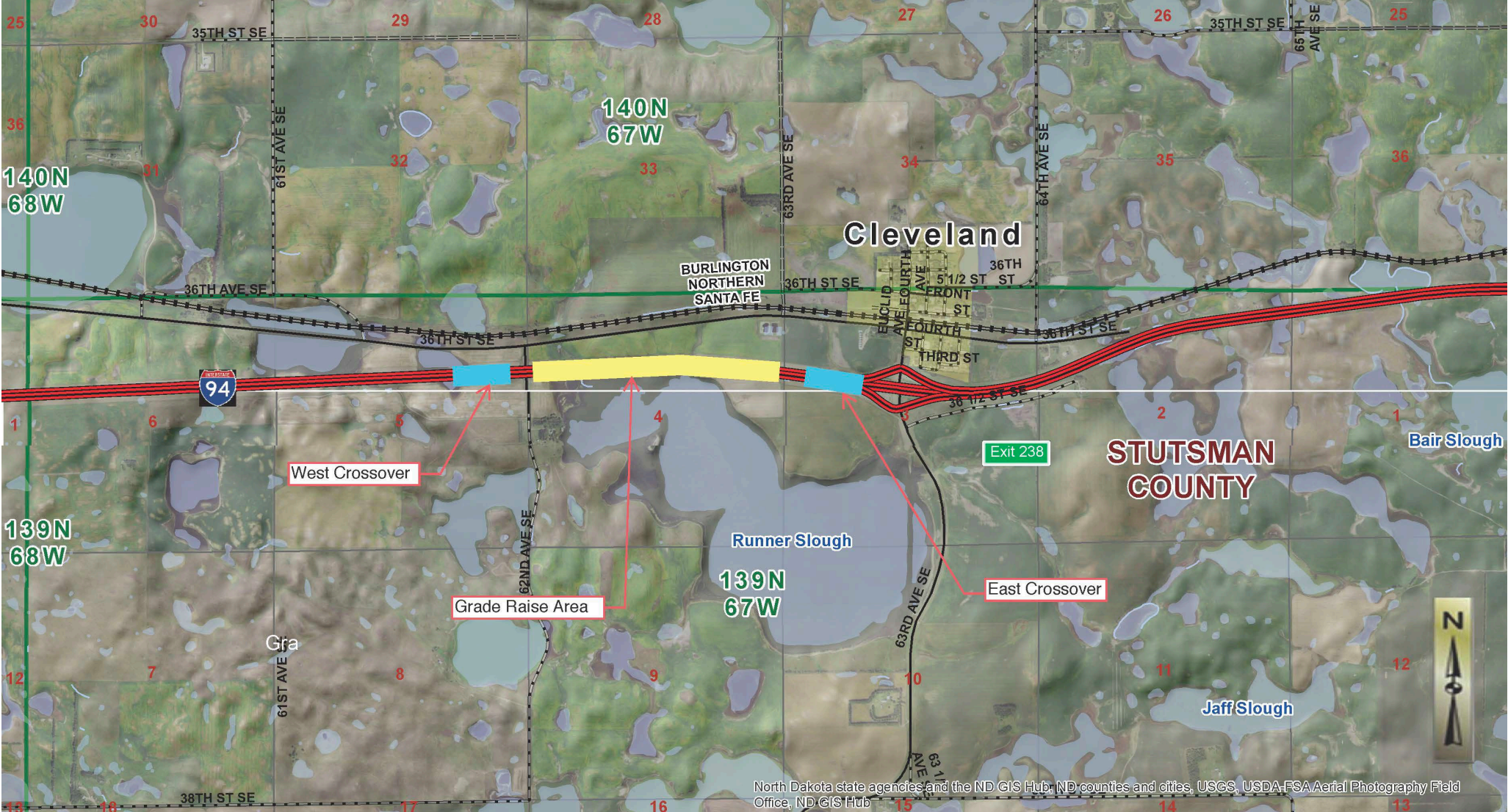


Cleveland Grade Raise



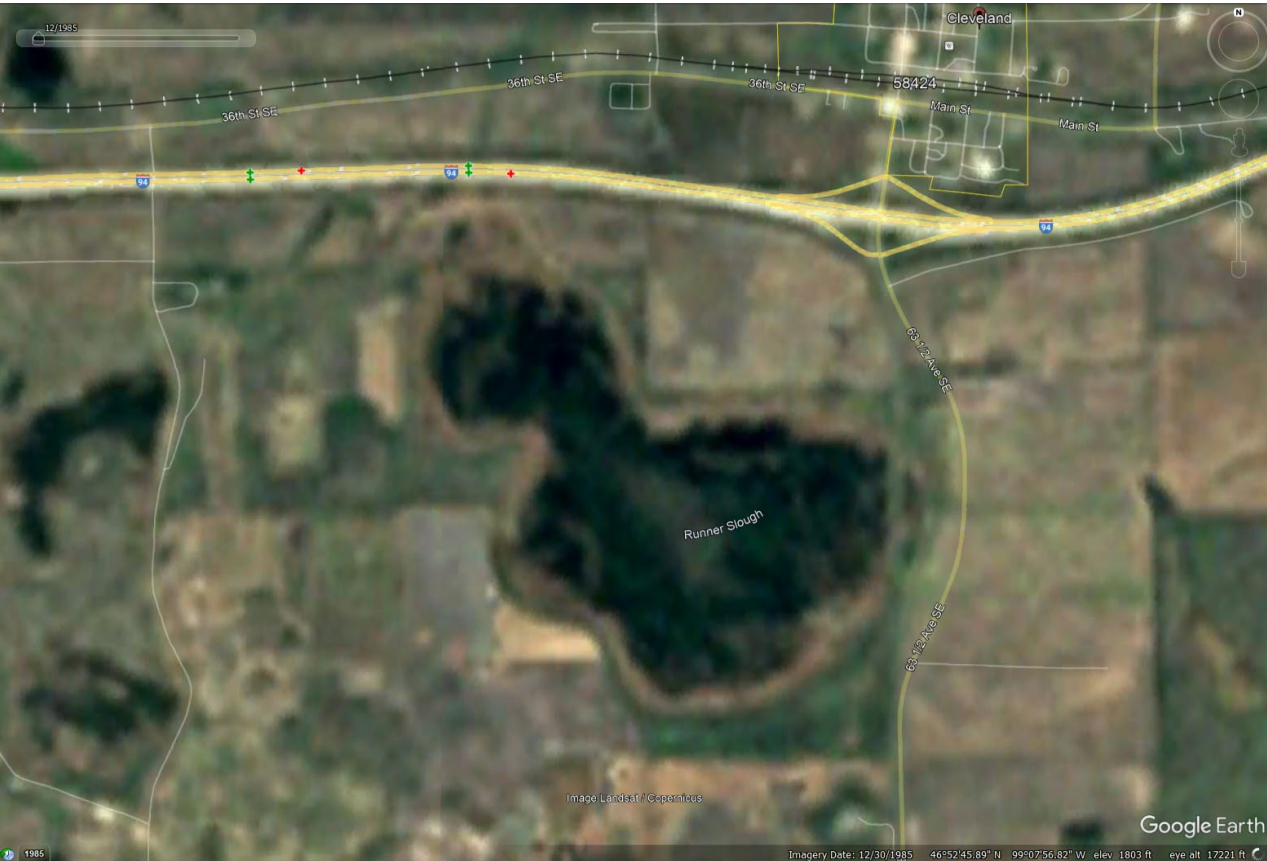
Project IM-2-094(210)237 – PCN 24461

Cleveland Grade Raise

Roadway History

- **1958** - Originally graded in 1958
Surfaced with 4" of Recycled HBP
- **1986** - 10" of recycled PCC
- **2012-2015** - Concrete Pavement Repair
- **2014** – Shoulder and Inslope repair on EB Roadway
- **2018** – 4.4" HBP Overlay on EB Roadway
- **2024** – Emergency Grade Raise
Raised Roadway centerline 4.5'
18" Aggregate Base
6" Hot Bituminous Pavement

Runner Slough Proposed Grade Raise Area

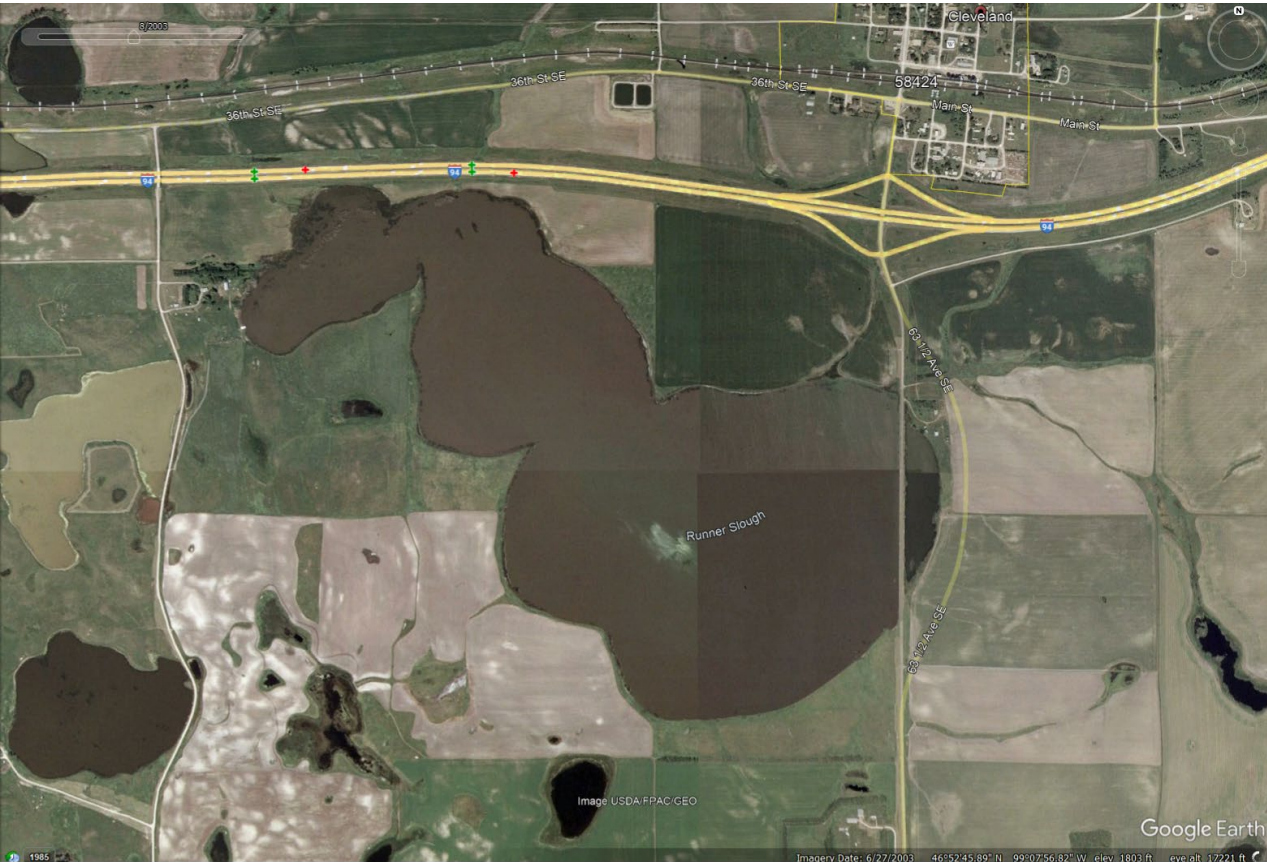


December 1985
Estimated WSE: 1780'



September 1997
Estimated WSE: 1784'

Runner Slough Proposed Grade Raise Area

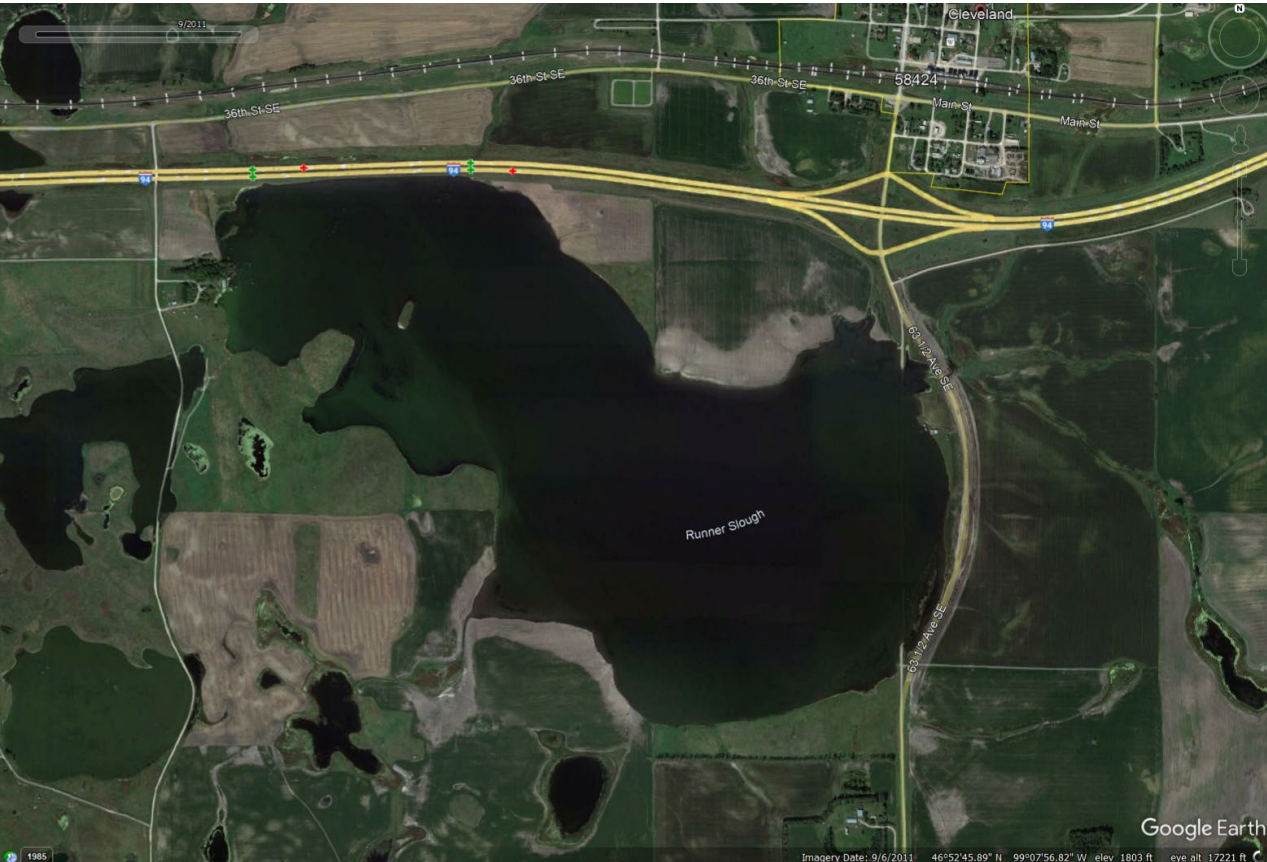


August 2003
Estimated WSE: 1785'



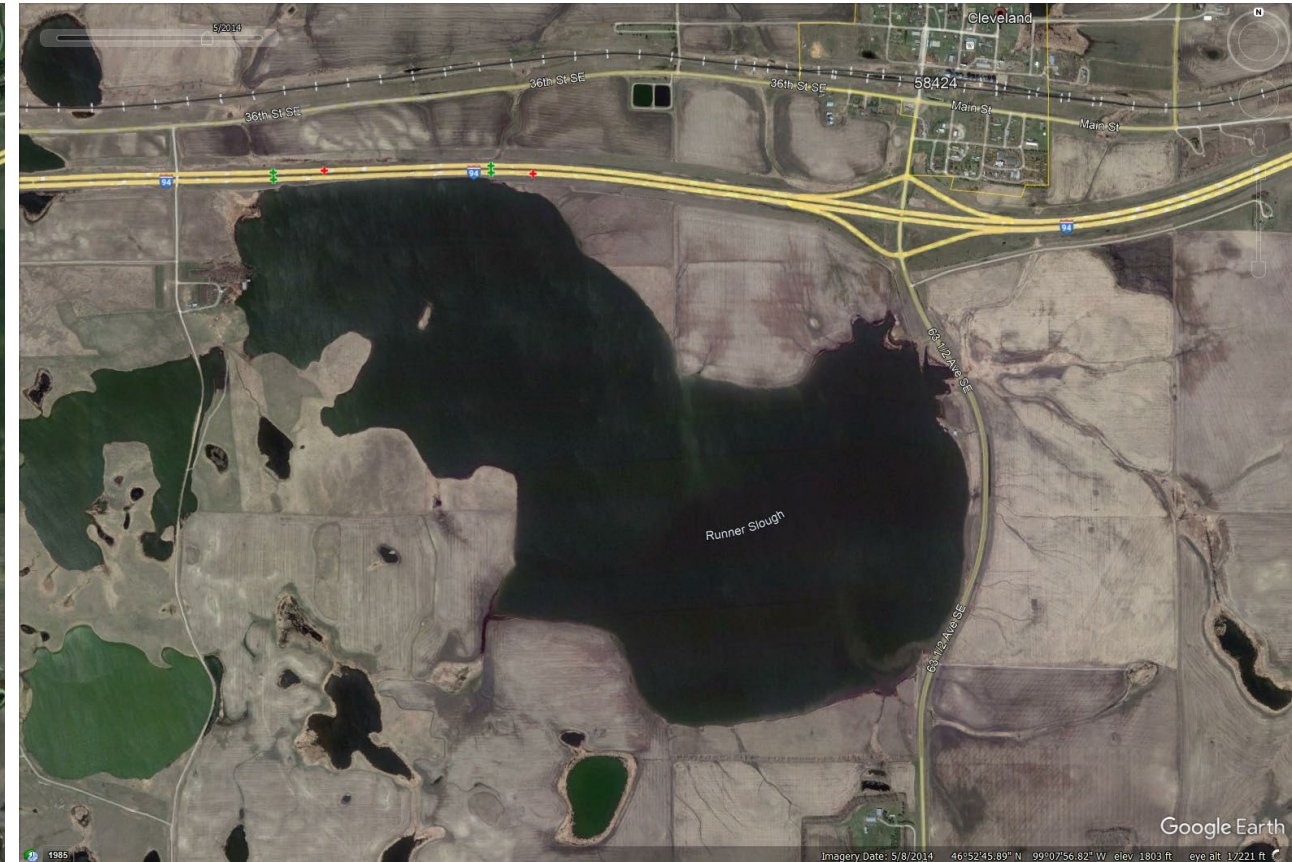
August 2009
Estimated WSE: 1792'

Runner Slough Proposed Grade Raise Area



September 2011

Estimated WSE: 1794'



May 2014

Estimated WSE: 1795'

Runner Slough Proposed Grade Raise Area



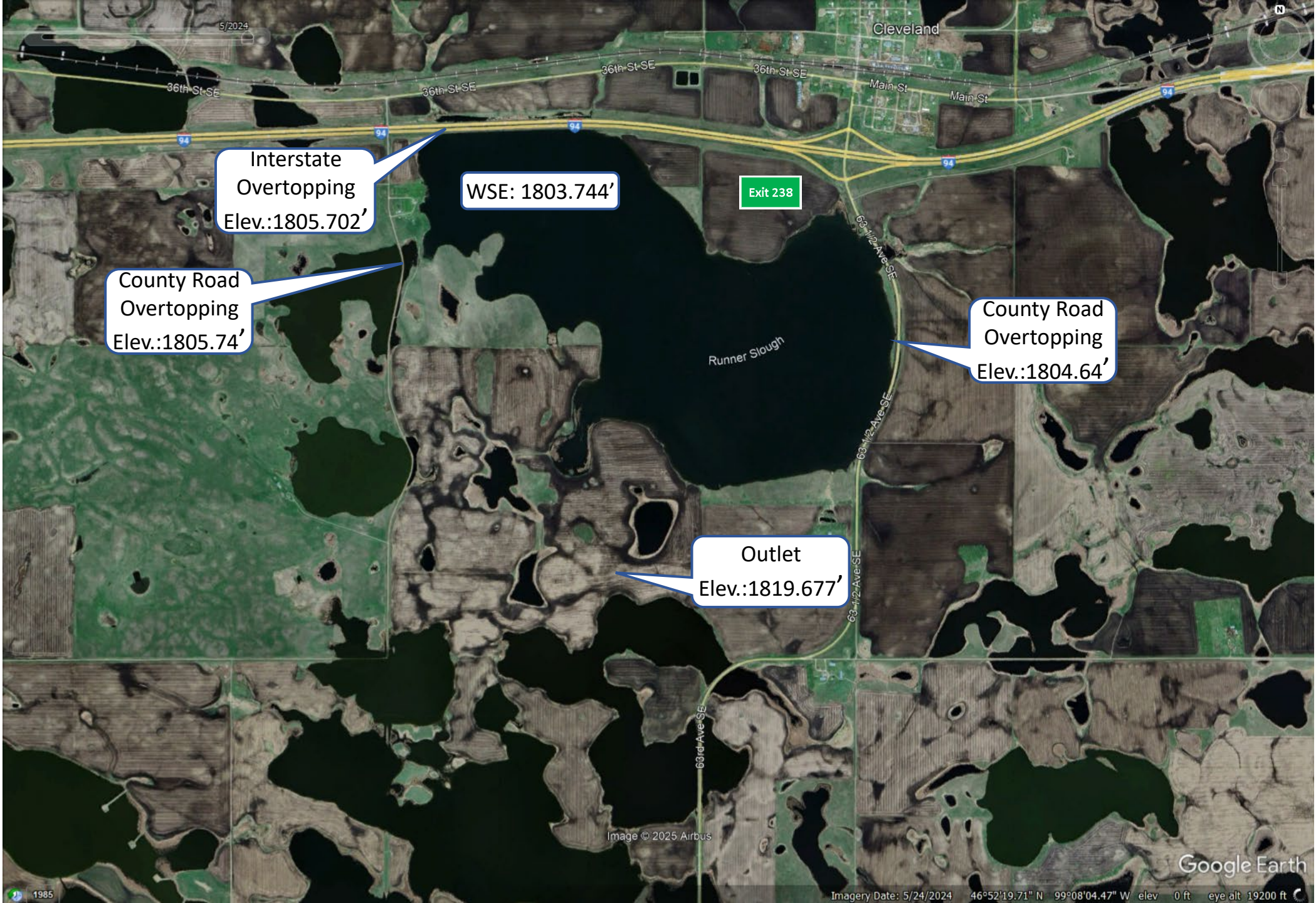
October 2020

Estimated WSE: 1797'



May 2024

Estimated WSE: 1803'



Interstate
Overtopping
Elev.:1805.702'

WSE: 1803.744'

Exit 238

County Road
Overtopping
Elev.:1805.74'

County Road
Overtopping
Elev.:1804.64'

Outlet
Elev.:1819.677'

Cleveland Grade Raise

Why now?

June 2, 2024 Flood event I 94 – RP 237.5



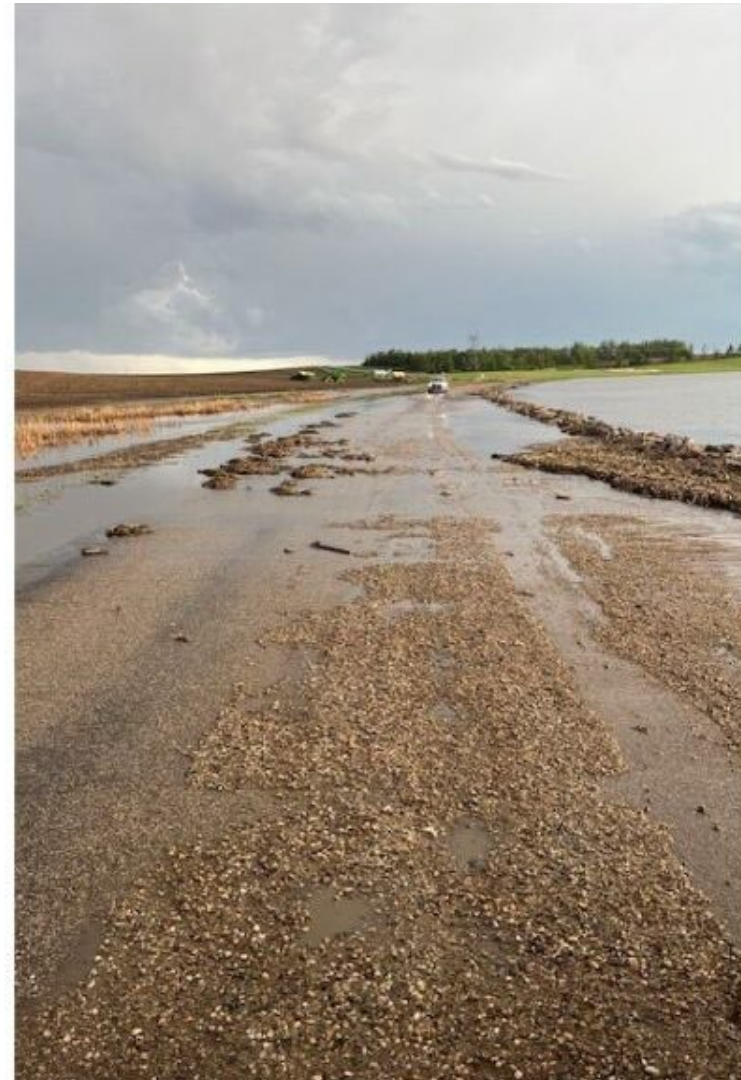
- Estimated 500-year event
- Rain Event Roughly 3 Hours Duration
- 4.58" of Rain just West of RP 237
- Flow Approximation = 273 CFS
- Water over both bounds I-94 from 6:00PM-10:00PM
- Reduced to single lanes



Cleveland Grade Raise



June 2, 2024, I-94 Looking East



June 2, 2024, 63 ½ Ave Looking South

Project IM-2-094(210)237 – PCN 24461



July 2024, I-94 Looking East

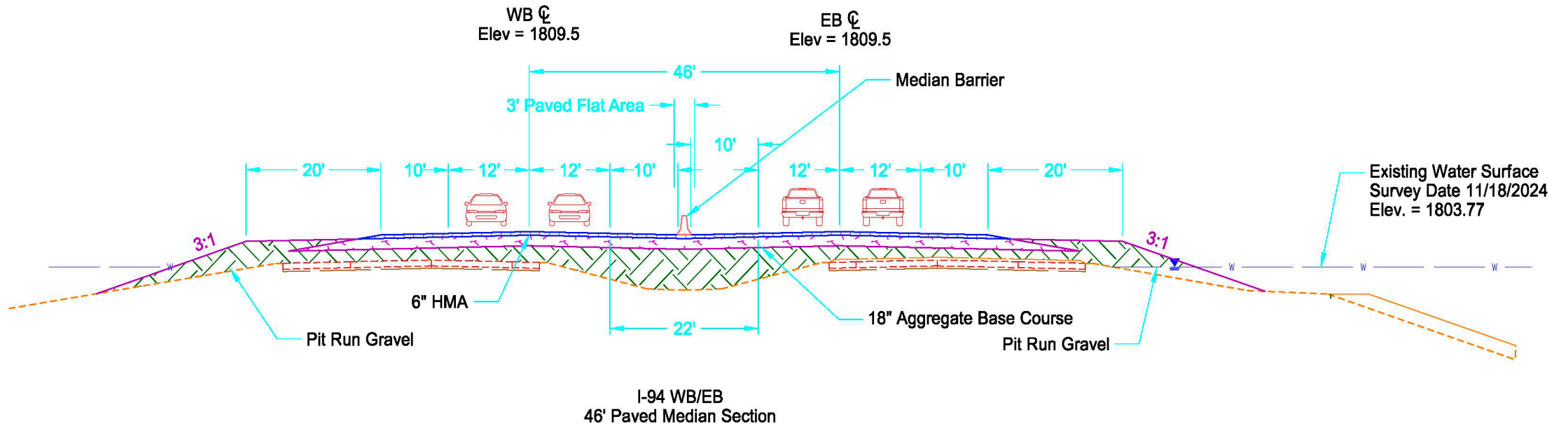
Cleveland Grade Raise

2024 Emergency Grade Raise

- Built early fall 2024
- Raise EB/WB roadways 4.1'
 - Roadway elevation went to 1809.50
 - 22' Paved Median
 - 18" Aggregate Base
 - 6.0" HBP
- 46' Centerline to Centerline
- Maintained roadway clear zones
- Installed 3 median drains
- Cost: \$ 3.5 Million

Cleveland Grade Raise

Existing Typical Section After Emergency Grade Raise



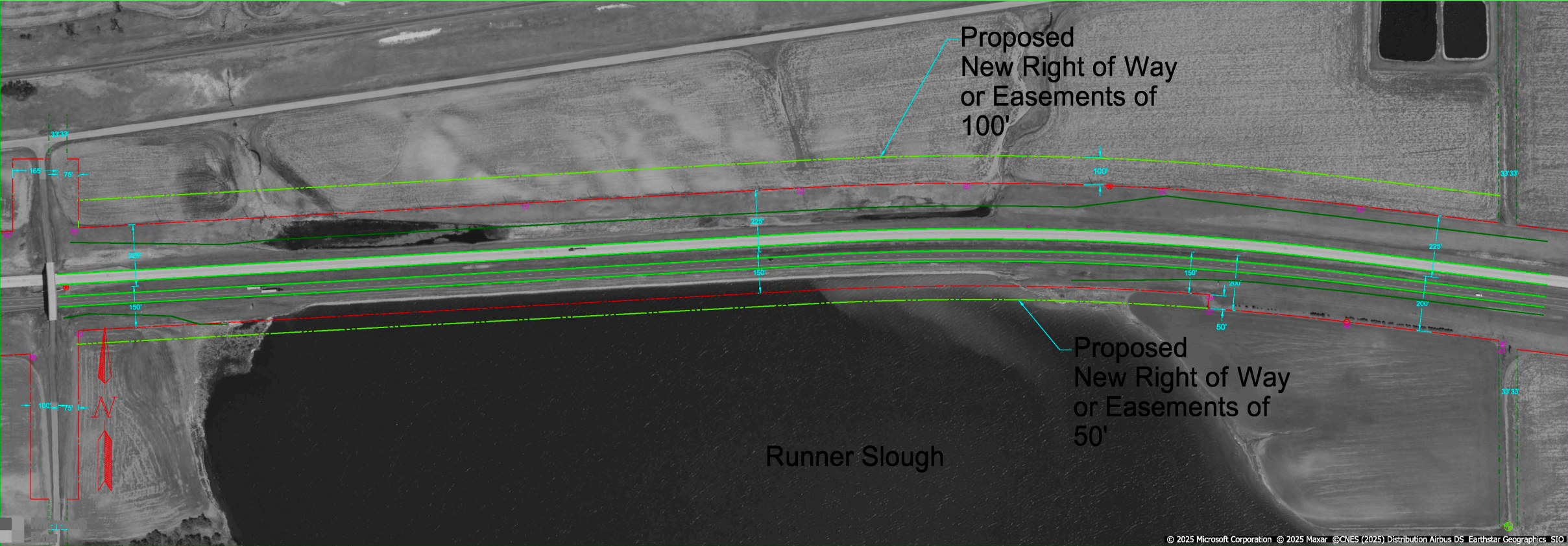
Cleveland Grade Raise

Project Overview

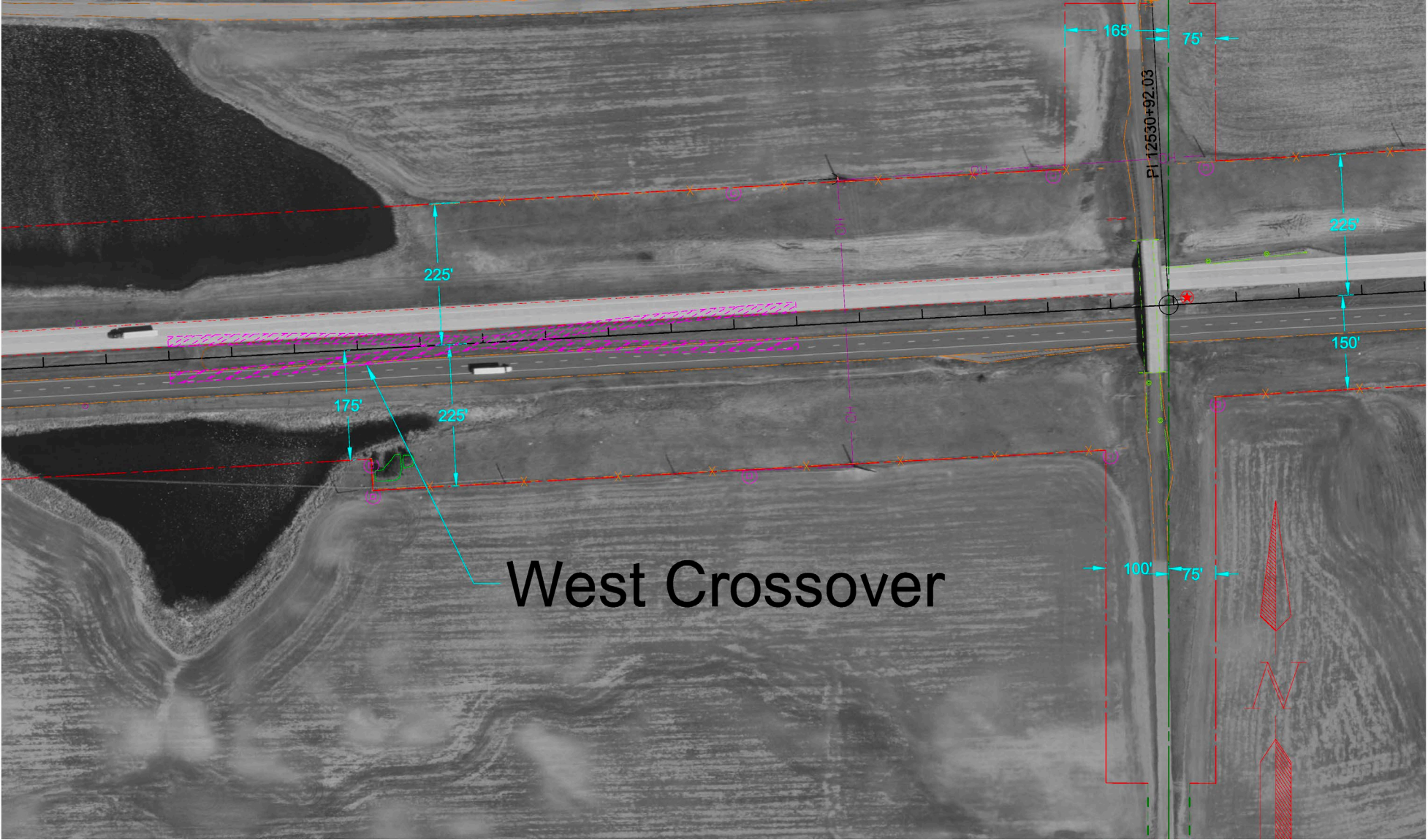
- Project to be constructed in 2026
- Raise EB/WB roadways 12.5'
 - Roadway elevation will be 1822.00, this is above the natural outflow of Runner Slough
 - 18" Aggregate Base
 - 8.5" HBP
- Re-establish 75' Centerline to Centerline Median
- Re-establish roadway clear zones
- Riprap inslopes for future protection
- Remove the existing median barriers
- Extend and install new culverts
- Cost: \$ 14.5 Million

Cleveland Grade Raise

Main Project Area

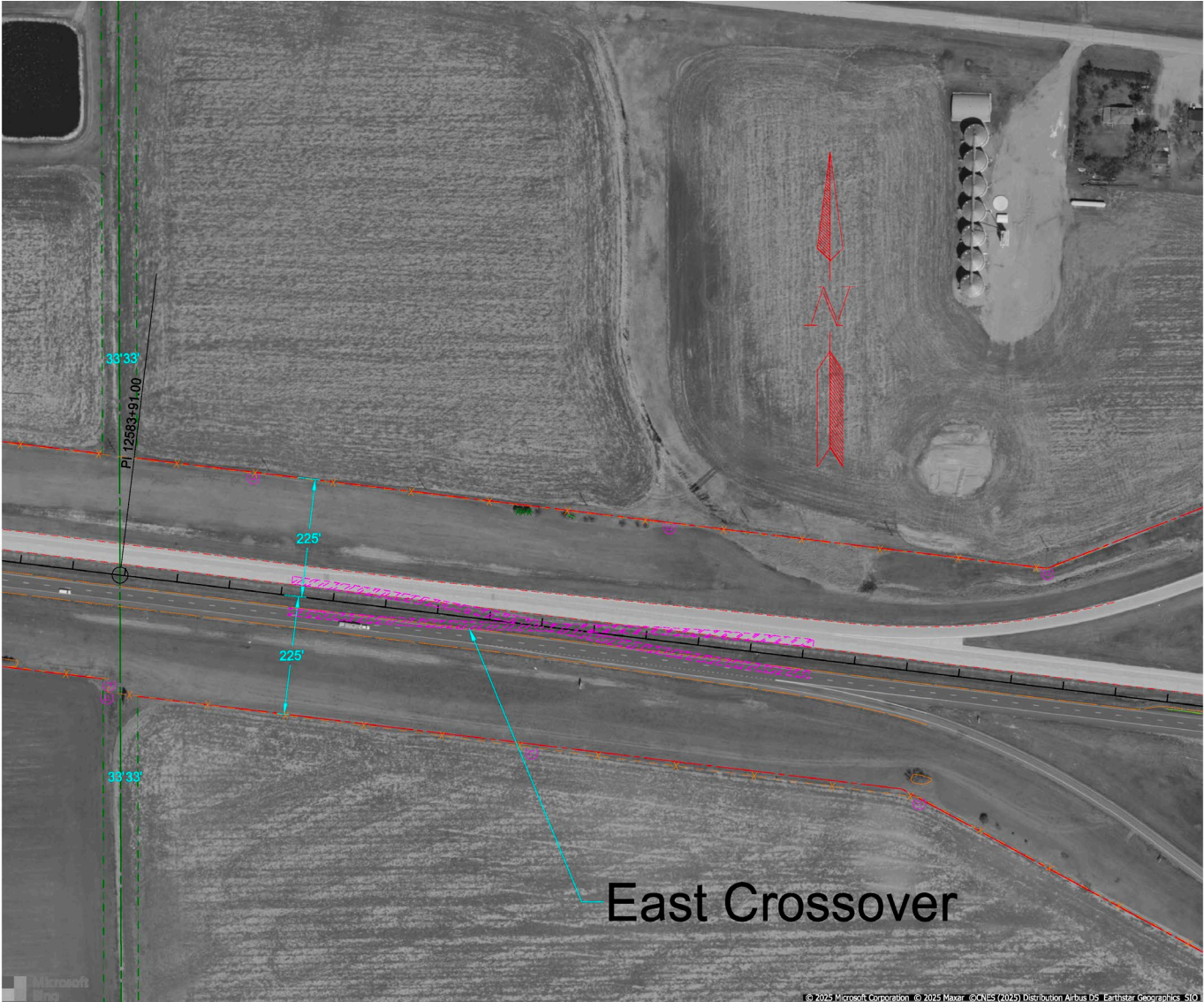


Cleveland Grade Raise



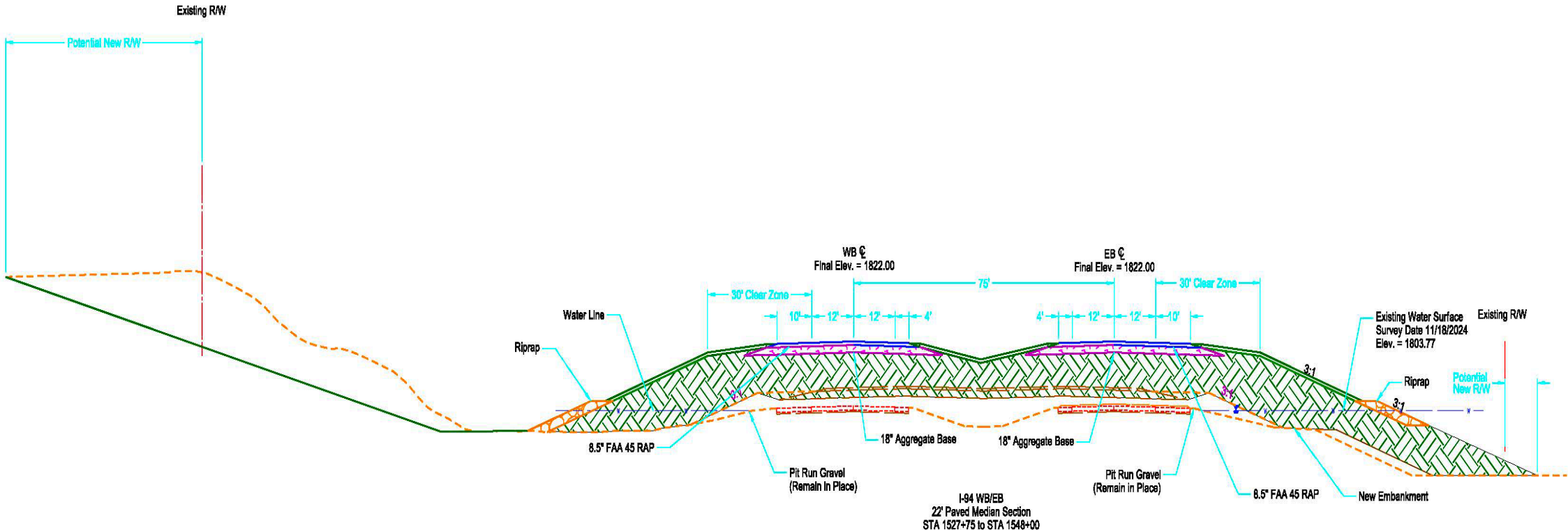
West Crossover

Cleveland Grade Raise



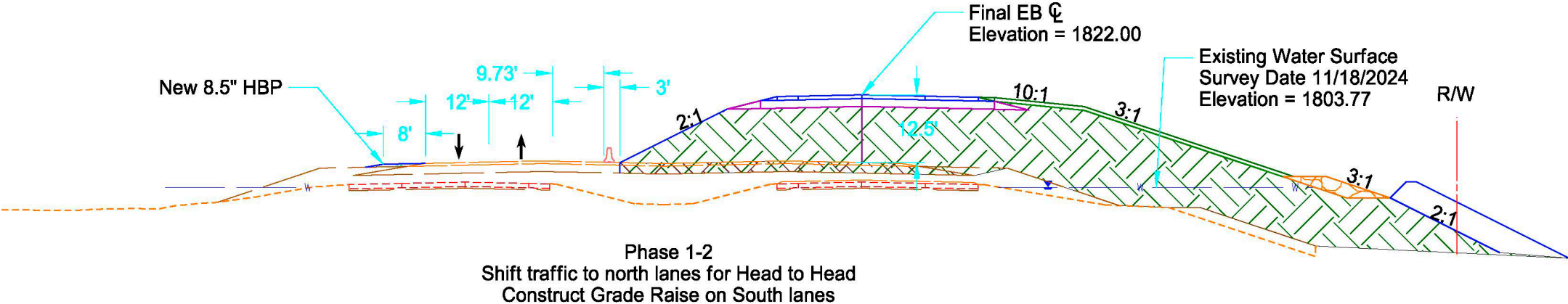
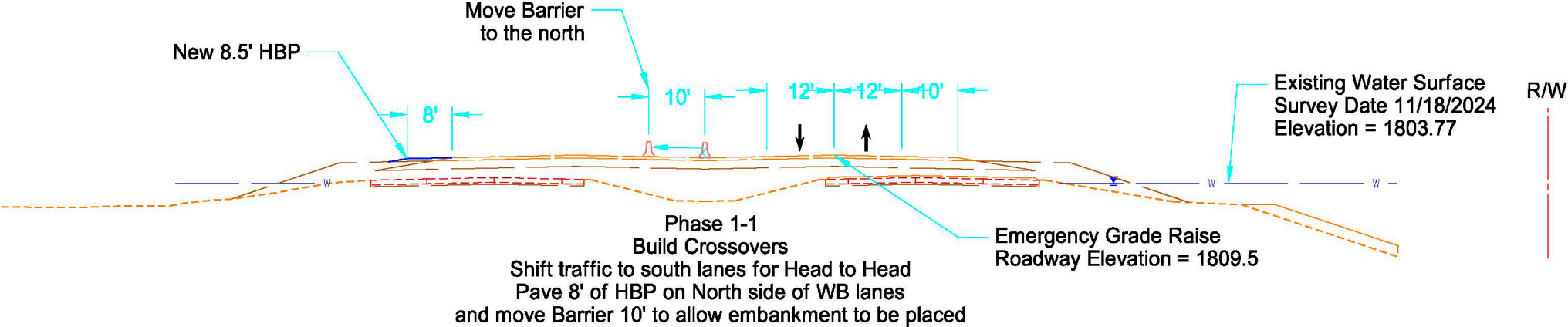
East Crossover

Cleveland Grade Raise



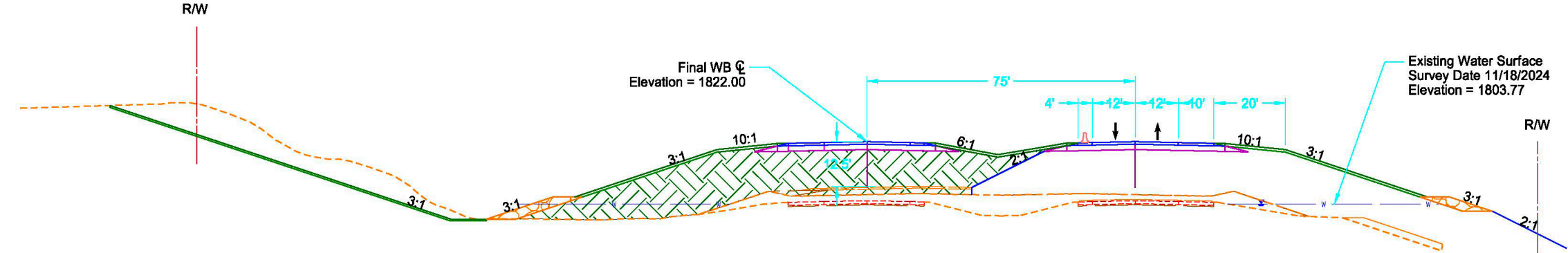
Final Typical Section

Cleveland Grade Raise

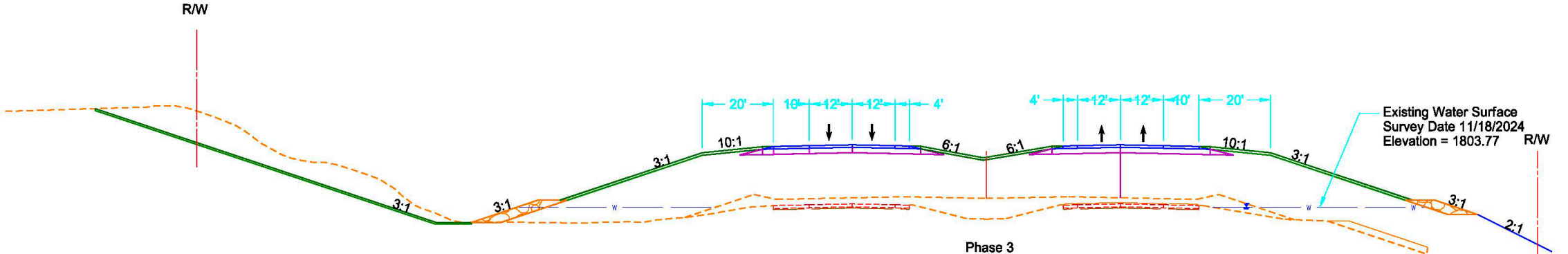


Construction Phasing

Cleveland Grade Raise



Phase 2
Shift traffic onto new EB lanes for Head to Head
Build WB lane Grade Raise

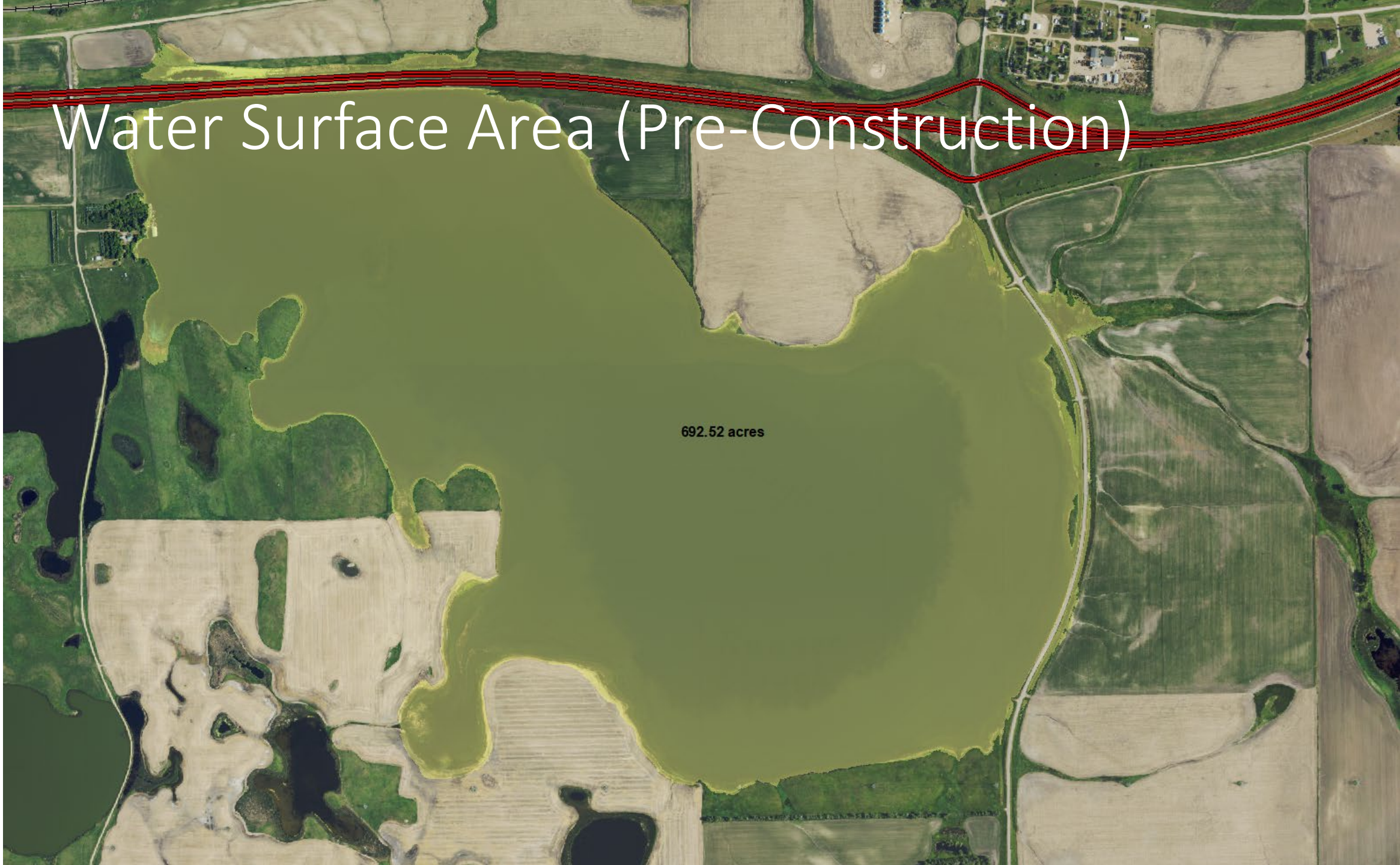


Phase 3
Shift all traffic back to EB/WB traffic
Remove Crossovers
Will require New R/W and or Easements

Construction Phasing

Water Surface Area (Pre-Construction)

692.52 acres



Water Surface Area (Post-Construction)

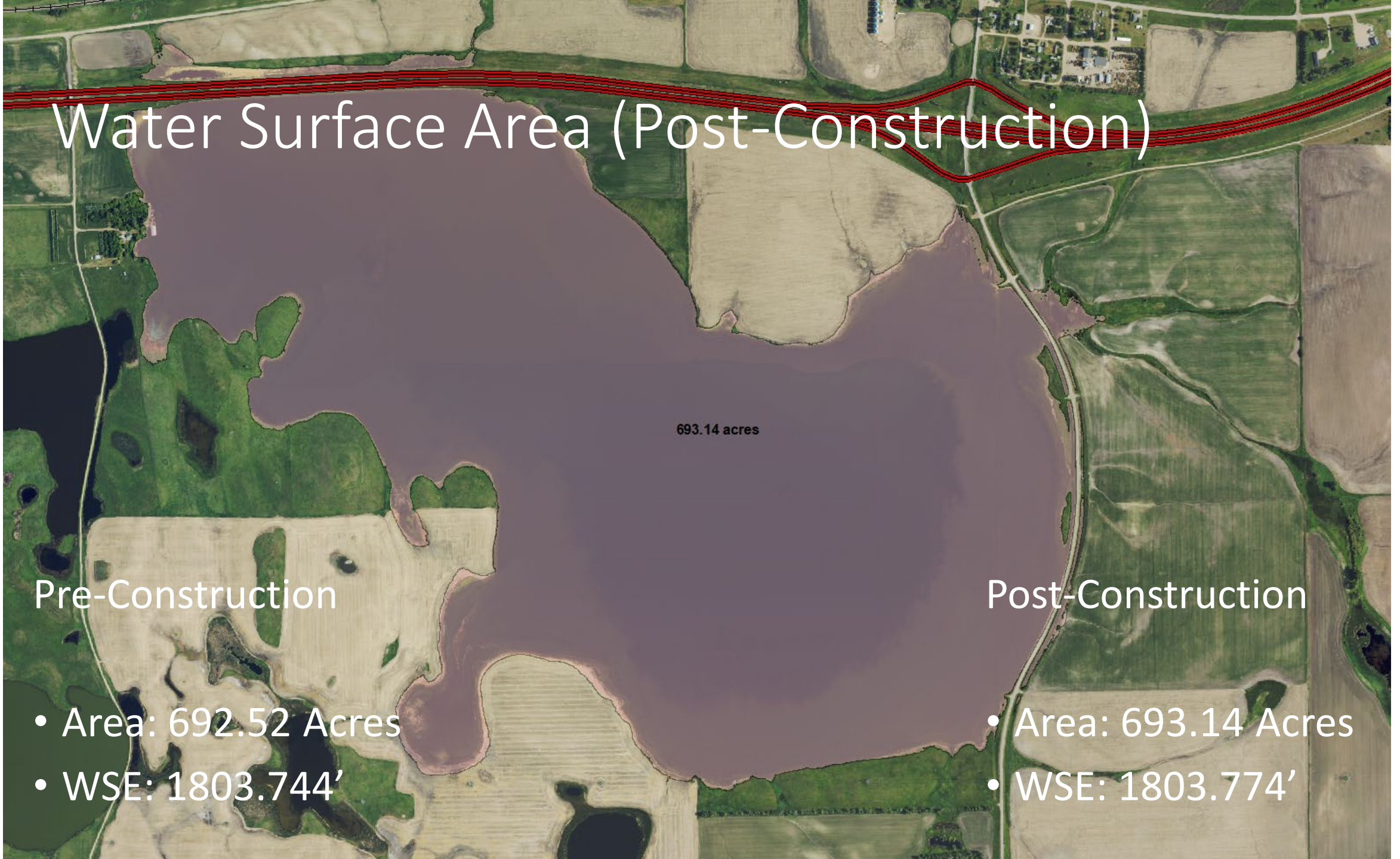
693.14 acres

Pre-Construction

- Area: 692.52 Acres
- WSE: 1803.744'

Post-Construction

- Area: 693.14 Acres
- WSE: 1803.774'



Cleveland Grade Raise

Questions?