

Roadway Improvements

- Assess required elevations, slopes and potential changes in road configurations
- Use right-of-way to complement stormwater and water quality initiatives
- Identify the role of curbs and gutters
- Design streetscape to integrate landscaping, shade and similar natural benefits
- Propose one-way streets to increase stormwater capture
- Improve traffic flow and safety
- Right-size fire hydrant capacity

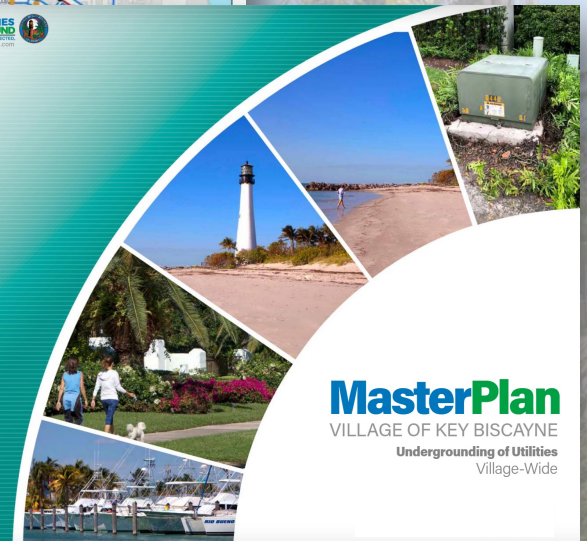
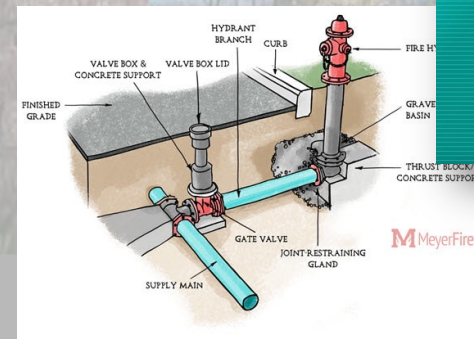
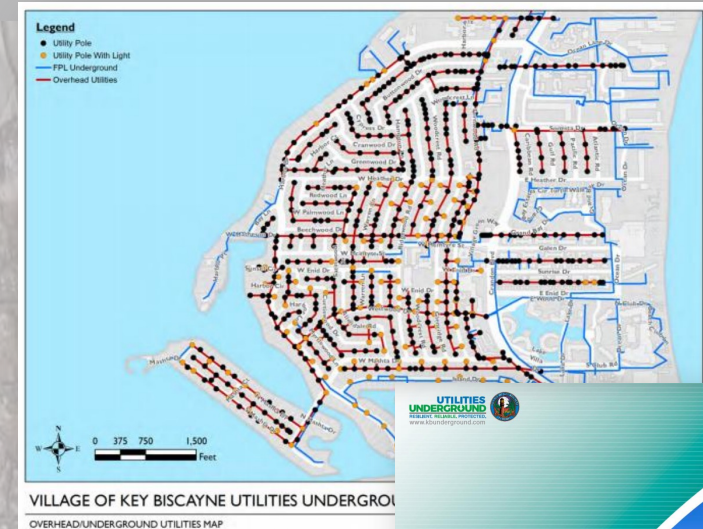
Results in village-wide streetscape design standards

CATCH BASIN
WITH
BACKFLOW
PREVENTER (TYP.)



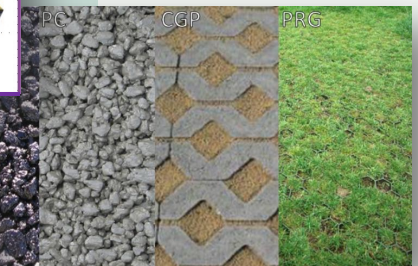
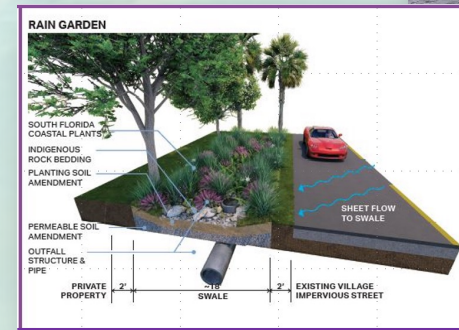
Utility Hardening & Resilience

- Underground electrical line feeders and laterals → working with FPL
- Simultaneously underground telecom lines → working with AT&T and Comcast
- Integrate water and sewer infrastructure → creating Joint Powers Authority with M-DC WASD
- Include streetlight upgrade, conversion to LED and transfer to FPL
- Set conditions for “smart village” initiatives



Changes to Codes, Plans, Zoning & Building Standards

- Adopt Vision Plan resilience related zoning and land-use initiatives
- Seawall, living shoreline, resilient landscaping, free board ordinances
- Land acquisition/easement strategy and process
- Pervious materials incentives
- New design and building standard strategies
- Reduce NFIP Community Rating System
- Tree program, ordinance and trust fund
- Optimize stormwater impact fee methodology



Building an Integrated Project

DIG ONCE



Design-Bid-Build OR DCP-Design/Build

ZONE 1

ZONE 2

ZONE 3

ZONE 4

ZONE 5

ZONE 6

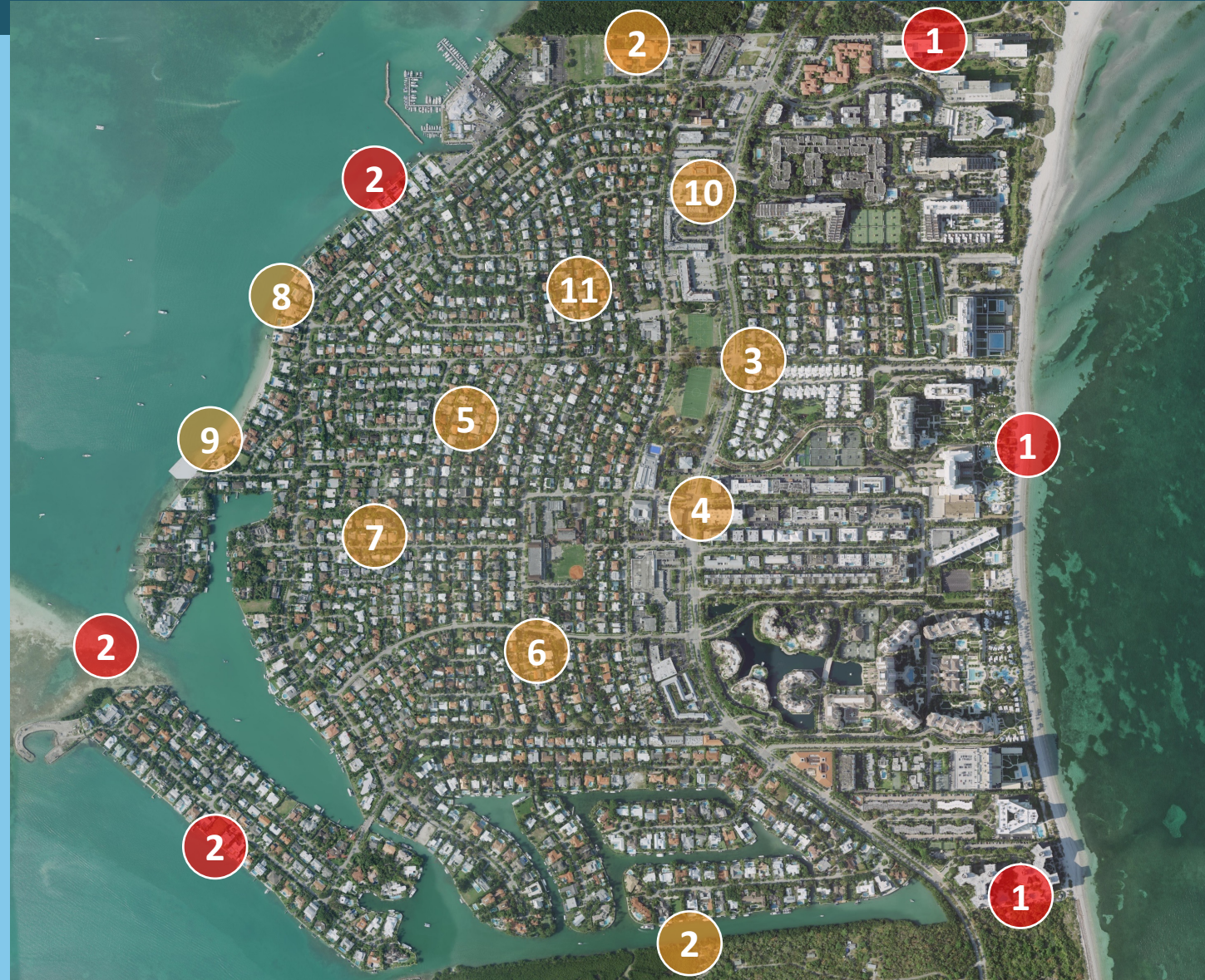
- Creates complete projects
- Reduces procurement timelines
- Focuses on uniformity of design and construction
- Minimizes traffic and access disruption



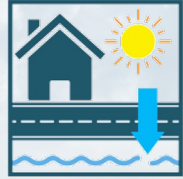
What is the End State?

A Fully Protected Village:

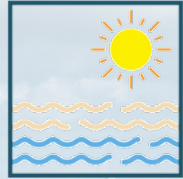
1. Oceanside shoreline protection with tieback walls
2. Bayside shoreline & north/south boundaries aligned with beach shoreline protection requirements
3. Synch east and west side stormwater systems
4. Roads used to supplement shoreline systems
5. Improved roadways to complement stormwater systems
6. Raised roads and improved swales
7. Transitioned to pumped stormwater systems
8. Upgraded outfalls
9. Improved water quality discharge
10. Undergrounded utilities to reduce storm threats and increase reliability
11. Renovated water and sewer systems



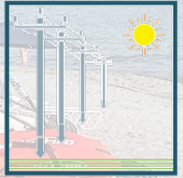
Our vision. Our goal.



Reduced Chronic Flooding



Protected Shoreline and Boundaries



Increased Service Reliability, Safety & Aesthetics



Strengthened Readiness for Storms & Emergencies



Enhanced Quality of Life