

# The Next Generation

Of Automated Dry Stack  
Storage Systems



Ft. Lauderdale, FL

# Presentation Outline

## **I. INTRODUCTION**

## **II. TRADITIONAL FORKLIFT DRYSTACK SYSTEMS**

## **III. AUTOMATED DRY STACK SYSTEMS OVERVIEW**

## **IV. AUTOMATED LAUNCHING & HANDLING SYSTEMS**

- Stacker Crane System – ASAR & DOCKIT
- Fixed Crane System / Coastal Elevators
- Cable Overhead Crane Systems
- AGV Robotic Systems

## **V. BUILDING LAYOUT OPTIONS**

## **VI. DRY STACK MARINA BUDGETS**

## **VII. BRINGING THE NEXT GENERATION TO YOU**



# Edgewater Group

## Specialty Marina Planning/Design/Engineering Firm

- CIVIL / MARINA / ENVIRONMENTAL / COASTAL ENGINEERING / HYDROGRAPHIC SURVEYING
- GEOTECHNICAL / STRUCTURAL / COMPUTER & PHYSICAL MODELING / OCEAN ENGINEERING
- PLANNING / LANDSCAPE ARCHITECTURE / COMMUNITY OUTREACH / PERMITTING
- MARKET ANALYSIS / FINANCIAL / ECONOMIC SPECIALISTS



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## II. Traditional Forklift Dry Stack Systems



**HAMILTON HARBOR YACHT CLUB**  
Naples, FL USA



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# III. Automated Dry Stack Systems

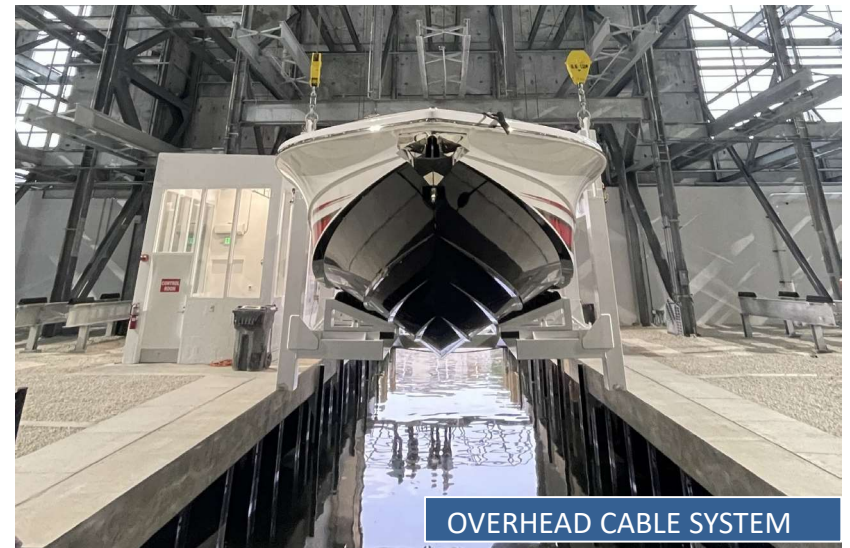
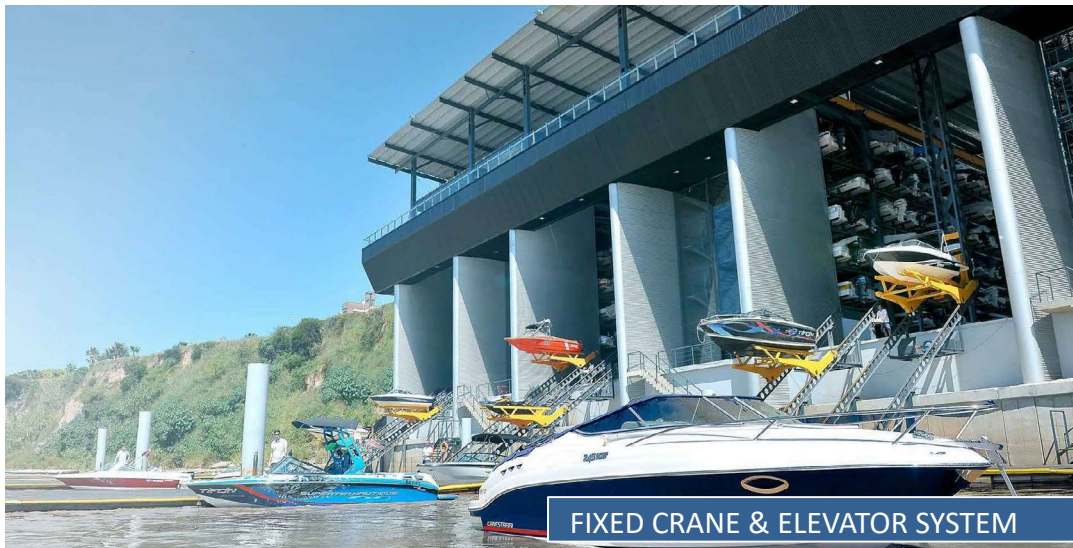
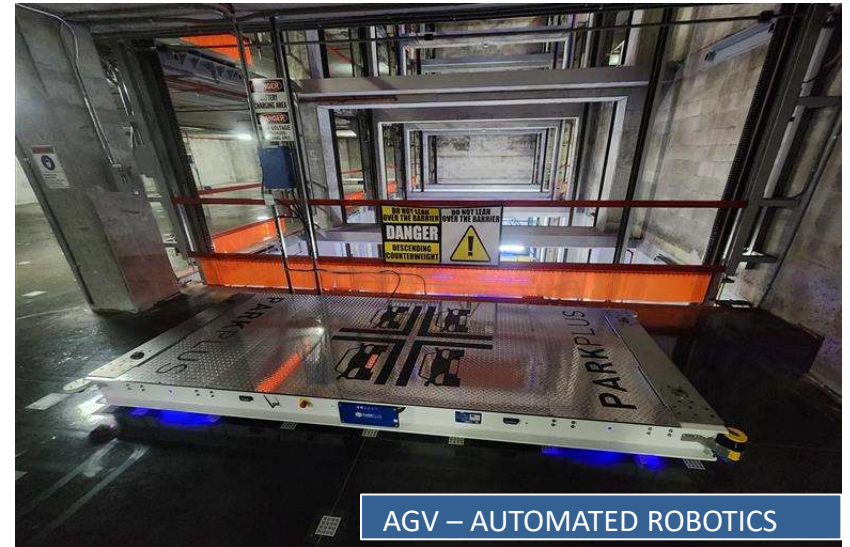
MAINTAIN PUBLIC WALKWAY BENEATH LAUNCH AREA



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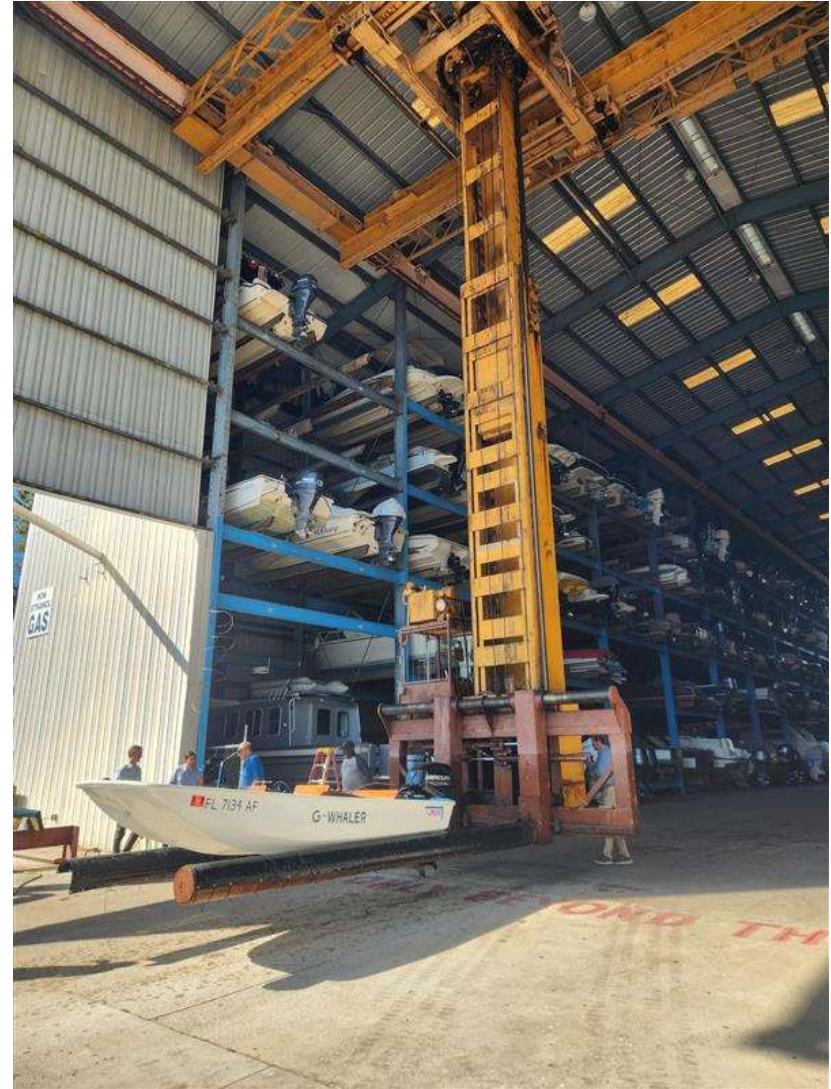
# IV. Automated Handling & Launching Systems





# Fixed Crane System/Coastal Elevators

Floor Mounted Crane



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Jacksonville



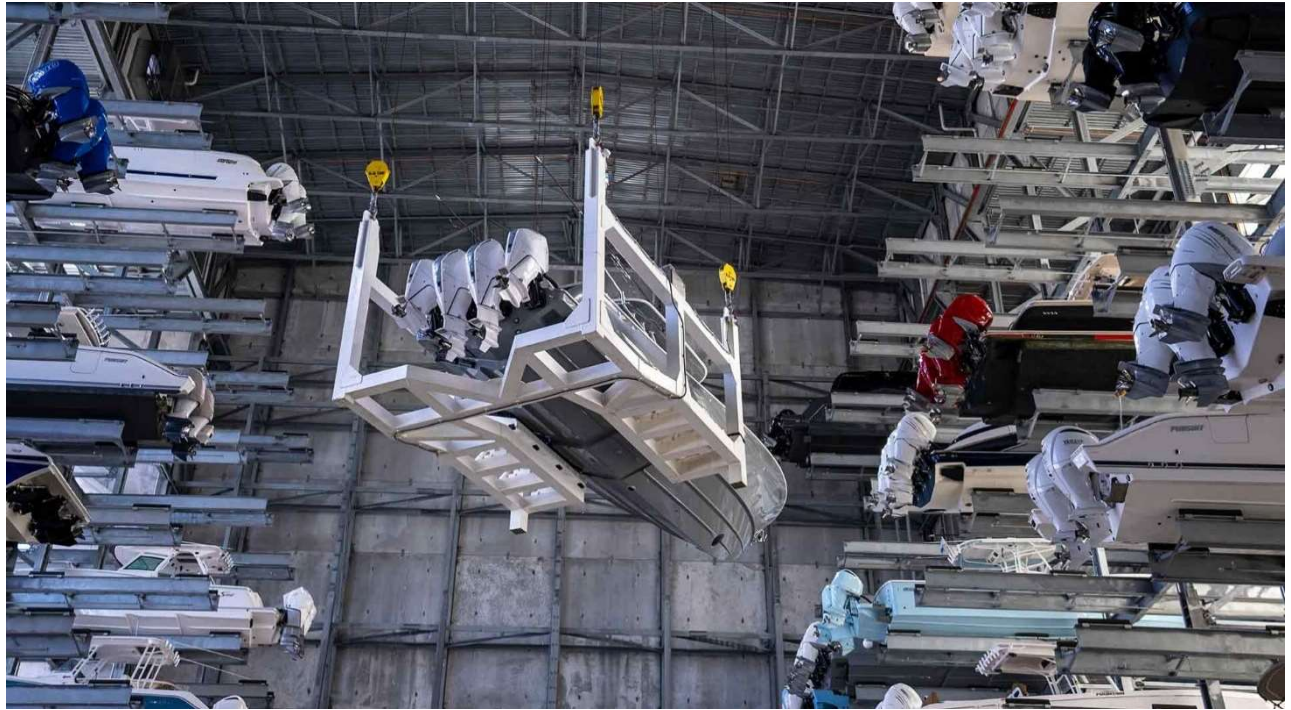
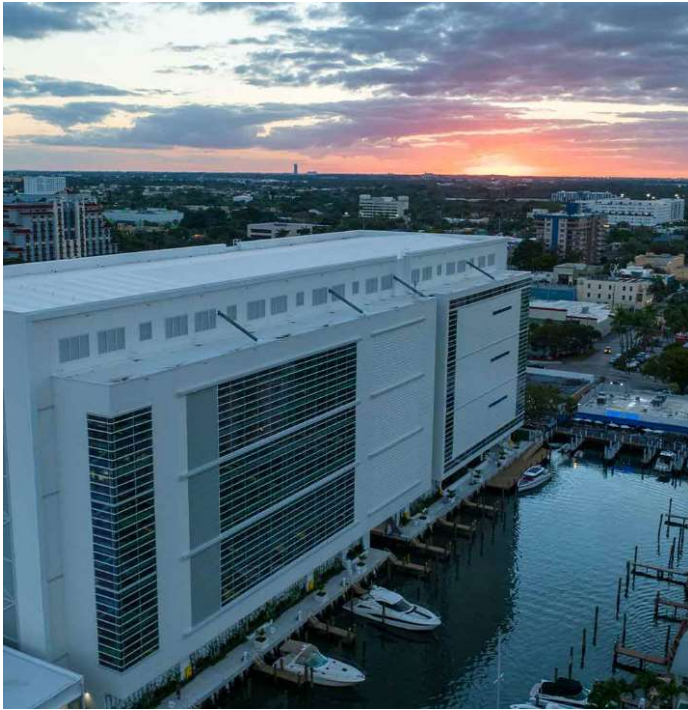
# Fixed Crane System/Coastal Elevators



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# Cable Overhead Crane System



F3 MARINA, FORT LAUDERDALE – 240 BOATS – 2021

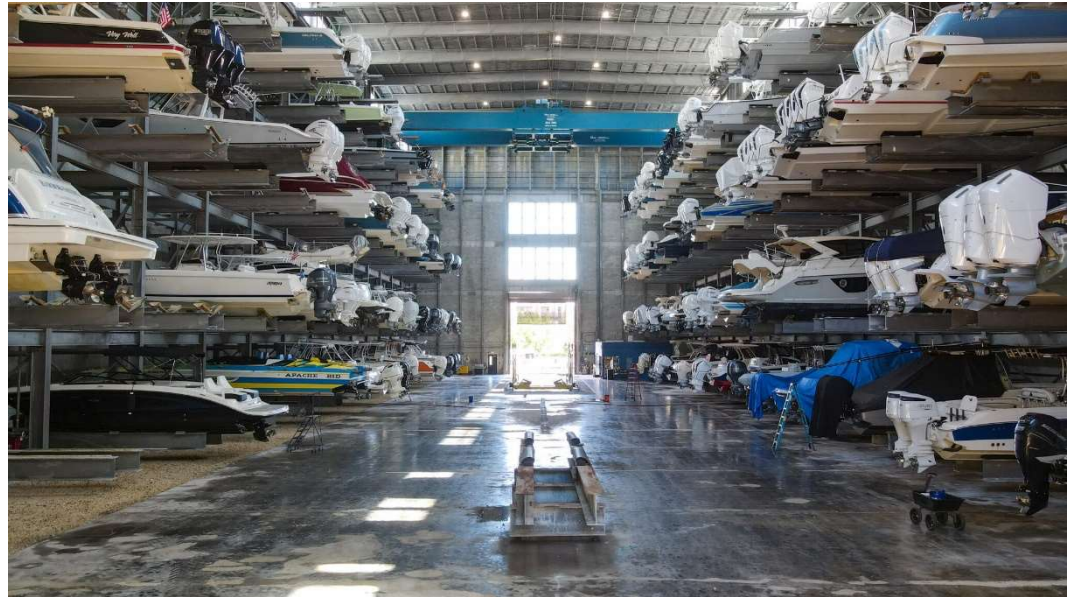


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# Cable Overhead Crane System

THE PORT MARINA  
FORT LAUDERDALE



THE PORT MARINA, FORT LAUDERDALE – 150 BOATS – 2005

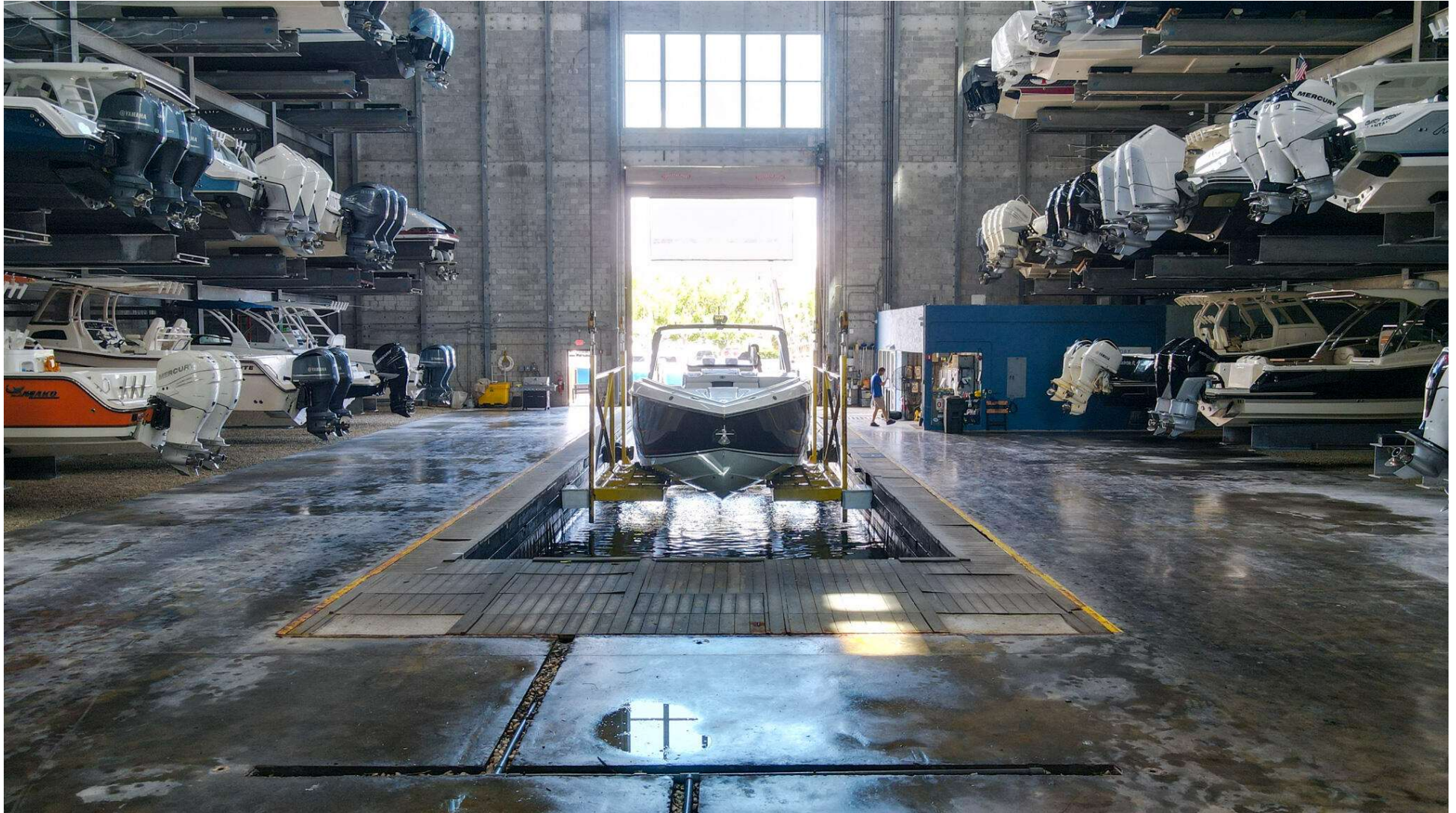


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# Cable Overhead Crane System

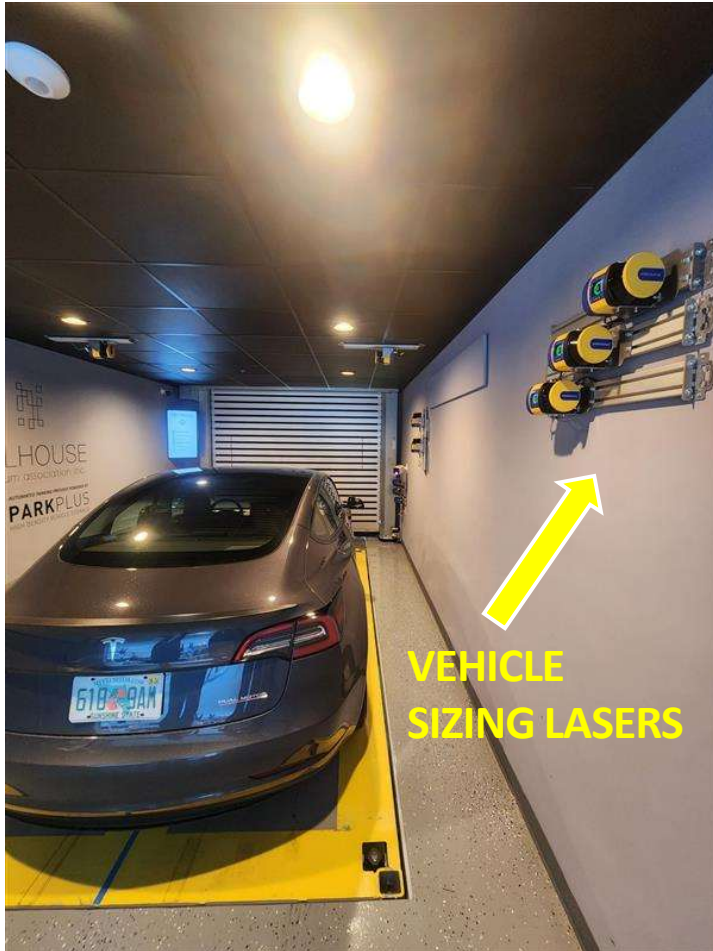
Port Marina, Ft. Lauderdale



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# Future Marina AGV Robotic Systems



Park Plus



# Future Marina AGV Robotic Systems



AUTO Park It



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# V. Building Layout Options

## Remote Boat Trolley



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# VI. Dry Stack Marina Budget

	COST PER BOAT	COMMENTS	
I. TRADITIONAL FORKLIFT BUILDING	\$25k - \$50K	N.I.C - FORKLIFT / SEAWALLS / QUEUE DOCKS/ APRON (CONC. APRON \$1-3M)	
II. ASAR STACKER BUILDING	\$50K - \$100K+	N.I.C SEAWALLS / QUEUE DOCKS	★
III. BRIDGE CRANE SYSTEM	\$35K - \$60K	INCLUDES CRANE N.I.C. - SEAWALLS / QUEUE DOCKS	
IV. OVERHEAD CABLE SYSTEM	\$75K - \$125K +	INCLUDES CRANE, INTERNAL LIFT WELL AND QUEUE DOCKS	
V. AUTOMATED GUIDED VEHICLE TRANSPORT	\$80K - \$110K+	CAN HANDLE COMPLEX BUILDING DESIGNS/DENSITY	★



# VII. Bringing the Next Generation to You



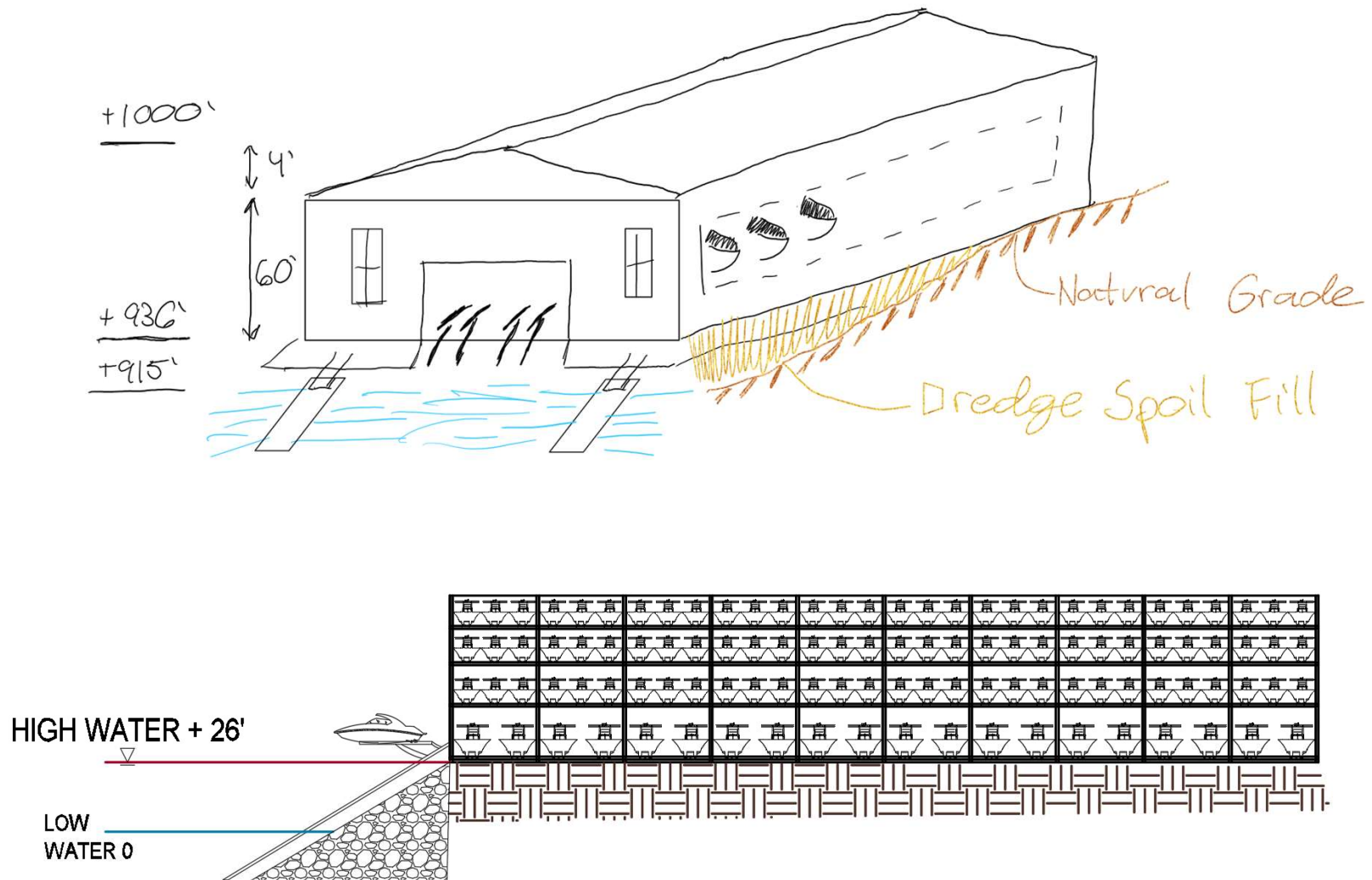
Table Rock Lake  
Shell Knob, Missouri



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# VII. Bringing the Next Generation to You



# VII. Bringing the Next Generation to You



St. George Island  
Franklin Co. FL



Edgewater  
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# VII. Bringing the Next Generation to You



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Franklin Co. FL



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# QUESTIONS?



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