



APPENDIX – N

PROJECT SCHEDULE

I-64 Hampton Roads Bridge-Tunnel Expansion Project

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N. PROJECT SCHEDULE

N.1 INTRODUCTION

The Hampton Roads Bridge Tunnel Expansion Project (“Project”) will widen I-64 for approximately 9.9 miles along I-64 from Settlers Landing Road in Hampton, Virginia to the I-64/I-564 interchange in Norfolk, Virginia. The Project will create an eight lane facility with six consistent use lanes. The expanded facility will include four general purpose lanes, two new HOT lanes, and two new drivable (hard-running) shoulders to be used as HOT lanes during peak usage.

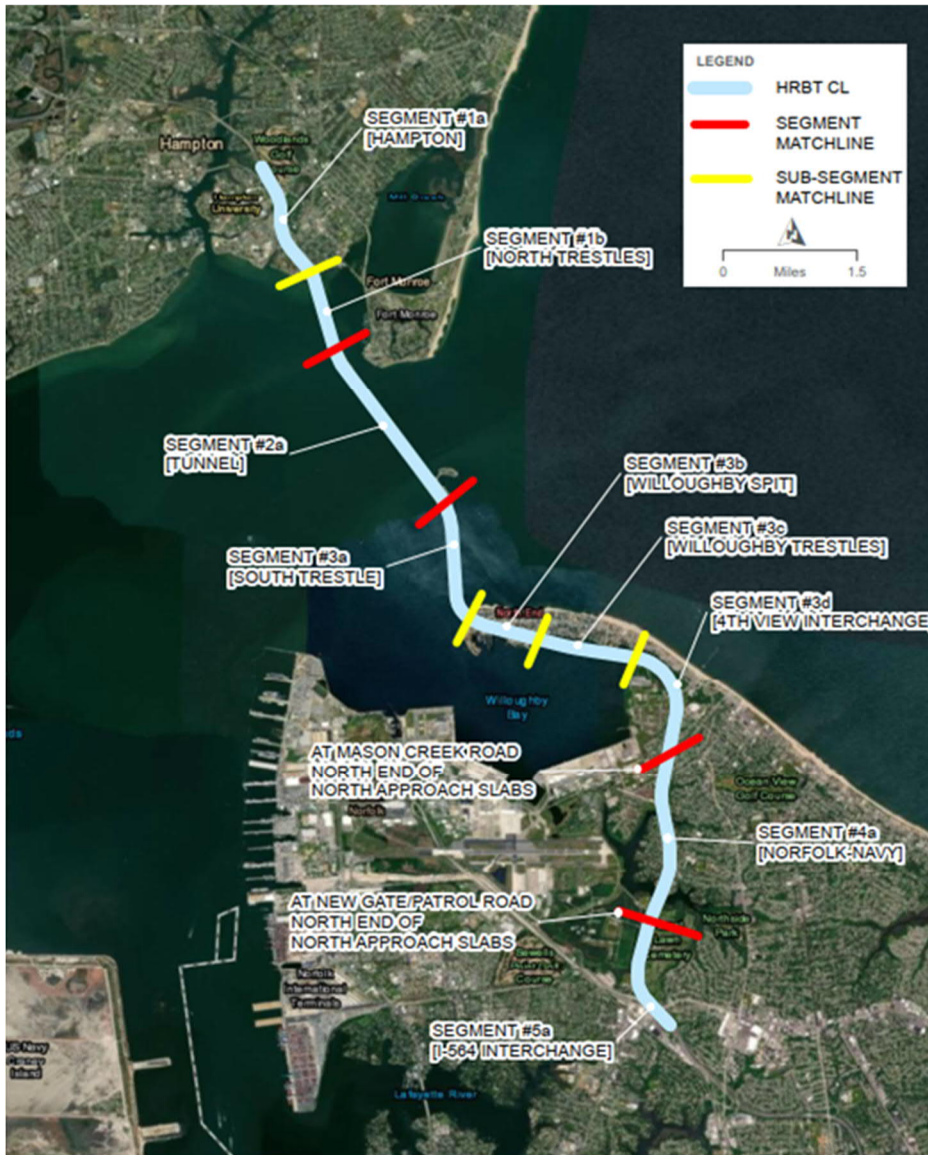
The Project will include full replacement of the North and South Trestle Bridges, two new parallel tunnels constructed using a Tunnel Boring Machine (TBM), expansion of the existing portal islands, and widening of the Willoughby Bay Trestle Bridges, Bay Avenue Trestle Bridges, and Oastes Creek Trestle Bridges. Also, onshore portions of I-64 will be widened to accommodate the additional lanes, the Mallory Street Bridge will be replaced, and the I-64 overpass bridges will be improved.

A linear construction schedule is provided in this appendix illustrating the areas of activity and expected time frame for the work in those areas. This is done by approximating geographic stationing on the x-axis, and the schedule of these activities on the y-axis. In addition, a Gantt type construction schedule has been included as Figure – 2 for a more traditional type schedule.

The project is divided into five design segments, defined as: (1) Hampton, (2) Tunnel, (3) Willoughby, (4) Norfolk-Navy, and (5) I-564 Interchange. The five segments are further sub-divided into nine design sub-segments as described below and shown in Figure N-1.

- Segment #1a (Hampton) ≈ 1.2 miles
- Segment #1b (North Trestle-Bridge) ≈ 0.6 miles
- Segment #2a (Tunnel) ≈ 1.8 miles
- Segment #3a (South Trestle-Bridge) ≈ 1.2 miles
- Segment #3b (Willoughby Spit) ≈ 0.6 miles
- Segment #3c (Willoughby Bay Trestle-Bridge) ≈ 1.0 miles.
- Segment #3d (4th View Interchange) ≈ 1.0 miles
- Segment #4a (Norfolk-Navy) ≈ 1.5 miles
- Segment #5a (I-564 Interchange) ≈ 1.2 miles

Figure N-1: HRBT Design Segments and Key Map



N.2 PHASING OF CONSTRUCTION

Currently, HRBT Project construction is planned to begin in the second quarter of 2020 and continue until 2025. In order to complete the project by October of 2025, marine and onshore construction activities will occur concurrently. For greater detail on the construction activities, the reader should refer to Appendix E – Project Description and Appendix L – Material Management Plan (Section L.1.3 – L.1.5). Design segments noted on the linear construction schedule include the following:

N.1.1.1 HAMPTON DESIGN SEGMENTS: #1A, #1B

The Hampton Design Segments include both onshore design work (land based) and marine based design work. Both will require extensive traffic control coordination to allow for lane improvements and lane widening. This is especially true with the marine construction for Section #1B which will require the demolition of the existing bridges and replacement with new bridges. The linear construction schedule shows that this work will begin in 2020 and extend through the duration of the project.

The construction of the trestle bridges leading to the approach structures on the North Island will require dredging and the expansion of the North Island.

N.1.1.2 TUNNEL DESIGN SEGMENTS: #2A

The following on-island activities are expected to occur in support of the tunnel access and excavation:

- South Island
 - Building Construction
 - Slurry Walls & Jet Grouting
 - On Shore Ground Improvement
 - Off Shore Ground Improvement
 - South Portal Excavation (pile driving, dredging, sheet pile, backfill)
- North Island
 - Building Construction
 - Island Expansion (sheet pile wall, dredging, backfilling, etc)
 - Slurry Walls and Jet Grouting
 - North Portal Excavation

The following tunneling activities are expected to occur when the South Island portal shaft work is completed:

- TBM assembly and launch
- West bound tunnel construction
- TBM U-turn on North Island
- East bound tunnel construction
- TBM disassembly and removal

N.1.1.3 WILLOUGHBY DESIGN SEGMENTS: #3A, #3B, #3C, #3D

Similar to the Hampton Design Segments, the Willoughby Design Segments include both onshore design work (land based) and marine based design work. Extensive traffic control coordination to allow for lane improvements and lane widening. Work in these segments is also expected to begin at the onset of the project (May 2020) and extend through the project duration. The construction of the marine bridge section of the roadway (including demolition activities) is expected to occur over a 3 to 4 year period.

N.1.1.4 NORFOLK-NAVY DESIGN SEGMENT: #4A

This onshore roadway work is expected to start in the later part of 2020 and will extend through the project duration.

N.1.1.5 I-564 DESIGN SEGMENT: #5A

Onshore roadway work is expected starting in 2020 and will extend through the project duration.

N.3 LINEAR CONSTRUCTION SCHEDULE AND GANTT CHART

The attached linear construction schedule has been included as Figure N-2 and the Gantt chart has been included as Figure N-3.

Figure N-2 HRBT Linear Construction Schedule

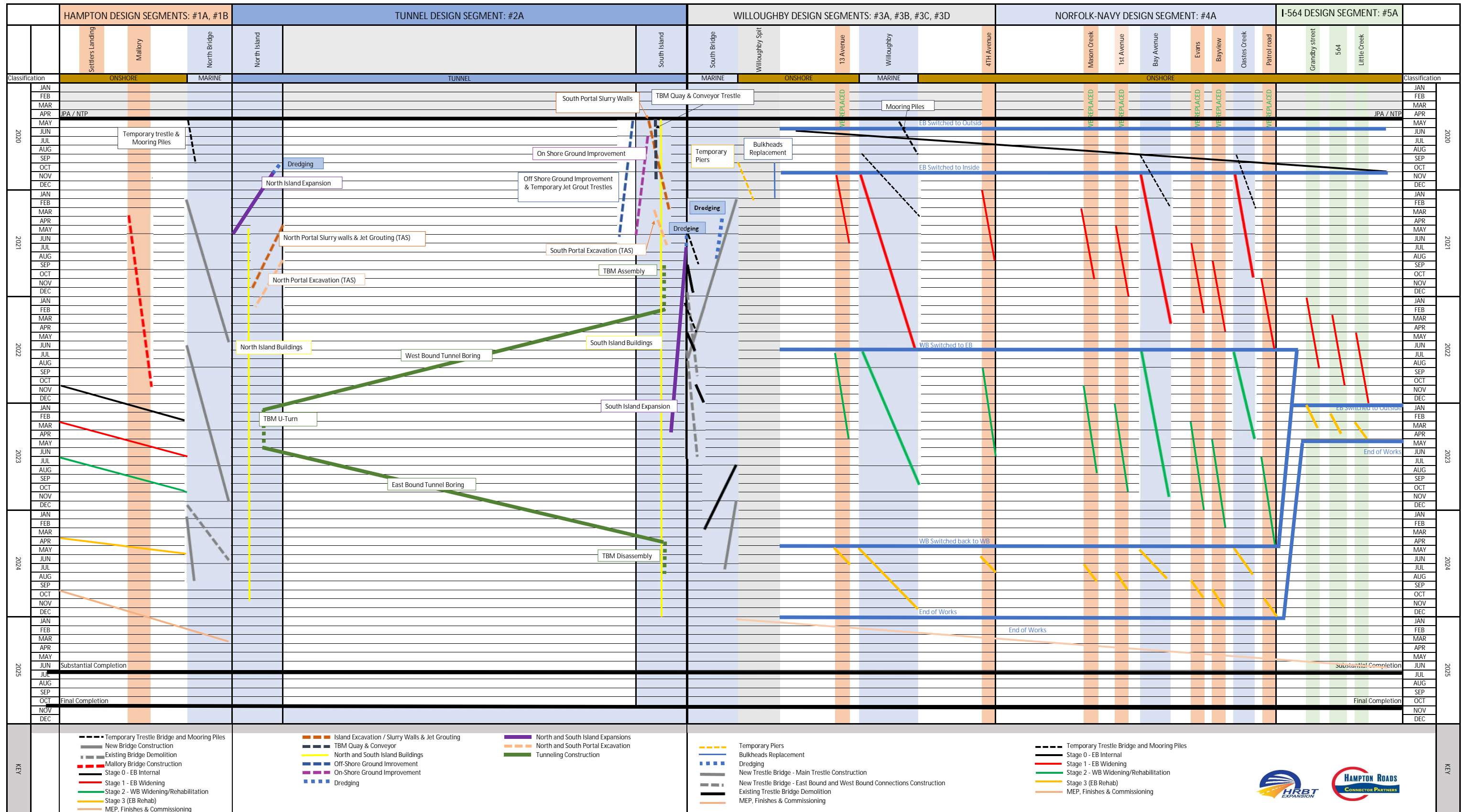


Figure N-3 Gantt Chart

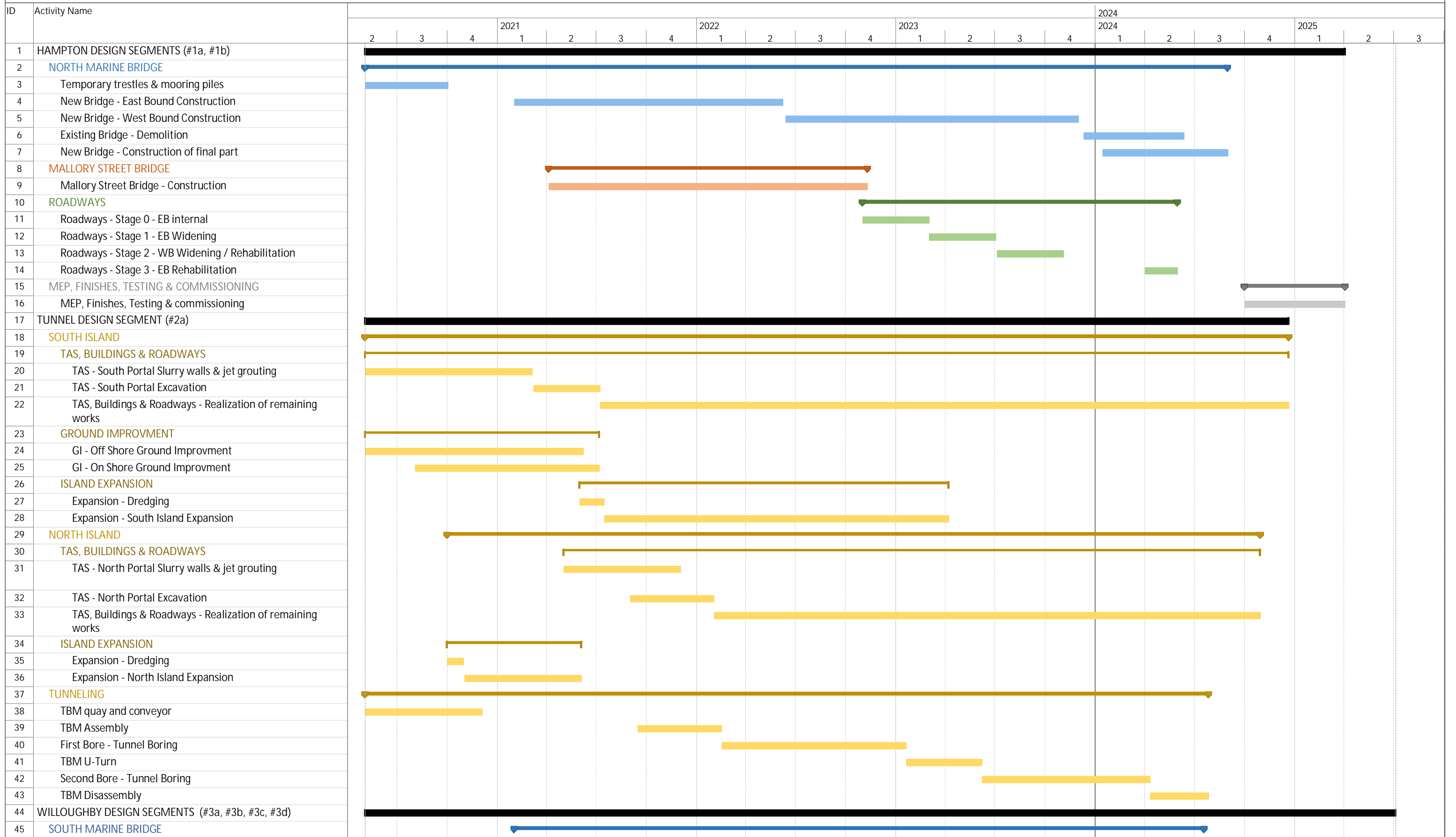


Figure N-3 Gantt Chart

