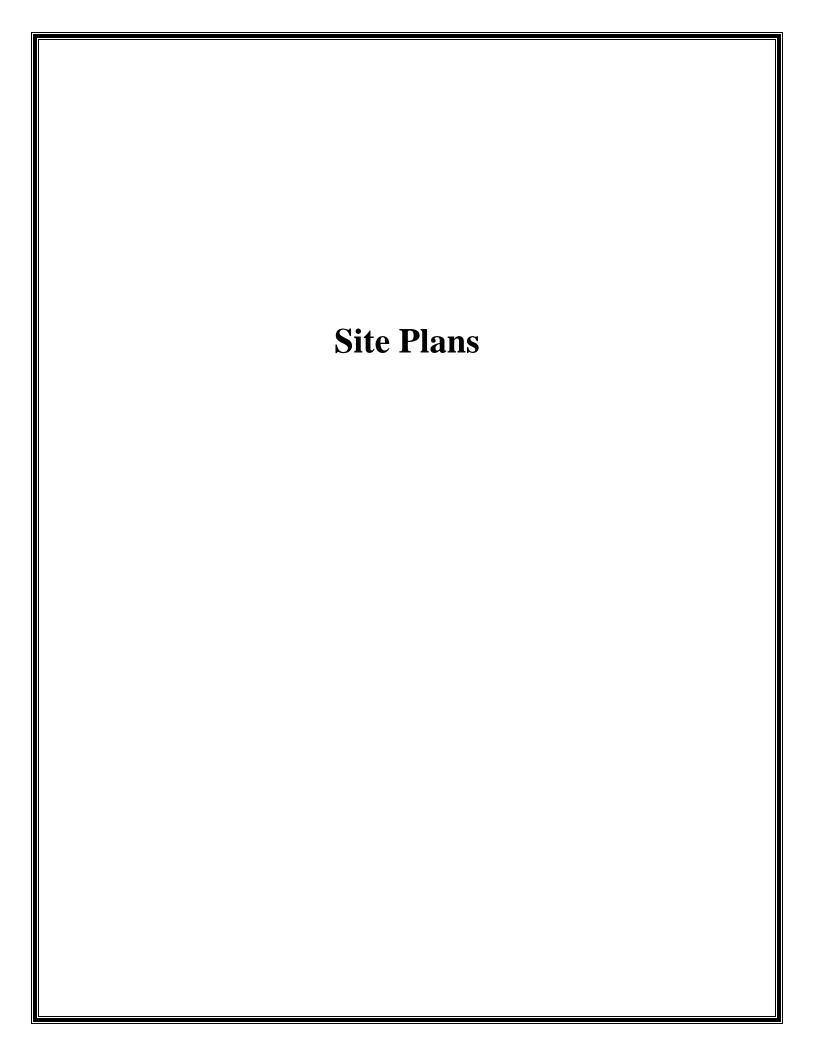


f/datafred/dwg/cityofkeywest/nelsonenglish



The Park Enhancement project for Nelson English and Willie Ward Parks in Bahama Village is anticipated as three phases of work, to be implemented as funding allows. The project received TIF funding during the 2010 and 2012 Allocation process, which has provided funding for the Design and Construction Documents as well as Phase I and II construction.

The scope of work for the project is improvements to the existing park / pool area for safety and

- community enhancements, which includes:
 new playground equipment and safety surfacing for various age groups (Phase I)
- improvements to the existing pool and related facilities (Phase I)
- reconfiguration of the entrance of the Martin Luther King Community Center to address flooding (Phase II)
- addition to the Martin Luther King Community Center to provide accessible restrooms for use by the Park visitors (Phase III)
- reorganization of the parking areas to include vehicular, bicycle, and scooter parking (Phase I and
- open play lawn (Phase I and III)

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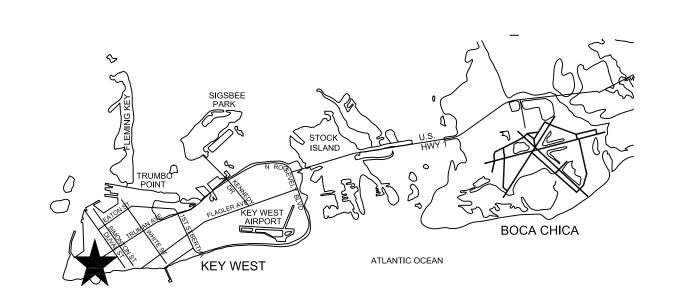
January 27, 2012

KW Planning Dpt

- park shelters (Phase I and III)
- enhanced landscaping (Phase I, II, and III)
- site furnishings, including benches, trash and recycling receptacles, bar-b-q grills, picnic benches, and signage (Phase I, II, and III)
- multiple levels of lighting, for both safety / security and aesthetics (Phase I, II, and III)
 organized pedestrian pathways throughout the park linking the parks with the Community (Phase I,

Specifically, the Phase II scope of work is focused on the parking and grading at the MLK Community Center, as well as the other amenities that are included in all three phases of work.

LOCATION MAP



PROJECT LOCATION *

PROJECT TEAM INFORMATION

ARCHITECT:
mbi | k2m Architecture, Inc.
Michael B. Ingram, R.A.
1001 Whitehead Street
Key West, Florida 33040
tel: 305.292.7722
PROF. REG. AA26001059

City of Key West
Jim Scholl, City Manager
3132 Flagler Avenue
Key West, Florida 33040
tel: 305.809.3888

CIVIL ENGINEER:

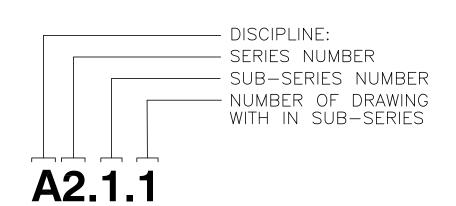
Meridian Engineering, LLC
Rick Milelli, P.E.
201 Front Street, Suite 207
Key West, Florida 33040

tel: 305.293.3263

LANDSCAPE ARCHITECT:
Craig Reynolds Landscape Architecture
Craig Reynolds, RLA
3255 Flagler Avenue, Suite 305
Key West, Florida 33040
tel: 305.292.7243

SURVEYOR:
Island Surveying, Inc.
Frederick H. Hildebrandt
3152 Northside Drive, Suite 201
Key West, Florida 33040
tel: 305.293.0466

SHEET NUMBERING SYSTEM



mbi | k2m

ARCHITECT:

Architecture, Interior Design,
Procurement,
Owner Representation,

Specialty Consulting

1001 Whitehead Street
Key West, Florida 33040
Tel: 305.292.7722
Fax: 305.292.2162
Email: info@mbi-k2m.com
www.mbi-k2m.com
PROF. REG. AA26001059
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Seal:

Consultants:

CIVIL ENGINEER:

Meridian Engineering, LLC

LANDSCAPE ARCHITECT:

Craig Reynolds, RLA

Submissions:

July 28, 2011 - Public Meeting #1

August 18, 2011 - Public Meeting #2

September 30, 2011 - HARC, Tree

Commission, DRC and Planning

January 4, 2012 - TIF Application

January 18, 2012 - Revised Planning

Board Submission

January 27, 2012 - Revised Planning

Board Submission

LS CT

NELSON ENGLISH / WILLIE WARD
PARK ENHANCEMENT PROJECT
CITY OF KEY WEST

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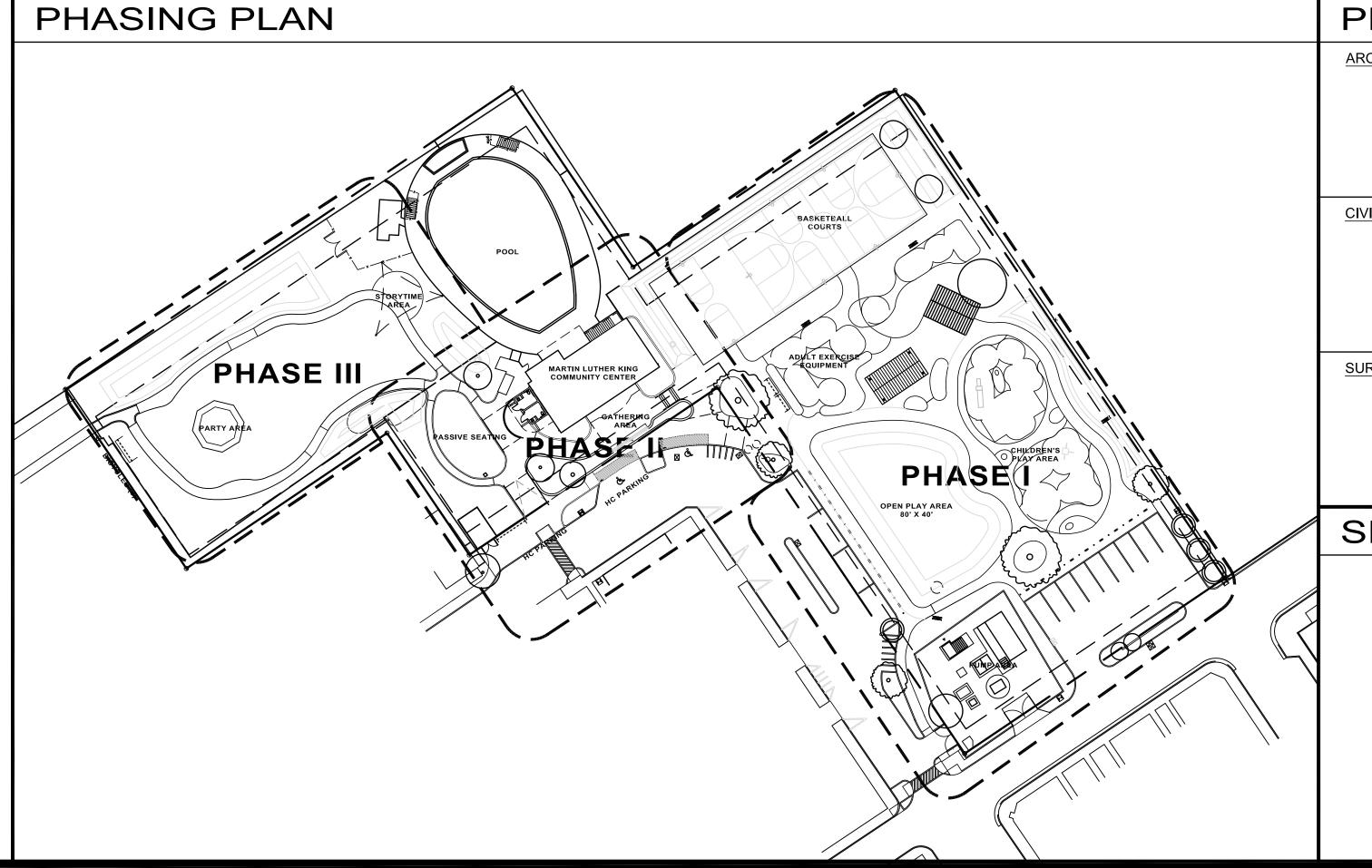
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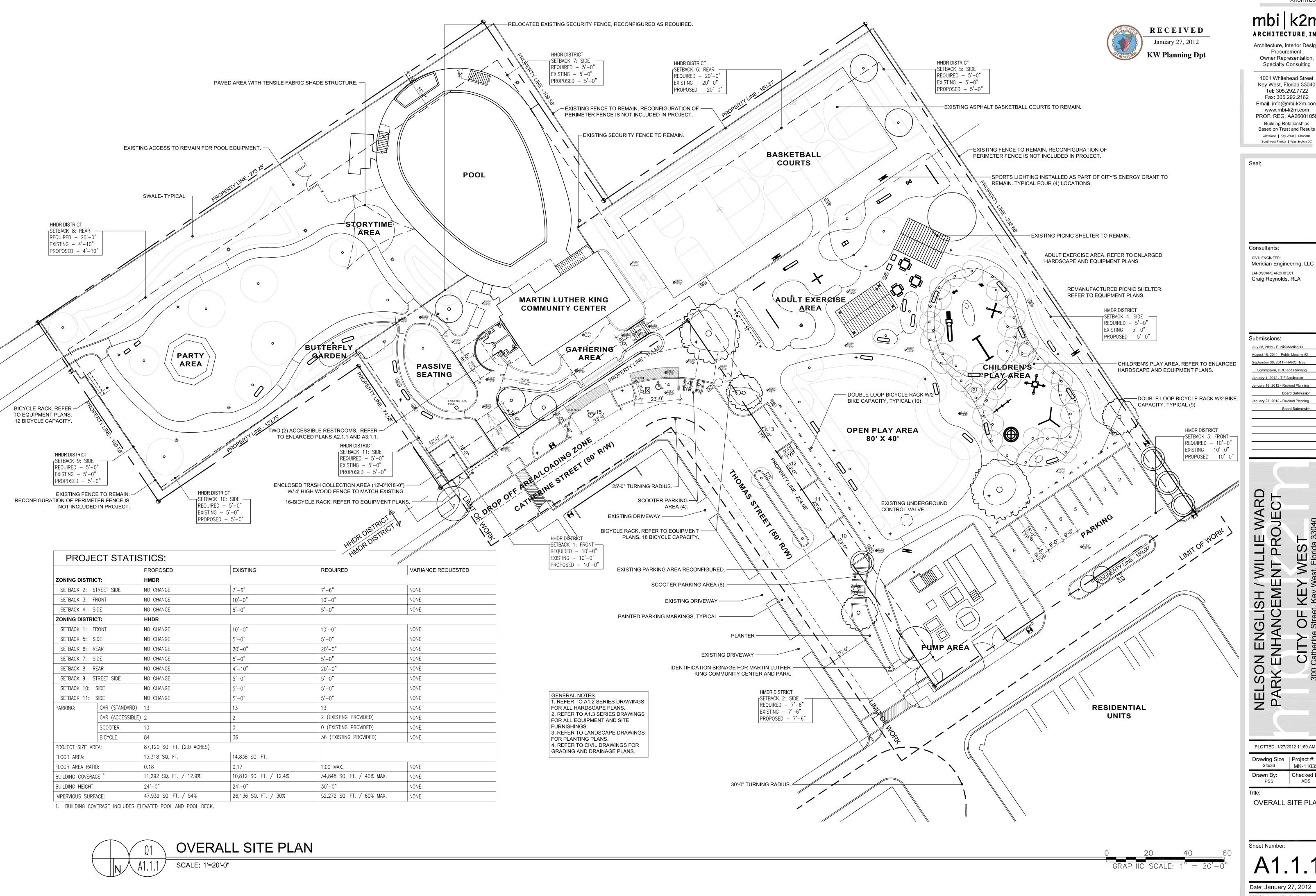
tle: SCOPE OF WORK, PHASING PLAN, LOCATION MAP &

DESIGN TEAM
Sheet Number:

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Date: January 27, 2012
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ARCHITECT:

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Consultants:

Meridian Engineering, LLC LANDSCAPE ARCHITECT: Craig Reynolds, RLA

Submissions:

July 28, 2011 - Public Meeting #1

August 18, 2011 - Public Meeting #2 September 30, 2011 - HARC, Tree

Commission, DRC and Planning January 4, 2012 - TIF Application January 18, 2012 - Revised Planning

Board Submission January 27, 2012 - Revised Planning Board Submission

WILLIE WARD
ENT PROJECT

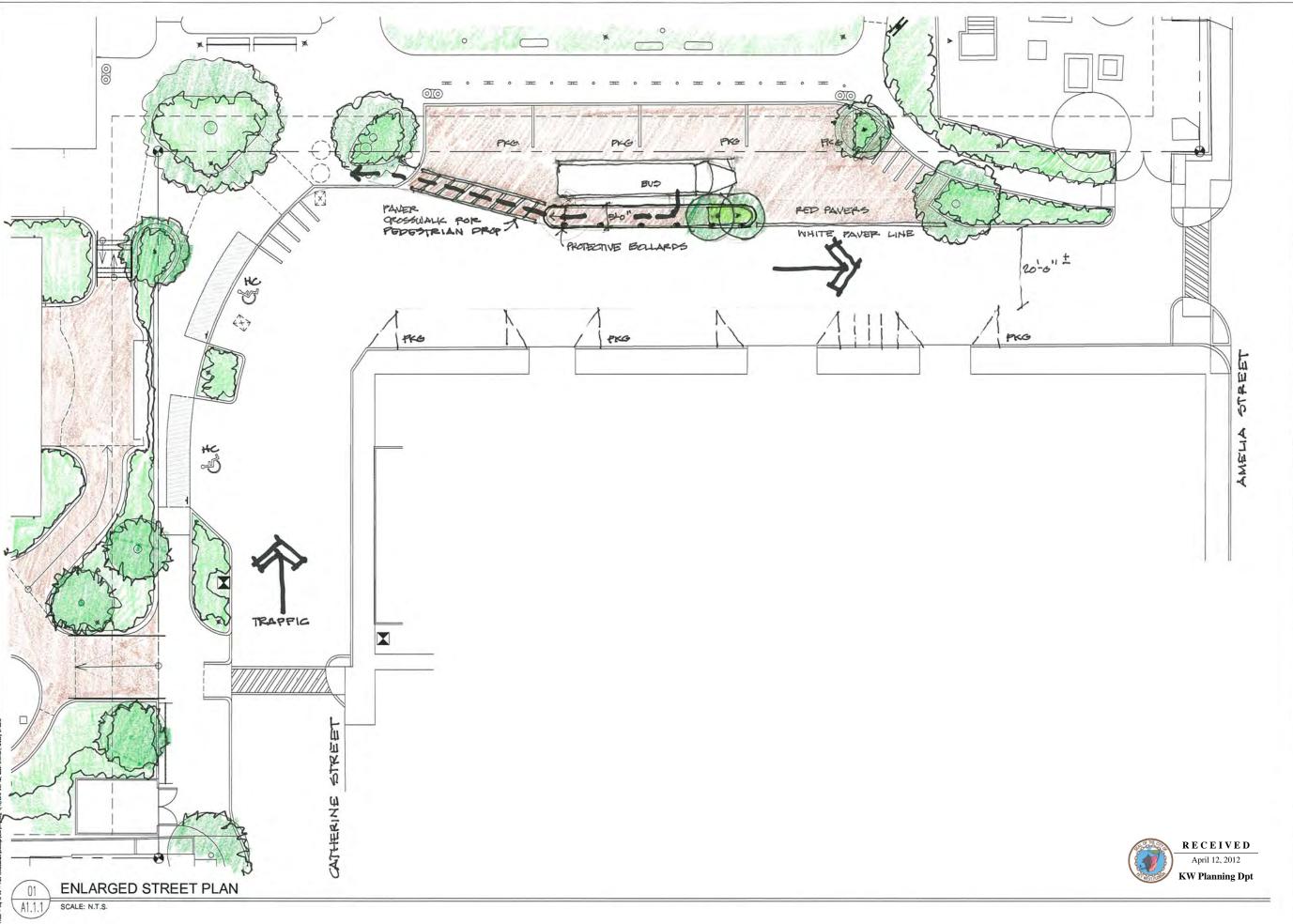
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OVERALL SITE PLAN

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Tel: 305.292.7722
Fax: 305.292.2162
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www.mbl+k2m.com
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ONLENGINEER
Meridian Engineering, LLC LANDSCAPE ARCHITECT.
Craig Reynolds, RLA

Submissions:

July 29, 2011 - Public Meeting #1

August 15, 2011 - Public Meeting #7

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January 4, 2012 - Tiff Augustation

January 18, 2012 - Revent Plearing

January 18, 2012 - Revent Plear Board Submission January 27, 2012 - Revised Planning Board Submission

NELSON ENGLISH / WILLIE WARD PARK ENHANCEMENT PROJECT CITY OF KEY WEST 300 Catherine Street, Key West, Florida 33040

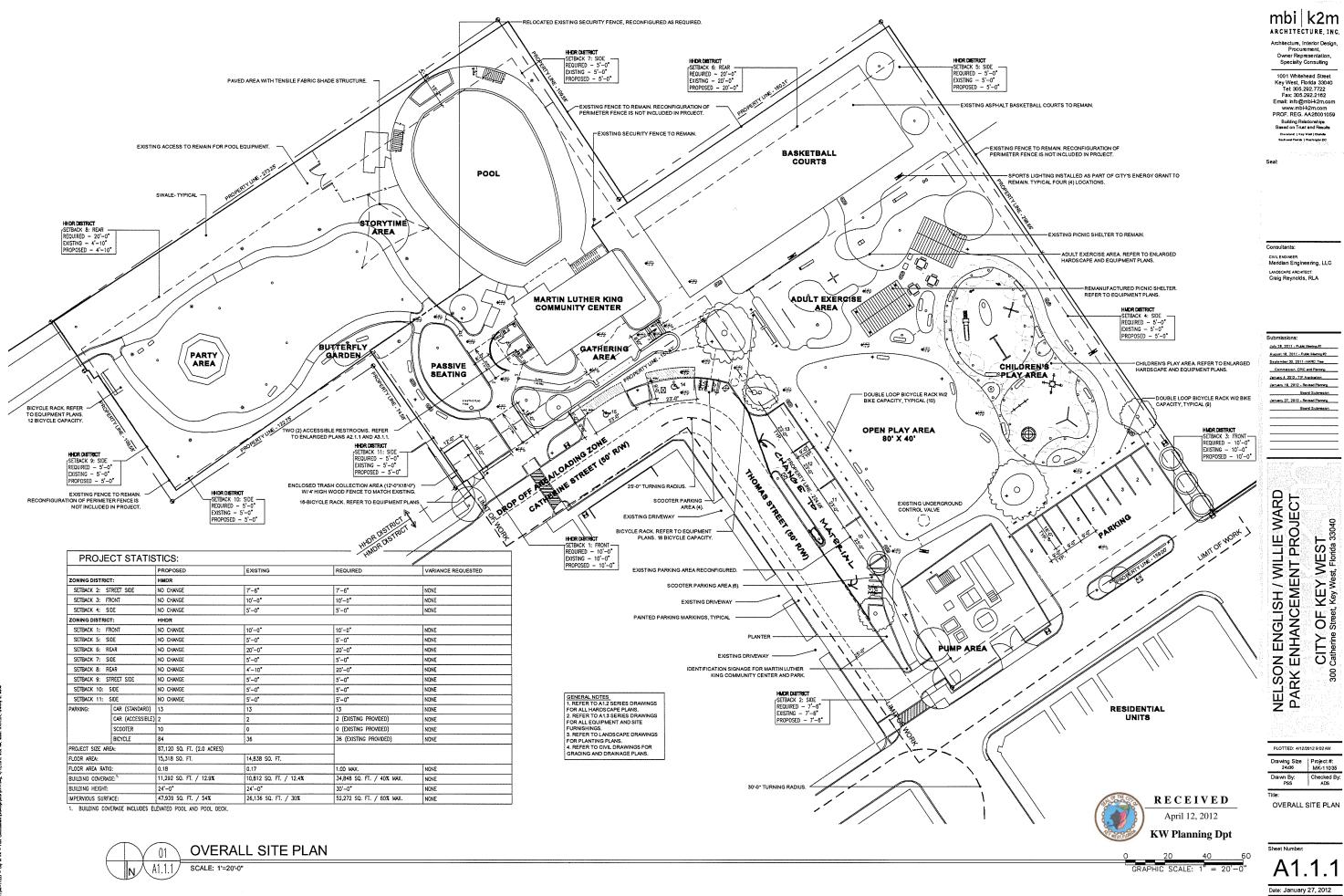
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OVERALL SITE PLAN

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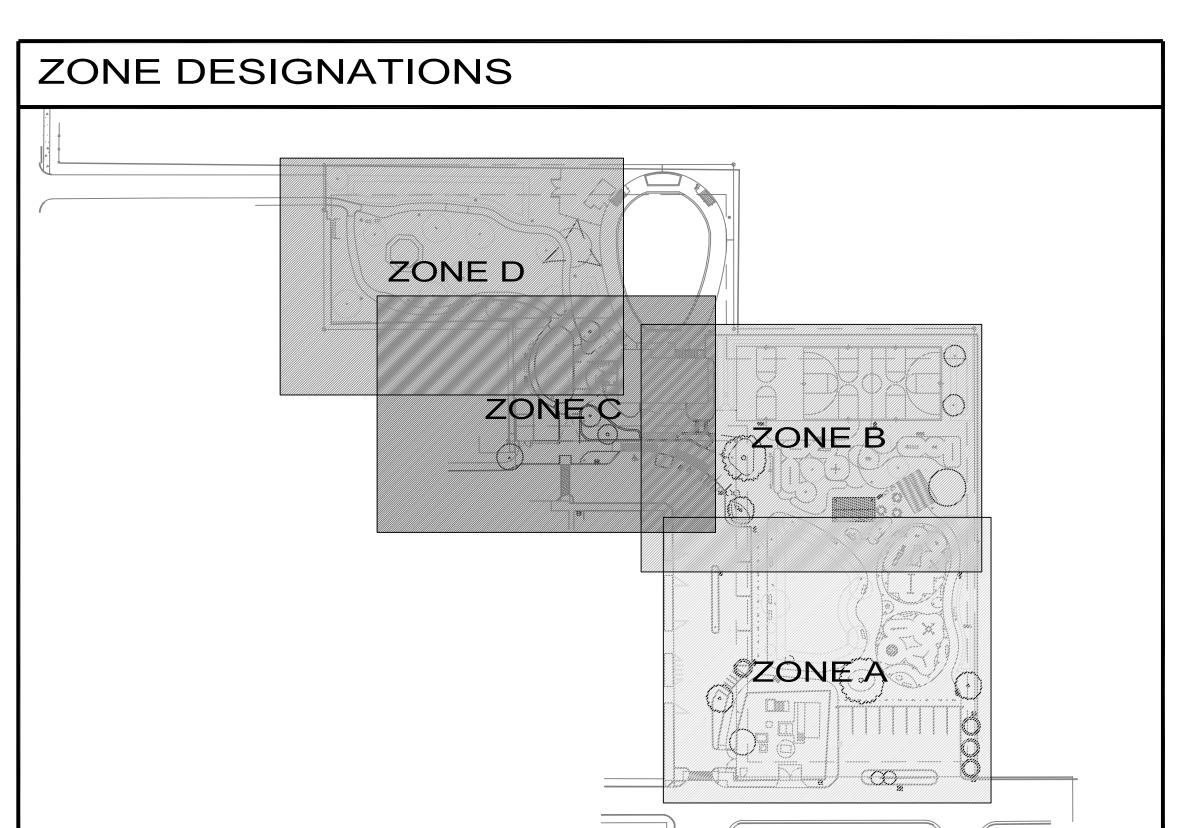
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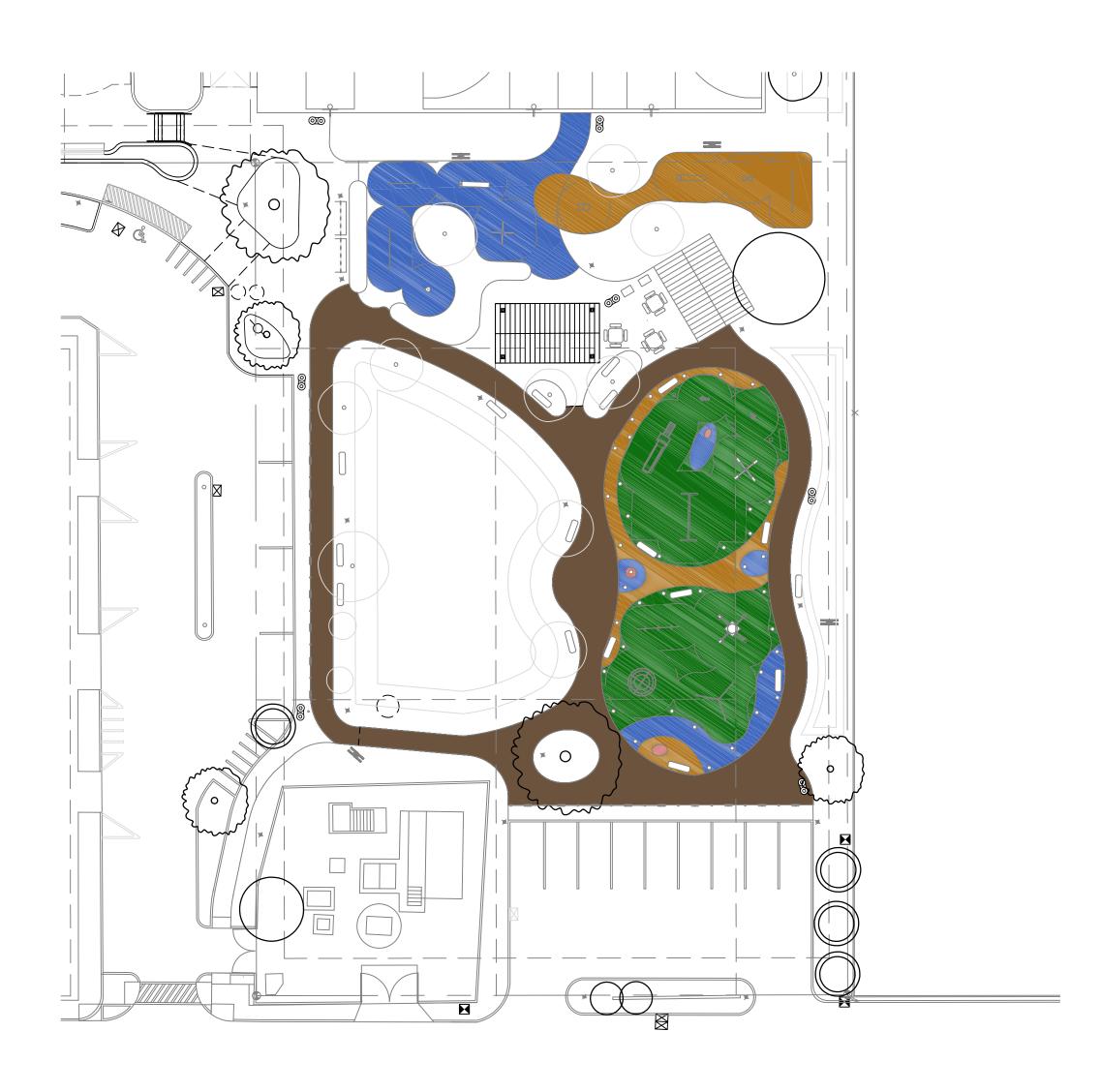
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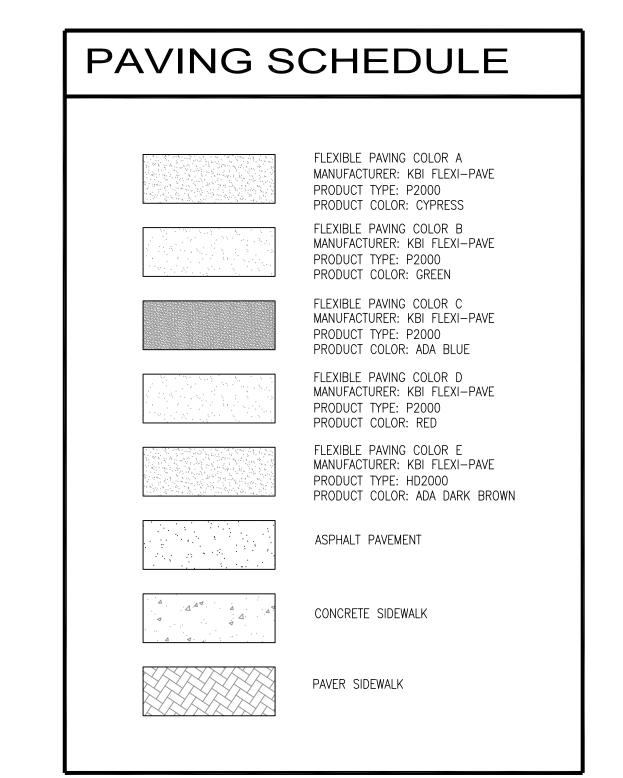


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Seal:

Consultants: CIVIL ENGINEER: Meridian Engineering, LLC

LANDSCAPE ARCHITECT: Craig Reynolds, RLA

Submissions:

July 28, 2011 - Public Meeting #1 September 30, 2011 - HARC, Tree

Commission, DRC and Planning January 4, 2012 - TIF Application January 18, 2012 - Revised Planning

January 27, 2012 - Revised Planning

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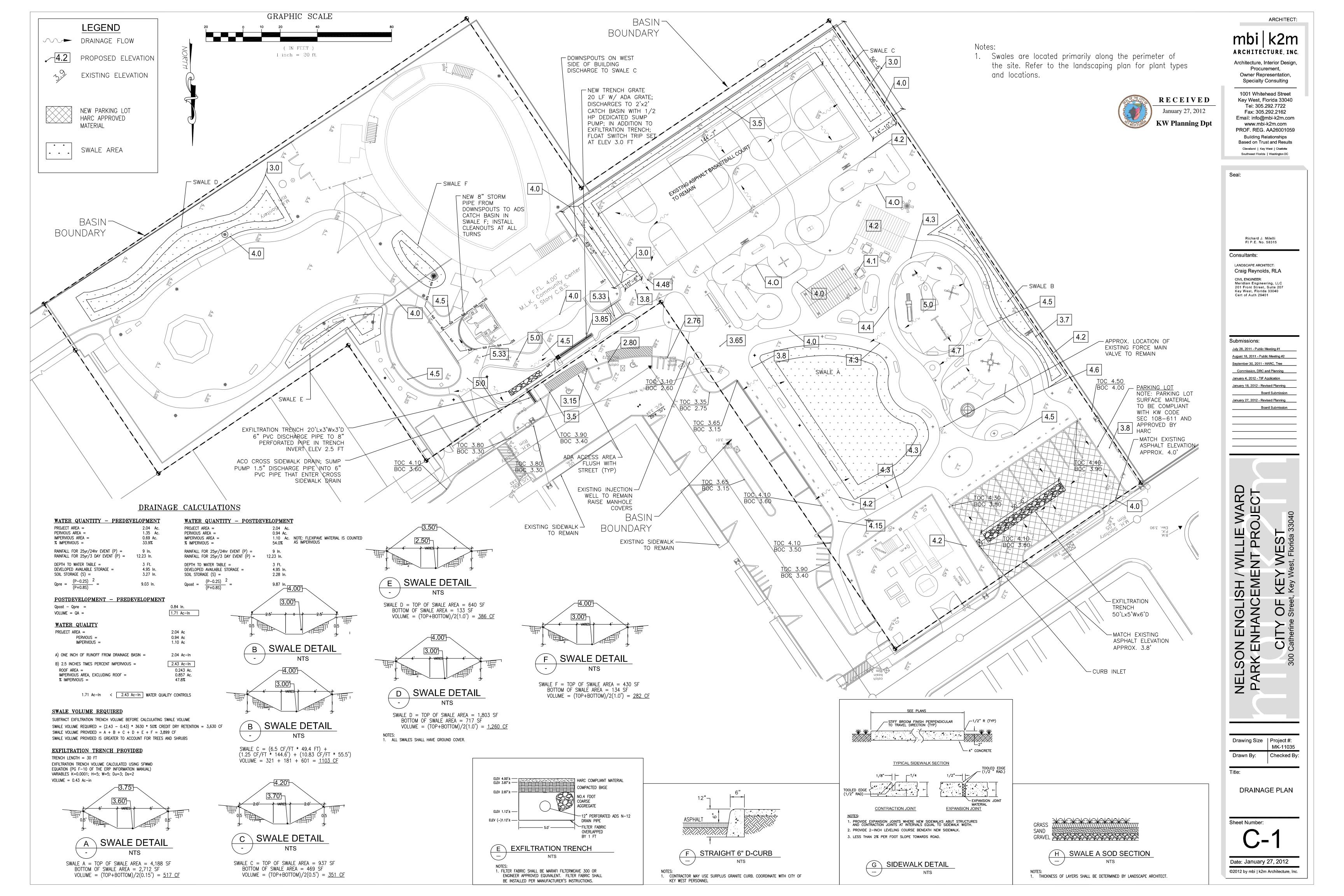
HARDSCAPE NOTES AND LEGENDS

Sheet Number:

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GENERAL NOTES:

GENERAL LANDSCAPE NOTES:

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GENERAL LANDSCAPE RELOCATION NOTES:

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- 2" AND LANGER CALIFER TREES BRACED BY GUYING:

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Owner Representation, Specialty Consulting

1001 Whitehead Street Key West, Florida 33040 Tel: 305.292.7722

Fax: 305.292.7722
Fax: 305.292.2162
Email: Info@mbHx2m.com

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Board Submission

Seal

PLANT LIST:			Planning Dpt	
te	Status		Mitigation	
and 5"	Relocate on site per p	1 yr. s unwabilit		
and 5"	Remove		Yes, or-site	
damaged	Remove		Yes, or-site	
GW+/-	Remove		Yes, coalte	

1	Royal Palm	10° GW +/-	Remove	Yes, or-site	
PLANT LIST					
	Botanical Name	Common Name	Specifications (PH = Planted Height)	Native	
TREE	S AND PALMS				
2	Arenge tremula	DWARF Sugar Palm	8 PH	No	
3	Bismarckie nobilis	Bis-marck Palm	8' Grey Wood, fat and heavy matched specimens	190	
4	Bursera simaruò a	Paradise Tree	FF#1, 12' PH and 6' CT, standard	Yes	
5	Calypranthes pallens	Spicewood	6' PH, FF#1 (note to city: 12' ht. not evallable)	Yes	
24	Calypranthes zuzygium	Myrtle of the River	FF#1, 12' PH and 6' CT, standard	Yes	
1	Canella winteriana	Cinnarron Bark	FF#1, 12' PH and 6" CT, standard	Yes	
3	Chrysophylum olviforme	Satin Leaf	FF#1, 12' PH and 6' CT, standard	Yes	
18	Coccolob auvitera	Seagrape	& PH, standards if possible (note to city; 12 ht, not available)	Yes	
2	Conocarpus erectus 'cericeus'	Silver Buttonwood	FF#1, 12 PH and 6" CT, standard	Yes	
2	Lysiom a latisitiquum	Bahama Tamarind	FF#1, 12' PH and 6' CT, standard	Yes	
1	Prunus myrtifolia	West Indian Cherry	FF#1, 12' PH and 6' CT, standard	Yes	
14	Pseudophoenix sarpentii	Buccaneer Palm	4 PH	Yes	
86	Sabal Palmetto	Sabal Palm	Slicks, staggered heights between 9 and 16' CT	Yes	
9	Thringx morisii	Silver Thatch Palm	4' PH, full, (6) doubles, (3) triple	Yes	
2	Ceib a pentandra	Kapok Tree	FF#1, 12 PH and 6" CT	No	
SHRL	IBS AND GROUNDCOMERS				
185	Borichia art-presonna	Sea Oveve Daisy	1 gallon (note to city; will become 2.5' within year)	Yes	
48	Cappanis cynophallophora	Jamaica Caper	4 PH	Yes	
70	Chrysolobanus iceco sp.	DWARF Cocoplum	3 gallon	No	
31	Conocarpus erectus 'cericeus'	Silver Buttonwood	4 PH, MI	Yes	
12	Eugenia foetida	Spanish Stopper	4 PH, MI	Yes	
18	Gymnanthes (upisa	Crabwood	4 PH	Yes	
12	Hamelia patens	Firebush	15 gallon (minimum 2 PH)	Yes	
170	Laniana camera	Yellow Lantana	1 gallon	No	
345	Liriope muscarii	Liriope	1 gallon	No	
8	Myrciantes Fagrans	Simpson Stopper	5'PH, multi trunk	Yes	
9	Psychotria nervosa	Wild Coffee	3 gallon, full (minimum 2" PH)	Yes	
43	Spertine spertinee	Spartina Grass	3 gallon	Yes	
3	Suriana maritima	Bay Cedar	15 gallon, full (minimum 2' PH)	Yes	
7	Tripsacum dactyloides	Fakahatchee Grass	1 gallon	Yes	
190	Tripsecum foridane	Gama Grass	1 gallon	Yes	
40	Zamia floridana	Coonte	3 gallon	Yes	

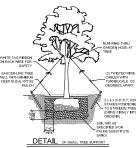
RELOCATION AND REMOVAL LEGEND

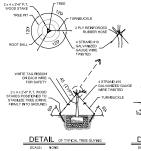
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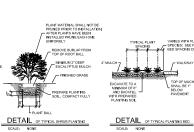
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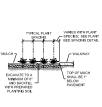


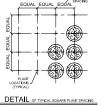














DETAIL OF TYPICAL TRIANGULAR PLANT SPACING

ISH / WILLIE WARD

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OF Street, CITY (

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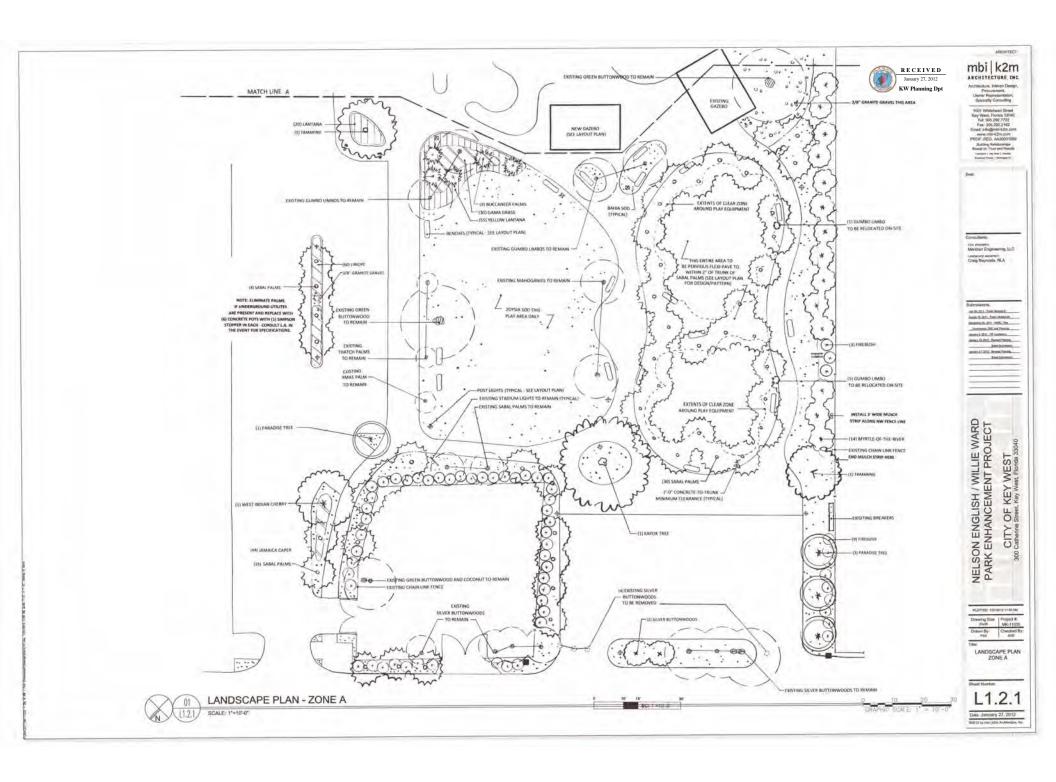
LANDSCAPE NOTES DETAILS

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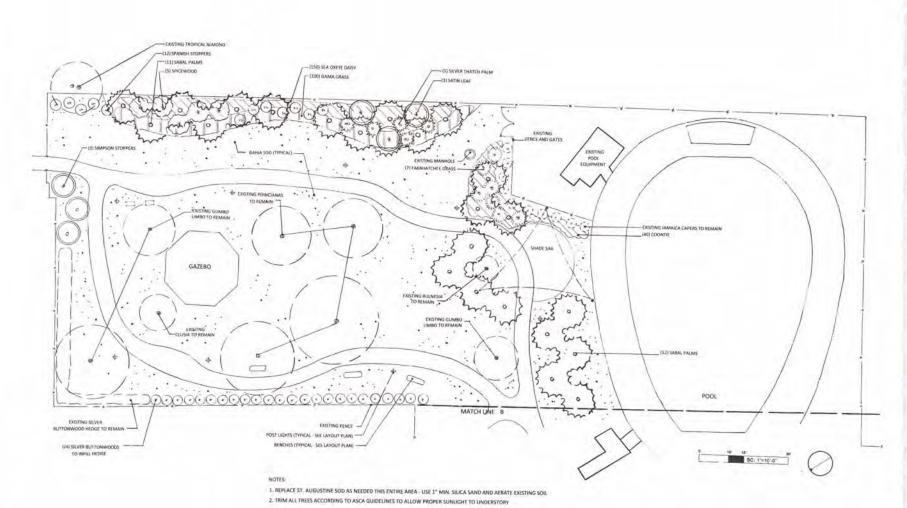
Merchan Engineering, LLC Craig Reynolds, RLA

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NELSON ENGLISH / WILLIE WARD PARK ENHANCEMENT PROJECT CITY OF KEY WEST Catherine Street, Key West, Florida 3.

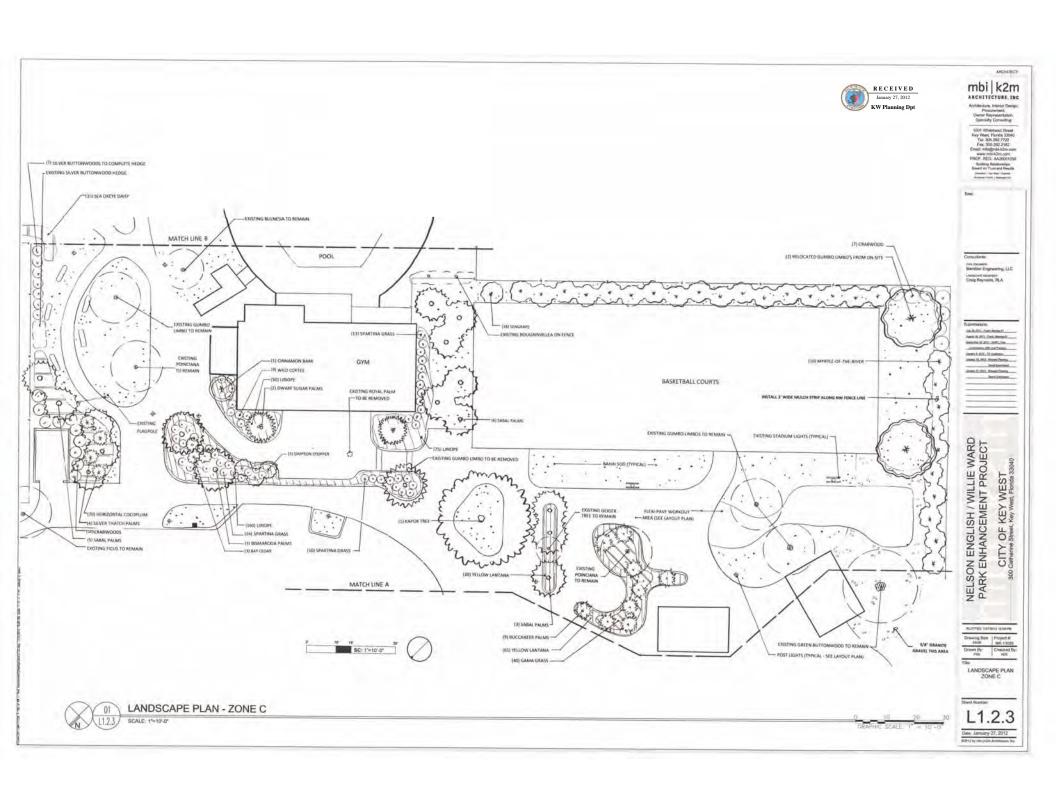
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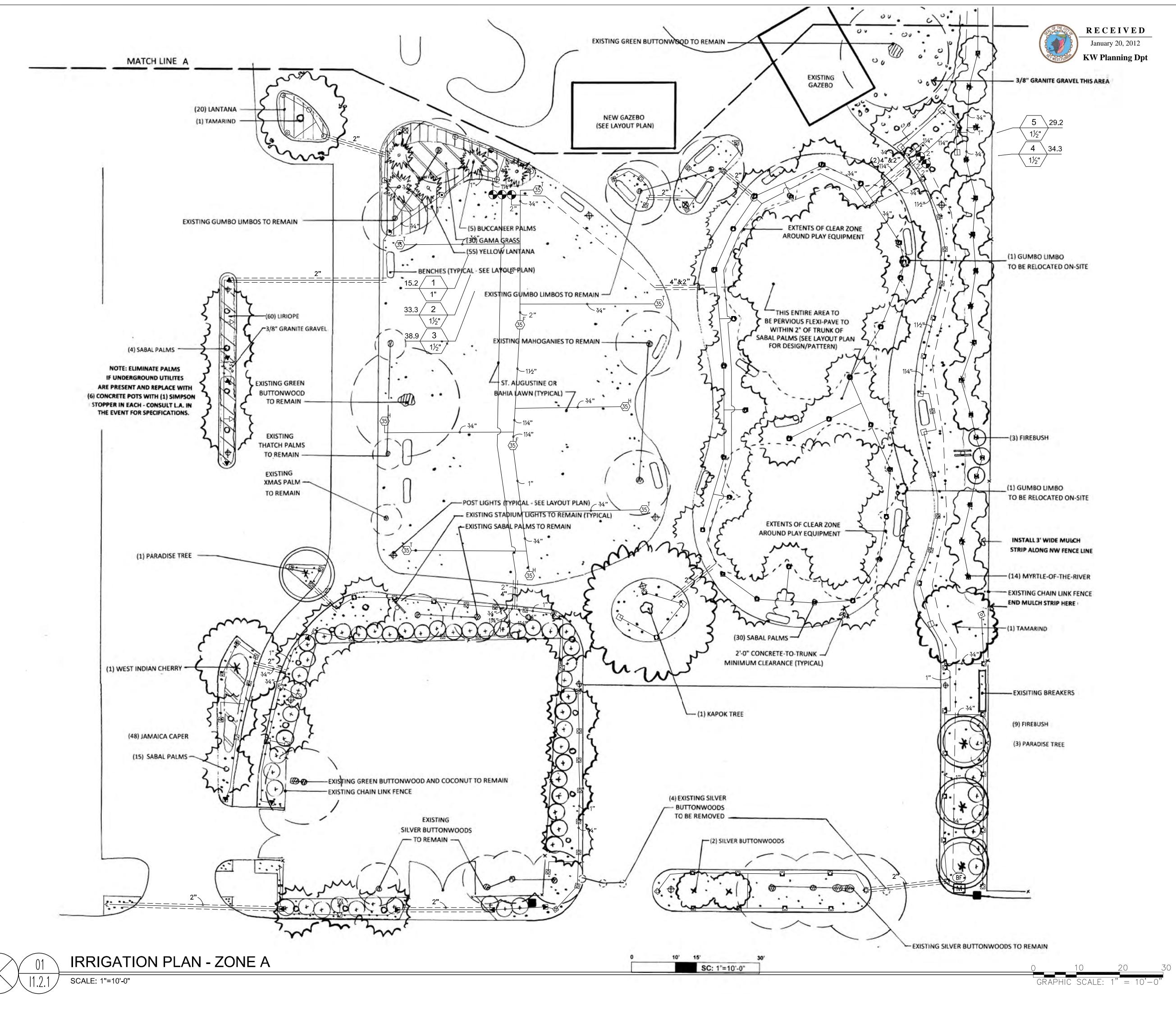
LANDSCAPE PLAN ZONE B



LANDSCAPE PLAN - ZONE B

SCALE: 1"=10"-0"





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ARCHITECT:

Architecture, Interior Design,
Procurement,
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Specialty Consulting

1001 Whitehead Street
Key West, Florida 33040
Tel: 305.292.7722
Fax: 305.292.2162
Email: info@mbi-k2m.com
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Seal:

Consultants:

CIVIL ENGINEER:
Meridian Engineering, LLC
LANDSCAPE ARCHITECT:
Craig Reynolds, RLA

Submissions:

NELSON ENGLISH / WILLIE WARD
PARK ENHANCEMENT PROJECT
CITY OF KEY WEST

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IRRIGATION PLAN ZONE A

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Consultants: CIVIL ENGINEER:

Meridian Engineering, LLC LANDSCAPE ARCHITECT: Craig Reynolds, RLA

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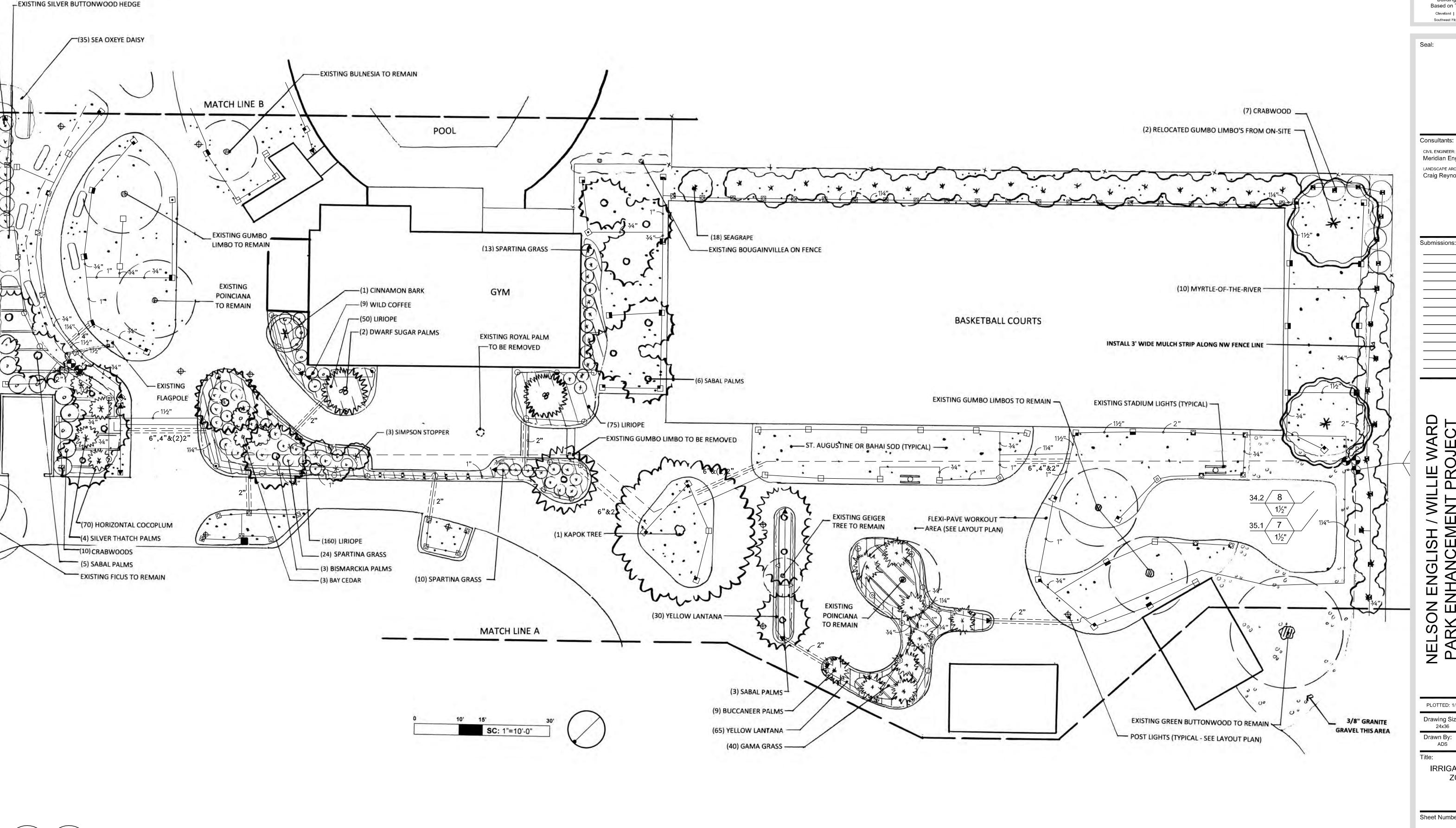
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IRRIGATION PLAN ZONE B

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——— (7) SILVER BUTTONWOODS TO COMPLETE HEDGE

IRRIGATION PLAN - ZONE B

SCALE: 1"=10'-0"





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Consultants: CIVIL ENGINEER:

Meridian Engineering, LLC LANDSCAPE ARCHITECT: Craig Reynolds, RLA

Submissions:

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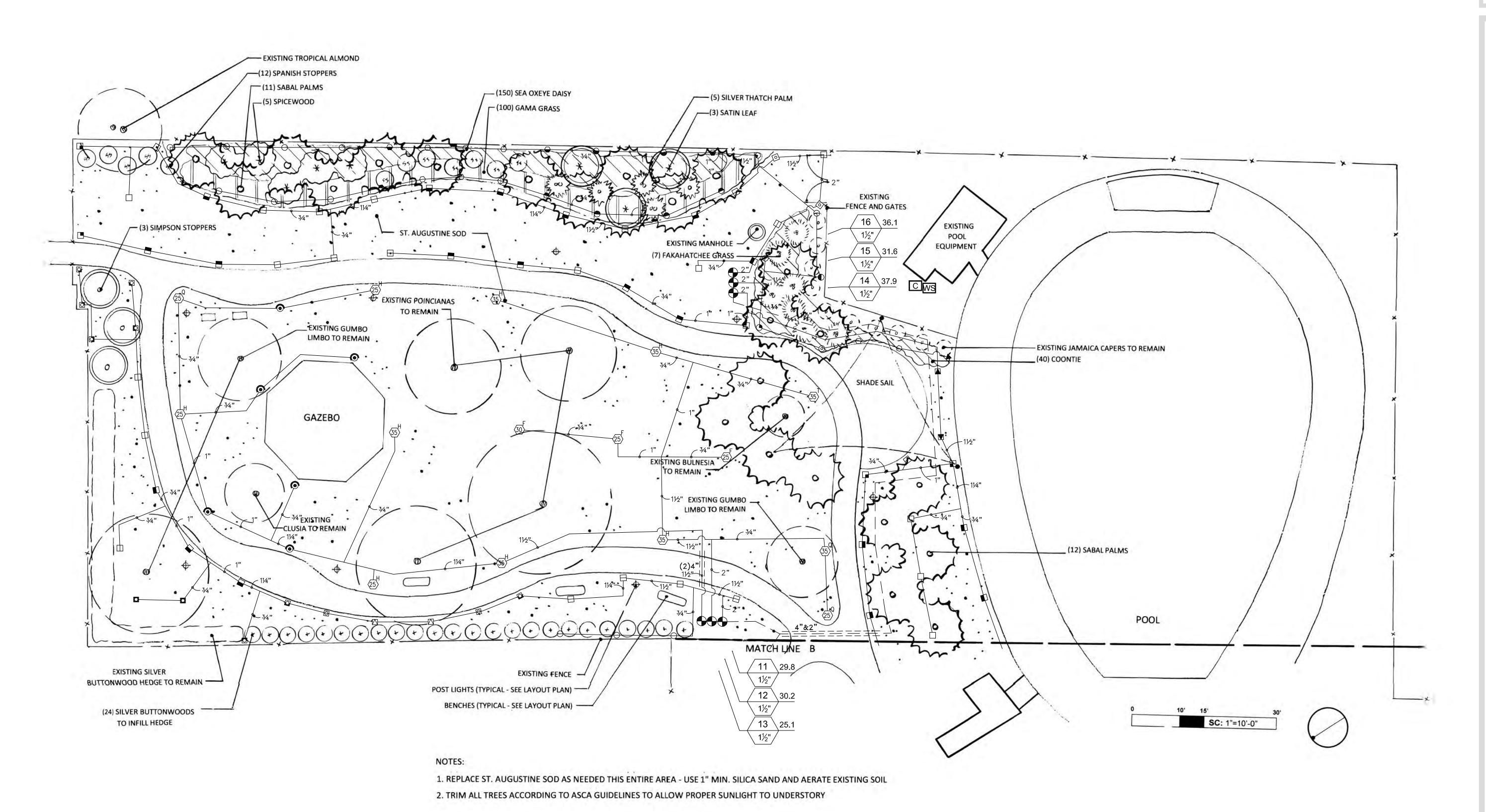
IRRIGATION PLAN

ZONE C

Sheet Number:

Date: January 18, 2012

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IRRIGATION PLAN - ZONE C

SCALE: 1"=10'-0"

С WS Irritrol Weather Logic Weather Sensor Irrigation Lateral Line: PVC Class 160 Irrigation Mainline: PVC 2-1/2" Schedule 40

> Pipe Sleeve: PVC Schedule 40 Extend sleeves 18 inches beyond edges of paving or construction. IRRIGATION CONTRACTOR RESPONSIBLE FOR THEIR OWN TAKE OFF

> > Valve Callout -Valve Number −Valve Flow - Valve Size

Crawford Irrigation Design, Inc.

IRRIGATION DESIGN AND CONSULTATION SERVICES

Edgewater, Florida Tel: (386) 424-0027 EMAIL: CID@Atlantic.net Fax: (866) 654-2902

IRRIGATION ASSOCIATION CERTFIED IRRIGATION DESIGNER

AND AUDITOR: 003419

UNDERGROUND IRRIGATION SPECIFICATIONS

1.0 GENERAL

1.1 SUMMARY: Includes but not limited to:

A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning.

1.2 SYSTEM DESCRIPTION:

A. Design Requirements: 1. Layout of Irrigation Heads.

a. Location of heads shown on Drawings is approximate. Actual placement may vary slightly as is required to achieve full, even coverage without spraying onto buildings, sidewalks,

recommendations, where revisions are advisable. 1.3 QUALITY ASSURANCE:

A. Regulatory Requirements 1. Work and materials shall be in accordance with latest rules and regulations, and other applicable state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes.

b. During layout, consult with Landscape Architect to verify proper placement and make

B. Pre-Installation Conference: 1. Meet with Owner and Landscape Architect to discuss and clarify all aspects of job requirements

prior to commencing work of this Section. C. System Adjustments: 1. Minor adjustments in system will be permitted to avoid existing fixed obstructions.

2. Mainline, laterals, and valves are shown for clarity purposes only. All irrigation equipment to be with landscape area. Mainline, laterals and valves to be installed as far away from existing and new specimen trees as possible. D. 1. Documentation and submittal of actual water supply performance prior to commencing installation.

1.4 SUBMITTALS:

A. Record Drawings: 1. Prepare an accurate as-built drawing as installation proceeds to be submitted prior to final

inspection. Drawing shall include: a. Detail and dimension changes made during construction. b. Significant details and dimensions not shown in original Bidding Documents.

2. Maintain, at job site, one copy of Contract Documents (as defined in General Conditions) and relevant shop drawings.

3. Clearly mark each document "PROJECT RECORD COPY" and maintain in good condition for use of the Landscape Architect and Owner. 4. As-built drawing shall be clearly drawn on reproducible mylar. 5. Submit product literature for all sprinklers, valves, pipe, wire, wire connectors and controller.

6. Final payment for system will not be authorized until accurate and complete submittals are delivered to the Landscape Architect. B. Instruction Manual:

1. Provide instruction manual which lists complete instructions for system operation and

1.5 PRODUCT STORAGE: A. During construction and storage, protect materials from damage and prolonged exposure to sunlight.

A. Standard one (1) year warranty stipulated in General Conditions shall include: Completed system including parts and labor.

2. Filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one (1) year following final acceptance.

3. System adjustment to supply proper coverage to areas to receive water.

1.7 MAINTENANCE:

1. In addition to installed system, furnish Owner with the following items at close-out: a. Two sprinkler head bodies of each size and type.

b. Two nozzles for each size and type. c. Two adjusting keys for each sprinkler head cover type.

2.0 PRODUCTS:

2.1 PIPE, PIPE FITTINGS, AND CONNECTIONS:

A. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type, and working pressure.

1. Pressure Lines: as indicated on plans. 2. Lateral Lines: as indicated on plans.

3. Risers: sch. 80 PVC, gray C. Fittings:

1. Schedule 40 PVC.

2.2 SPRINKLER HEADS:

A. Conform to requirements shown on Drawings as to type, radius of throw, pressure, and discharge.

2.3 AUTOMATIC SPRINKLER SYSTEM:

1. Schedule 40 PVC.

A. Control valves shall be of size and type indicated on Drawings. B. Control wire shall be UL listed, color coded copper conductor direct burial size 14. Tape control wire to bottom of main line every ten (10') feet. Use 3M-DBY waterproof wire connectors at splices and locate all

boxes. Use white or gray color for common wire and other colors for all other wire. Each common wire may serve only one controller. C. Add one extra control wire from panel to valves for use if a wire fails and mark it in the control box as an extra wire. This wire shall be of a different color than the others.

2.4 VALVES:

A. Electric Valves:

 Make and model shown on Drawings. B. Gate valves:

1. Bronze construction, angle type, 150 pound class, threaded connections, with cross-type operating handle designed to receive operating key.

C. Automatic Controller: 1. Make and model shown on Drawings.

D. Backflow Preventor: 1. Make and model shown on Drawings.

2.5 VALVE ACCESSORIES:

1. Ametek or Brooks rectangular heavy duty valve box with locking lid or Landscape Architect

approved equal 2. Do not install more than one (1) valve in a single box.

3. Valve boxes shall be large enough for easy removal or maintenance of valves.

3.0 EXECUTION:

3.1 PREPARATION: A. Protection:

1. Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense.

3.2 INSTALLATION: A. Trenching and Backfilling:

1. Over-excavate trenches by two (2") inches and bring back to indicated depth by filling with fine, rock-free soil or sand.

2. Cover pipe both top and sides with two (2") inches of material specified in paragraph above. In no case shall there be less than two (2") inches of rock-free soil or sand surrounding pipe.

B. Installation of Plastic Pipe:

1. Install plastic pipe in a manner to provide for expansion and contraction as recommended by

2. Unless otherwise indicated on Drawings, install main lines with a minimum cover of eighteen (18") inches based on finish grade. Install lateral lines with a minimum cover of twelve (12") inches based on finish grade.

3. Install pipe and wires under driveways or parking areas in specified sleeves a minimum of eighteen (18") inches below finish grade or as shown on Drawings. 4. Locate no sprinkler head closer than twelve (12") inches from building foundation. Heads

immediately adjacent to mowing strips, walks or curbs shall be one (1") inch below top of

mowing strip, walk or curb. 5. Drawings show arrangement of piping. Should local conditions necessitate rearrangement, obtain approval of Landscape Architect prior to proceeding with work. 6. Cut plastic pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will

mowing strip, walk or curb and have a minimum of one (1") inch clearance between head and

7. Make solvent weld joints in the following manner: a. Clean mating pipe and fitting with clean, dry cloth and apply one (1) coat of P-70 primer to

b. Apply uniform coat of 711 solvent to outside of pipe.

c. Apply solvent to fitting in similar manner. d. Reapply a light coat of solvent to pipe and quickly insert into fitting.

e. Give pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe

is inserted to full depth of fitting socket. f. Hold in position for fifteen (15) seconds minimum or long enough to secure joint. g. Wipe off solvent appearing on outer shoulder of fitting.

h. Do not use an excessive amount of solvent thereby causing an obstruction to form on the i. Allow joints to set at least 24 hours before applying pressure to PVC pipe.

8. Tape threaded connection with teflon tape. 9. Install concrete thrust blocks wherever change of direction occurs a PVC main pressure lines unless otherwise detailed on Drawings.

C. Control Valves and Controller: 1. Install controller, control wires, and valves in accordance with Manufacturer's recommendations and according to applicable electrical code.

2. Install valves in plastic boxes with reinforced heavy duty plastic covers. Locate valve box tops at 3. Install remote control valves in valve boxes positioned over valve so all parts of valve can be reached for service. Set cover of valve box even with finish grade.

4. Install all valve boxes over nine (9") inches of gravel for drainage. 1. Prior to the installation of sprinkler heads, open control valves and use full head of water to flush

2. Set sprinkler heads perpendicular to finish grade. 3. Set lawn sprinkler heads adjacent to existing walks, curbs, and other paved areas to grade.

A. Adjust heads to proper grade when turf is sufficiently established to allow walking on it without appreciable harm. Such lowering or raising of of heads shall be part of the original contract with no additional charge to the Owner. B. Adjust sprinkler heads for proper distribution and trim to ensure spray does not fall on building. C. Adjust watering time of valves to provide proper amounts of water to all plants.

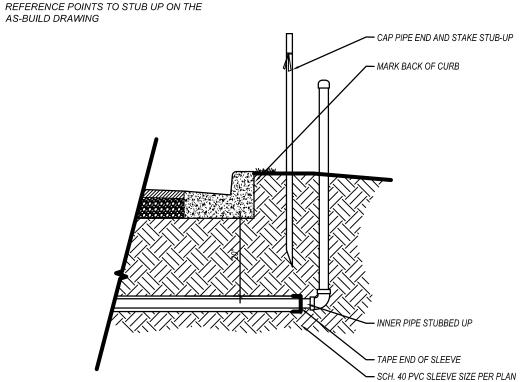
out svstem.

A. After system is installed and approved, instruct Owners Representative in complete operation and

END OF SECTION

AS-BUILD DRAWING

PROVIDE MEASUREMENTS FROM 2

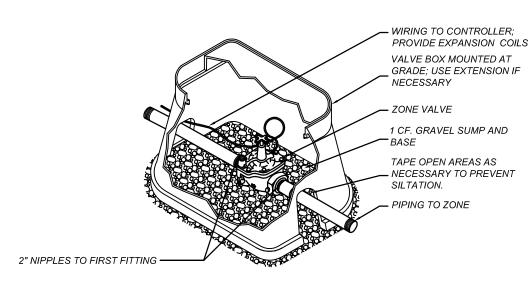


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January 20, 2012

KW Planning Dpt

SLEEVING ROUGH-IN DETAIL

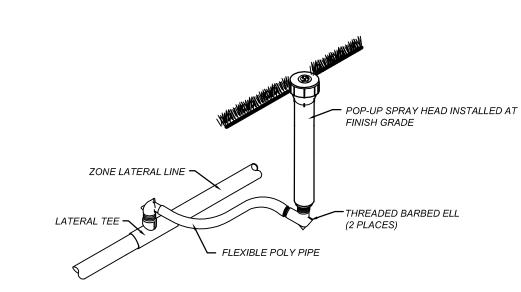


INSTALL TOP OF VALVE A MAXIMUM OF 15" FROM FINISHED GRADE.

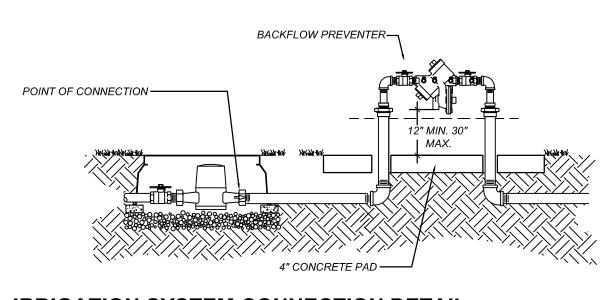
INSTALL REDUCERS AND ALL-THREAD AS NECESSARY AT EACH VALVE LOCATION.

INSTALL EACH VALVE TAP IN A VERTICAL ORIENTATION TO ASSURE THE PROPER VALVE DEPTH.

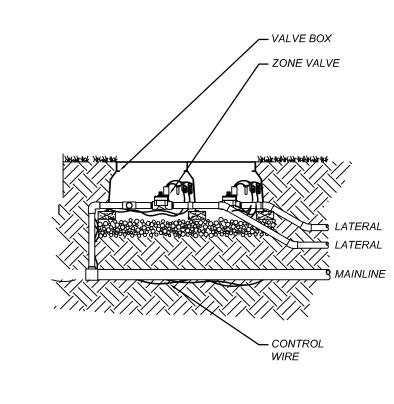
ZONE VALVE INSTALLATION DETAIL



SPRAY HEAD INSTALLATION DETAIL



IRRIGATION SYSTEM CONNECTION DETAIL



ARCHITECT: ARCHITECTURE, INC.

Architecture, Interior Design, Procurement, Owner Representation, Specialty Consulting

1001 Whitehead Street Key West, Florida 33040 Tel: 305.292.7722 Fax: 305.292.2162 Email: info@mbi-k2m.com www.mbi-k2m.com PROF. REG. AA26001059 Building Relationships Based on Trust and Results Cleveland | Key West | Charlotte Southwest Florida | Washington Do

Consultants: CIVIL ENGINEER: Meridian Engineering, LLC LANDSCAPE ARCHITECT: Craig Reynolds, RLA

PLOTTED: 9/30/2011 10:52 AM Drawing Size | Project #: MK-11035 Checked By Drawn By:

> IRRIGATION PLAN ZONE C

Sheet Number:

Date: January 18, 2012

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