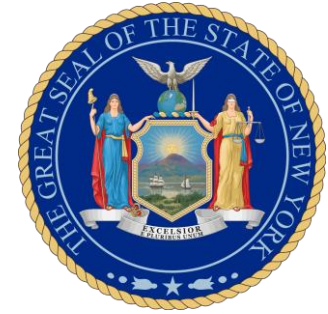
Manhattan Tunnel

Hudson Tunnel

Feedback and Questions

# Gateway Development Commission (GDC) – Who We Are

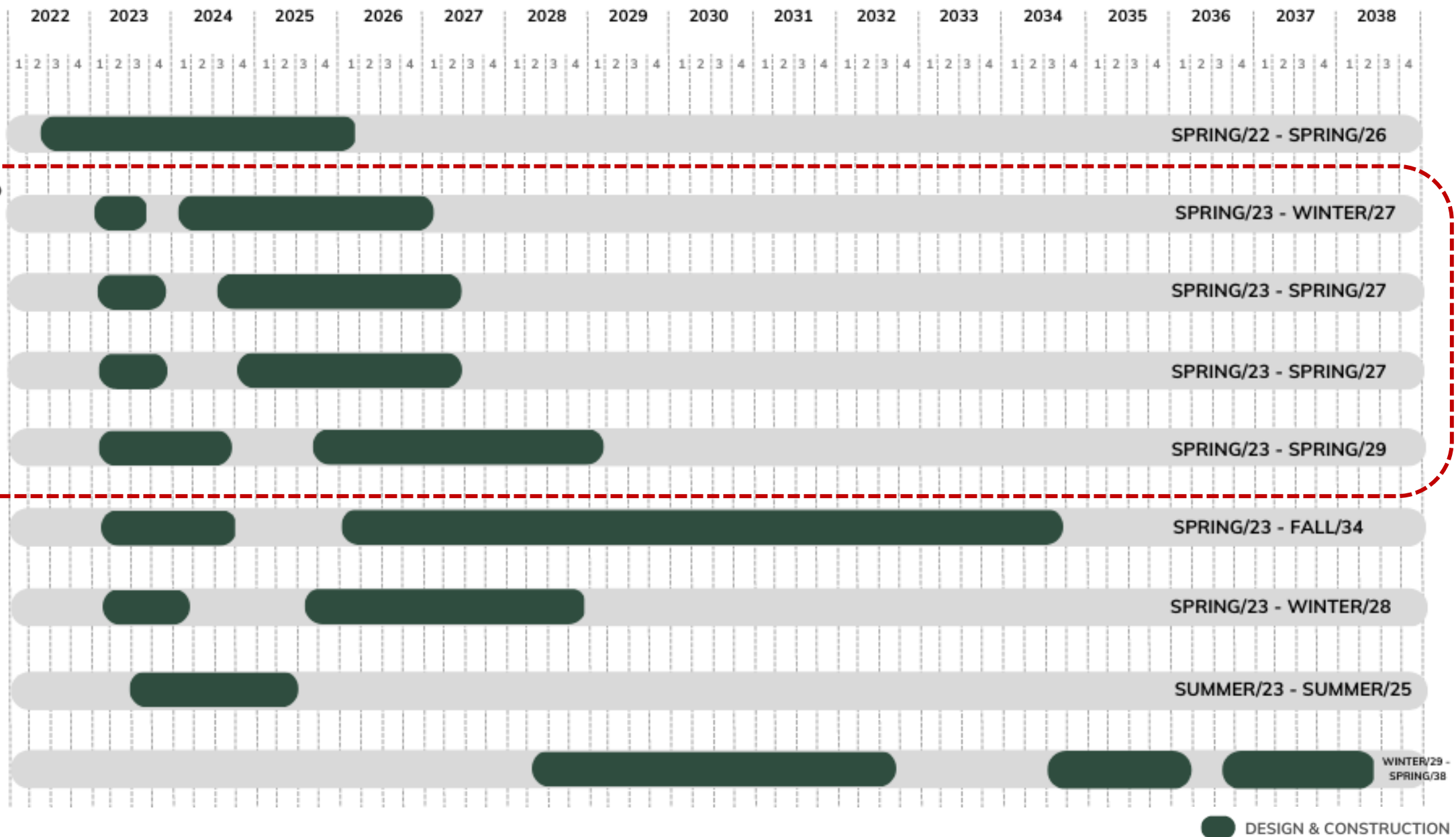
- Bi-State entity in charge of delivering the most urgent infrastructure project in the nation
  - 7 Member Commission
  - 3 New York – 3 New Jersey – 1 Amtrak
  - Oversees the development of the Gateway Program
- GDC now serves as Project Sponsor for Hudson Tunnel Project
- New leadership joined in Summer 2022 to rapidly advance the project and secure necessary federal funding
- Staffing, budgeting demonstrating technical, legal and financial capacity



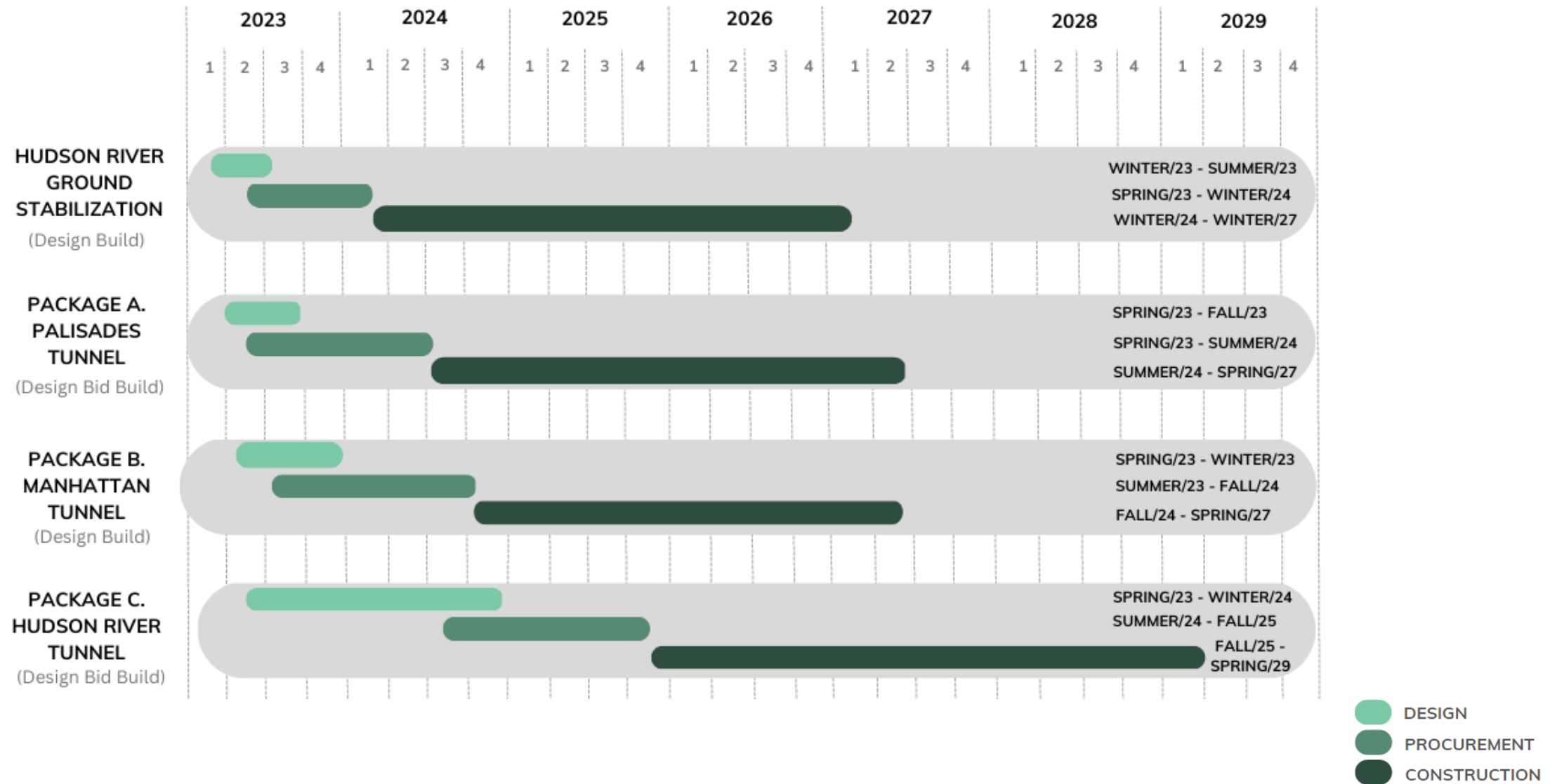
# Hudson Tunnel Project - Preliminary Contract Packaging Plan\*

<b>Package 0</b>	Hudson Yards Concrete Casing – Section 3
<b>Package EA-1</b>	Hudson River Ground Stabilization
<b>Package 1A</b>	Palisades Tunnel
<b>Package 1B</b>	Manhattan Tunnel
<b>Package 1C</b>	Hudson River Tunnel
<b>Package 2</b>	Palisades Tunnel Internal Concrete Hudson River Tunnel Internal Concrete 12 <sup>th</sup> Ave. Fan Plant & Manhattan Tunnel Internal Concrete A-Yard Work & 10 <sup>th</sup> Ave. Cut & Cover Tunnel Railroad Systems & NJ Surface Trackwork Fan Plan MEP & Electrical Substation Installation
<b>Package 3</b>	NJ Surface Alignment
<b>Package 4</b>	Tonnelle Ave. Overhead Bridge & Utility Relocation
<b>Package 5</b>	North River Tunnel Rehabilitation

*\*Subject to change*



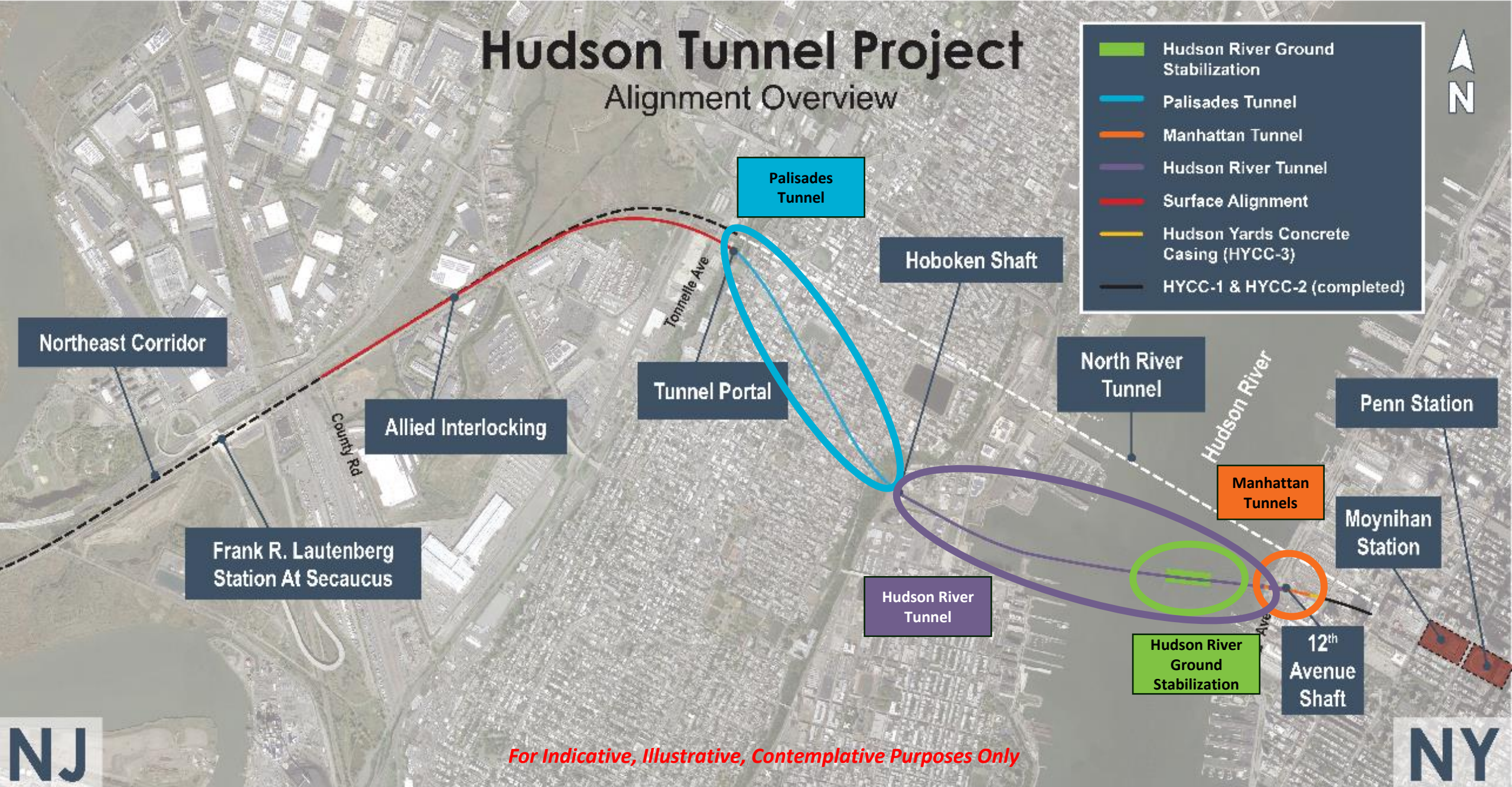
# Hudson Tunnel Project – Planned Near-Term Procurements





# Hudson Tunnel Project

## Alignment Overview



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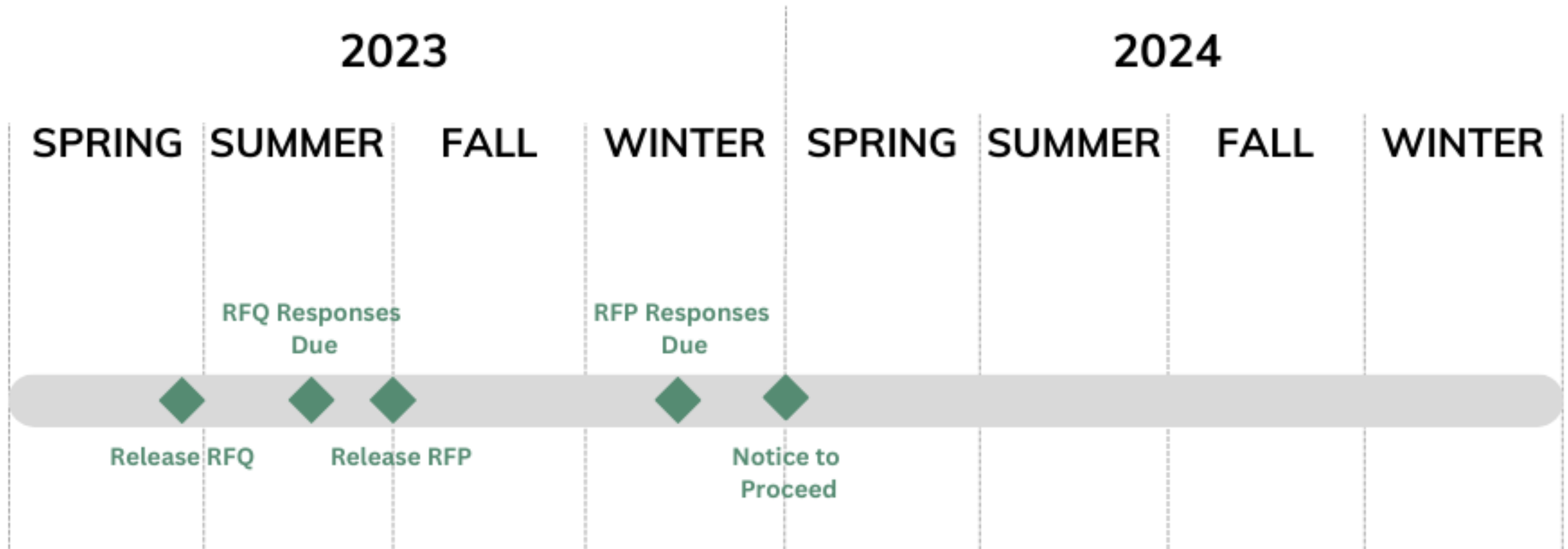
NJ

NY



# **Package EA1: Hudson River Ground Stabilization**

# Hudson River Ground Stabilization - Early Works Procurement Timeline





# Early Action Work

## Hudson River Ground Stabilization

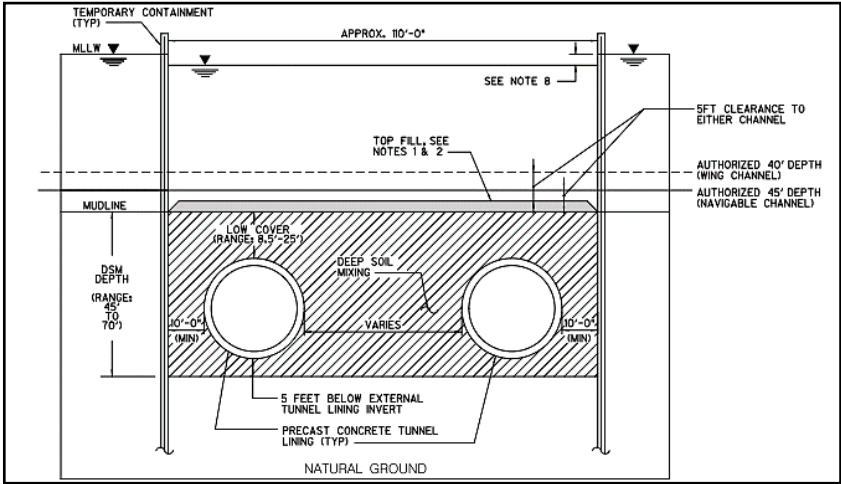
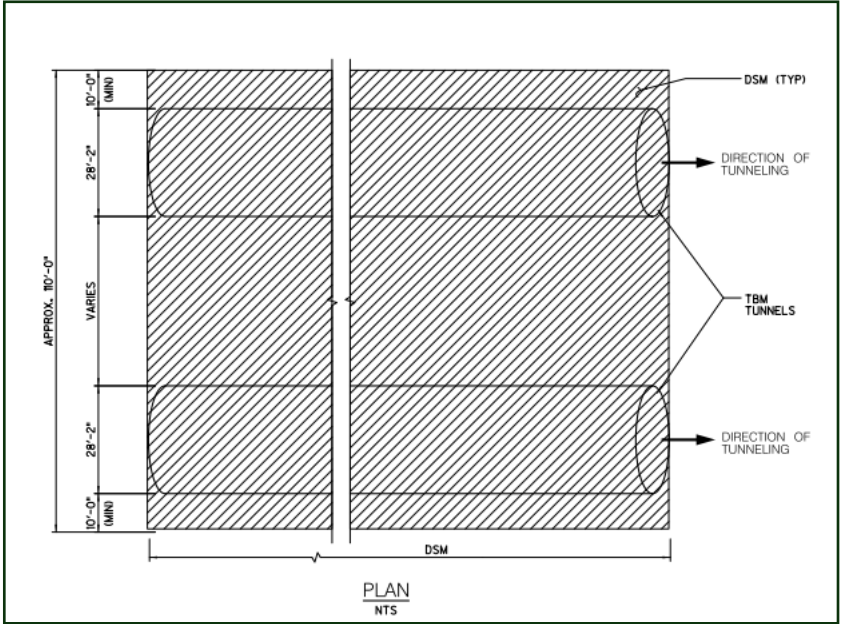
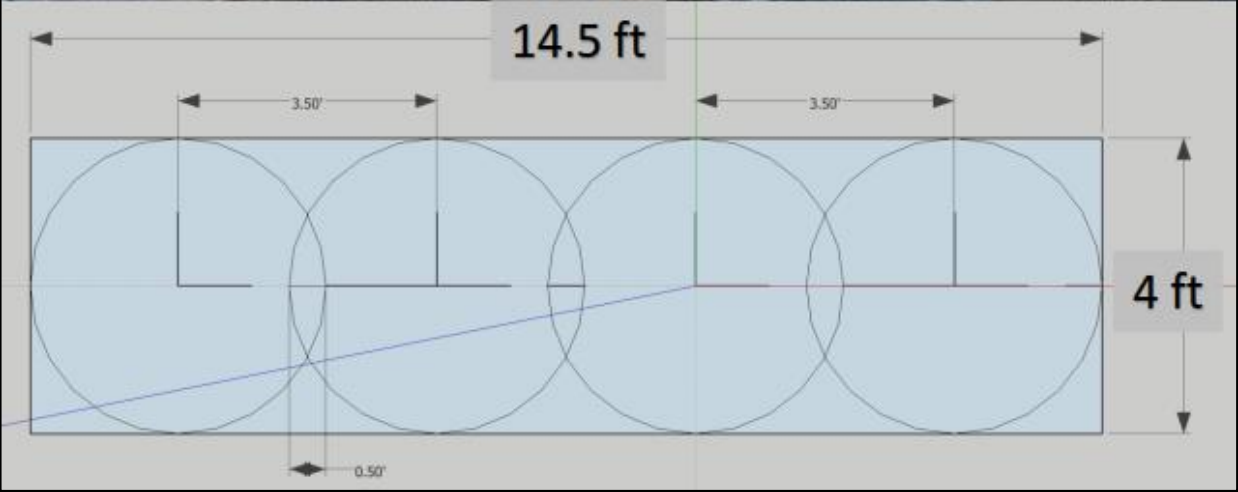


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# Hudson River Ground Stabilization

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# Hudson River Ground Stabilization

## *Key Elements of Work*

1. Geophysical and bathymetric survey
2. Removal of obstructions
3. Design of containment system and ground improvement methodology
4. Demonstration test section – Season 1
5. Containment system installation and removal
6. Ground improvement execution
7. Verification of ground improvement

# Hudson River Ground Stabilization

## *Schedule Criticality*

- US Army Corps of Engineers Permit Restrictions - cofferdam installation and removal to occur only between the months of July and January. Comply with all environmental regulations and time ranges to protect fish spawning and wildlife.
- All work to be completed by January 2027 (critical prior to Hudson River Tunnel boring activities (Package 1C) scheduled to commence in 2nd Quarter 2027.)
- Coordination with US Coast Guard to maintain shipping traffic, local events schedule, and to secure mooring locations
- First season critical field work (July 2024 – January 2025) includes:
  - Geophysical and bathymetric survey,
  - Obstruction removal, and
  - Demonstration test section



# Hudson River Ground Stabilization

## *Overview and Potential and Contemplated RFQ Evaluation Criteria*

- Design-Build, best value procurement
- Request For Qualifications (RFQ) process to shortlist qualified bidders. Maximum 5 bidders to be shortlisted.
- Evaluation criteria to qualify for shortlist includes: (criteria used to score and rate responses)
  - Legal Standing (pass/fail)
  - Financial Strength (pass/fail)
  - Backlog and Capacity (pass/fail)
  - Vendor Responsibility (pass/fail)
  - Key Personnel (quality)
  - Respondent Experience and Past Performance (quality)
    - Marine Experience / Ground Improvement Experience
  - Organization & Management Approach (quality)
  - Technical Understanding (quality)

# Hudson River Ground Stabilization

## *Potential and Contemplated Stipend Program*

- The Gateway Development Commission intends to utilize a stipend program for this procurement.
- Staff will present program structure to the GDC Board of Commissioners for a potential program.
- Additional details to be included in RFQ to be issued May 2023.

# **RFP: Hudson River Ground Stabilization**

## *RFP Potential and Contemplated Evaluation Criteria Factors*

**Overall RFP weighting - Technical (60%) vs. Price (40%)**

### **Technical Factors:**

#### Overall Project Objectives:

- Safety
- Schedule Certainty
- Technical Reliability
- Price Certainty
- Key Personnel
- Project Understanding

#### Specific Project Approach Criteria:

- Methodology for Containment System Development and Staging
- Product Reliability for Soil Improvement Methods
- Implementation and Staging Plan
- Redundancy to Assure Schedule Certainty
- Innovative Approach to Testing and Verification
- Sustainability in Construction



## **Hudson River Ground Stabilization – Insurance and Bonding**

### *Potential and Contemplated for Feedback Purposes*

- Utilize Contractor Controlled Insurance Program (CCIP) including:
  - Builders Risk with option for GDC to procure (100% of the replacement cost)
  - CCIP including Commercial General Liability, Workers Compensation, Employers Liability and Excess Liability (\$100,000,000 per occurrence, \$100,000,000 aggregate)
  - Contractors Pollution Liability (\$25,000,000)
  - Automobile Liability (\$10,000,000)
  - Railroad Protective Liability (\$5,000,000 per occurrence, \$10,000,000 aggregate)
  - Contractors Equipment (limit acceptable to GDC)
  - Aircraft/Watercraft Liability, if applicable (\$10,000,000)
  - Marine Cargo, if applicable (replacement cost)
  - Professional Liability (DB & Lead ENG firm: \$20,000,000, project specific min.: \$25,000,000)
- Require 100% performance and payment bonds for Hudson River Ground Stabilization package

# **DBE Opportunities (Hudson River Ground Stabilization)**

## GDC: Diversity, Equity, and Inclusion



Committed to diversity, equity and inclusion in procurements



Provide meaningful opportunities for partnerships



Encourage all individuals and businesses open access to opportunities and serious engagement within DBE areas of experience and expertise



Expect proposers to take all necessary and reasonable steps to ensure DBE participation and performance of work on these contracts



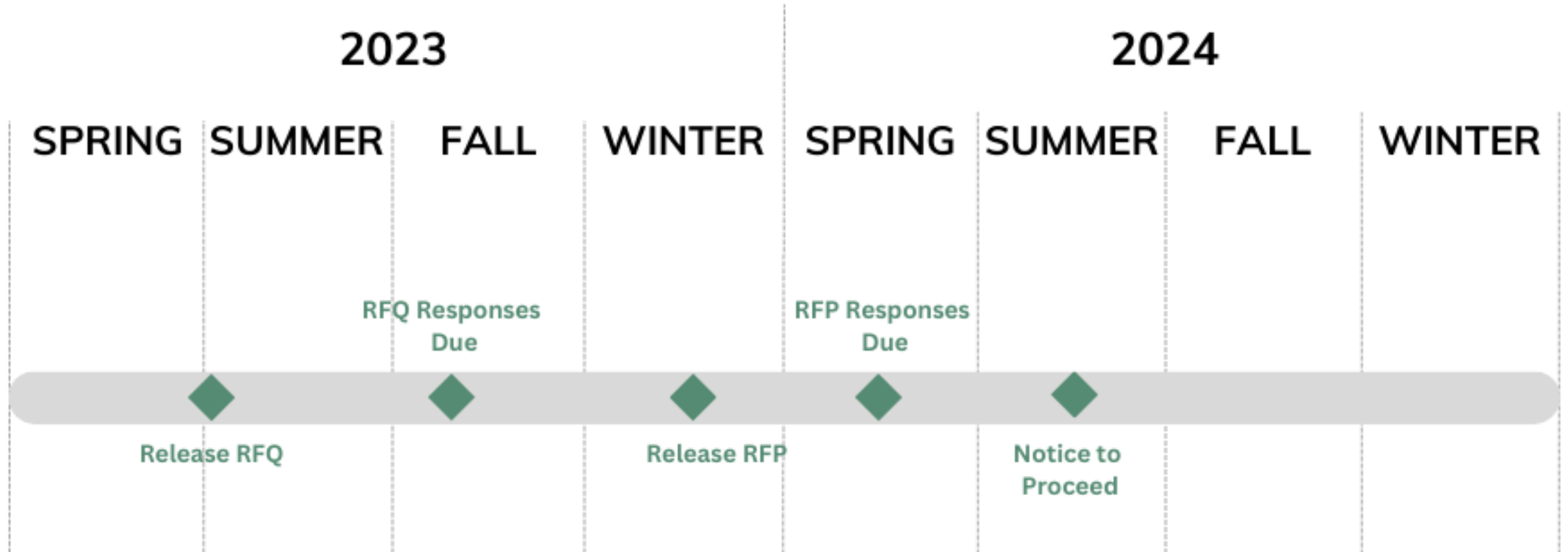
## Federal Compliance and Goal Setting

- Federally compliant procurements, subject to all FTA regulations
  - Title 49 CFR Part 26
- Establish achievable project specific goals for DBE participation.
- As part of the procurement process, require demonstration as to how proposers will meet this participation. Require primes during the RFP/Bid process to show past performance of DBE goal achievement and compliance with DBE program.
- Goals expressed as a percentage of the total contract price.
- Take all reasonable steps to eliminate obstacles to DBE participation, including unnecessary and unjustified bundling of contract requirements that may preclude DBE and small business participation in procurements as prime contractors or subcontractors.

The background features a light green gradient with various abstract green line art elements. These include a jagged, step-like line at the top, a series of connected arches in the middle, a wavy line below that, and a zigzag line at the bottom. There are also several horizontal lines of varying lengths scattered throughout the design.

# **Package 1A: Palisades Tunnel**

# Palisades Tunnel Early Works Procurement Timeline





# Package 1A



## Package 1A Palisades Tunnel Design Bid Build Package

1. TBM / Associated Power Procurement & Setup (**Performance Spec**)
2. Tunnel Portal Open Cut SOE (**DBB**)
3. Hoboken Shaft SOE (**DBB**)
4. Tunnel Lining (**DBB**)
5. Cross Passage Excavation and Lining (6 CP in rock) (**DBB**)



# Package 1A

## TBM / Power



### Package 1A Palisades Tunnel Design Bid Build Package

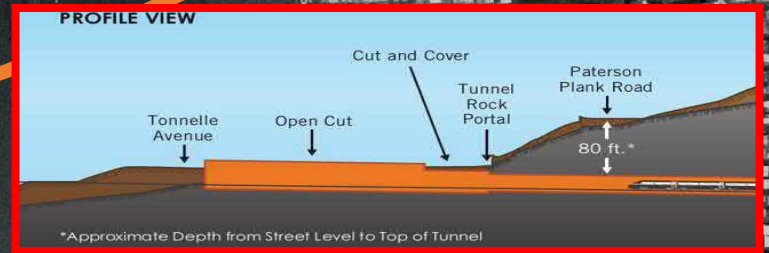
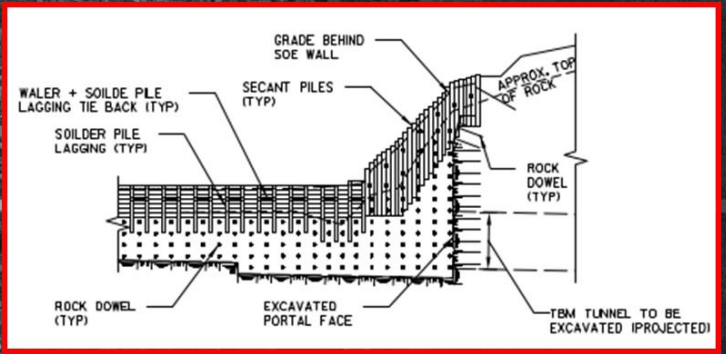
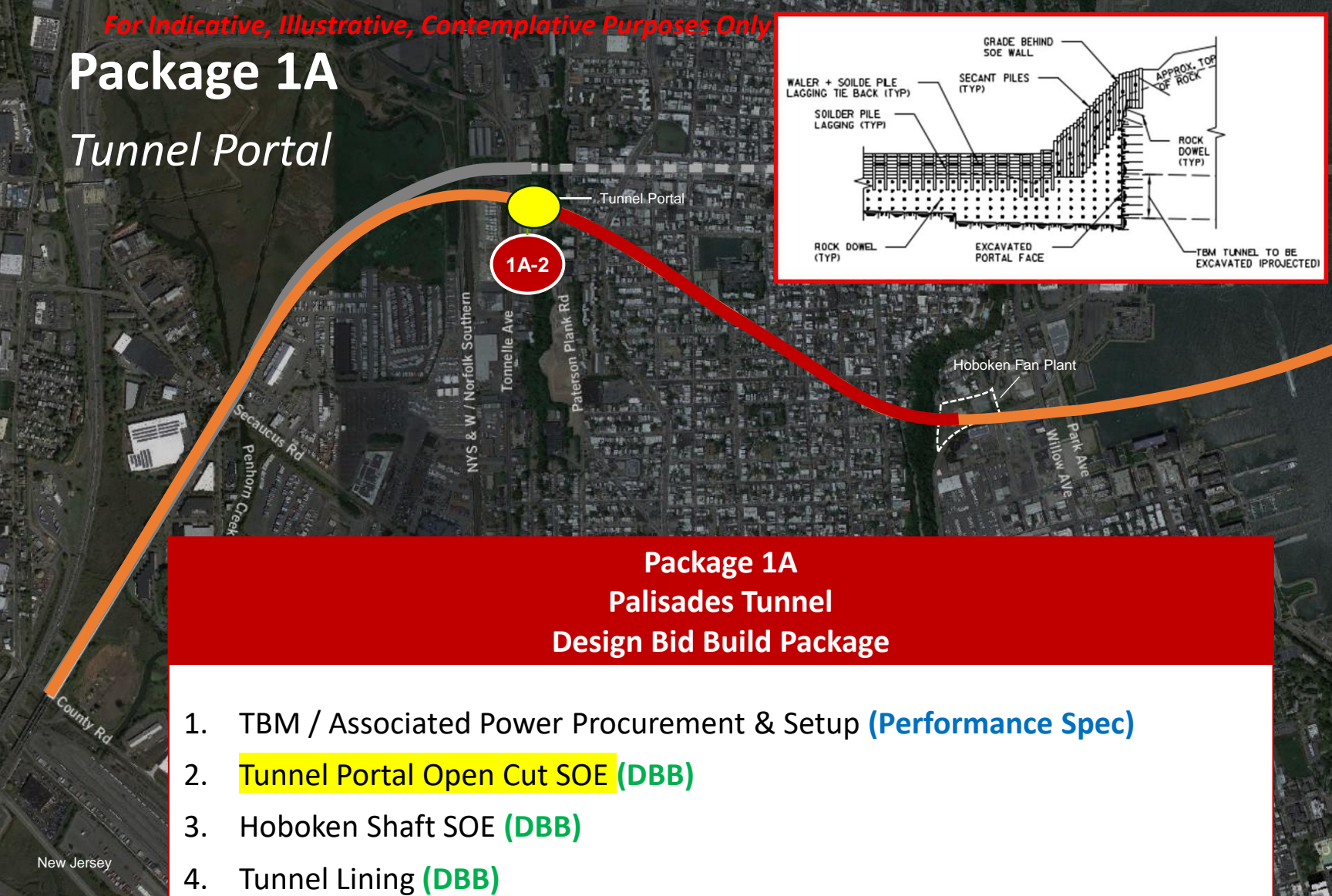
1. TBM / Associated Power Procurement & Setup (Performance Spec)
2. Tunnel Portal Open Cut SOE (DBB)
3. Hoboken Shaft SOE (DBB)
4. Tunnel Lining (DBB)
5. Cross Passage Excavation and Lining (6 CP in rock) (DBB)





# Package 1A

## Tunnel Portal



### Package 1A Palisades Tunnel Design Bid Build Package

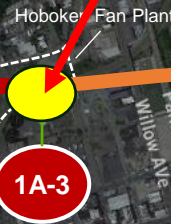
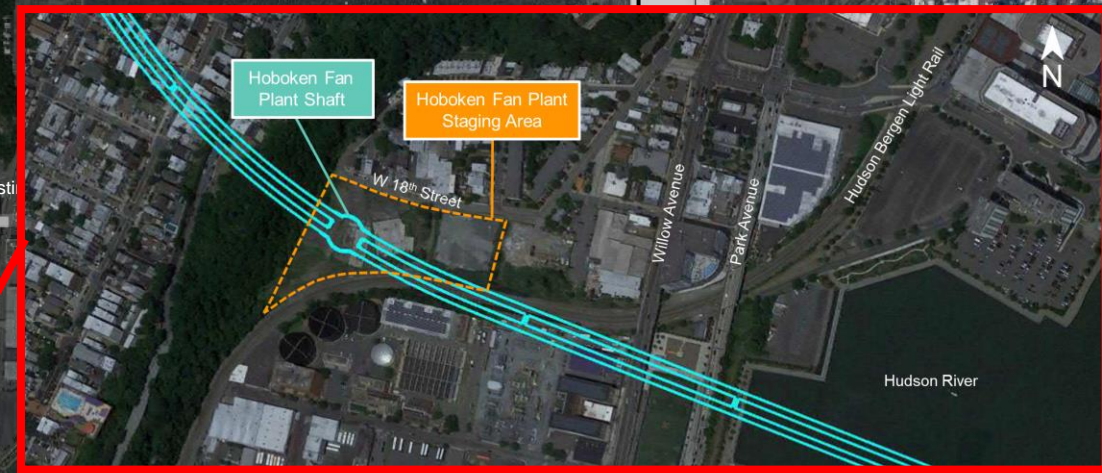
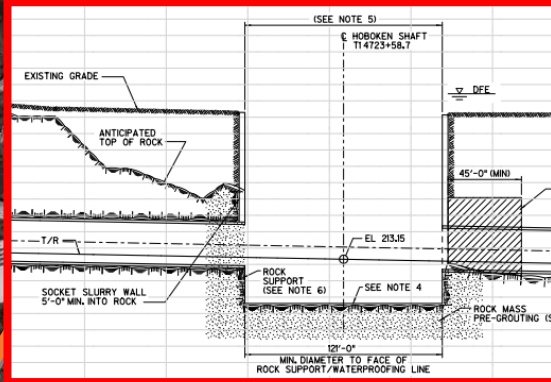
1. TBM / Associated Power Procurement & Setup (**Performance Spec**)
2. Tunnel Portal Open Cut SOE (**DBB**)
3. Hoboken Shaft SOE (**DBB**)
4. Tunnel Lining (**DBB**)
5. Cross Passage Excavation and Lining (6 CP in rock) (**DBB**)



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# Package 1A

## Hoboken Shaft



### Package 1A Palisades Tunnel Design Bid Build Package

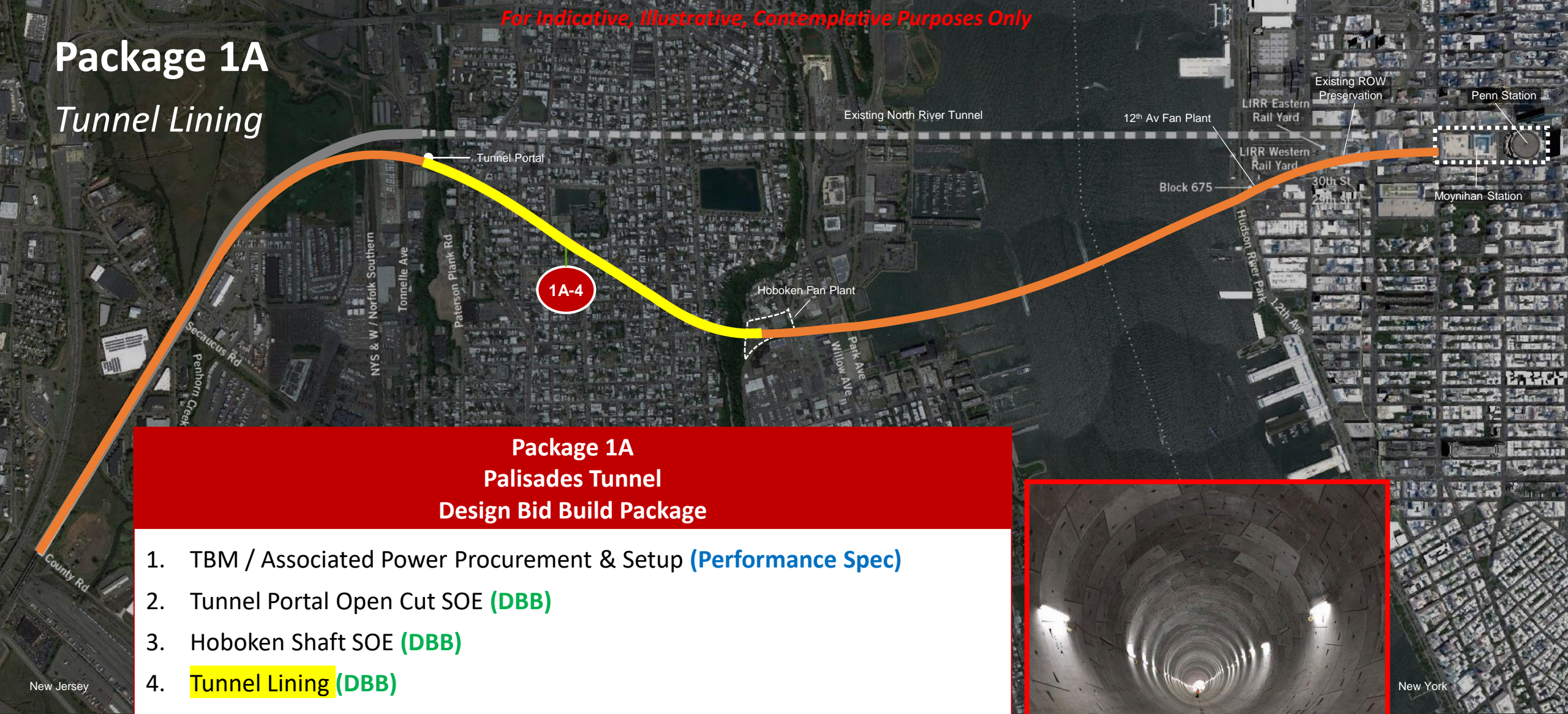
1. TBM / Associated Power Procurement & Setup (**Performance Spec**)
2. Tunnel Portal Open Cut SOE (**DBB**)
3. Hoboken Shaft SOE (**DBB**)
4. Tunnel Lining (**DBB**)
5. Cross Passage Excavation and Lining (6 CP in rock) (**DBB**)





# Package 1A

## Tunnel Lining



### Package 1A Palisades Tunnel Design Bid Build Package

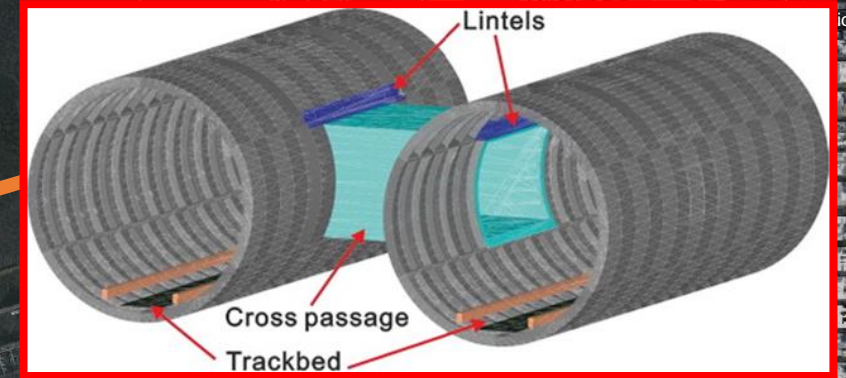
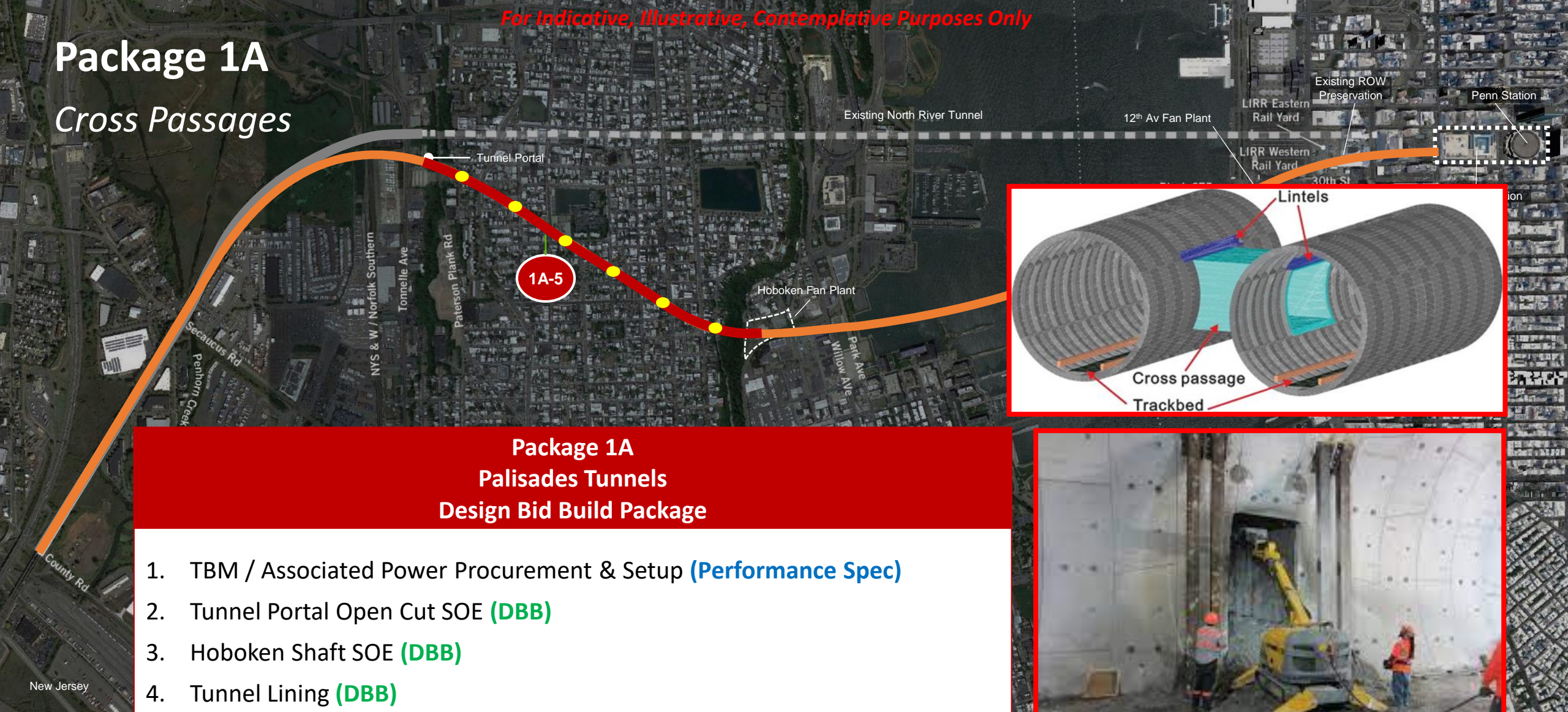
1. TBM / Associated Power Procurement & Setup (**Performance Spec**)
2. Tunnel Portal Open Cut SOE (**DBB**)
3. Hoboken Shaft SOE (**DBB**)
4. **Tunnel Lining** (**DBB**)
5. Cross Passage Excavation and Lining (6 CP in rock) (**DBB**)





# Package 1A

## Cross Passages



### Package 1A Palisades Tunnels Design Bid Build Package

1. TBM / Associated Power Procurement & Setup (**Performance Spec**)
2. Tunnel Portal Open Cut SOE (**DBB**)
3. Hoboken Shaft SOE (**DBB**)
4. Tunnel Lining (**DBB**)
5. Cross Passage Excavation and Lining (6 CP in rock) (**DBB**)

## Innovation and Sustainability in Palisades Tunnel Procurement

- Permanent elements of the work will be fully designed prior to RFP issuance. Contractor discretion will be allowed in Tunnel Boring Machine design, associated temporary infrastructure, etc.
- Given that design for permanent elements will be 100% complete, design innovation will be achieved through a Value Engineering process rather than an Alternative Technical Concept (ATC) process.
- GDC will encourage from potential Respondents concepts that achieve the Commission's goal to improve Sustainability in Construction.

# Palisades Tunnel RFQ Potential and Contemplated Evaluation Criteria

- This will be a Design-Bid-Build procurement using a Best Value approach
- Request For Qualifications (RFQ) process to shortlist qualified bidders. Maximum 5 bidders to be shortlisted.
- Potential evaluation criteria to be included in the Request for Qualifications (criteria used to score and rate responses):
  - Legal Standing (pass/fail)
  - Financial Strength (pass/fail)
  - Backlog and Capacity (pass/fail)
  - Vendor Responsibility (pass/fail)
  - Key Personnel (quality)
  - Organization (quality)
  - Experience (quality)
  - Past Performance (quality)



# RFP: Palisades Tunnel

## *RFP Potential and Contemplated Evaluation Criteria Factors*

**Overall RFP weighting - Technical (40%) vs. Price (60%)**

### **Technical Factors:**

#### Overall Project Objectives:

- Safety
- Price Certainty
- Schedule Certainty
- Technical Reliability
- Key Personnel Commitment
- Project Understanding, Approach, and Innovation

#### Specific Project Approach Criteria:

- Baseline Schedule Analysis and Certainty
- Construction Approach (e.g., Tunnel Boring Machine (TBM) Specifications and Operational Assumptions, Cross Passage Excavation methodology, Sustainability in Construction)

## **Palisades Tunnel – Insurance and Bonding**

### *Potential and Contemplated for Feedback Purposes*

- Utilize Contractor Controlled Insurance Program (CCIP)
  - Builders Risk with option for GDC to procure (limit based on Probable Maximum Loss)
  - CCIP including Commercial General Liability, Workers Compensation, Employers Liability and Excess Liability (\$300,000,000 per occurrence, \$300,000,000 aggregate)
  - Contractors Pollution Liability (\$50,000,000)
  - Automobile Liability (\$10,000,000)
  - Railroad Protective Liability (as required by affected railroad)
  - Contractors' Equipment (limit acceptable to GDC)
  - Aircraft/Watercraft Liability, if applicable (\$10,000,000)
  - Marine Cargo, if applicable (replacement cost)
- FTA requires 100% performance and payment bonds for Palisades Tunnel package
- Solicit alternative Performance Security options (e.g., Low Penalty Bond, Letters of Credit, Parental Company Guarantee) from Contractors, subject to acceptance by GDC and FTA.

# DBE Opportunities Palisades Tunnel

## Federal Compliance and Goal Setting

- Federally compliant procurements, subject to all FTA regulations
  - Title 49 CFR Part 26
- Establish achievable project specific goals for DBE participation.
- As part of the procurement process, require demonstration as to how proposers will meet this participation. Require primes during the RFP/Bid process to show past performance of DBE goal achievement and compliance with DBE program.
- Goals expressed as a percentage of the total contract price.
- Take all reasonable steps to eliminate obstacles to DBE participation, including unnecessary and unjustified bundling of contract requirements that may preclude DBE and small business participation in procurements as prime contractors or subcontractors.

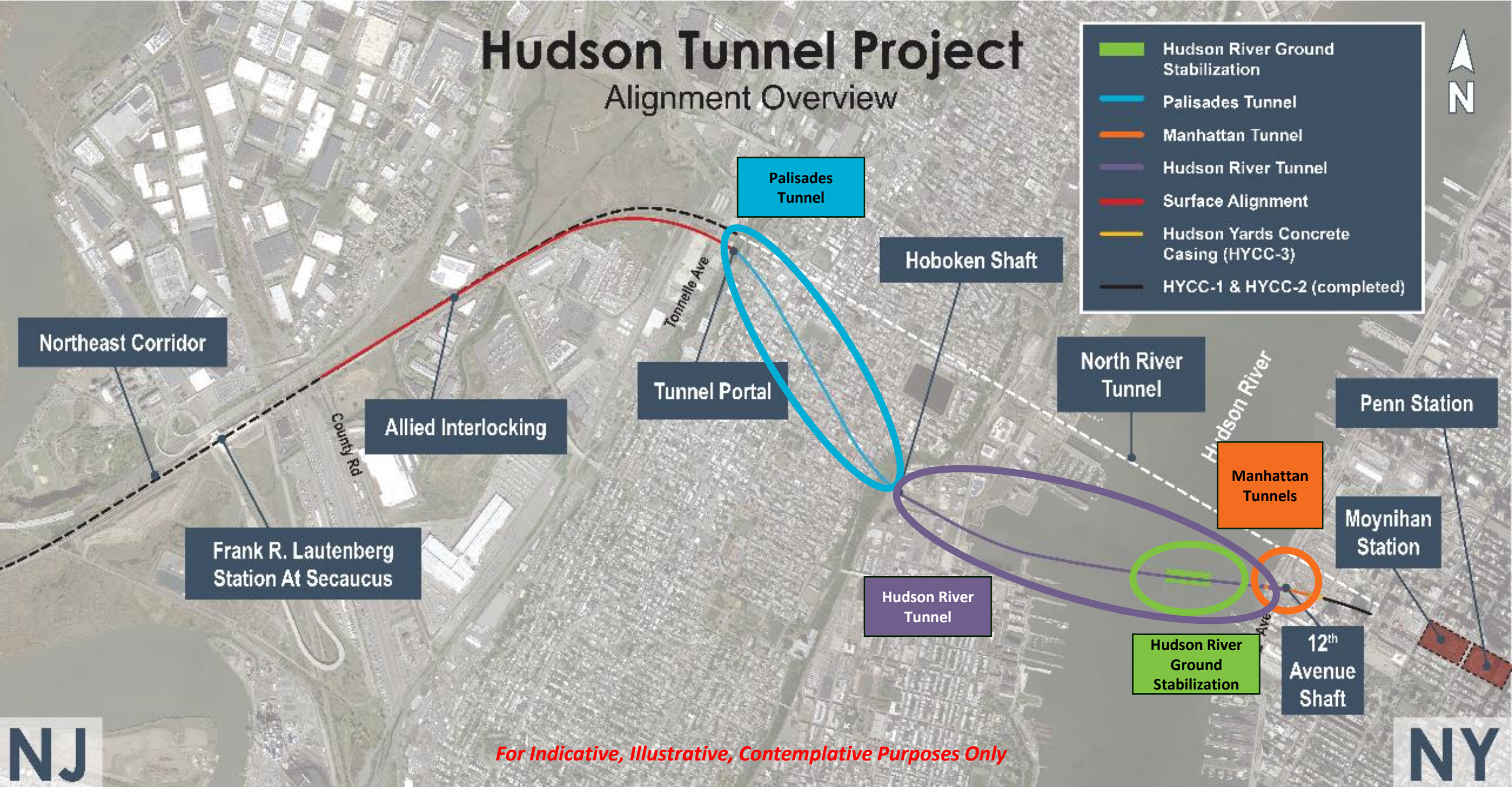


# Manhattan and Hudson Tunnels

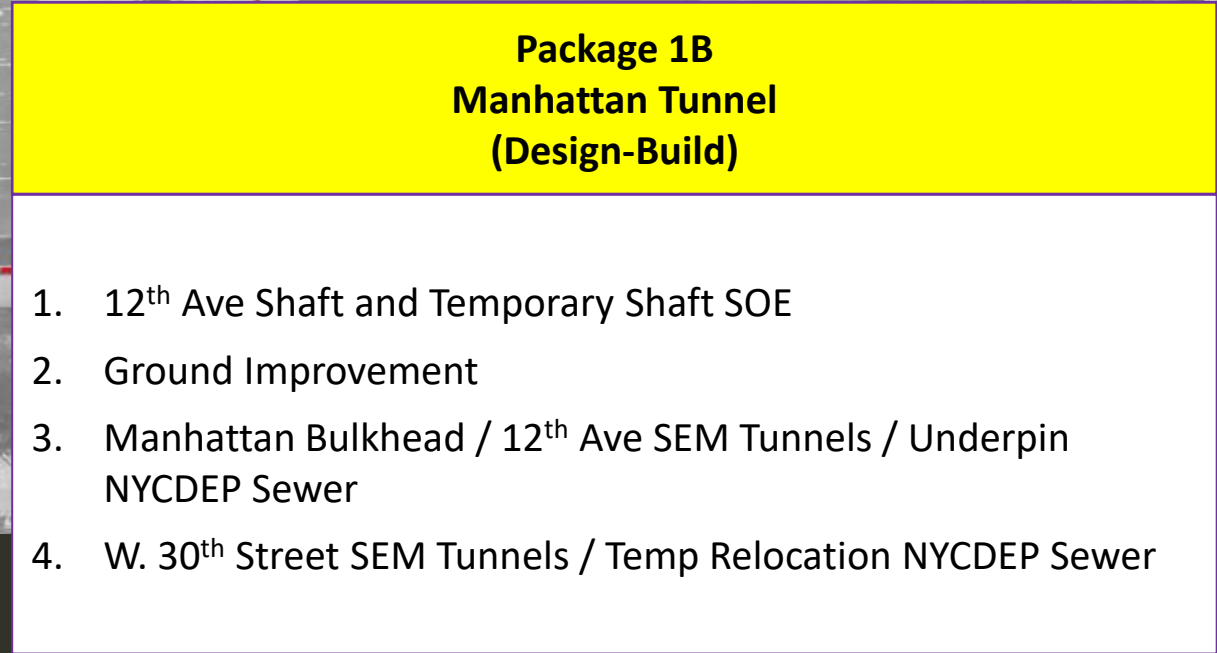


# Hudson Tunnel Project

## Alignment Overview











### Package 1C Hudson River Tunnel Design Bid Build

1. TBM / Associated Power Modifications & Setup (**Performance Spec**)
2. Tunnel Lining (**DBB**)
3. Ground Stabilization for Cross Passages / Excavation / Lining (9 CP – 6 in soil / 3 in rock) (**DBB**)
4. Underpinning of Willow Avenue Bridge (**DBB**)



# Next Steps

## Planned Next Steps

Issue RFQ for Hudson River Ground Stabilization

Issue RFQ for Palisades Tunnels

Receive & evaluate Tonnelle Avenue Bids

# Feedback and Questions

# GATEWAY DEVELOPMENT COMMISSION