

SR 2029 SECTION S99

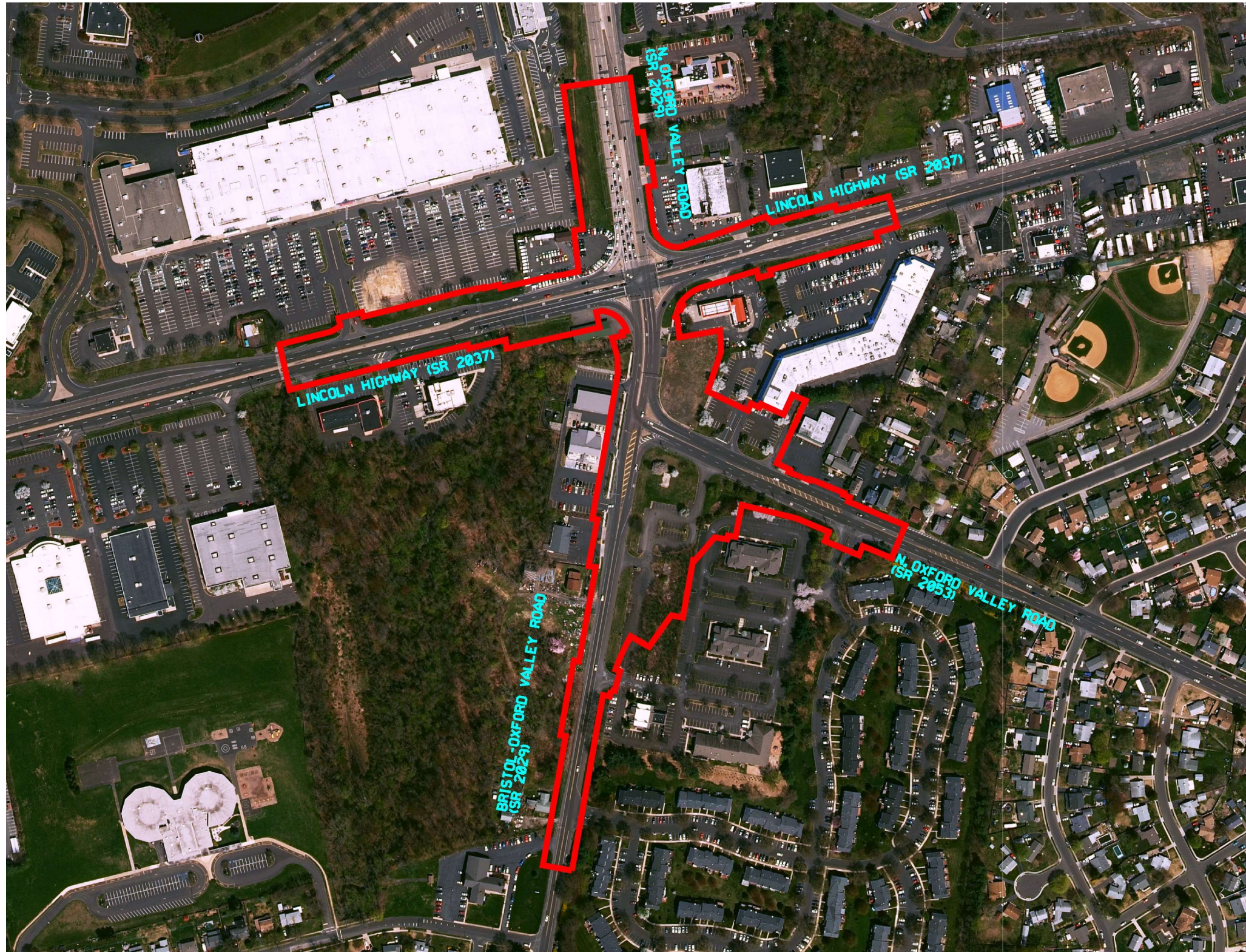
Oxford Valley Road at Lincoln Highway Intersection Improvement Project

PUBLIC OFFICIALS MEETING

PENNONI ASSOCIATES INC – DECEMBER 13, 2023



PROJECT LOCATION AERIAL



EXISTING CONDITION PHOTOS



Lincoln Highway Looking East

Langhorne, Pennsylvania

Google Street View

May 2023 [See more dates](#)



Lincoln Highway Looking West



N. Oxford Valley Rd Looking North



N. Oxford Valley Rd Looking South



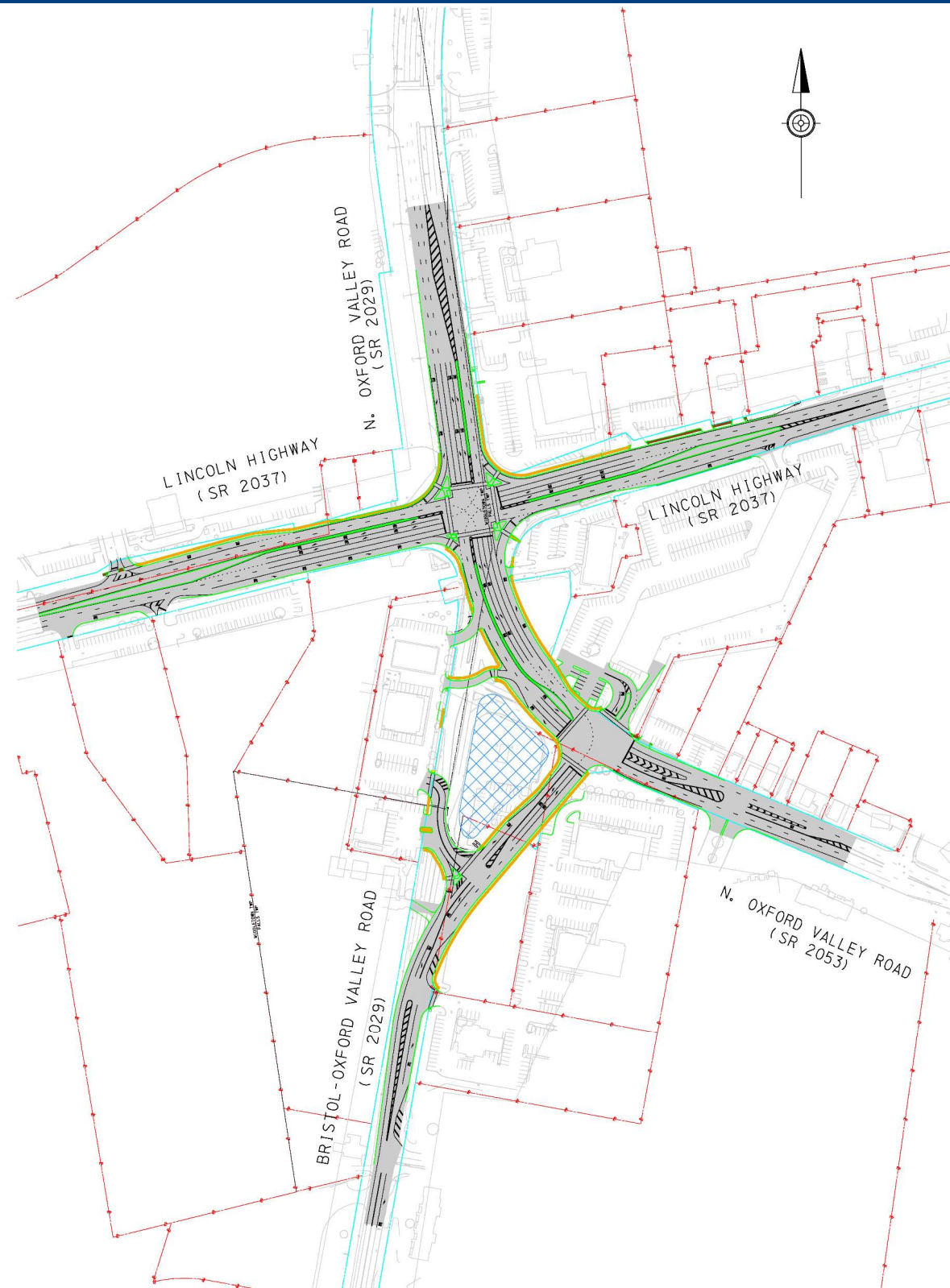
Bristol-Oxford Valley Rd at N. Oxford Valley Rd



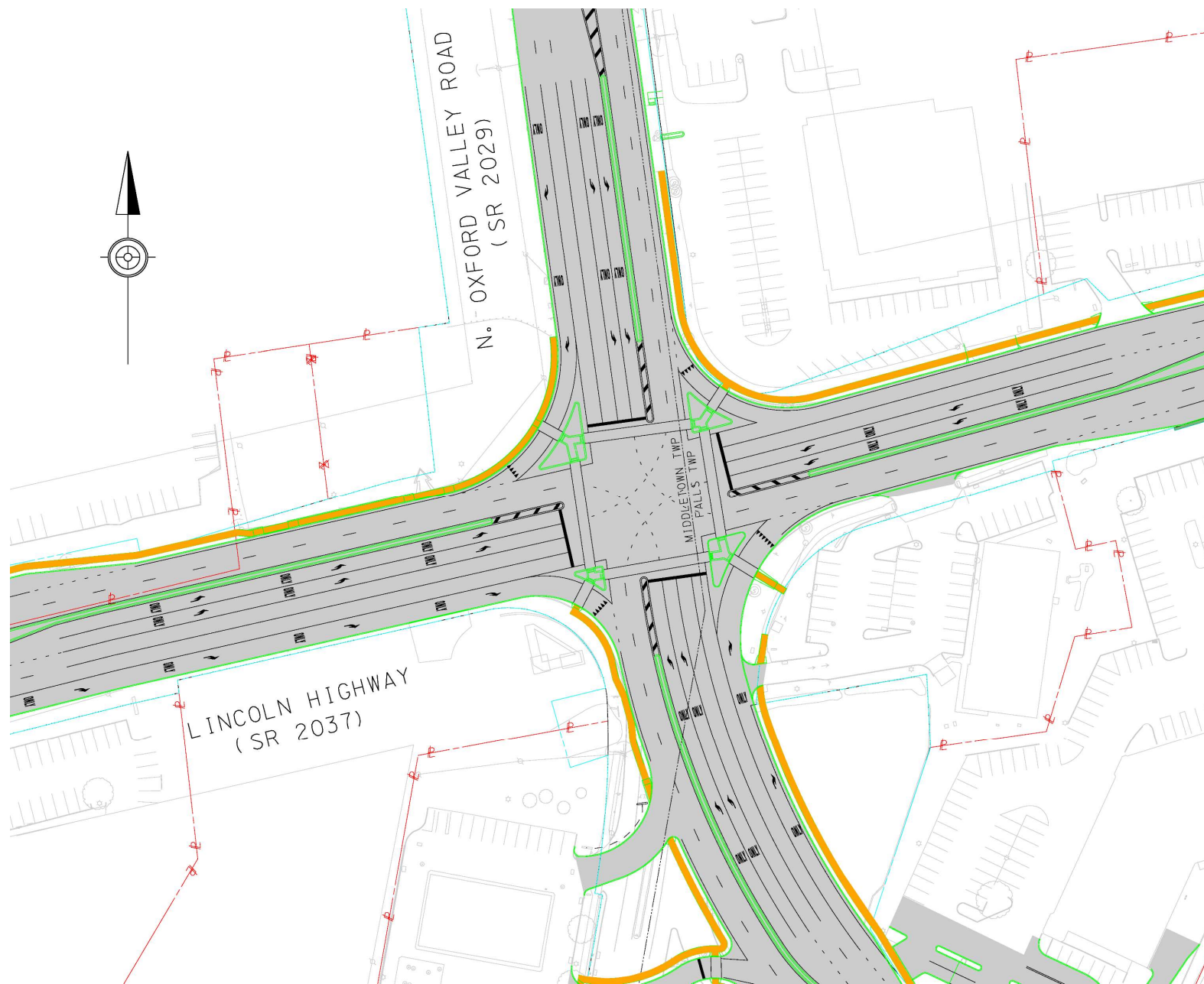
Bristol-Oxford Valley Rd at N. Oxford Valley Rd Looking East



PROJECT DESCRIPTION



PROJECT DESCRIPTION

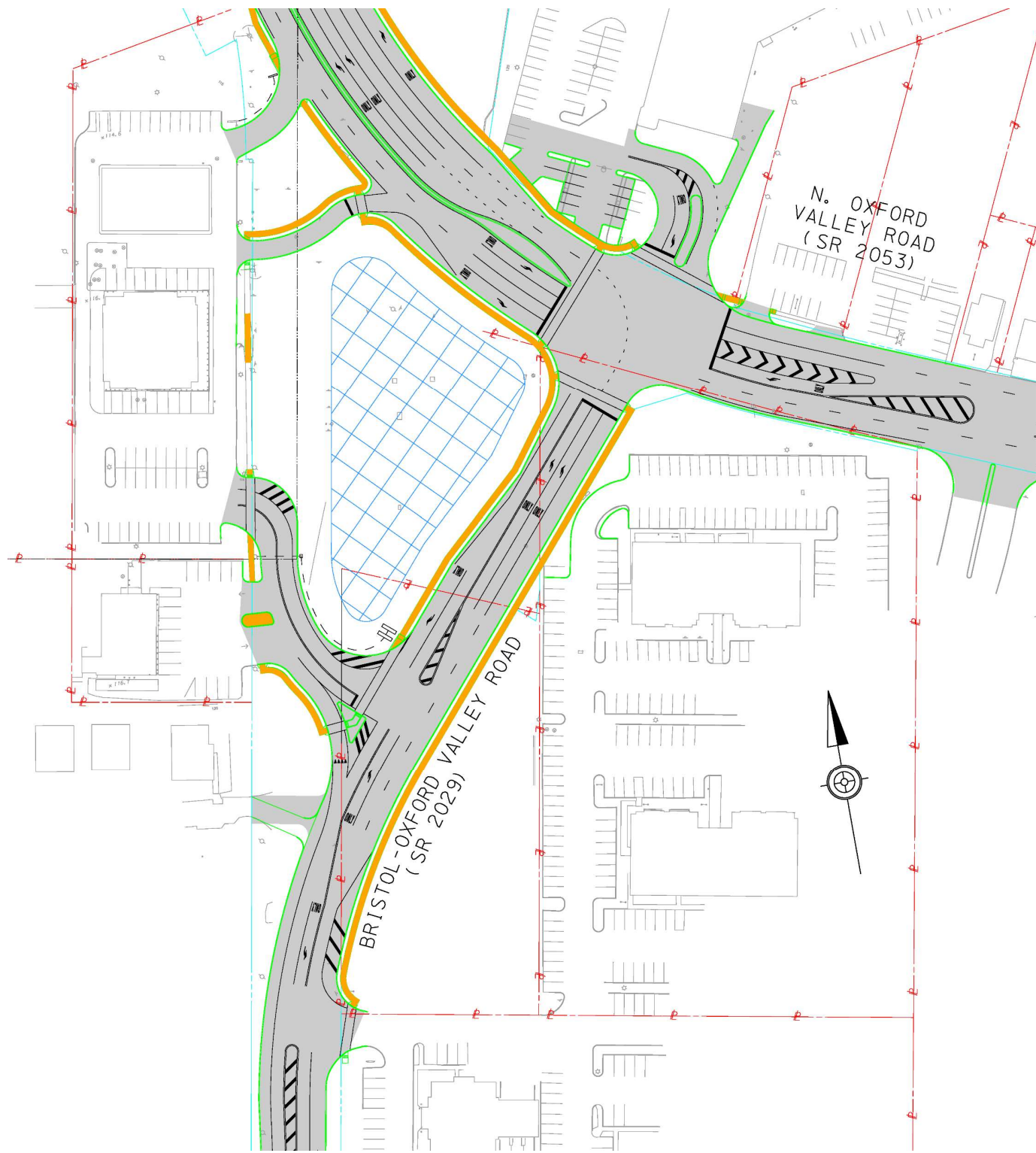


N. Oxford Valley Road (SR 2029) will be reconstructed as it approaches Lincoln Highway (SR 2037) from the north and south, in Falls and Middletown Townships, Bucks County, PA.

Improvements at the intersection of N. Oxford Valley Road (SR 2029) and Lincoln Highway (SR 2037) include widening of both roadways for dual left-turn lanes at all four approaches to the intersection, and for a northbound right-turn lane.



PROJECT DESCRIPTION CONT'D



Bristol-Oxford Valley Road (SR 2029) will be re-aligned to intersect N. Oxford Valley Road (SR 2053) to form a new signalized intersection across from the Oxford Point Shopping Center.



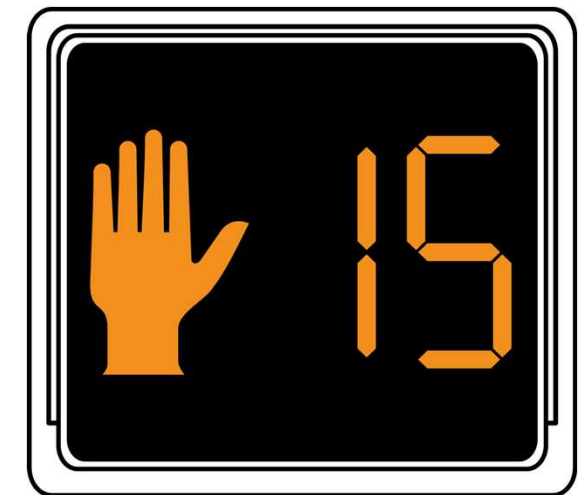
PROJECT DESCRIPTION CONT'D

The project includes modification of curb radii and concrete islands, new curb, sidewalk, and ADA compliant curb ramps.

The existing traffic signals and mast arms will be replaced.

Traffic signal improvements will utilize an adaptive signal system which adjusts the timing of red, yellow, and green lights to accommodate changing traffic patterns and helps ease traffic congestion.

New drainage structures such as inlets, manholes, and pipes will be installed throughout the project limits.



TRAFFIC ANALYSIS

Peak Hour Level of Service						
Intersection	AM		MID		PM	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Delay(secs)	Delay(secs)	Delay(secs)	Delay(secs)	Delay(secs)	Delay(secs)
Lincoln Highway (SR 2037) & N. Oxford Valley Rd (SR 2029)*	32.6	26.1	40.8	29.8	42.5	31.9
N. Oxford Valley Rd (SR 2029/2053) & Bristol-Oxford Valley Rd (SR 2029)**	55.1	36.4	49.2	35.8	54.2	23.1

* Signalized intersection Delay based on Synchro

** Unsignalized intersection Delay based on Simtraffic



PROJECT SCHEDULE

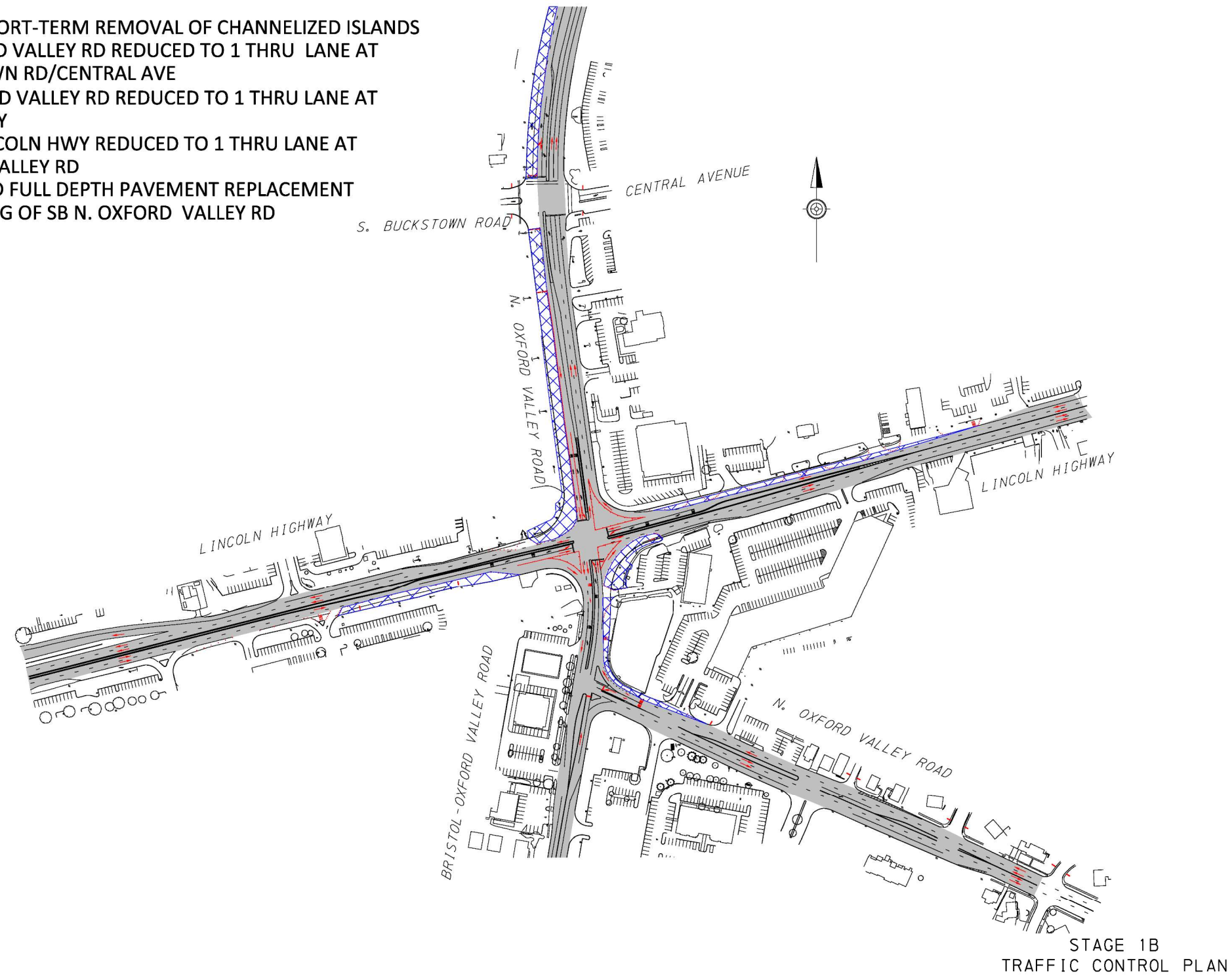
	2023	2024				2025				2026			
TASK	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ROW ACQUISITION*	■	■	■	■									
UTILITY RELOCATION COORDINATION	■	■	■	■									
CHAPTER 102 NPDES PERMITTING	■	■	■	■									
FINAL DESIGN	■	■	■	■									
CONTRACTING					■								
CONSTRUCTION						■	■	■	■	■	■	■	■

* 21 TOTAL PROPERTIES IMPACTED; 2 RESIDENTIAL, 19 COMMERCIAL



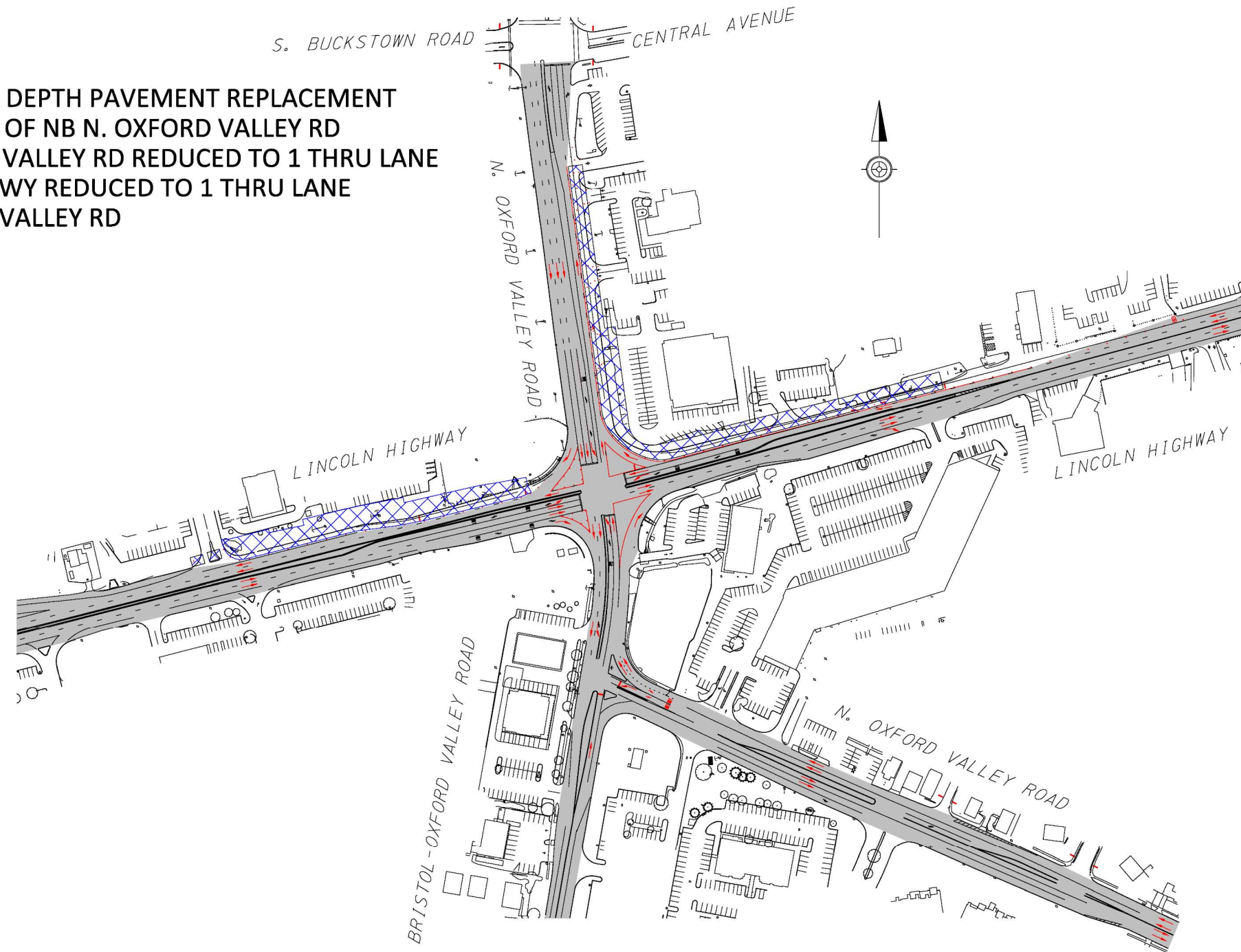
CONSTRUCTION STAGING

- STAGE 1A SHORT-TERM REMOVAL OF CHANNELIZED ISLANDS
- SB N. OXFORD VALLEY RD REDUCED TO 1 THRU LANE AT S. BUCKSTOWN RD/CENTRAL AVE
- NB N. OXFORD VALLEY RD REDUCED TO 1 THRU LANE AT LINCOLN HWY
- EB & WB LINCOLN HWY REDUCED TO 1 THRU LANE AT N. OXFORD VALLEY RD
- STAGE 1C & D FULL DEPTH PAVEMENT REPLACEMENT OF NORTH LEG OF SB N. OXFORD VALLEY RD



CONSTRUCTION STAGING CONT'D

- STAGE 2A FULL DEPTH PAVEMENT REPLACEMENT OF NORTH LEG OF NB N. OXFORD VALLEY RD
- NB N. OXFORD VALLEY RD REDUCED TO 1 THRU LANE
- WB LINCOLN HWY REDUCED TO 1 THRU LANE AT N. OXFORD VALLEY RD

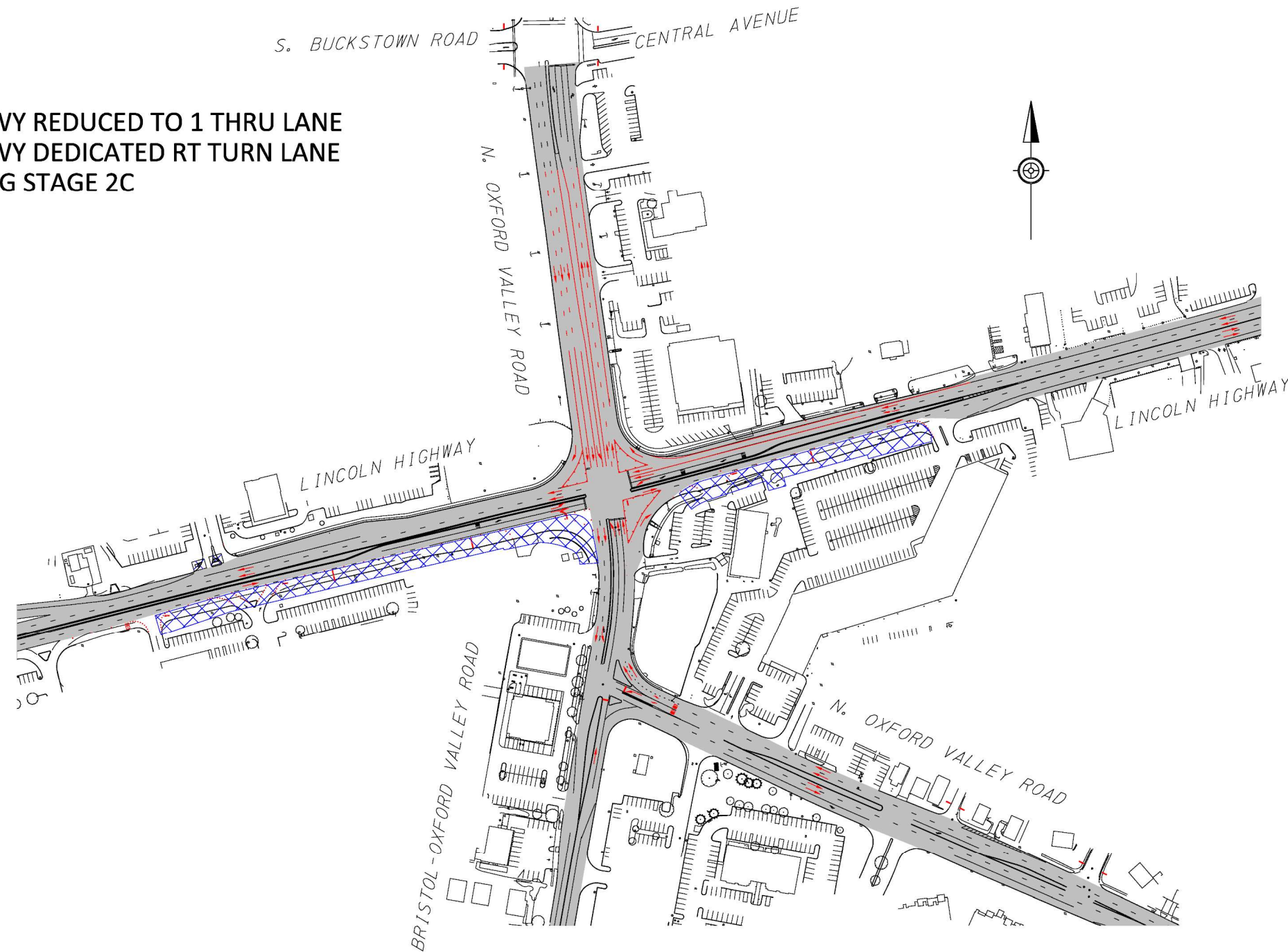


STAGE 2B
TRAFFIC CONTROL PLAN



CONSTRUCTION STAGING CONT'D

- EB LINCOLN HWY REDUCED TO 1 THRU LANE
- EB LINCOLN HWY DEDICATED RT TURN LANE CLOSED DURING STAGE 2C

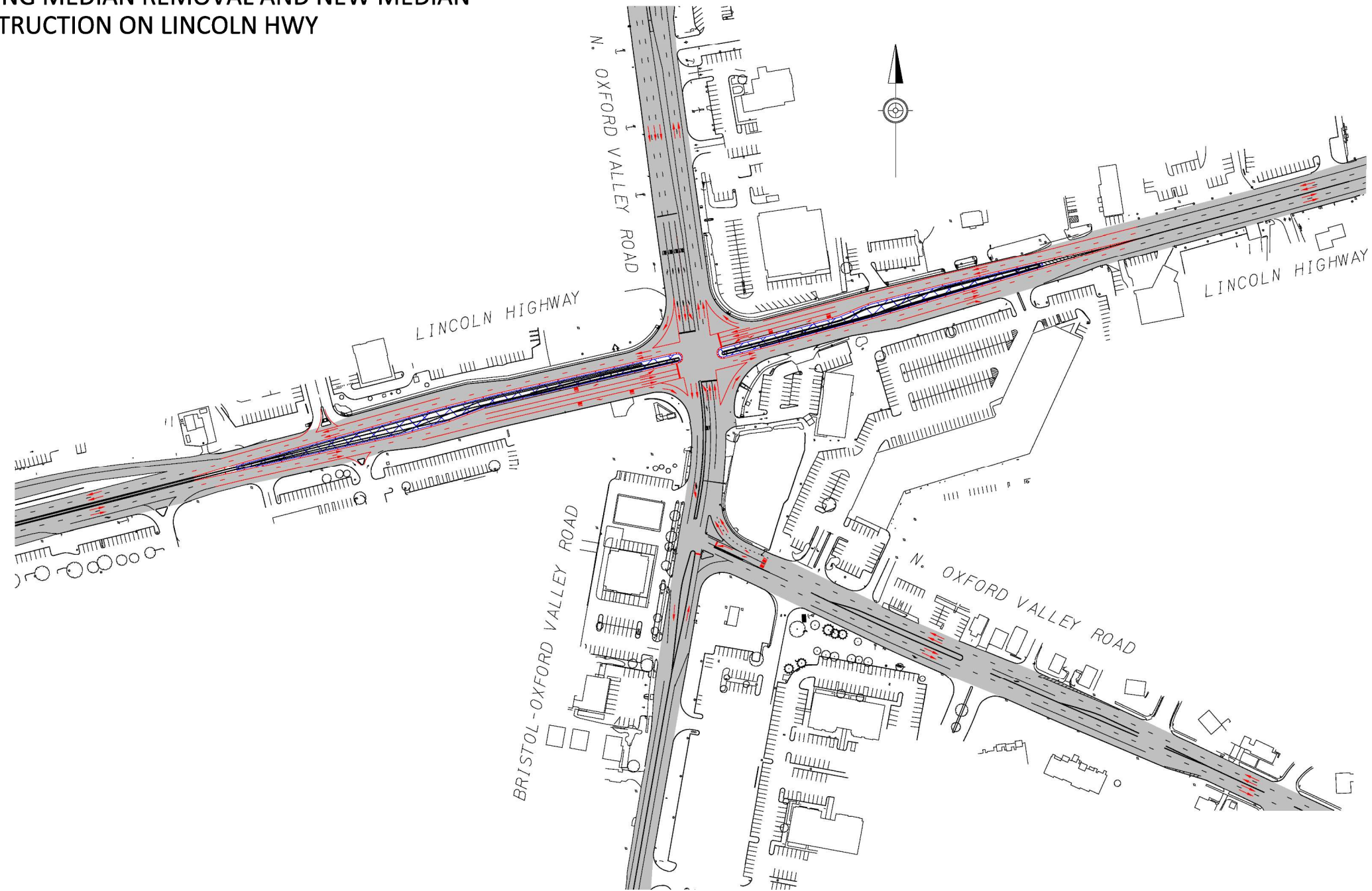


STAGE 2C & D
TRAFFIC CONTROL PLAN



CONSTRUCTION STAGING CONT'D

- EXISTING MEDIAN REMOVAL AND NEW MEDIAN CONSTRUCTION ON LINCOLN HWY



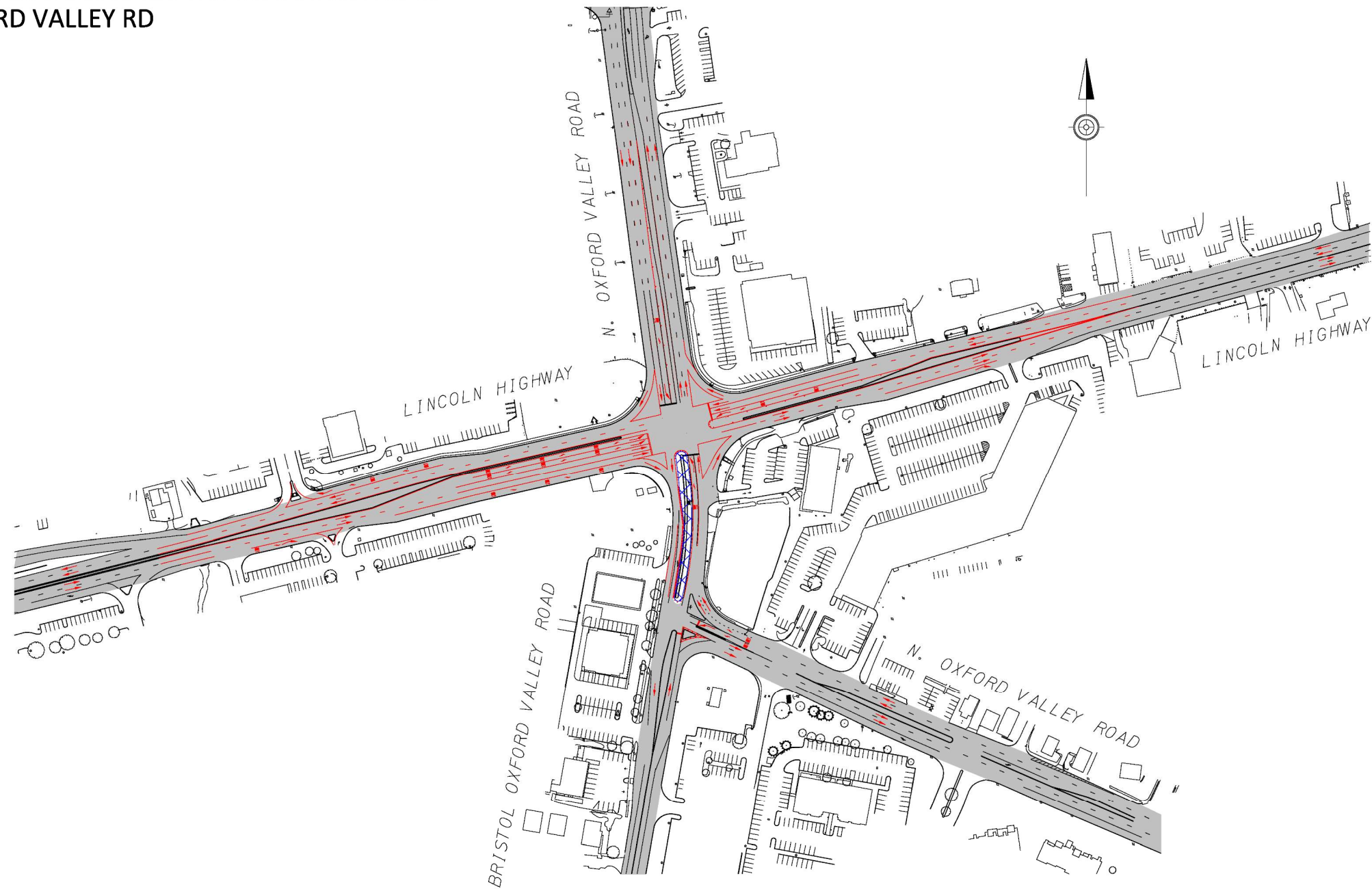
STAGE 3 SHORT-TERM
TRAFFIC CONTROL PLAN



CONSTRUCTION STAGING CONT'D

- EXISTING MEDIAN REMOVAL ON SOUTH LEG OF N. OXFORD VALLEY RD

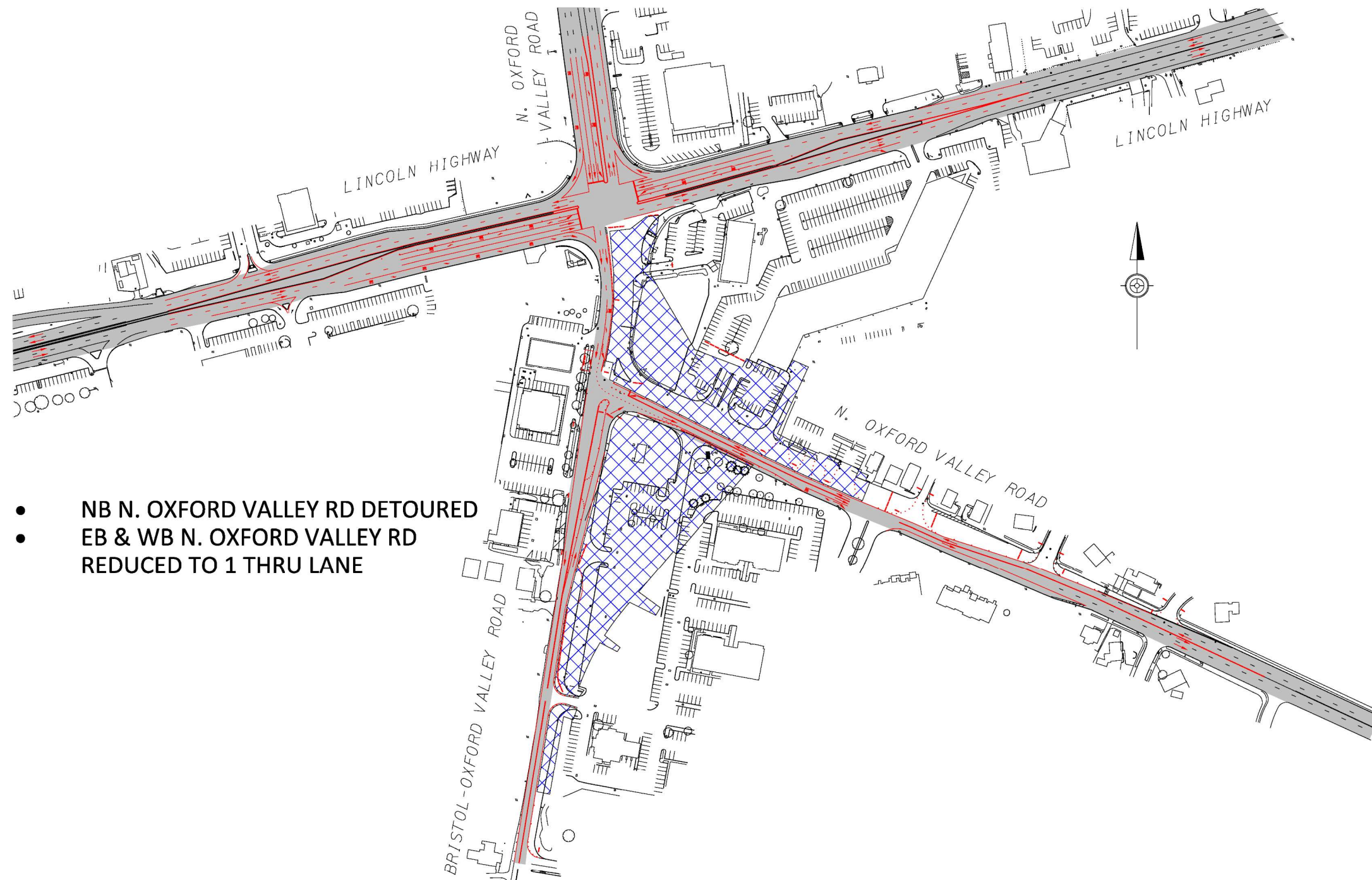
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STAGE 4 SHORT-TERM
TRAFFIC CONTROL PLAN



CONSTRUCTION STAGING CONT'D

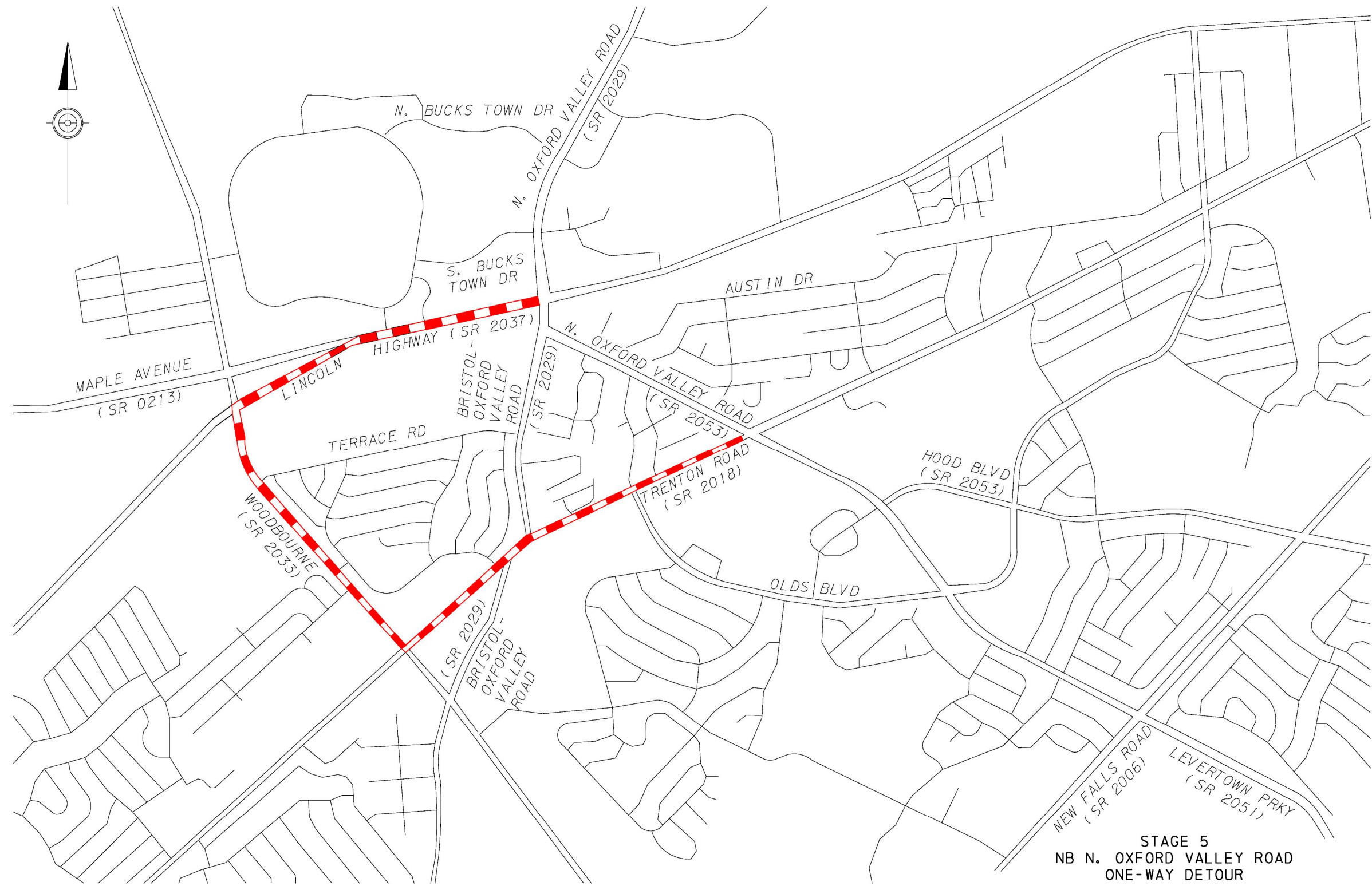


- NB N. OXFORD VALLEY RD DETOURED
- EB & WB N. OXFORD VALLEY RD REDUCED TO 1 THRU LANE

STAGE 5
TRAFFIC CONTROL PLAN



CONSTRUCTION STAGING CONT'D

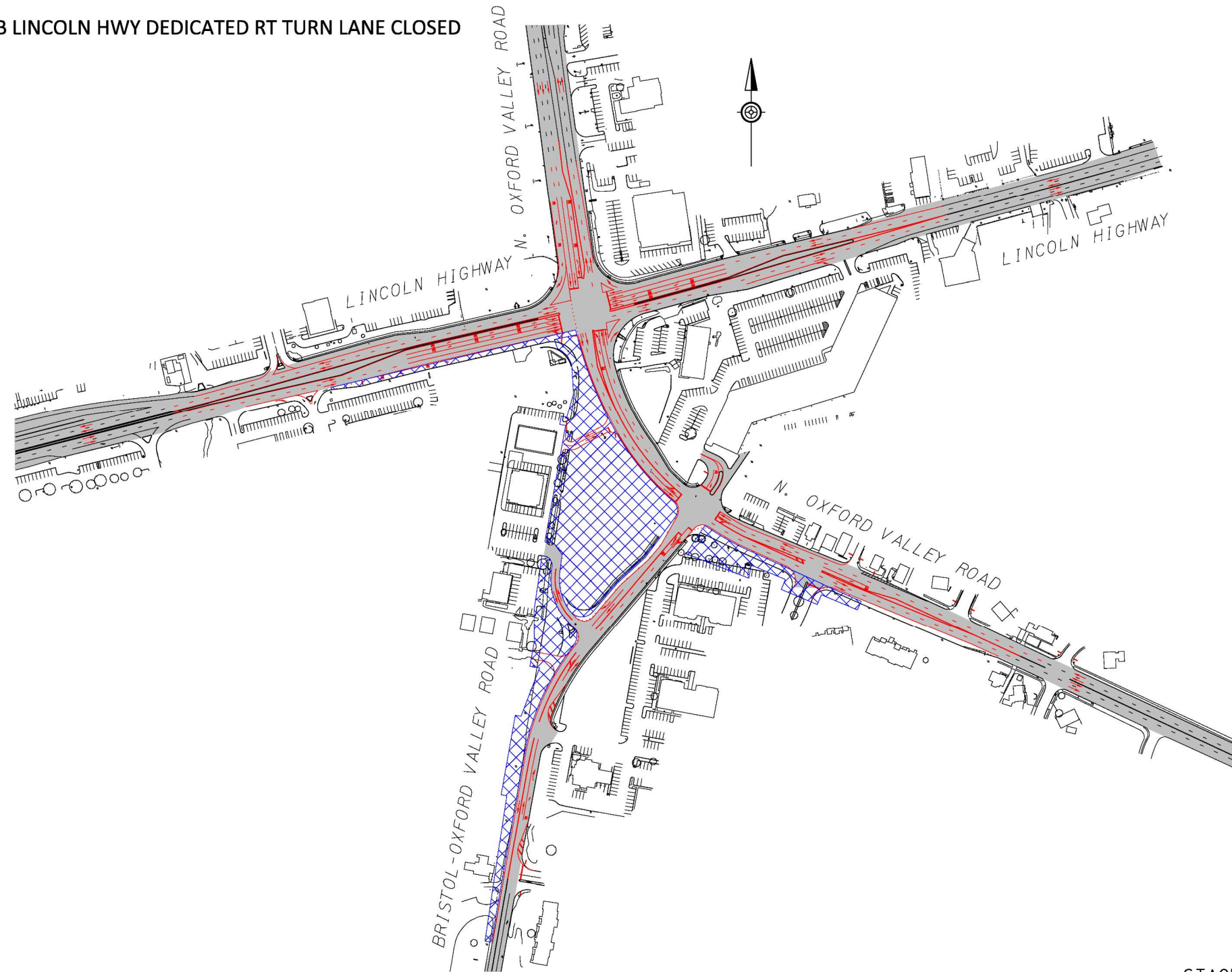


STAGE 5
NB N. OXFORD VALLEY ROAD
ONE-WAY DETOUR



CONSTRUCTION STAGING CONT'D

- EB LINCOLN HWY DEDICATED RT TURN LANE CLOSED

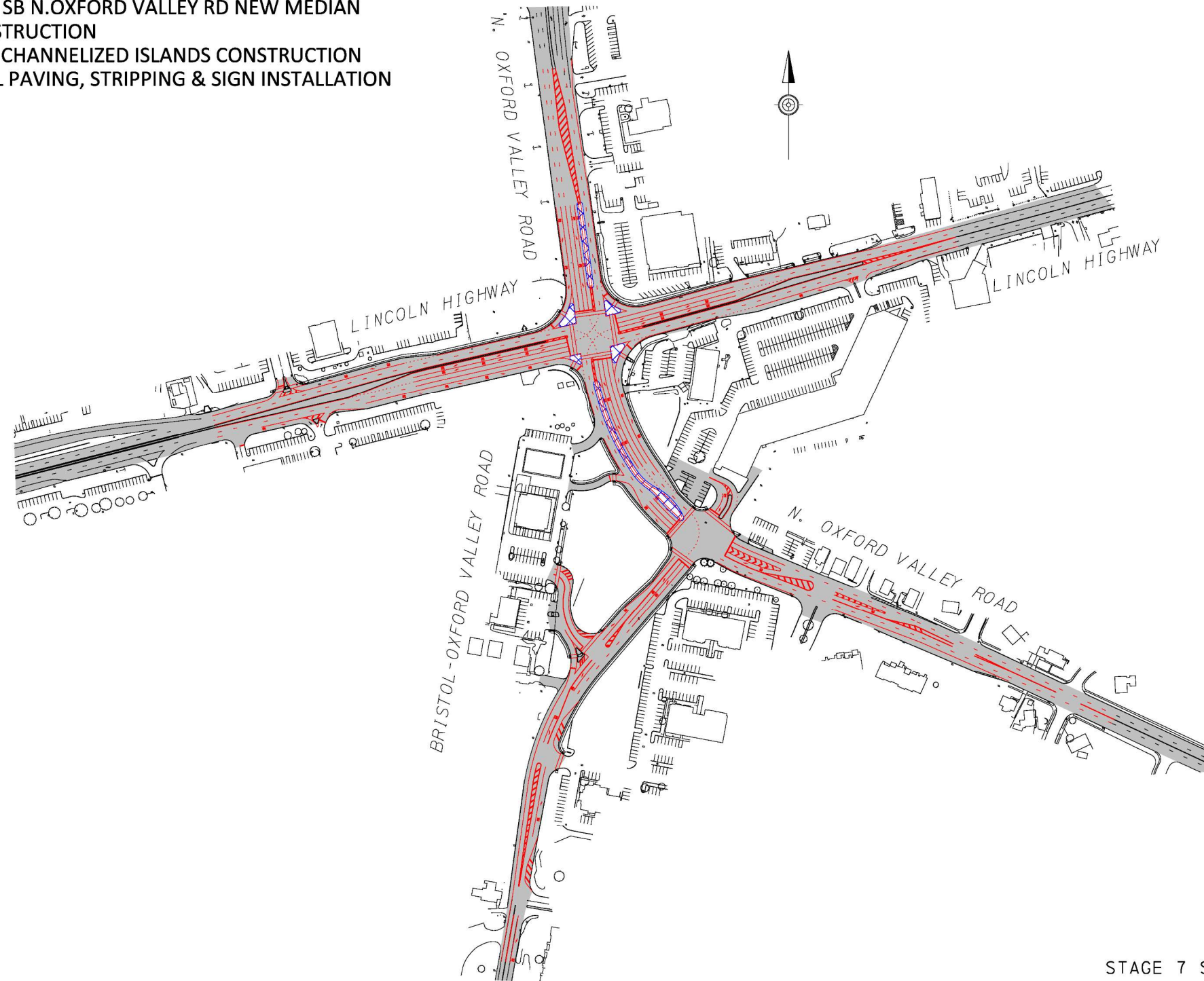


STAGE 6
TRAFFIC CONTROL PLAN



CONSTRUCTION STAGING CONT'D

- NB & SB N. OXFORD VALLEY RD NEW MEDIAN CONSTRUCTION
- NEW CHANNELIZED ISLANDS CONSTRUCTION
- FINAL PAVING, STRIPPING & SIGN INSTALLATION

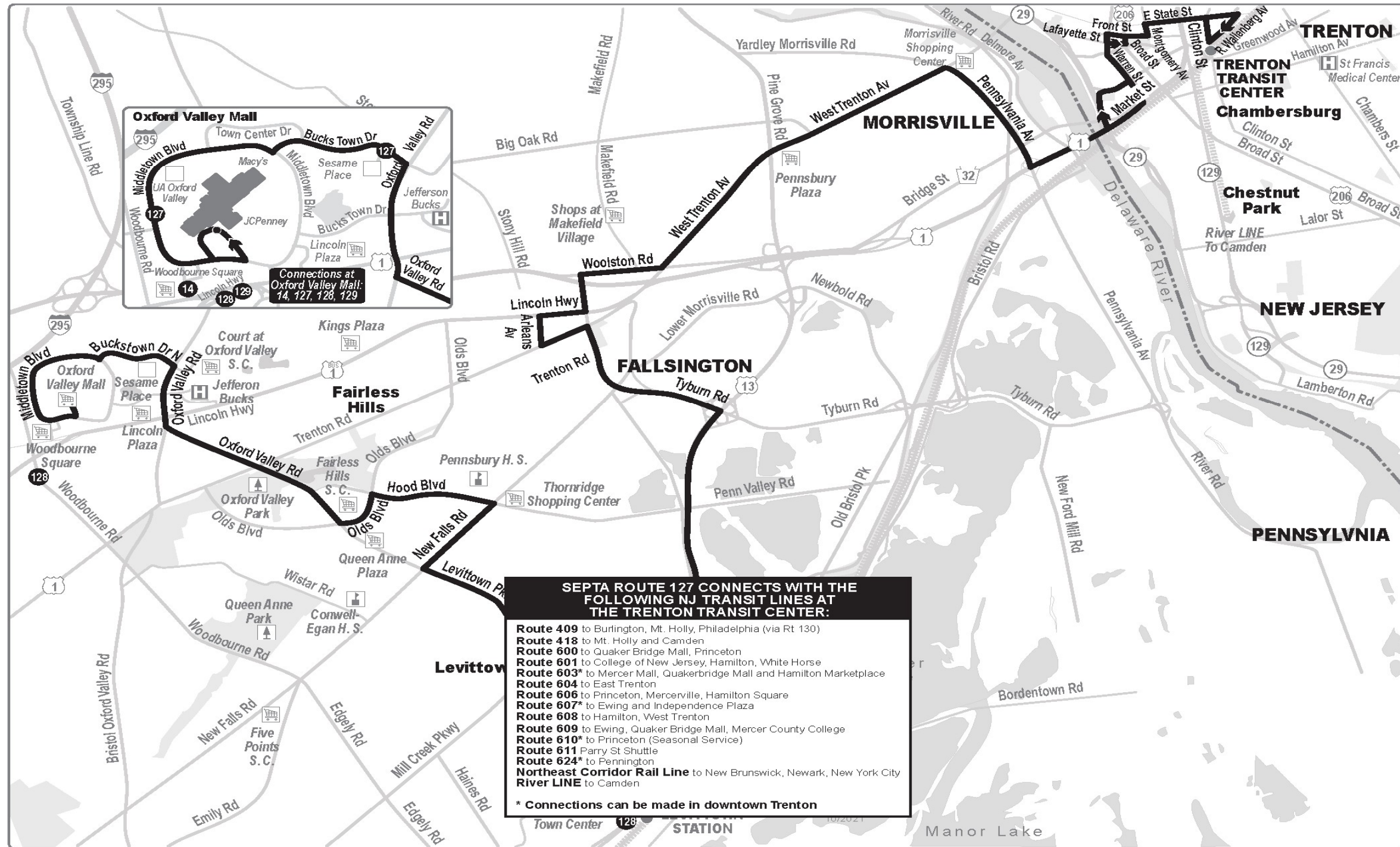


STAGE 7 SHORT-TERM
TRAFFIC CONTROL PLAN



SEPTA ROUTE 127

Route 127



QUESTIONS



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