



Lake Okeechobee Fast Track (LOFT) Project Basis of Design Report (BODR)

Water Resources Advisory
Commission

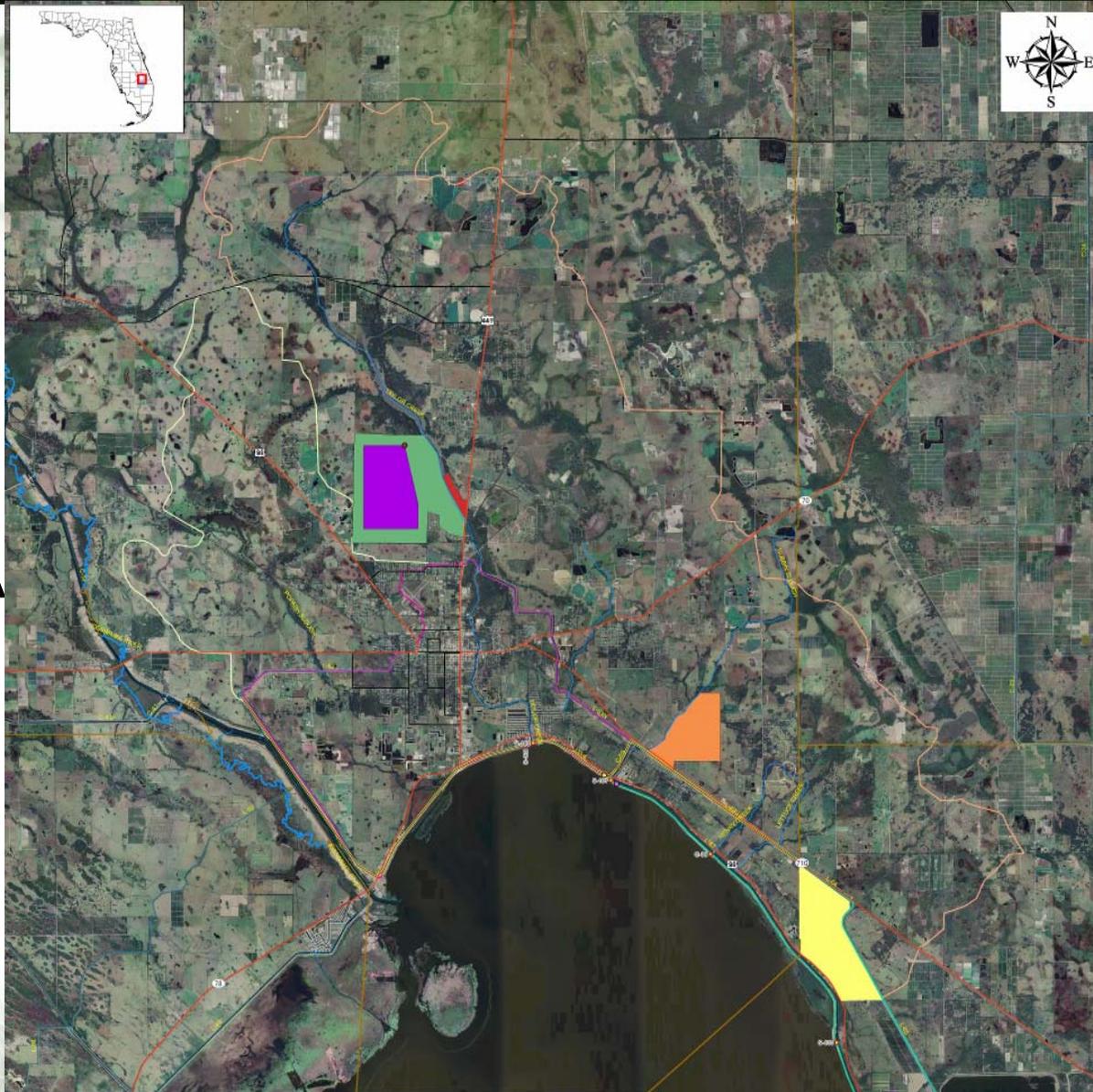
December 6, 2006

Project Goal

Achieve maximum practicable total phosphorous removal for the available budget

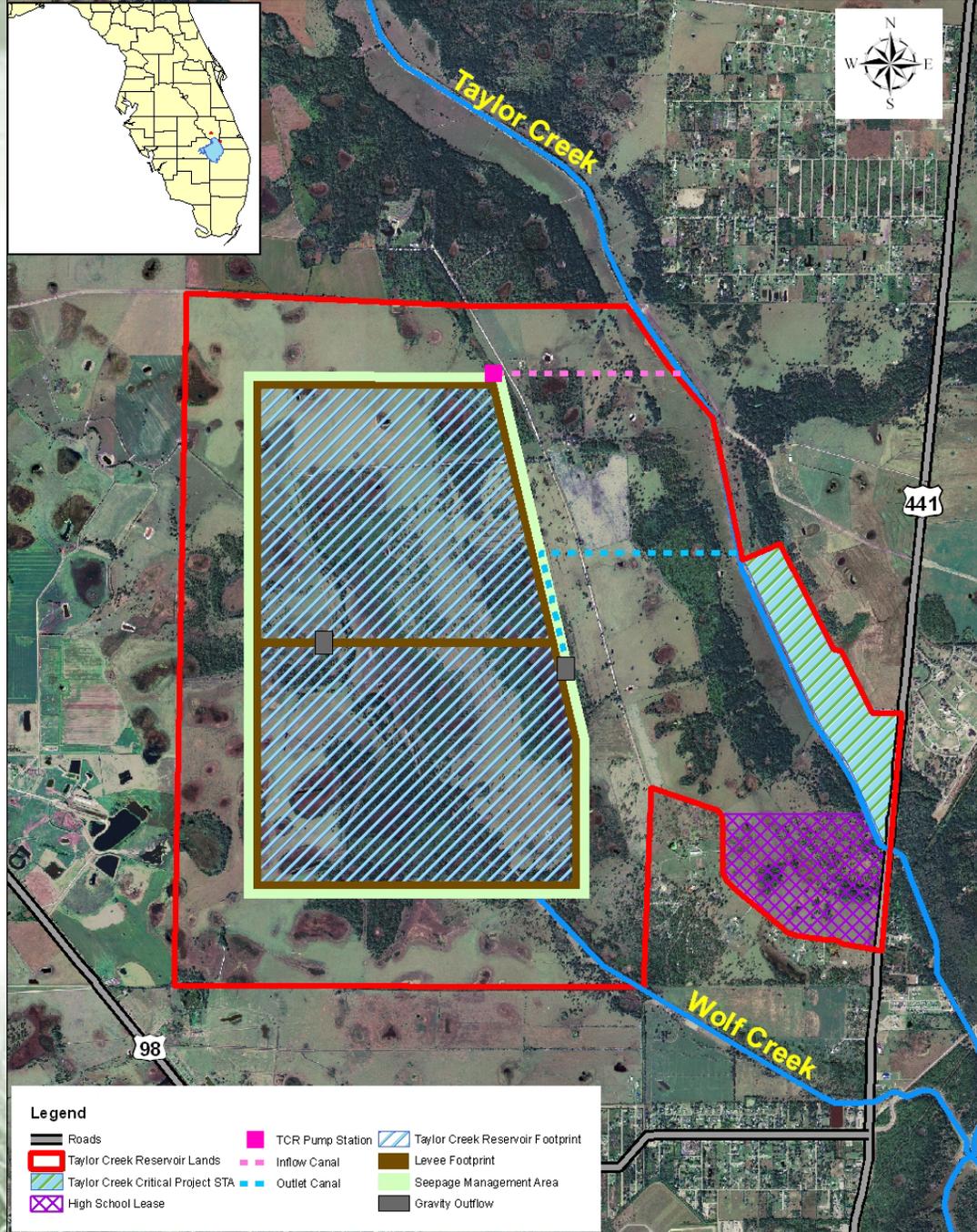
LOFT Project Components

- Taylor Creek Reservoir
- Lakeside Ranch STA
- S-133/191 Subbasin Re-routing
- S-154 Subbasin Re-routing

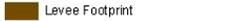
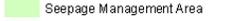
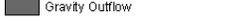


Legend			
■ Taylor Creek STA	○ Lakeside Ranch STA PS	— Creek	□ S-133 Subbasin
■ Additional District Property	○ PS 191 B/C (L-47)	— Primary Canal	□ S-135 Subbasin
■ Taylor Creek Reservoir	○ PS 191A (LD-4)	— River	□ S-154 Subbasin
■ Lakeside Ranch	○ Taylor Creek Reservoir PS	— Reroute	□ S-191 Subbasin
■ Nubbin Slough Critical STA	○ Control Flow Structures	— Roads	□ County Boundaries

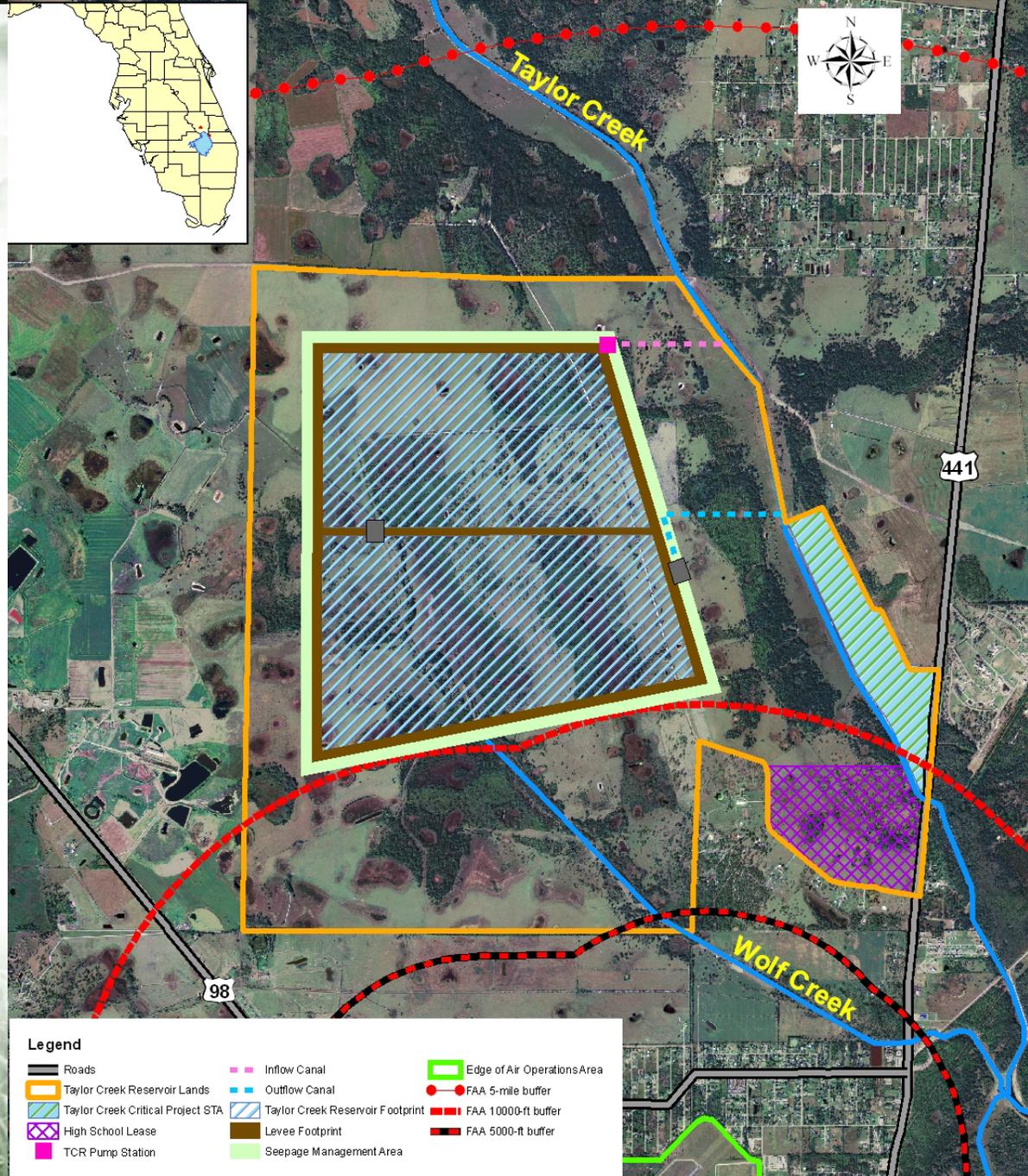
Taylor Creek Reservoir Alternative 2B



Legend

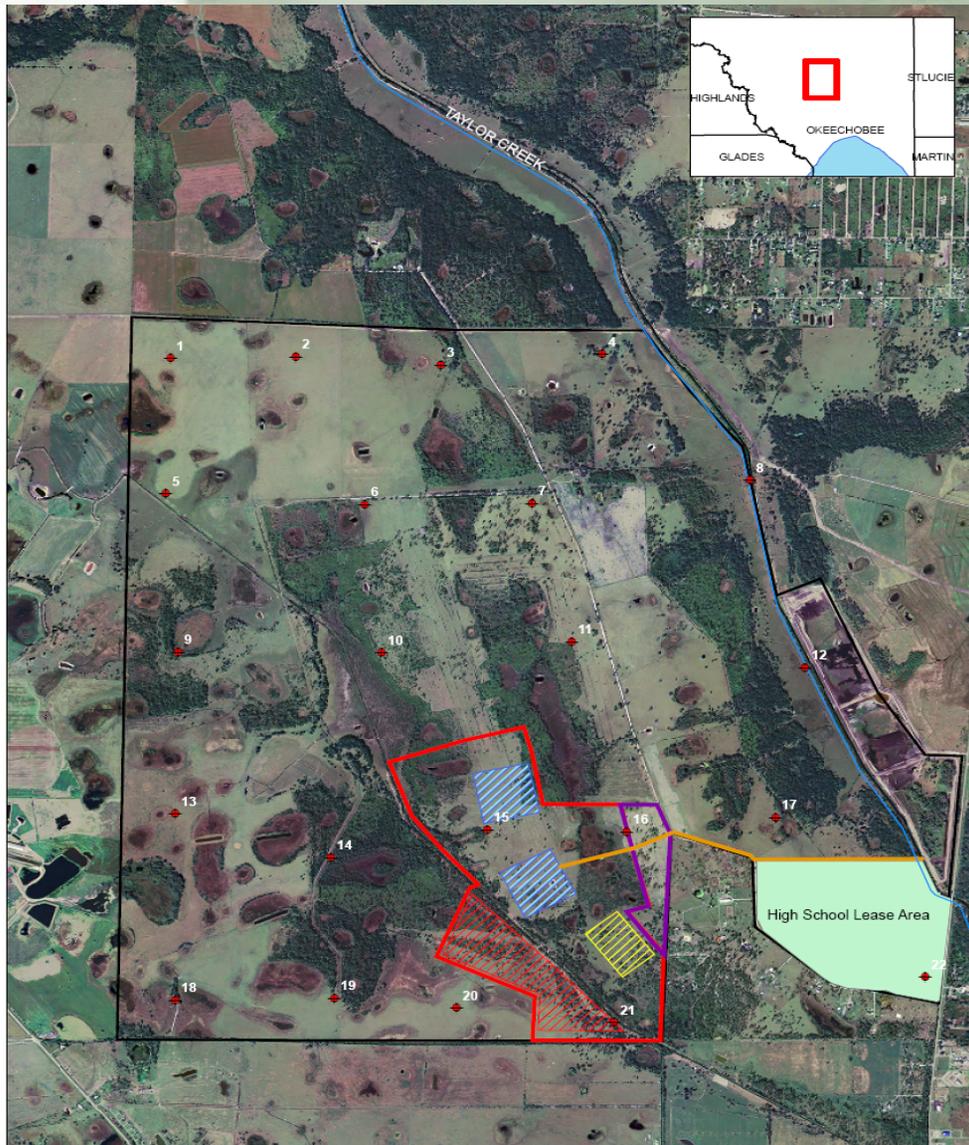
-  Roads
-  Taylor Creek Reservoir Lands
-  Taylor Creek Critical Project STA
-  High School Lease
-  TCR Pump Station
-  Inflow Canal
-  Outlet Canal
-  Taylor Creek Reservoir Footprint
-  Levee Footprint
-  Seepage Management Area
-  Gravity Outflow

Taylor Creek Reservoir Alternative 5



Reservoir Test Cell Objectives

- Obtain seepage data (recoverable and non-recoverable)
- Evaluate seepage control systems including soil-bentonite cutoff wall
- Evaluate stability of onsite materials
- Determine potential construction issues relative to dewatering and excavation

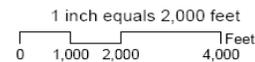


Legend

Exploration Group Location	Road Access
Test Cells	Pipe Easement
Sedimentation Pond	CREEK
Borrow Area	PRIMARY CANAL
Limits of Construction	RIVER

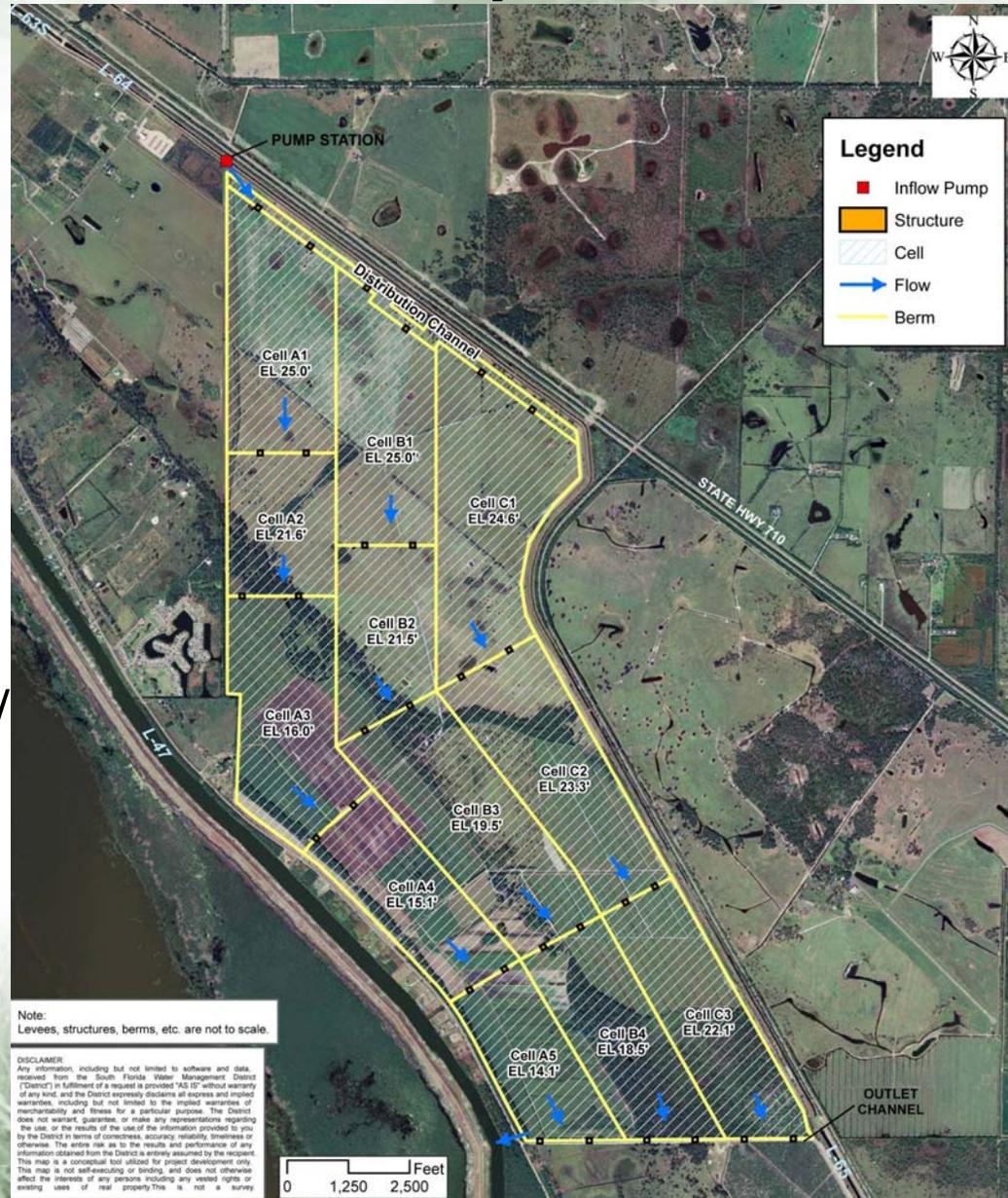
Approximate Dimensions:

Sedimentation Pond: 1200' x 800'
 Borrow Area: 80 Acres
 Each Test Cell: 1100' x 1100' to outside of seepage control canal
 Limits of Construction Area: 512 Acres
 Roadway Access Area: 44 Acres

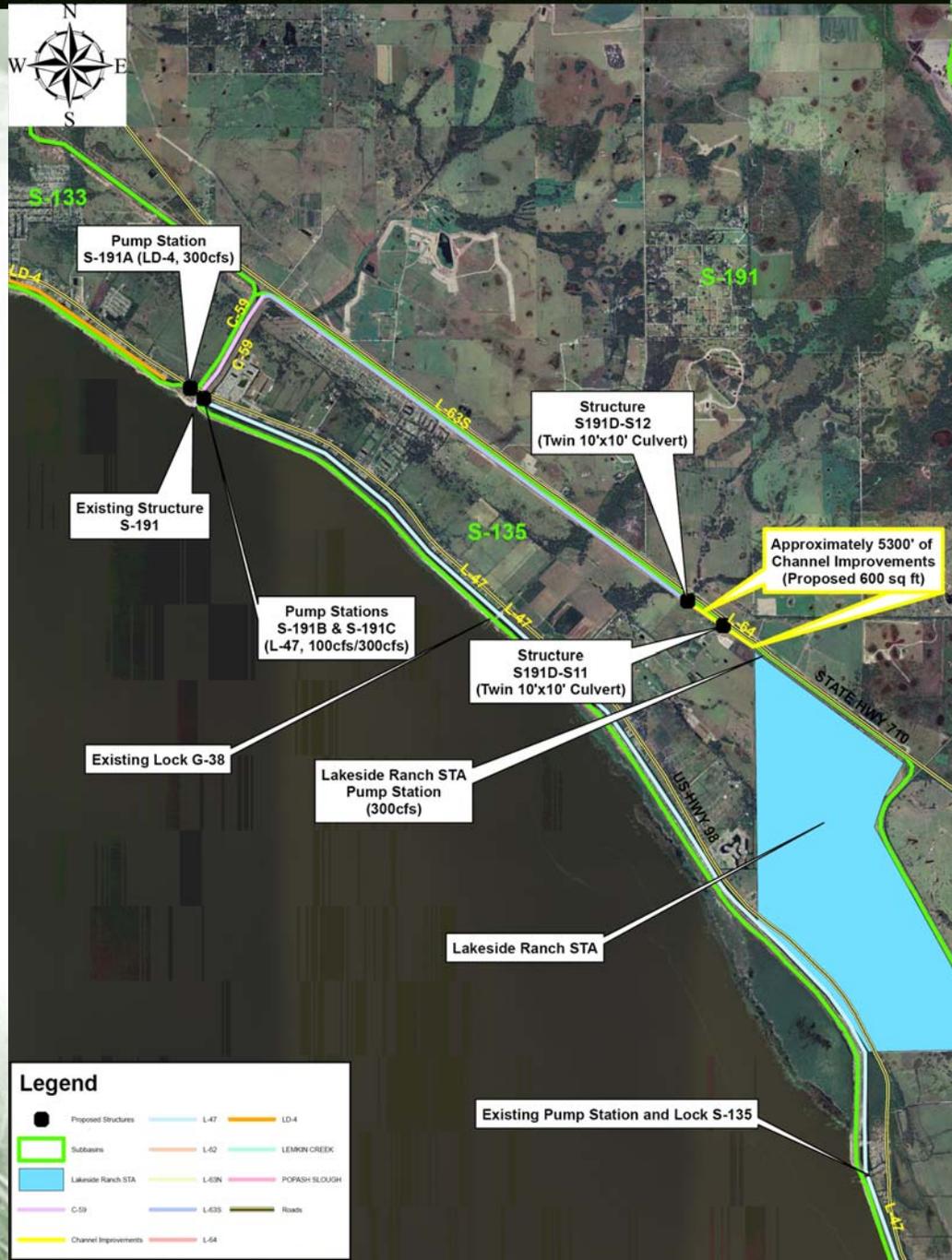


Lakeside Ranch Conceptual Alternative 4

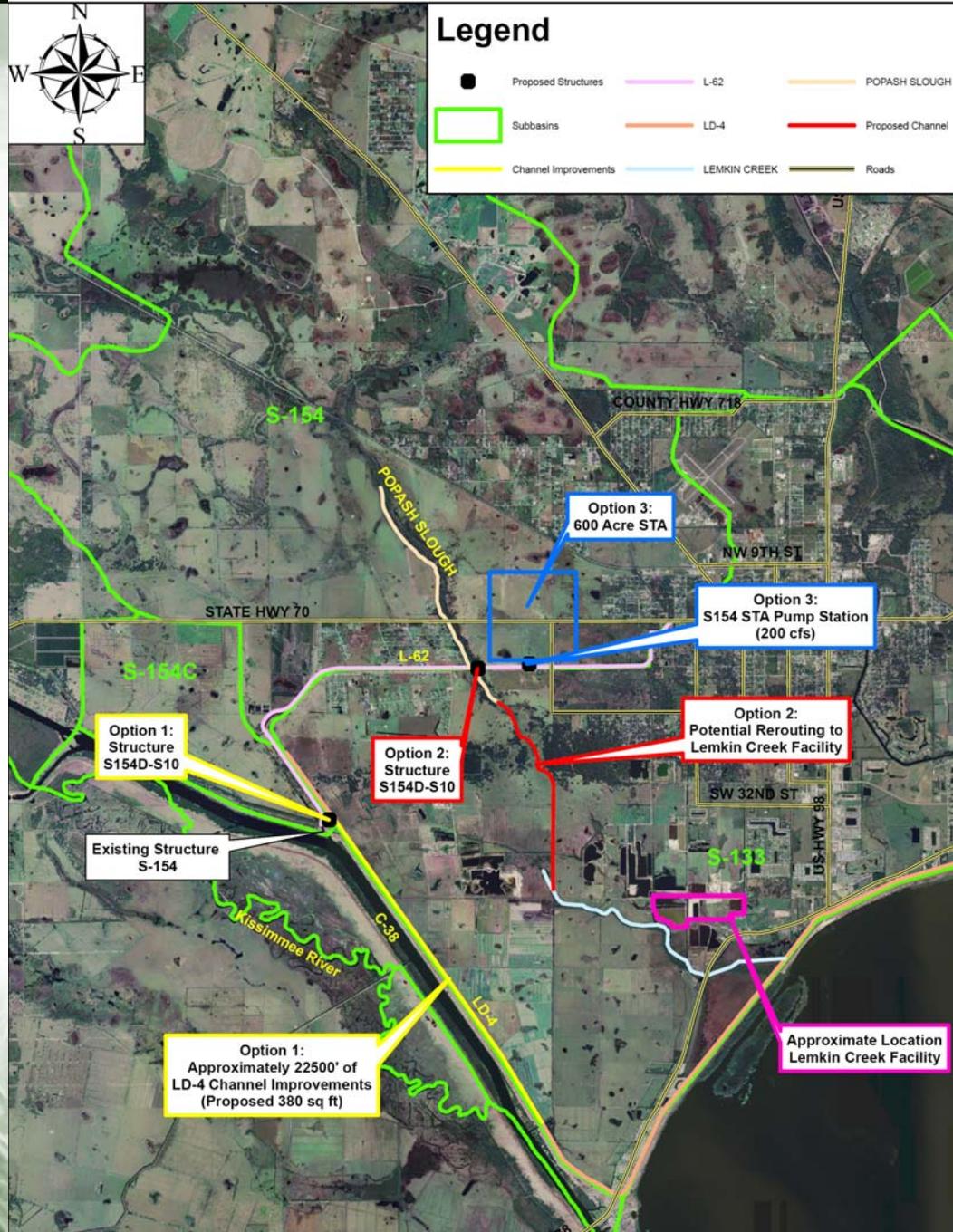
- 12 Cells
- Cell Configuration Based on Existing Topography
- Terraced Berms at Elevation Drop
- Distribution/Redistribution/Collection Channels to be Determined
- Minimizes earthwork



S-133/191 Re-Routing



S-154 Re-Routing



Estimates of Ranges of TP Removal and Flow Volume Processed for Existing Land Use and BMP Conditions

Component	Annual TP Removal (Mton/Yr)	Annual Water Processed (Ac-Ft/Yr)
Taylor Creek Reservoir	6.9	16,000
Lakeside Ranch STA	19.4	112,000
Totals	26.3	128,000

Recreation Opportunities

- Access roads and bridges
- Parking areas
- Information kiosks
- Canoe launch sites
- Motor boat ramps

Construction Schedule

- Test Cell: Mar 2007 – Jun 2007
- Lakeside Ranch STA : Mar 2008 – Dec 2009
- S-133 Rerouting: Mar 2008 – Dec 2009
- Taylor Creek Reservoir: Mar 2008 – Sep 2010

Opinion of Probable Construction Cost

- Taylor Creek Reservoir, Test Cell Program, Lakeside Ranch STA and S-133 Rerouting:
\$260 million
- Current Construction Budget:
\$181 million

Workshop Issues

- Road repair at Taylor Creek Reservoir
- Off-site groundwater impacts
- Dam safety
- Lakeside Ranch discharge location
- Water level impact to canals
- Need for homeowner flood insurance
- Recreation opportunities

CDM

Questions?