



## THE CITY OF KEY WEST

Post Office Box 1409  
Key West, FL 33041-1409

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3902

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Invitation to Bid #18-016  
Hawk Missile Site Restoration

ADDENDUM #1

May 21, 2018

To All Bidders:

This addendum is issued to corroborate the Construction Plans to be used in this project and in response to questions received, and to provide the mandatory pre-bid meeting sign in list. The referenced Invitation to Bid is hereby addended, as fully and completely as if the same were set forth therein:

**Construction Plans:**

**Please be advised of NO REVISIONS to the Construction Plans for Hawk Missile Site Restoration.** No flushing channel will be constructed in the east red mangrove planting area. Construction Plans are enclosed to this Addendum #1.

Please refer to Construction Plans, Sheet C-1, Environmental Notes for specifications discussed at the pre-bid meeting, regarding method of planting, plant materials, and planting mix.

**Question:**

Please refer to Section 01000 General Requirements, Section 1.1D (page 58). Is a licensed surveyor registered in the State of Florida required for this project?

**Response:**

A licensed surveyor is not required to perform and complete work under this project.

**Question:**

Please refer to Section 01010 Summary of Work, Section 1.1, paragraph 2 (page 63). Description states “plant 160 one-gallon size red and black mangroves...” Construction Plans, Sheet C-2 shows three planting areas, including two black mangrove recruitment areas and the east red mangrove planting area, indicating the planting of 280 red and black mangroves, 80 red and black mangroves, and 80 red and black mangroves. What is the proper number to be planted?

**Response:**

Please plant a total of 440 one-gallon size red and black red and black mangroves, in the areas indicated on the Construction Plans.

**Question:**

Is a budget or cost estimate available for this project?

**Response:**

No budget or cost estimate for this project is available.

Mandatory pre-bid meeting was held at the Hawk Missile Site on Government Road, on May 17, 2018. The sign in sheet is enclosed.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 by acknowledging Addendum in their proposal or by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Business

# HAWK MISSILE SITE RESTORATION

**Perez Engineering & Development, Inc.**  
 CERTIFICATE OF AUTHORIZATION NO. 8579

**Key West Office**  
 1010 EAST KENNEDY DRIVE, SUITE 201  
 KEY WEST, FLORIDA 33040  
 TEL: (305) 293-9440 FAX: (305) 296-0243

DATE: JUNE 2017  
 PROJECT NUMBER: I61010  
 PROJECT NAME: HAWK MISSILE SITE RESTORATION  
 PREPARED BY: PEREZ ENGINEERING & DEVELOPMENT  
 PREPARED FOR: CITY OF KEY WEST, FLORIDA  
 PLANS DESCRIPTION: CONSTRUCTION PLANS

## CONSTRUCTION PLANS

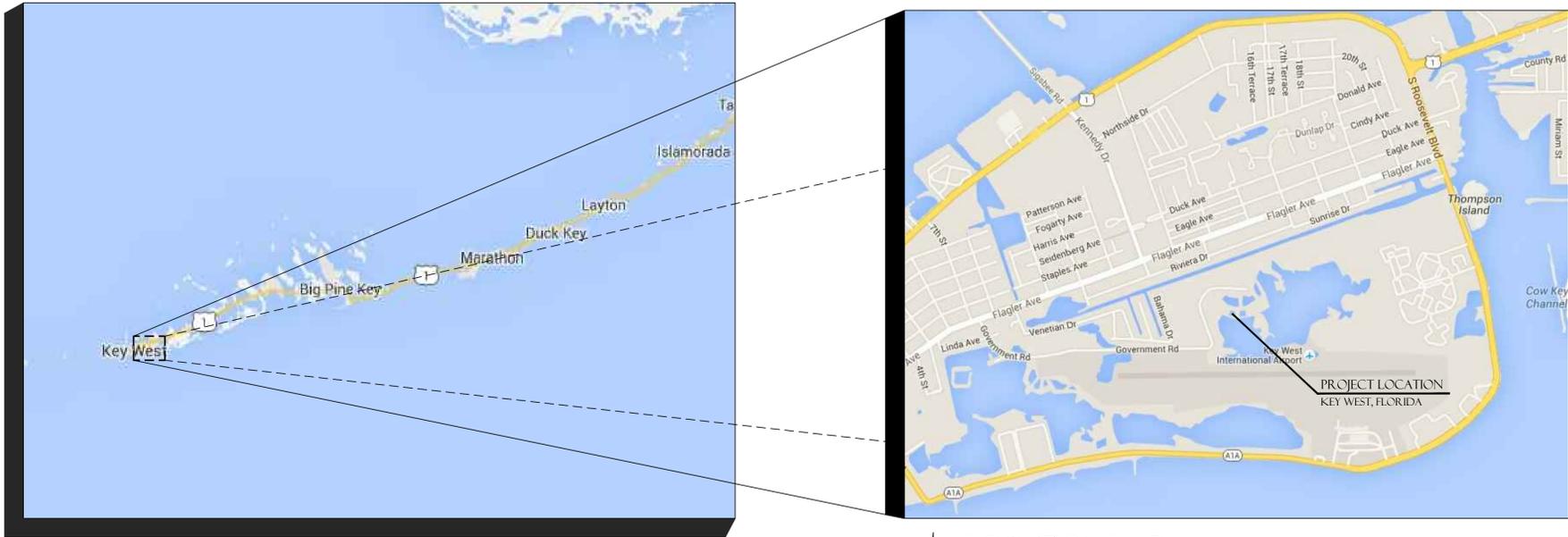
*HAWK MISSILE SITE  
KEY WEST, FLORIDA*



Know what's **below.**  
Call before you dig.

### SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
-	COVER
C-1	GENERAL NOTES
C-2	SITE PLAN



VICINITY MAP  
NOT TO SCALE

LOCATION MAP  
NOT TO SCALE

*PREPARED FOR:*  
**CITY OF KEY WEST**  
  
KEY WEST, FLORIDA

REVISIONS:	DATE
1. _____	_____
2. _____	_____
3. _____	_____
4. ----	_____
5. ----	_____
6. ----	_____

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

**Perez Engineering & Development, Inc.**  
 CERTIFICATE OF AUTHORIZATION No. 8579

**KEY WEST OFFICE**  
 1010 EAST KENNEDY DRIVE, SUITE 201  
 KEY WEST, FLORIDA 33040  
 TEL: (305) 293-9440 FAX: (305) 296-0243

PERMIT AGENCY	PERMITS		
	TYPE	NUMBER	STATUS

ALLEN E. PEREZ, P.E. NO. 51468  
(SEAL)

DATE

**GENERAL NOTES**

- THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS AND ADVISE THE ENGINEER OF ANY CONFLICTS OF REPRESENTATION BETWEEN DRAWINGS AND/OR SPECIFICATIONS PRIOR TO COMMENCING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK UNDER THIS CONTRACT AND NOTIFY THE ENGINEER IN WRITING OF ANY DIFFERENCES BEFORE COMMENCING WITH ANY CONSTRUCTION.
- HORIZONTAL COORDINATES ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM. VERTICAL ELEVATIONS ARE BASED ON NGVD 1929 DATUM.
- THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES. THE CONTRACTOR SHALL CONTACT BELLSOUTH, THE LOCAL TELEPHONE COMPANY AND COMCAST, THE LOCAL CABLE TV PROVIDER TO VERIFY THE LOCATION OF BURIED TELEPHONE AND CABLE TV UTILITIES. NONE HAVE BEEN INDICATED ON THE DRAWINGS. CALL 1-800-432-4770 BEFORE DIGGING OR TRENCHING OPERATIONS BEGIN. CONTRACTOR SHALL ALSO CONTACT CITY OF KEY LARGO / MONROE COUNTY PUBLIC WORKS OFFICE TO LOCATE SECONDARY ELECTRIC LINES.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS. LOCATIONS OF NEW UTILITIES SHALL BE ADJUSTED IN A MANNER APPROVED BY THE ENGINEER TO AVOID CONFLICTS. DAMAGES TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CLIENT.
- ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING OSHA (29 CFR 1926).
- ALL ITEMS INDICATED TO BE REMOVED OR DEMOLISHED SHALL BE REVIEWED WITH THE DEVELOPER TO DETERMINE IF THE ITEM IS TO BE PROPERTY OF THE CONTRACTOR. ALL ITEMS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, UNLESS OTHERWISE NOTED. NO SALVAGE VALUE IS EXPRESSED OR IMPLIED BY THESE CONTRACT DOCUMENTS FOR ANY ITEMS TO BE REMOVED OR DEMOLISHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE CONTRACTOR'S EQUIPMENT, MATERIALS, AND PERSONNEL, AND SHALL PROVIDE ADEQUATE BARRIERS TO PREVENT RISK TO OTHERS FROM THE CONTRACTOR'S ACTIVITIES.
- WHERE ACTUAL DIMENSIONS AND SIZES ARE PROVIDED IN THE DRAWINGS, THEY SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGE SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- THE CONTRACTOR SHALL SEQUENCE HIS OPERATIONS SUCH THAT ORANGE MESH SAFETY FENCING IS PROVIDED ALONG ALL AREAS BEING TRENCHED AND NO TRENCH IS LEFT OPEN AT THE END OF THE WORK DAY.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION METER FROM THE FLORIDA KEYS AQUEDUCT AUTHORITY.
- IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION STABILIZATION MATERIAL AS SPECIFIED.
- IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT. NEW CONSTRUCTION IS SHOWN IN HEAVY LINE WEIGHT.
- ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE, UNDER THE DIRECTION OF A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.

**EROSION CONTROL NOTES**

- EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES SHALL BE PROVIDED THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL SLOPES AND SURFACES THROUGHOUT CONSTRUCTION AND UNTIL A STABLE SURFACE CONDITION EXISTS. THE CONTRACTOR SHALL MINIMIZE THE EXPOSED AREA AT ANY POINT DURING CONSTRUCTION AS MUCH AS PRACTICAL.
- FILTER FABRIC SILT FENCE SHALL BE IN CONFORMANCE WITH SECTION 985, FDOT SPECIFICATION.
- CONTRACTOR SHALL INSTALL EROSION CONTROLS NOTED ON DRAWINGS AND APPLICABLE PERMITS. EROSION CONTROLS SHALL BE MAINTAINED UNTIL A PERMANENT STAND OF GRASS IS PLANTED ONSITE.
- BALED HAY OR STRAW BARRIERS SHALL BE CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH FDOT INDEX NO. 103.
- SILT FENCE LOCATIONS SHOWN HEREON ARE FOR CLARITY ONLY AND SHOULD BE CONSTRUCTED WITHIN PROPERTY LINES.
- PROVIDE EROSION CONTROL MEASURES CONSISTING OF STAKED SILT FENCES AND HAY BALES ALONG THE PROPOSED LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WETLANDS OR WATER BODIES) AND OFF-SITE LANDS AND WATERBODIES. MAINTAIN THESE MEASURES DAILY UNTIL CONSTRUCTION ACCEPTANCE BY THE OWNER AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.
- EROSION CONTROL SHALL MAINTAINED WITHIN CONSTRUCTION AREA BY QUICKLY STABILIZING DISTURBED AREA TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING GRASS COVER, HAY BALES AND OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER AND REGULATORY AGENCIES.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL, AT THE REQUEST OF THE OWNER OR AS NECESSARY MODIFY, RELOCATE THE ENVIRO-FENCE AND/OR SILT FENCE TO ALLOW FOR ACCESS AND TO COMPLETE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE EROSION CONTROL AT ALL TIMES.
- DURING CONSTRUCTION, THE CONTRACTOR WILL PROVIDE TEMPORARY SEEDING AND MULCHING FOR AREA THAT HAVE BEEN CLEARED AND NOT REWORKED WITHIN 7 CALENDAR DAYS DURING THE WET SEASON (APRIL THROUGH SEPTEMBER AND 14 CALENDAR DAYS DURING THE DRY SEASON (OCTOBER THROUGH MARCH). ALSO, ALL SIDE SLOPES SHALL BE SODDED OR SEEDED AND MULCHED WITHIN 7 DAYS DURING WET SEASON AND 14 DAYS DURING THE DRY SEASON.
- ALL SURFACE WATER DISCHARGE FROM SITE, INCLUDING DEWATERING DISCHARGE SHALL MEET STATE WATER QUALITY STANDARDS (LESS THAN 29 NTU ABOVE BACKGROUND) PRIOR TO REACHING ANY WATERS OF THE STATE INCLUDING WETLAND.
- IN THE EVENT THAT THE EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THESE PLANS PROVE NOT TO BE EFFECTIVE. ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ANY ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE APPROVED BY MONROE COUNTY AND SFWMD COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.

**ENVIRONMENTAL NOTES:**

**MEANS AND METHODS**

CONTRACTOR WILL UTILIZE THE "MINIMUM TOOL" NEEDED TO COMPLETE THE PROJECT WITH MINIMAL IMPACTS TO ADJACENT MANGROVES AND WETLANDS. CONTRACTOR SHALL USE HAND TOOLS ONLY. CONTRACTOR WILL PROVIDE A LIST OF EQUIPMENT TO BE USED ON THE PROJECT WITHIN TWO WEEKS OF STARTING THE PROJECT, AND THE EQUIPMENT LIST MUST BE APPROVED IN WRITING BY THE CITY.

CONTRACTOR WILL PROVIDE A WORK PLAN FOR REVIEW BY THE CITY WITHIN TWO WEEKS PRIOR TO CONSTRUCTION. THE WORK PLAN WILL INCLUDE A LIST OF EQUIPMENT PROPOSED FOR THE PROJECT, SOURCE OF MATERIALS INCLUDING PLANTS AND TOPSOIL/PLANTING MIX, SPECIFICATIONS FOR TOPSOIL/PLANTING MIX INCLUDING ORGANIC CONTENT, NAME OF CERTIFIED ARBORIST TO CONDUCT ANY VEGETATIVE TRIMMING FOR THE PROJECT, LANDSCAPE CONTRACTOR RESPONSIBLE FOR PLANTING MANGROVE VEGETATION, WATERING AND MAINTENANCE SCHEDULE FOR PLANTED MANGROVES, AND WORK SCHEDULE.

EXISTING MANGROVE TREES WILL BE AVOIDED TO THE MAXIMUM EXTENT POSSIBLE. ALL WORK AREAS WILL BE EVALUATED IN A PRE-CONSTRUCTION MEETING WITH CITY REPRESENTATIVES AND MANGROVES TO BE AVOIDED DURING CONSTRUCTION WILL IDENTIFIED AND FLAGGED. THIS ON-SITE MEETING WILL BE SCHEDULED WITH CITY ENGINEERING AND ALSO THE CITY URBAN FORESTRY MANAGER, AT LEAST TWO WEEKS PRIOR TO PROJECT MOBILIZATION. ALL MANGROVES TO BE TRIMMED WILL BE HAND-TRIMMED BY THE CONTRACTOR'S ARBORIST, AND MECHANICAL REMOVAL OF MANGROVES WILL NOT BE ALLOWED UNLESS APPROVED IN WRITING BY THE CITY.

ALL EXCAVATION AND PLANTING IS TO BE FIELD-DIRECTED BY THE CITY USING THE PROJECT PLANS AS APPROXIMATE. BECAUSE SUB-SURFACE CONDITIONS ARE UNKNOWN, E.G. LOCATION OF CAPROCK, FIELD ADJUSTMENT OF THE LOCATION AND EXTENT OF EXCAVATION AND PLANTING OF MANGROVES MAY BE REQUIRED TO COMPLETE THE PROJECT SUCCESSFULLY. CONTRACTOR WILL CONSULT WITH CITY THROUGHOUT THE PROJECT ON THE LOCATION AND EXTENT OF EXCAVATION, GRADING WORK AND MANGROVE PLANTING.

ALL STAGING OF EQUIPMENT AND MATERIALS WILL BE IN LOCATIONS APPROVED IN ADVANCE AND IN WRITING BY THE CITY. THE CONTRACTOR WILL REQUEST ALL LAYDOWN AND STAGING AREAS IN WRITING A MINIMUM OF TWO WEEKS PRIOR TO USE, AND WILL NOT USE ANY STAGING AREA UNLESS APPROVED IN WRITING BY THE CITY.

**PLANT MATERIALS**

**PLANT - FORM AND CONDITION:** CONTRACTOR SHALL PROVIDE MANGROVES THAT MEET ALL SPECIFICATIONS FOR "WETLAND PLANTS" FOUND IN THE FLORIDA GRADES AND STANDARDS MANUAL PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY. SINCE THE PLANTS USED IN THE PROJECT WILL BE CONTAINERIZED, THE STANDARDS FOR CONTAINERIZED WETLAND PLANTS SHOULD BE REQUIRED. CONTAINERIZED SPECIMENS SHALL EXHIBIT A HEALTHY, WELL-DISTRIBUTED ROOT SYSTEM WHICH EXTENSIVELY PENETRATES THE SOIL SUCH THAT 90% OF THE SOIL MASS REMAINS INTACT WHEN THE PLANT IS REMOVED FROM THE CONTAINER. IN ADDITION, CONTAINERIZED SPECIMENS SHALL EXHIBIT VIGOROUS GROWTH WITH A BASE DIAMETER AT LEAST 50% OF THE DIAMETER OF THE CONTAINER. FOR THE ONE (1) GALLON RED MANGROVE AND THE ONE (1) GALLON BLACK MANGROVES, THE FLORIDA GRADES AND STANDARDS MANUAL SHOULD BE FOLLOWED WITH FLORIDA #1 - TYPE ONE MATRIX SPREADING FORM A REQUIREMENT. ALL PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND SHAPED WITHIN NORMAL HABIT OF GROWTH, OF PROPER COLOR, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS AND SHALL BE FREE OF DISEASE AND INSECT PESTS, EGGS OR LARVAE. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM DISEASE; WELL-SHAPED AND BRANCHED, WITH FULL FOLIAGE WHEN IN LEAF; HAVE NORMAL ROOT SYSTEMS; AND BE TYPICAL FOR SPECIES. PLANTS DEEMED UNACCEPTABLE PER THE WETLAND PLANTS SECTION OF THE FLORIDA GRADES AND STANDARDS MANUAL SHOULD BE REJECTED FOR USE IN THE PROJECT.

**PLANTS - SALTWATER ACCLIMATIZATION:** ALL MANGROVES DELIVERED TO THE PROJECT WILL BE SALTWATER ACCLIMATED, WITH RECORDS ON THE SALTWATER ACCLIMATION SCHEDULE MAINTAINED BY THE MANGROVE PROVIDER, AND THOSE RECORDS PROVIDED TO THE CITY PRIOR TO DELIVERY. ACCLIMATION TO SALTWATER CONDITIONS IS A REQUIREMENT TO ENSURE A SUCCESSFUL TRANSITION FROM NURSERY TO FIELD. FOR THIS REASON, ALL WETLAND PLANTS USED IN THE PROJECT WILL BE FULLY ACCLIMATED FOR SALINITY PRIOR TO PLANTING. THE TARGET SALINITY WILL BE 35 PPT AND FULL SALINITY ACCLIMATION WILL OCCUR FOR A MINIMUM OF THIRTY (30) DAYS PRIOR TO PLANTING. PLANTS SUBJECTED TO SALTWATER ACCLIMATION INCLUDE BOTH RED AND BLACK MANGROVES.

**PLANTS - DELIVERY AND STORAGE:** CONTRACTOR SHALL PREPARE A DELIVERY SCHEDULE FOR REVIEW AND APPROVAL BY THE CITY TO ARRANGE FOR DELIVERY OF WETLAND PLANTS TO THE JOB SITE ONLY AFTER SITE PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND SALTWATER ACCLIMATIZATION HAS BEEN VERIFIED AND APPROVED BY THE CITY. PLANTS WILL NOT BE DELIVERED TO THE PROJECT SITE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY. ALL PLANTS USED IN THE PROJECT SHALL BE INSTALLED NO LONGER THAN 24 HOURS AFTER DELIVERY TO SITE. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, TREES AND SHRUBS SHALL BE PLACED IN SHADE, PROTECTED FROM WEATHER AND MECHANICAL DAMAGE, AND THE ROOTS KEPT MOIST BY COVERING WITH MULCH, BURLAP, OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE. RECEIPTS OF ALL DELIVERED PLANT MATERIAL IS TO BE PROVIDED TO THE CITY AT THE TIME OF DELIVERY TO THE PROJECT SITE. RECEIPTS TO INCLUDE THE SOURCE, SPECIES NAME AND QUANTITY RECEIVED FOR INSTALLATION. IF THE CITY REJECTS ANY PLANT MATERIAL AT THEIR DISCRETION AS NOT ACCEPTABLE, THESE PLANTS MUST BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY AT THE CONTRACTOR'S EXPENSE.

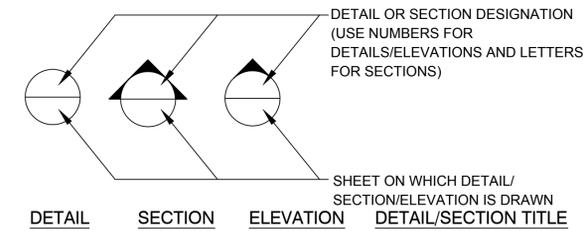
**PLANTS - PLANTING MAINTENANCE AND WARRANTY:** ALL PLANTING WILL BE CONDUCTED BY A LICENSED LANDSCAPE PROFESSIONAL WITH DEMONSTRATED EXPERIENCE SUCCESSFULLY COMPLETING WETLAND AND MANGROVE MITIGATION PROJECTS. CONTRACTOR WILL PROVIDE THE NAME OF THE LANDSCAPE PROFESSIONAL THAT WILL BE COMPLETING THE MANGROVE PLANTING ALONG WITH A MINIMUM OF THREE PROJECT EXAMPLES DEMONSTRATING PROFICIENCY IN WETLAND AND MANGROVE MITIGATION. SELECTION OF LANDSCAPE PROFESSIONAL IS SUBJECT TO CITY APPROVAL BASED ON DEMONSTRATED SUCCESS IN COMPLETING WETLAND AND MANGROVE MITIGATION PROJECTS. PLANTS WILL BE INSTALLED CORRECTLY AS DIRECTED BY THE CITY AND PLANT SURVIVAL WILL BE A MINIMUM OF 90% AT THE END OF THE ONE YEAR WARRANTY PERIOD. ANY DEAD OR OBVIOUSLY DYING MANGROVES WILL BE REPLACED AT 90 DAY INTERVALS FOLLOWING PLANTING, AND THE WARRANTY PERIOD WILL BE EXTENDED TO ACCOMMODATE STAGGERED PLANTING DATES. FINAL ACCEPTANCE OF PLANTED MANGROVES WILL OCCUR AT ONE YEAR FOLLOWING CESSATION OF PLANTING AND WILL BE IN WRITING BY THE CITY TO THE CONTRACTOR. CONTRACTOR SHALL WARRANTY ALL MITIGATION PLANT MATERIALS TO HAVE ACCEPTABLE APPEARANCE, TO BE ALIVE AND HEALTHY, AND TO HAVE EXHIBITED NORMAL GROWTH FOR A PERIOD OF THREE HUNDRED SIXTY FIVE (365) DAYS AFTER FINAL ACCEPTANCE. EXCLUSIONS INCLUDE DEFECTS RESULTING FROM, ABUSE OR DAMAGE BY OTHERS OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTOR'S CONTROL.

**PLANTING MIX:** THE PLANTING MIX SHALL BE A PREPARED FINE MATERIAL SUITABLE FOR PLANT BEDDING, AND WILL BE MATERIAL CONSISTING OF 50% NATIVE LIMEROCK MIXED WITH 50% PERCENT OF ORGANIC BLACK DIRT. THE NATIVE LIMEROCK OR ORGANIC BLACK DIRT WILL NOT INCLUDE ANY RECYCLED MATERIALS OR MATERIALS THAT HAVE BEEN SOURCED FROM ANY PREVIOUS EXCAVATIONS. THE ORGANIC BLACK DIRT SHALL BE IMPORTED FROM AREAS SIMILAR TO THE PROJECT SITE OR MAY BE RECOVERED FROM EXCAVATIONS OF PREVIOUS MANGROVE AREAS WITHIN THE PROJECT LIMITS. THE MIXING OPERATION SHALL BE COMPLETED USING A SCREENER AND WILL RESULT IN A UNIFORM MATERIAL WHERE ORGANIC BLACK DIRT IS DISTRIBUTED EVENLY THROUGHOUT THE NATIVE LIMEROCK TO CREATE A UNIFORM PLANTING MIX MATERIAL. THE PLANTING MIX SHALL BE SCREENED TO A PARTICLE SIZE NO GREATER THAN 1/4 INCH AND BE FREE OF WOOD, SCRAP MATERIAL, VEGETATION, REFUSE, DELETERIOUS, OR OBJECTIONABLE MATERIALS. CONTRACTOR WILL PROVIDE THE SOURCE OF MATERIALS FOR THE NATIVE LIMEROCK AND ORGANIC BLACK DIRT, A MINIMUM OF TWO WEEKS PRIOR TO DELIVERY TO THE SITE. WRITTEN APPROVAL BY THE CITY OF KEY WEST IS NECESSARY PRIOR TO DELIVERY OF PLANTING MIX MATERIAL.

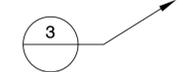
**LEGEND**

**GENERAL**

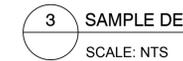
- RIGHT-OF-WAY AND/ OR PROPERTY LINE
- TL 1500 TAX LOT NUMBER
- ▲ CONTRACTOR'S SURVEY REFERENCE
- ⑤ KEY NOTE MARKER
- ⑨ (ON SITE PLAN) # OF PARKING SPACES



DETAIL REFERENCE BUBBLE



DETAIL TITLE BUBBLE SINGLE REFERENCE



SAMPLE DETAIL SCALE: NTS

**BUBBLE SYMBOLS**

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

KEY WEST OFFICE  
1010 FLAGLER AVENUE, SUITE 201  
KEY WEST, FLORIDA 33040  
TEL: 305.854.1111 FAX: 305.854.1112

PEREZ ENGINEERING & DEVELOPMENT, INC.

ALLEN E. PEREZ, P.E.  
Florida P.E. NO. 51468  
June 6, 2017

ORIGINAL: JUNE 2017

REVISIONS:

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MISSILE SITE RESTORATION

CITY OF KEY WEST  
3132 FLAGLER AVENUE  
KEY WEST, FL 33040

GENERAL NOTES

JOB NO. 161010  
DRAWN BGO  
DESIGNED AEP  
CHECKED AEP  
QC  
SHEET



HAWK MISSILE SITE RESTORATION  
5/17/2018

NAME	COMPANY	PHONE NUMBER	EMAIL ADDRESS
ELIZABETH IGNOFFO	CKW	305 809 3966	eignoffo@cityofkeywest-fl.gov
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DERICK LAZZARA	Key Star	305-783-6789	dlazzara@keystarconstruction.com
Jimmy Carogue	EarthBalance	941-426-7878	JLarogy@EarthBalance.com
Phil Frank	Terramar	305-393-4200	terramar@earthbalance.com
Louis Perez	Blue Native		
BEAN WILLIAMS	Aquatech Eco Consultants	813-918-6169	bean@aquatecheco.com
John P. Castro	CoKW	305-896-4744	JCastro@cityofkeywest-fl.gov