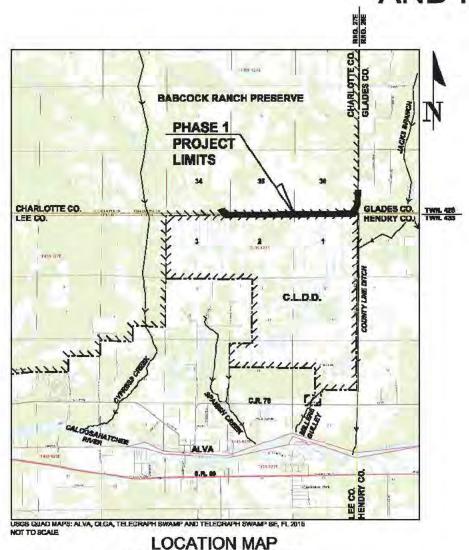
## COUNTY LINE DRAINAGE DISTRICT (C.L.D.D.) - BABCOCK RANCH PRESERVE (B.R.P.) DISPERSED WATER STORAGE PHASE 1 IMPROVEMENTS

COUNTY LINE DRAINAGE DISTRICT

IN COOPERATION WITH

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
AND FLORIDA FOREST SERVICE



CHARLOTTE COUNTY
AND LEE COUNTY, FLORIDA

**JULY 2016** 

## SHEET INDEX:

- 1 COVER SHEET & LOCATION MAP
- 2 OVERALL PLAN & TYPICAL SECTIONS
- 3-6 PLAN SHEETS
- 7 DETAILS

PREPARED BY:

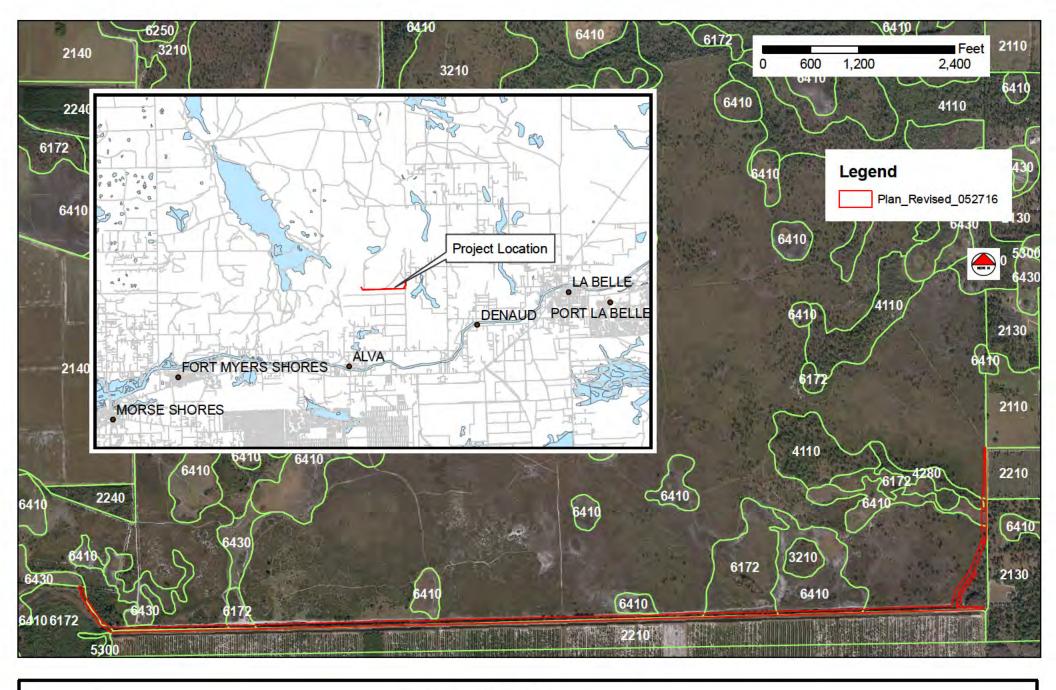
Grandusky, Lumb and Associates, LLC

Water Resource and Environmental Consultants
8226 Waterway Drive
Wast Pulm Beach, Planish 33406
Ph. 561-386-8219

C.L.D.D. - B.R.P.
DISPERSED WATER STORAGE
PHASE 1 IMPROVEMENTS
COVER

DATE: JULY 2018

SHEETN



BKI, Inc. Consulting Ecologists 225 Fifth Avenue, Suite 2 Indialantic, Florida 32903 321-951-7964 Name: Location Map

Project: Babcock Water Storage

Project No.: 15006

Source: FDEP, SFWMD Land Use Map (2008) Note: All boundaries and locations are approximate Figure

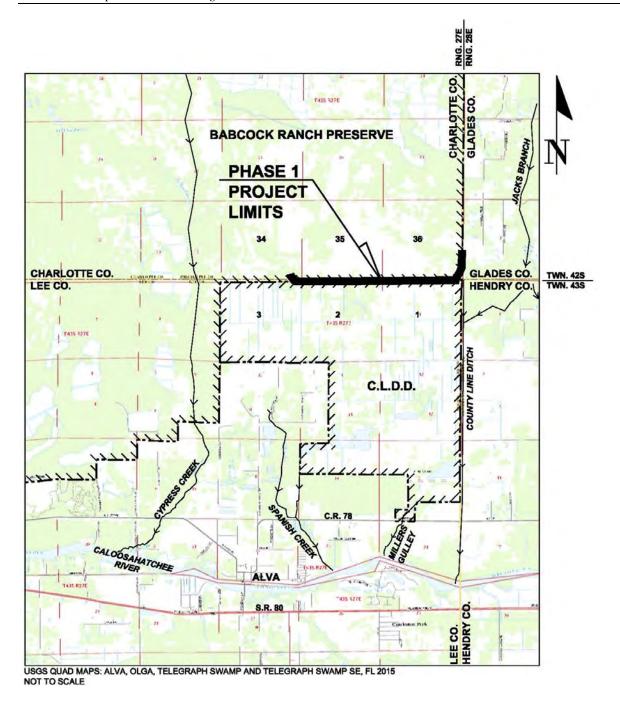


Figure 1. CLDD-BRP Dispersed Water Storage Project Location Map.

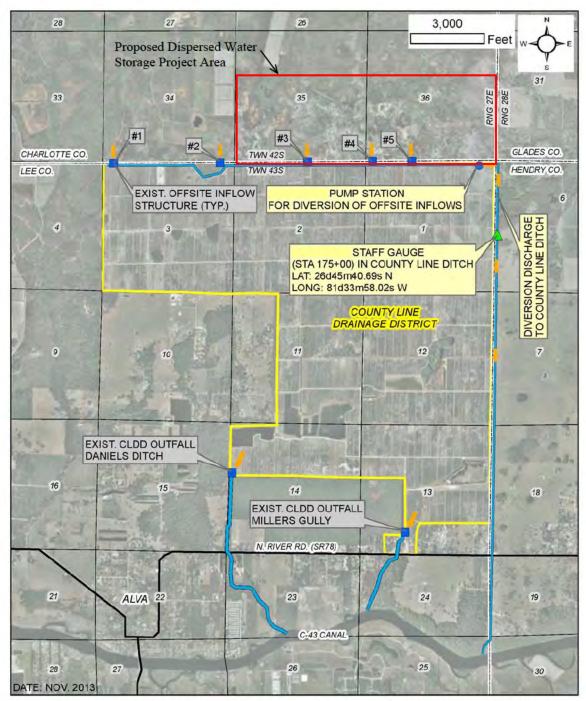


Figure 2. Map of CLDD drainage system. The approximate limits of the proposed water storage project are shown in red.

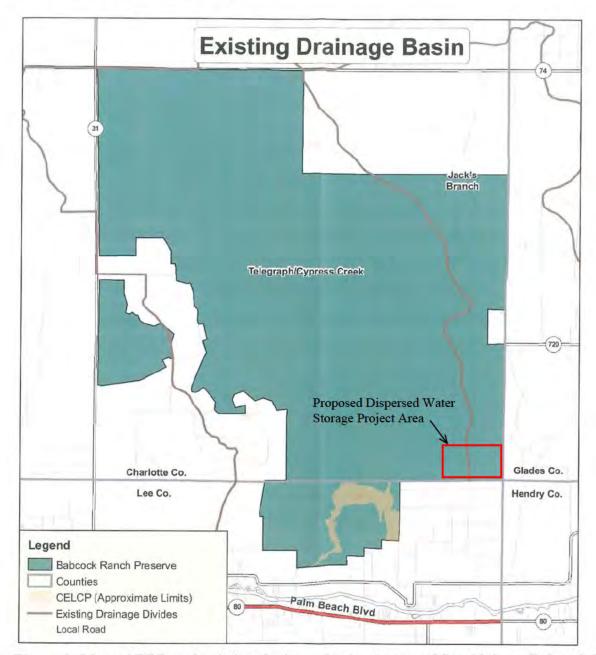


Figure 3. Map of BRP and existing drainage basins (source: Map 10 from Babcock Ranch Preserve Hydrological Analysis Final Report prepared by Environmental Consulting & Technology, Inc. circa 2009 for the Florida Division of Forestry). The approximate limits of the proposed water storage project are shown in red.

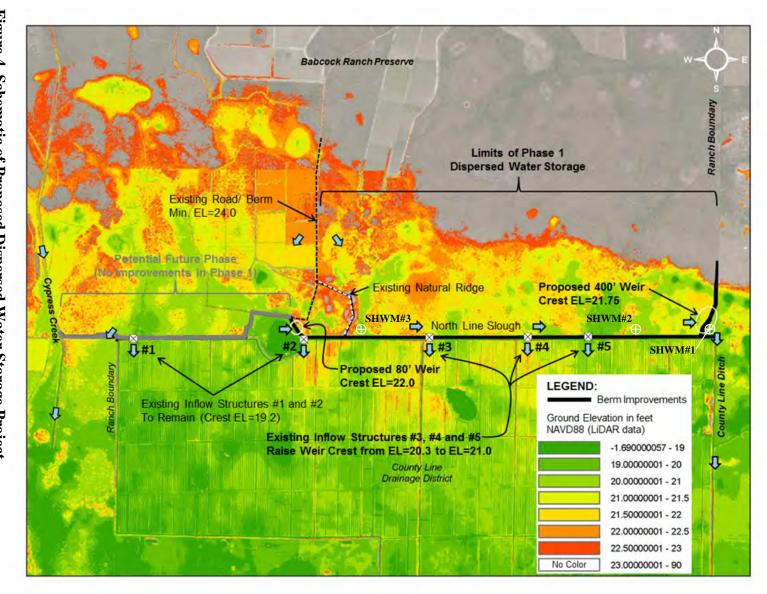
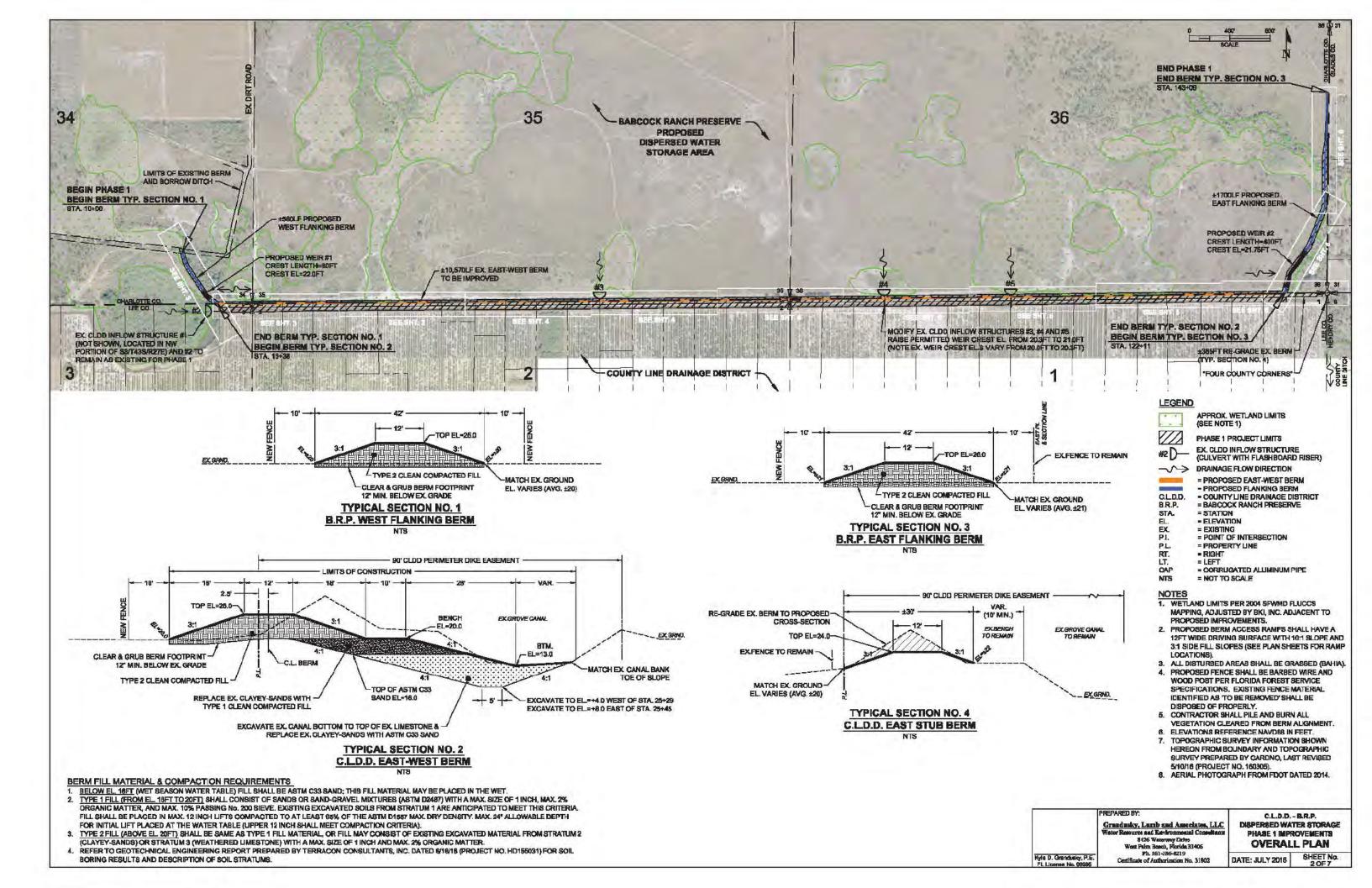
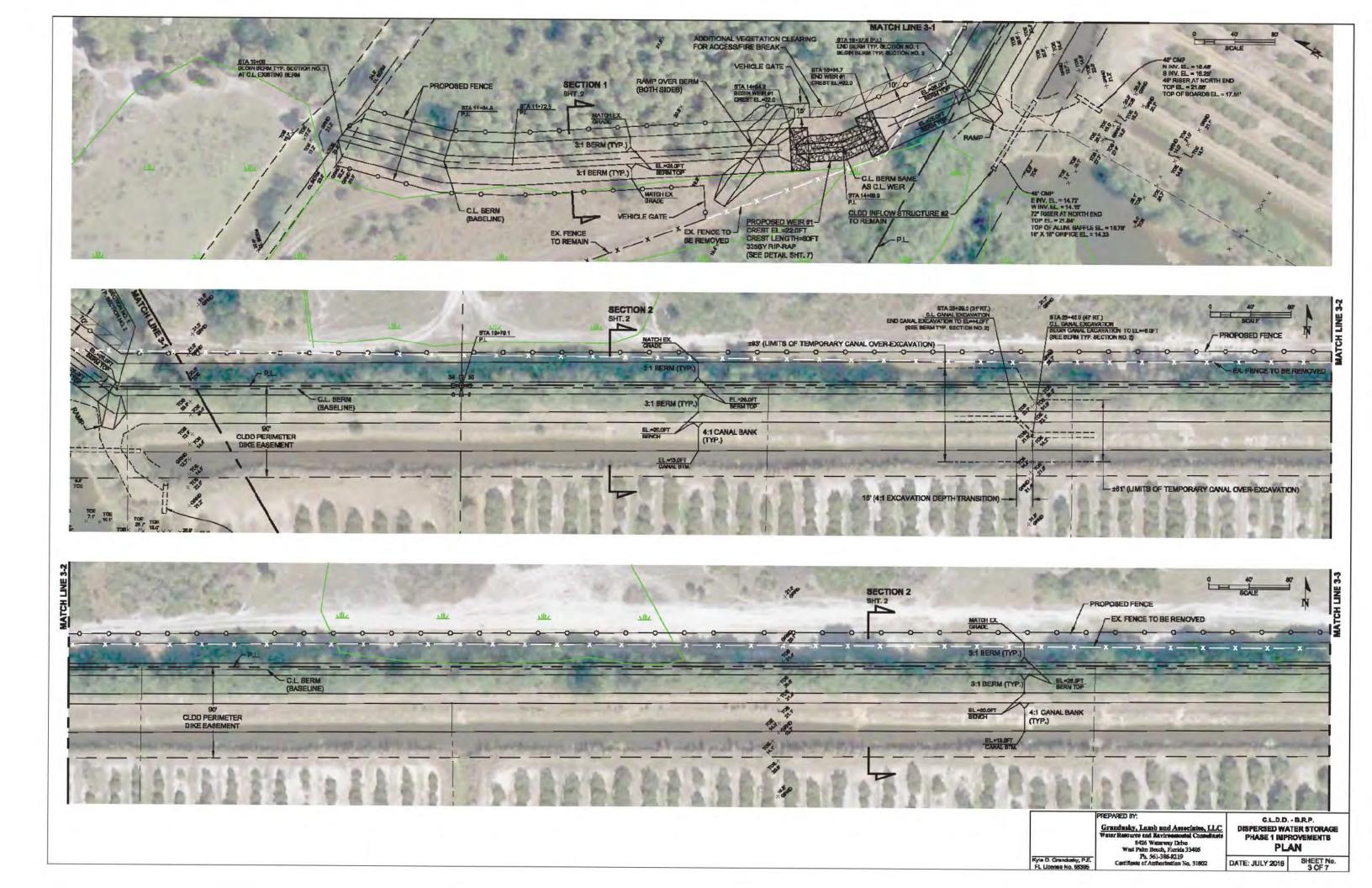
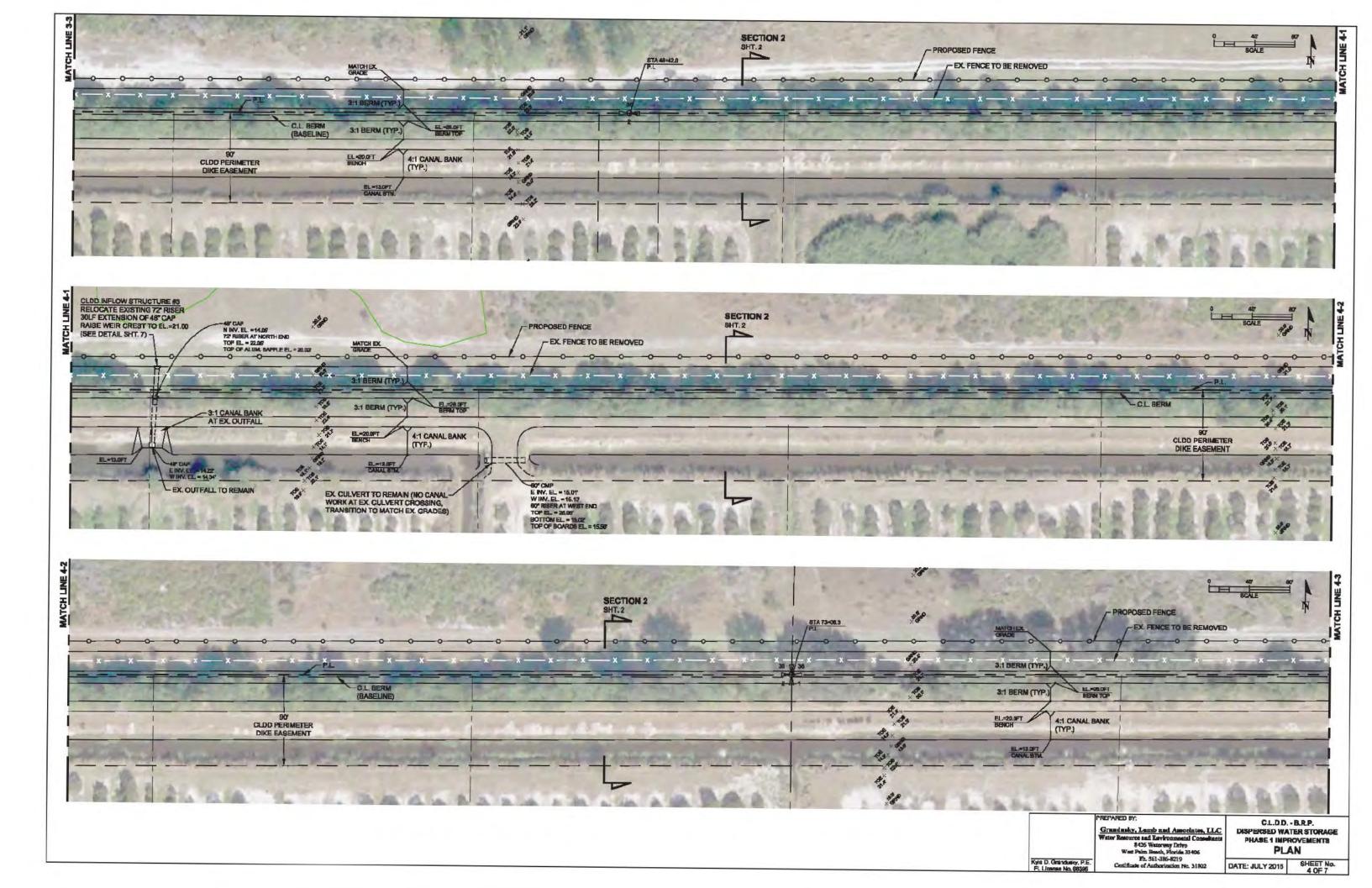
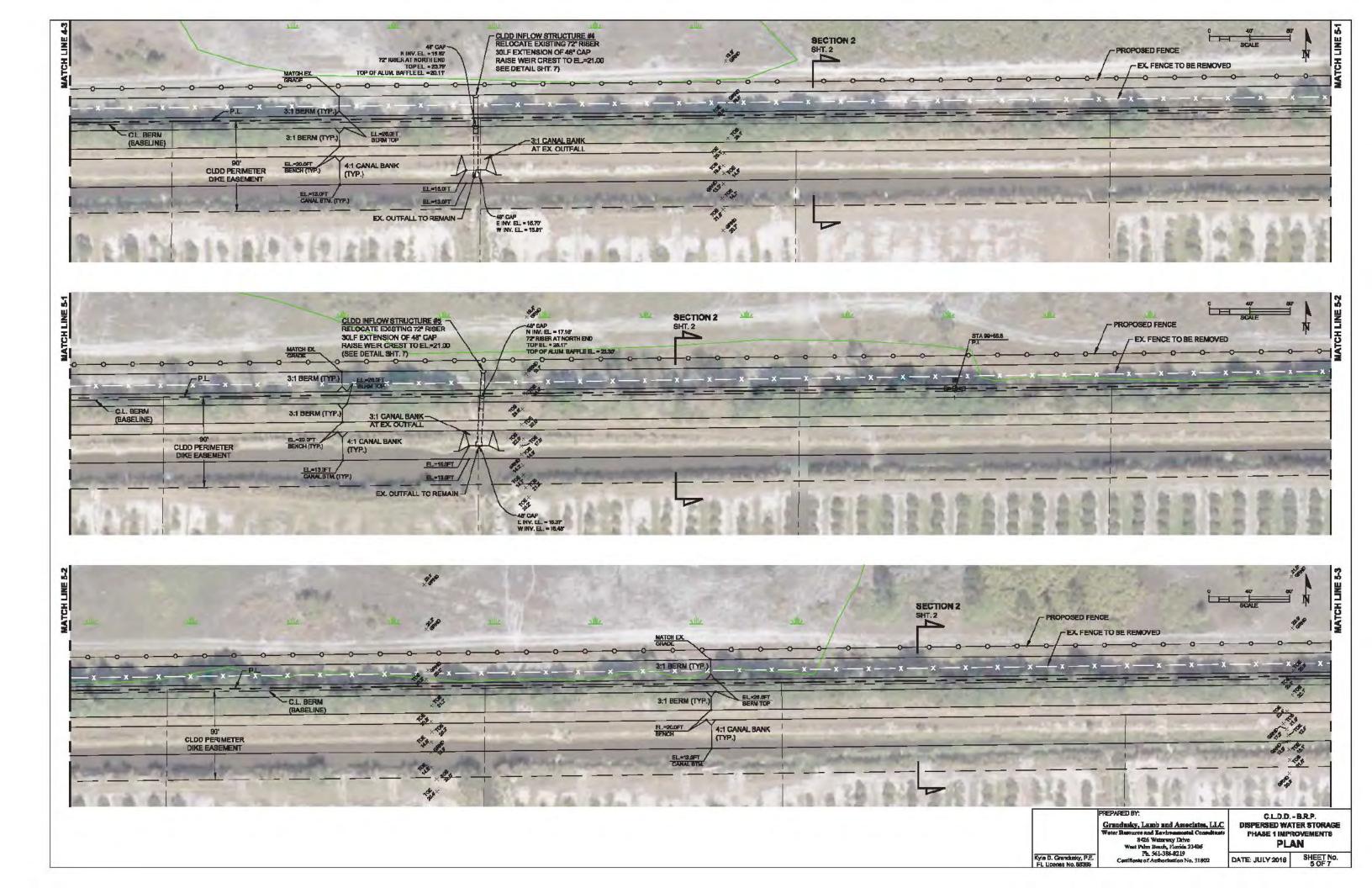


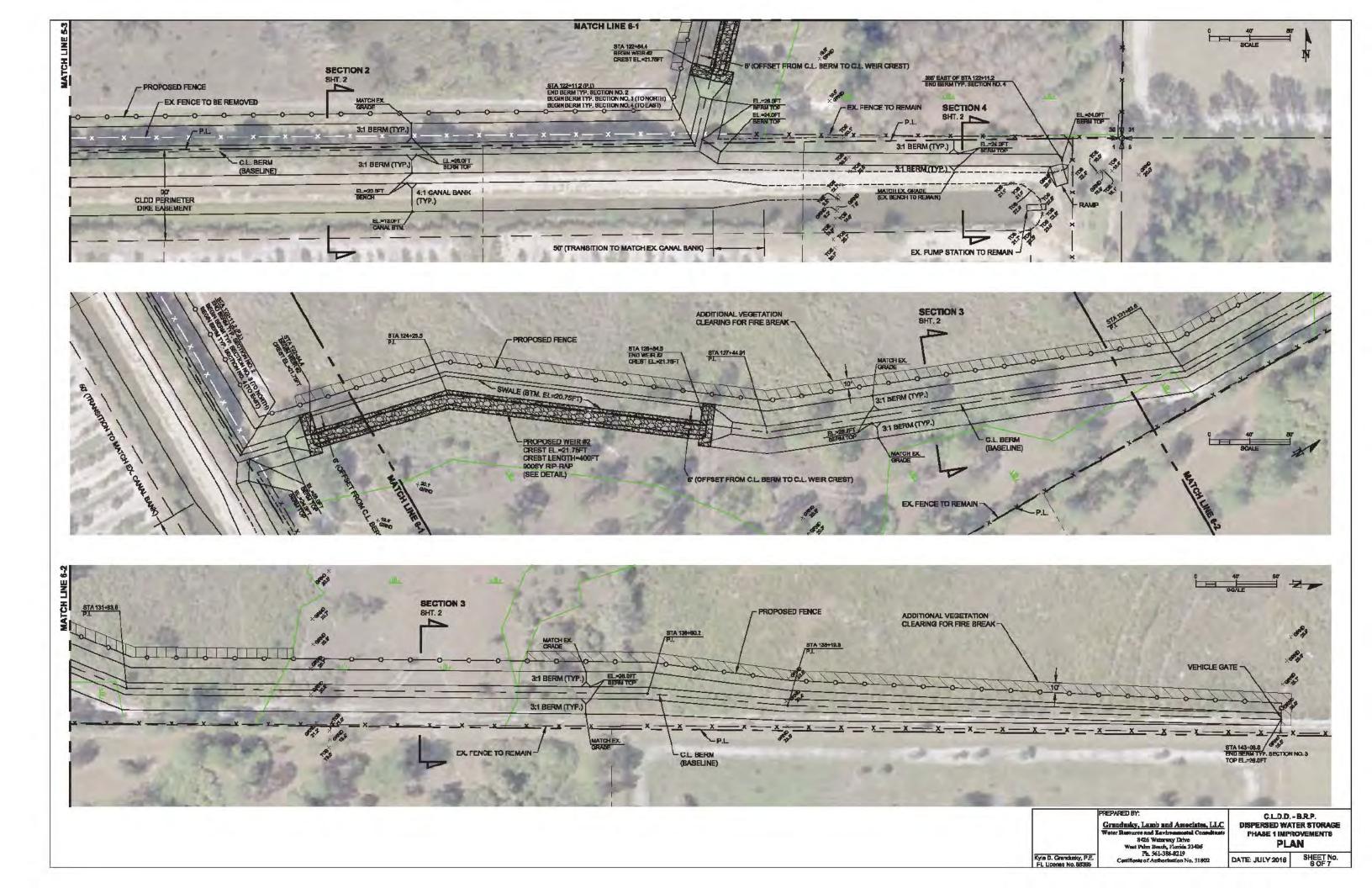
Figure 4. Schematic of Proposed Dispersed Water Storage Project.

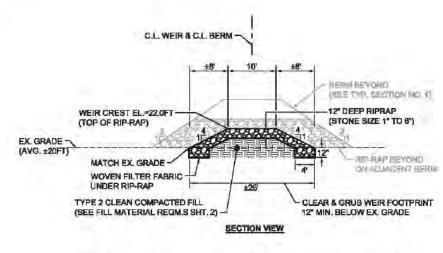


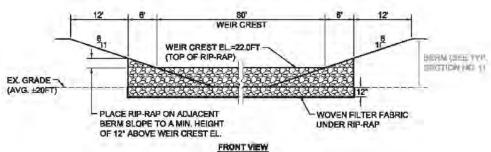




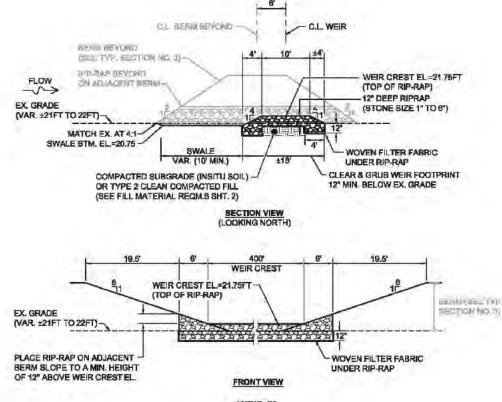




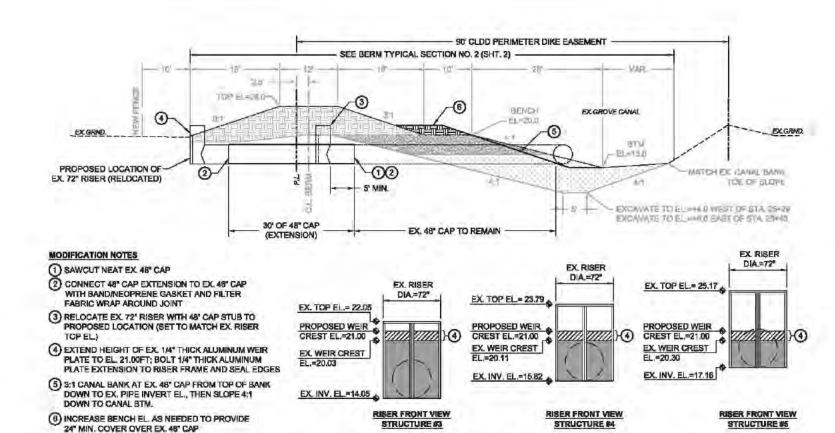




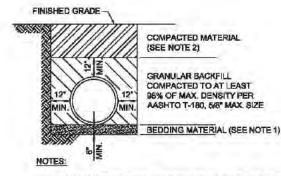
WEIR #1
(B.R.P. WEST FLANKING BERM)



WEIR #2
(B.R.P. EAST FLANKING BERM)
NTS



## MODIFICATION OF C.L.D.D. INFLOW STRUCTRES #3, #4 AND #5 NTS



- BEDDING MATERIAL SHALL CONSIST OF IN-SITU GRANULAR MATERIAL.
   (MIN. 98% COMPACTION PER AASHTO T-180) OR WASHED AND GRADED LIMEROCK 3/6" 7/8" SIZE WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING.
- REMAINING BACKFILL, BASE AND SURFACE MATERIAL TO BE PLACED AND COMPACTED TO AT LEAST 98% OF MAX. DENSITY PER AASHTO T-180, 12" MAX, LIFTS (AT LEAST 90% OF MAX. DENSITY FOR NON-TRAFFIC AREAS).
- BACKFILL AND IN-SITU BEDDING MATERIALS SHALL BE FREE OF UNSUITABLE MATERIALS SUCH AS LARGE ROCK, MUCK AND DEBRIS.
- 4. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- 5. THE PIPE SHALL BE PLACED IN A DRY TRENCH.

## **CULVERT TRENCHING**

PREPARED BY:

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Kyle D. Grandiusky, P.E.
FL License No. 68385

PREPARED BY:

C.L.D.D. - B.R.P.

DISPERSED WATER STORAGE
PHASE 1 IMPROVEMENTS

DETAILS

DATE: JULY 2016
7 OF 7