

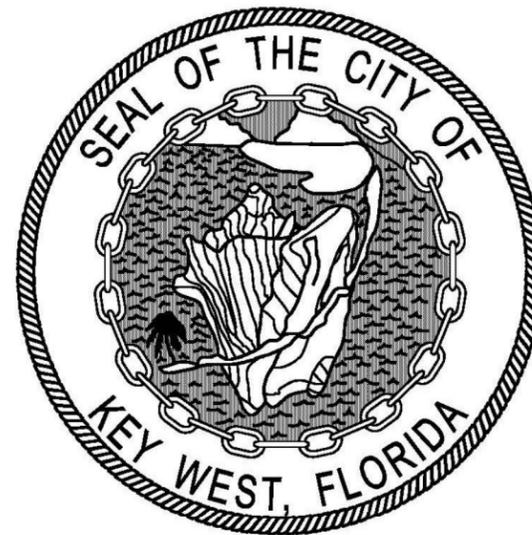
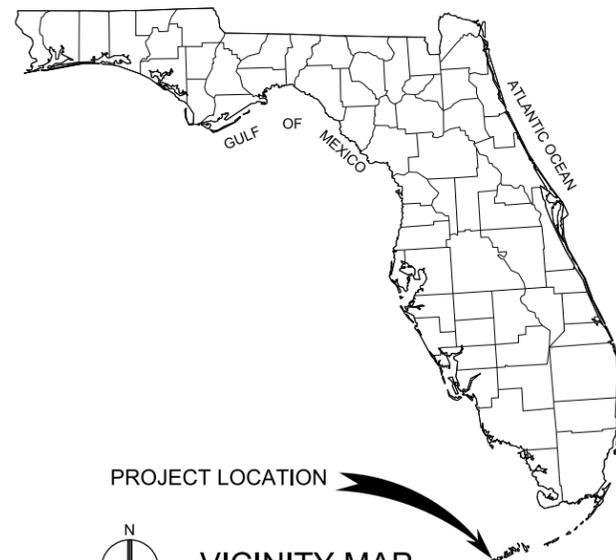
# BID DOCUMENTS

## FOR THE CONSTRUCTION OF THE

# PUMP STATION F IMPROVEMENTS

PREPARED FOR

# CITY OF KEY WEST



VOLUME 2 OF 2  
DRAWINGS

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# BID DOCUMENTS

For information regarding  
this project, contact:

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## CH2MHILL

CH2M Hill Project No. 406518  
City of Key West Project No SE 1101  
City of Key West ITB No 14-015

AUGUST 2014

## GENERAL SITE NOTES:

- SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE BASE MAPS PROVIDED BY AVIROM & ASSOCIATES, INC, DATED 7/09/2010. ADDITIONAL MAPPING HAS BEEN ADDED FROM AS-BUILT DATA AND SUPPLEMENT SURVEY FROM CH2M HILL, THE FLORIDA KEYS AQUEDUCT AUTHORITY, AND THE CITY OF KEY WEST. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- HORIZONTAL DATUM: NORTH AMERICAN DATUM, 1983 (NAD 83), FLORIDA STATE PLANE COORDINATE SYSTEM.
- VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM, 1929 (NGVD 29).
- ALL UNITS ARE IN US SURVEY FEET.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A STAGING AREA. CONTRACTOR TO PROVIDE WRITTEN RELEASE FROM PROPERTY OWNER IF NOT ON SITE.
- AT A MINIMUM, PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- ELEVATIONS GIVEN ARE TO FINISH GRADE AND PIPE INVERT UNLESS OTHERWISE SHOWN.
- ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH NO 57 STONE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED.
- CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.
- LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE RIGHT-OF-WAY EASEMENTS AND ANY OTHER DESIGNATED WORK AREAS AS INDICATED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES AS A RESULT OF CONSTRUCTION ACTIVITIES OUTSIDE OF RIGHT-OF-WAY, EASEMENTS AND ANY OTHER DESIGNATED WORK AREAS SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL COORDINATE ANY CLOSING OF DRIVEWAYS WITH THE PROPERTY OWNERS.
- CONTRACTOR SHALL REPLACE ALL SIDEWALKS, DRIVEWAYS, CURBING, MAILBOXES, PAVEMENTS, PAVEMENT MARKINGS, SIGNS, AND REFLECTIVE MARKERS DISTURBED OR REMOVED DURING CONSTRUCTION.
- TREE AND SHRUB REMOVAL AND/OR TRIMMING MUST BE COMPLETED BY A CITY APPROVED ISA CERTIFIED ARBORIST.

## GENERAL PIPING AND UTILITIES NOTES:

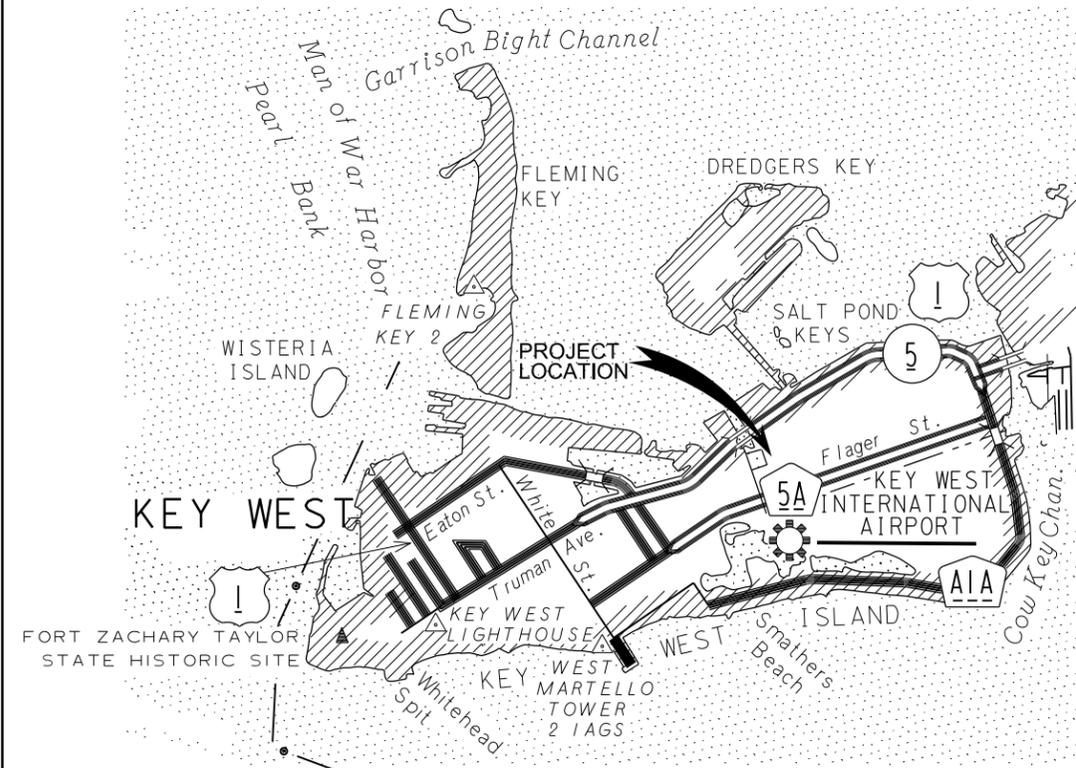
- EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY AND HAS NOT BEEN FIELD VERIFIED FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED, LIGHT-LINED, OR NOTED AS EXISTING. NEW PIPING AND EQUIPMENT ARE SHOWN BOLD AND/OR HEAVY-LINED.
- UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 36" COVER.
- ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
- MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 12".
- PIPELINE STATIONING AND LENGTHS OF PIPE INDICATED ARE BASED ON HORIZONTAL PROJECTION OF THE PIPE CENTERLINE.
- VERIFY THE ACTUAL LOCATION, ELEVATION AND CONDITION OF POINTS OF CONNECTION TO EXISTING FACILITIES AND PROVIDE NOTICE OF ANY DISCREPANCIES.
- SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
- ALL JOINTS SHALL BE WATERTIGHT.
- ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH THRUST RESTRAINT, AS SPECIFIED AT ALL DIRECTIONAL CHANGES AND DEAD ENDS, UNLESS OTHERWISE NOTED.

## LEGEND

	EXISTING WATER METER
	EXISTING TELEPHONE SERVICE BOX
	EXISTING ELECTRIC SERVICE BOX
	EXISTING CATCH BASIN
	EXISTING SIGN
	EXISTING BOLLARD
	EXISTING LIGHT POLE
	EXISTING CONCRETE UTILITY POLE
	EXISTING WOOD UTILITY POLE
	EXISTING DRAINAGE MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING VALVE
	EXISTING OVER HEAD ELECTRIC POWER
	EXISTING STORM SEWER
	EXISTING WATER LINE
	EXISTING SEWER LINE
	EXISTING CHAIN LINK FENCE
	EXISTING WOOD FENCE
	EXISTING RW LINE
	FUTURE STORM SEWER
	FUTURE IMPROVEMENTS
	TRENCHING LIMITS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED PIPE WITH STATIONING

## ABBREVIATIONS

@	AT
CONC	CONCRETE
DI	DUCTILE IRON
DIA	DIAMETER
EA	EAST
ECC	ECCENTRIC
EL	ELEVATION
EX OR EXIST	EXISTING
EW	EACH WAY
FKAA	FLORIDA KEYS AQUEDUCT AUTHORITY
HORIZ	HORIZONTAL
INV	INVERT
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
MIN	MINIMUM
N	NORTH
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PL	PROPERTY LINE
PP	POWER POLE
PVC	POLYVINYLCHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQD	REQUIRED
RJ	RESTRAINED JOINT
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
SPECD	SPECIFIED
SST	STAINLESS STEEL
STA	STATION
TYP	TYPICAL
VERT	VERTICAL
W	WEST
W/	WITH
WT	WEIGHT



## SECTION AND DETAIL IDENTIFICATION

### SECTION AND DETAIL DESIGNATORS

SECTION (LETTER) OR DETAIL (NUMBER) DESIGNATION

DRAWING NUMBER WHERE DETAIL CAN BE FOUND

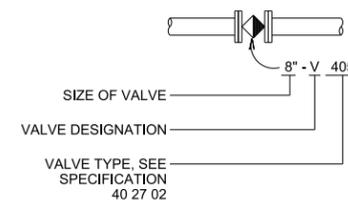
DETAIL DESIGNATED

**A** **DETAIL NAME**  
SCALE: AS DESIGNATED

ON DRAWING WHERE DETAIL IS DRAWN:

## VALVE DESIGNATIONS

### MANUAL VALVES AND CHECK VALVES



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**Sunshine State One Call of Florida, Inc.**

3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 E80000072 AAC001992 Dean W. Garcia PE 57778		PUMP STATION F	CITY OF KEY WEST KEY WEST, FLORIDA
<b>CH2MHILL</b>		GENERAL LEGEND AND ABBREVIATIONS	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.			
DATE	AUGUST 2014		
PROJ	406518		
DWG	G-1		
SHEET	1 of 30		



# GENERAL ARCHITECTURAL NOTES

- UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- "FLOOR LINE" REFERS TO TOP OF CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- WHERE DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3-INCHES FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS, 8" AT CMU WALLS.
- AT SOUND INSULATED WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT; TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND OTHER PENETRATIONS.
- LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE APPROXIMATE. THEY ARE AT THE BUILDING FACE, OR ON THE SECTION END EXCEPT AS NOTED.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
- VERIFY SIZE AND LOCATION OF, AND PROVIDE: REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.
- FOR APPLICABLE CODES AND LIFE SAFETY PLAN, SEE DRAWING A-1.
- FOR DOOR AND HARDWARE DESCRIPTIONS SEE SPECIFICATION SECTION 13 34 23. FOR GLASS BLOCK SEE SPECIFICATION SECTION 04 23 00.
- FOR FINISH SCHEDULE SEE SPECIFICATION SECTION 13 34 23.
- FOR BOLLARD LOCATIONS, SEE CIVIL DRAWINGS.

## APPLICABLE CODES

- 2010 FLORIDA BUILDING CODE
- 2010 FLORIDA PLUMBING CODE
- 2010 FLORIDA MECHANICAL CODE
- 2010 FLORIDA FIRE PREVENTION CODE
- 2010 NEC NATIONAL ELECTRIC CODE

# ARCH/STRUCT MATERIAL SYMBOLS

SYMBOL	LEGEND
	GRATING, SPAN DIRECTION INDICATED
	CHECKERED PLATE
	GROUT
	GRANULAR FILL
	EARTH OR FINISH GRADE
	CONCRETE
	CMU WALL (PLAN)
	CMU WALL (SECTION)
	MASONRY WALL
	METAL STUD WALL (PLAN)
	WOOD STUD WALL (PLAN)
	RIGID INSULATION
	BATT INSULATION
	STEEL
	ALUMINUM
	PLYWOOD
	GYPSUM WALLBOARD
	ACOUSTICAL TILE
	WOOD, ROUGH CONTINUOUS
	WOOD, ROUGH NON-CONTINUOUS
	WOOD, FINISHED

# ARCHITECTURAL/STRUCTURAL LEGEND

SYMBOL	LEGEND
	GRID / COLUMN INDICATOR
	ROOM IDENTIFIER
	DOOR IDENTIFIER
	WINDOW IDENTIFIER
	RELIGHT IDENTIFIER
	LOUVER IDENTIFIER
	WALL TYPE INDICATOR
	SIGNAGE IDENTIFIER
	INTERIOR ELEVATION INDICATOR
	SPOT ELEVATION INDICATOR (IN FEET)
	ELEVATION DATUM (IN FEET)
	DIRECTION OF SLOPE DOWN
	HATCH SWING INDICATOR
	INDICATES PAIR OF DOORS (DOOR # ON ACTIVE)
	FIRE EXTINGUISHER "X" = NUMBER IN SPECIFICATIONS
	CONTROL JOINT
	EXPANSION JOINT X" = DIMENSION
	RAILINGS
	POST
	PRECAST PANEL IDENTIFIER
	SLAB INDICATOR
	COLUMN INDICATOR
	WALL INDICATOR
	BEAM INDICATOR

3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 E80000072 / AAC001992 Beth Trautwein AF 91388		PUMP STATION F	
CITY OF KEY WEST, FLORIDA KEY WEST, FLORIDA		DR	
B. TRAUTWEIN		K.L. DIAZ	
DSGN		CHK	
T. DODGE		APVD	
B. TRAUTWEIN		B. TRAUTWEIN	

1" = X'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	AUGUST 2014
PROJ	406518
DWG	G-4
SHEET	3 OF 30

SYMBOL	DESCRIPTION
<b>ONE LINE DIAGRAMS-1</b>	
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP RATING SHOWN, 3 POLE, UNO
	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO
	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO
	FUSE, CURRENT RATING AND QUANTITY INDICATED
	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO
	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER AFD = AC ADJUSTABLE FREQUENCY DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE
	CABLE OR BUS CONNECTION POINT
	MECHANICAL INTERLOCK
	SURGE ARRESTER (GAP TYPE)
	CAPACITOR - KVAR INDICATED, 3 PHASE
	MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED
	GENERATOR, KW/KVA RATING SHOWN
	DELTA CONNECTION
	WYE GROUNDED CONNECTION, SOLID GROUND
	DIGITAL POWER METER (MULTIFUNCTION)
	UTILITY REVENUE METER
	GROUND
	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED
	SHIELDED ISOLATION TRANSFORMER
	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED
	CURRENT TRANSFORMER, RATIO (100:5) AND QUANTITY INDICATED (3)
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS, RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION
	SURGE SUPPRESSION DEVICE

SYMBOL	DESCRIPTION
<b>CONTROL DIAGRAMS-1</b>	
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED
	PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK
	3 POSITION SELECTOR SWITCH MAINTAINED CONTACT
	SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY:
	TOGGLE SWITCH, ON-OFF TYPE
	SELECTOR SWITCH, ON-OFF TYPE
	MUSHROOM HEAD SWITCH
	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR
	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN S - STROBE B - BLUE R - RED C - CLEAR W - WHITE
	ELAPSED TIME METER
	MOTOR STARTER CONTACTOR COIL
	CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT
	TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT
	SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT
	CONTACT - NORMALLY OPEN
	CONTACT - NORMALLY CLOSED
	REMOTE DEVICE
	TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSSES WHEN ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, CLOSSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT
	TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSSES WHEN DE-ENERGIZED AND TIMED OUT
	MOTOR SPACE HEATER
	TERMINAL BLOCK, REMOTE
	TERMINAL BLOCK, INTERNAL
	FUSED TERMINAL BLOCK
	FUSE, RATING INDICATED
	TRANSFORMER, CONTROL POWER
	THERMOCOUPLE

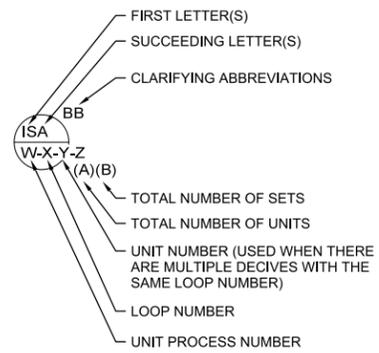
SYMBOL	DESCRIPTION
<b>CONTROL DIAGRAMS-2</b>	
	CAPACITOR
	BATTERY
	LIMIT SWITCH, NORMALLY OPEN, CLOSSES AT END OF TRAVEL
	LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL
	TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE
	TEMPERATURE SWITCH, CLOSSES ON TEMPERATURE RISE
	FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON DESCENDING LEVEL
	FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON RISING LEVEL
	PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE
	PRESSURE SWITCH, NORMALLY OPEN, CLOSSES ON RISING PRESSURE
	FLOW SWITCH, CLOSSES ON INCREASED FLOW
	FLOW SWITCH, OPENS ON INCREASED FLOW
<b>GROUND SYSTEM PLAN</b>	
	GROUND ROD
	GROUND ROD IN TEST WELL
	GROUNDING CONDUCTOR, SIZE AS INDICATED
	CABLE TO CABLE TEE
	CABLE TO CABLE CROSS
	PLATE ADAPTER
	CABLE TO REINFORCING STEEL
	GROUND ROD TO CABLE
	FLEXIBLE GROUND STRAP
	CABLE TO PIPE (BOLTED CONNECTION)
	CABLE TO FLAT
	CABLE TO STEEL/ALUMINUM SURFACE
	CABLE TO TOP OF GROUND ROD
	PARALLEL SPLICE
	PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME
	EQUIPMENT GROUND BUS
	EQUIPMENT NEUTRAL BUS
	CABLE TO LUG
NOTES: 1. THESE ARE STANDARD LEGEND SHEETS. SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THE LEGEND AND NOT ON THE DRAWINGS. 2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND STRUCTURAL/ARCHITECTURAL) SEE OTHER LEGENDS.	

SYMBOL	DESCRIPTION
<b>POWER SYSTEM PLAN-1</b>	
	CONNECTION POINT TO EQUIPMENT SPECIFIED, RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION IN THIS DIVISION.
	MOTOR, SQUIRREL CAGE INDUCTION
	GENERATOR, VOLTAGE AND SIZE AS INDICATED.
	HOME RUN - DESTINATION SHOWN
	EXPOSED CONDUIT AND CONDUCTORS
	CONCEALED CONDUIT AND CONDUCTORS
	CROSSHATCHES WITH BAR INDICATE NO. 10 CONDUCTOR, SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
	CONDUIT AND CONDUCTOR CALLOUT, SEE ONE LINE DIAGRAM OR PLANS.
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT, STUBBED AND CAPPED
	CONDUIT TERMINATION AT CABLE TRAY
	EXISTING CONDUIT/ DUCT BANK
	BUS DUCT - SEE SPECIFICATIONS
	CONCRETE ENCASED CONDUIT
	DIRECT BURIED CONDUIT
	FIBER OPTIC CONDUIT
	TRANSFORMER
	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE
	CONTROL STATION, SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED.
	NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED, 3 POLE
	FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED (60/40, 60=SWITCH RATING / 40=FUSE RATING) 3 POLE
	COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED
	CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE WP- WEATHERPROOF C- CLOCK HANGER TL- TWIST LOCK CRE- CORROSION RESISTANT GFI = GROUND FAULT INTERRUPTION
	WALL MOUNTED LUMINAIRE
	EMERGENCY LIGHTING UNIT
	ALARM HORN
	ALARM LIGHT
	WALL SWITCH: 2- DOUBLE POLE 3- THREE WAY 4- FOUR WAY WP- WEATHERPROOF
	CEILING MOUNTED LUMINAIRE - SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT IN PANELBOARD.
	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT IN PANELBOARD.

<b>CH2MHILL</b>		PUMP STATION F		CITY OF KEY WEST KEY WEST, FLORIDA	
3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 E80000072 AAC001992 David C. Nicholson PE 60201		D. NICHOLSON A. CLOUGH PY. KESKAR APVD		D. NICHOLSON CHK DR DSGN	
1" = X'		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	AUGUST 2014	PROJ	406518	DWG	G-6
SHEET	4 of 30				

**INSTRUMENT IDENTIFICATION INSTRUMENTATION, SYSTEMS, AUTOMATION SOCIETY TABLE**

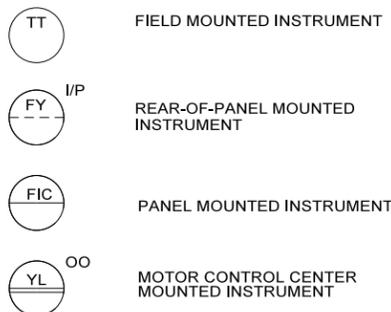
**EXAMPLE SYMBOLS**



**PLC SYMBOL DEFINITIONS**

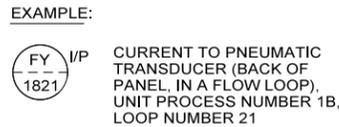
- ▲ ANALOG INPUT
- ▼ ANALOG OUTPUT
- △ DISCRETE INPUT
- ▽ DISCRETE OUTPUT

**GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS**



**TRANSDUCERS**

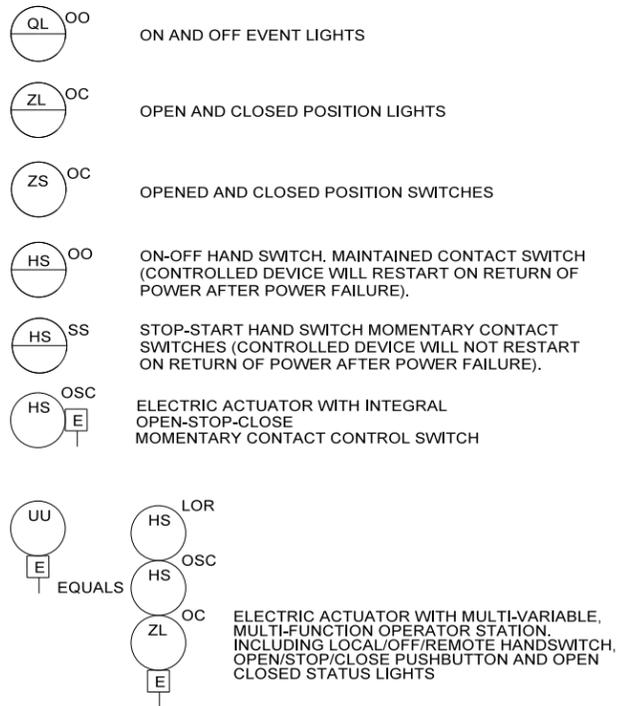
- A = ANALOG      I = CURRENT
- D = DIGITAL      P = PNEUMATIC
- E = VOLTAGE      PF = PULSE FREQUENCY
- F = FREQUENCY      PD = PULSE DURATION
- H = HYDRAULIC      R = RESISTANCE



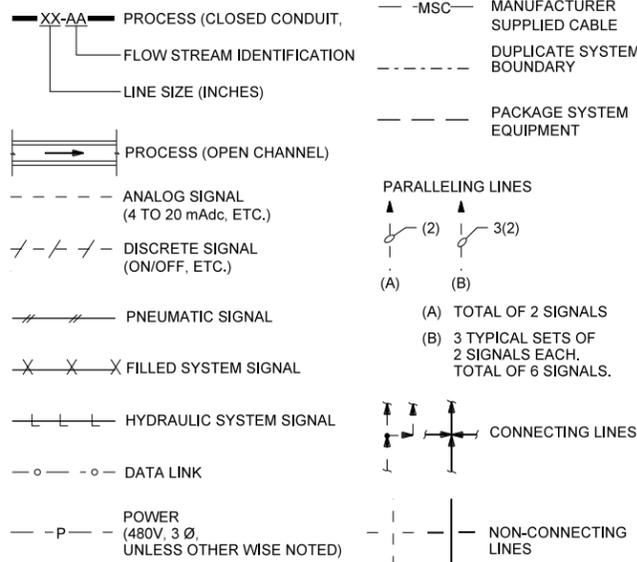
LETTER	FIRST LETTER (S)		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (+)		ALARM		
B	BURNER			CLOSE, STOP OR DEC.	
C	CONDUCTIVITY (ELEC)			CONTROL	
D	DENSITY OR SP. GR.	DIFFERENTIAL		OPEN, START OR INC.	
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			FAIL
G	GATE		GLASS		
H	HAND (MANUAL)				HIGH OR OPENED
I	CURRENT (ELEC)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW OR CLOSED
M	MOTOR MOTION				MIDDLE OR INTERMEDIATE
N	USERS CHOICE		USERS CHOICE	USERS CHOICE	ON OR OPERATE
O			ORIFICE (RESTRICTION)		OVERLOAD
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY OR EVENT(+)	INTEGRATE			
R	RADIATION		RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (+)		MULTIFUNCTION (+)	MULTIFUNCTION (+)	MULTIFUNCTION (+)
V	VALVE, DAMPER OR LOUVER			VALVE, DAMPER OR LOUVER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED (+)		UNCLASSIFIED (+)	UNCLASSIFIED (+)	UNCLASSIFIED (+)
Y	ON STATUS			RELAY OR COMPUTE	
Z	POSITION			DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(\*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

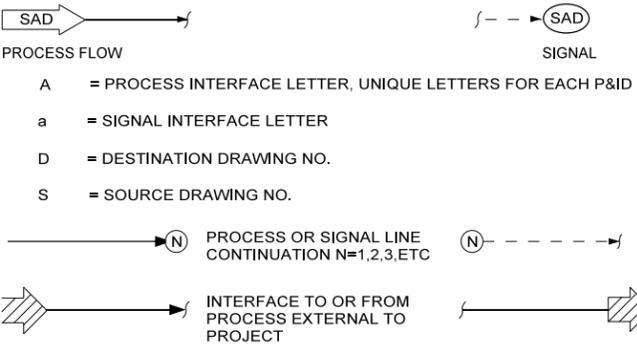
**SPECIAL CASES**



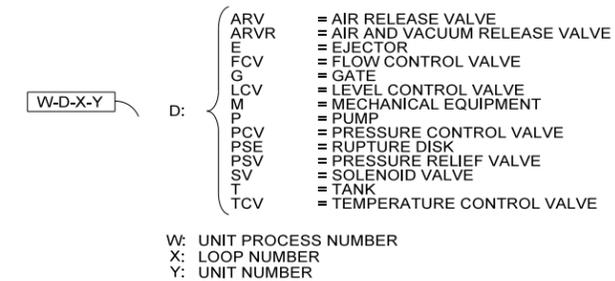
**LINE LEGEND**



**INTERFACE SYMBOLS**



**SELF CONTAINED VALVE & EQUIPMENT TAG NUMBERS**



**ABBREVIATIONS & LETTER SYMBOLS**

- AFD ADJUSTABLE FREQUENCY DRIVE
- ATS AUTOMATIC TRANSFER SWITCH
- C COAXIAL CABLE
- CP CONTROL PANEL
- FA FAIL ALARM
- FP-W-X FIELD PANEL NO. WX (W= UNIT PROCESS NUMBER, X= PANEL NUMBER)
- FOR FORWARD-OFF-REVERSE HANDSWITCH
- HOA HAND-OFF-AUTO HANDSWITCH
- ICS INDICATING CONTROL STATION
- IR IN REMOTE
- LCP LOCAL CONTROL PANEL
- LOR LOCAL-OFF-REMOTE HANDSWITCH
- OC OPEN-CLOSE (D)
- OCC OPEN-CLOSE COMMAND
- OCR OPEN-CLOSE-REMOTE
- OO ON-OFF HANDSWITCH
- PLC PROGRAMMABLE LOGIC CONTROLLER
- RK RUN COMMAND
- YS ON STATUS
- ZSOC OPEN & CLOSED LIMIT SWITCHES

**FLOW STREAM IDENTIFICATION**

- RS RAW SEWAGE

**GENERAL NOTES**

1. COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (\*) AND DOUBLE ASTERISK (\*\*) ARE TO BE PROVIDED AS PART OF A PACKAGE SYSTEM.
2. COMPONENTS SHOWN WITH A DIAMOND (◆) ARE PART OF DIV SECTION 40 90 01, PROCESS INSTRUMENTATION AND CONTROLS.
3. THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USED ON THIS PROJECT.

APVD	J. KNIGHT
CHK	PY. KESKAR
DR	A. CLOUGH
DSGN	J. KNIGHT

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PUMP STATION F

CITY OF KEY WEST  
KEY WEST, FLORIDA

**CH2MHILL**

GENERAL INSTRUMENTATION AND CONTROL  
LEGEND 1

1" = X'

VERIFY SCALE

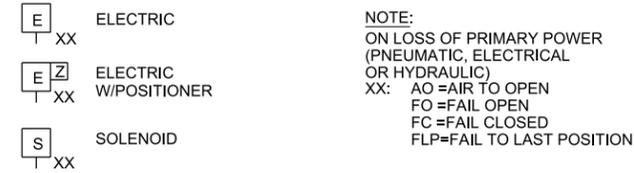
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	AUGUST 2014
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### GATE SYMBOLS



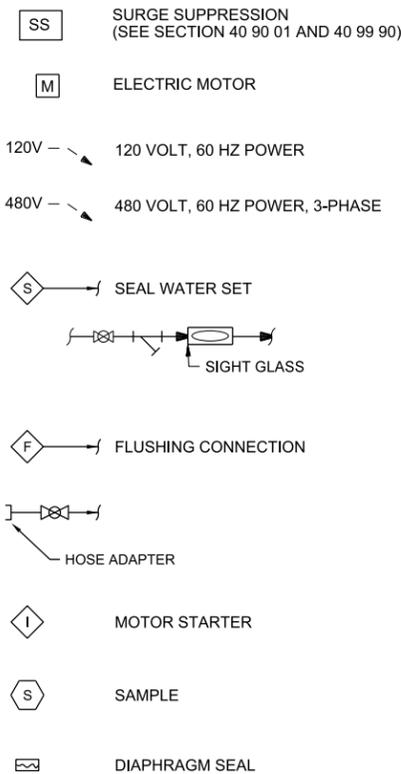
### ACTUATOR SYMBOLS



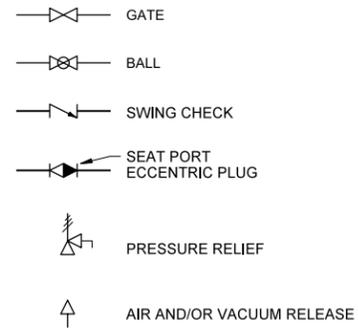
### PRIMARY ELEMENT SYMBOLS



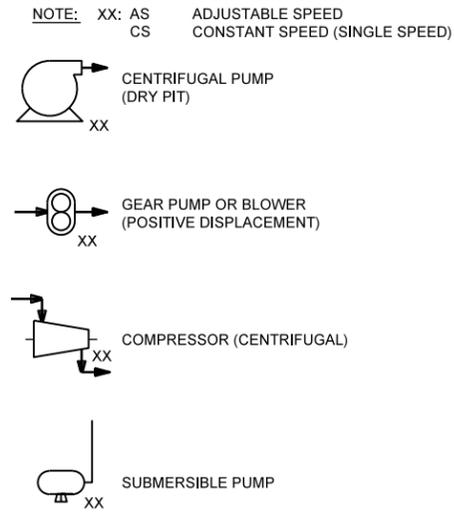
### MISCELLANEOUS SYMBOLS



### VALVE SYMBOLS



### PUMP AND COMPRESSOR SYMBOLS



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GENERAL  
**INSTRUMENTATION AND CONTROL  
LEGEND 2**

PUMP STATION F  
CITY OF KEY WEST  
KEY WEST, FLORIDA

DSGN	J KNIGHT	DR	A CLOUGH	CHK	PY KESKAR	APVD	J KNIGHT
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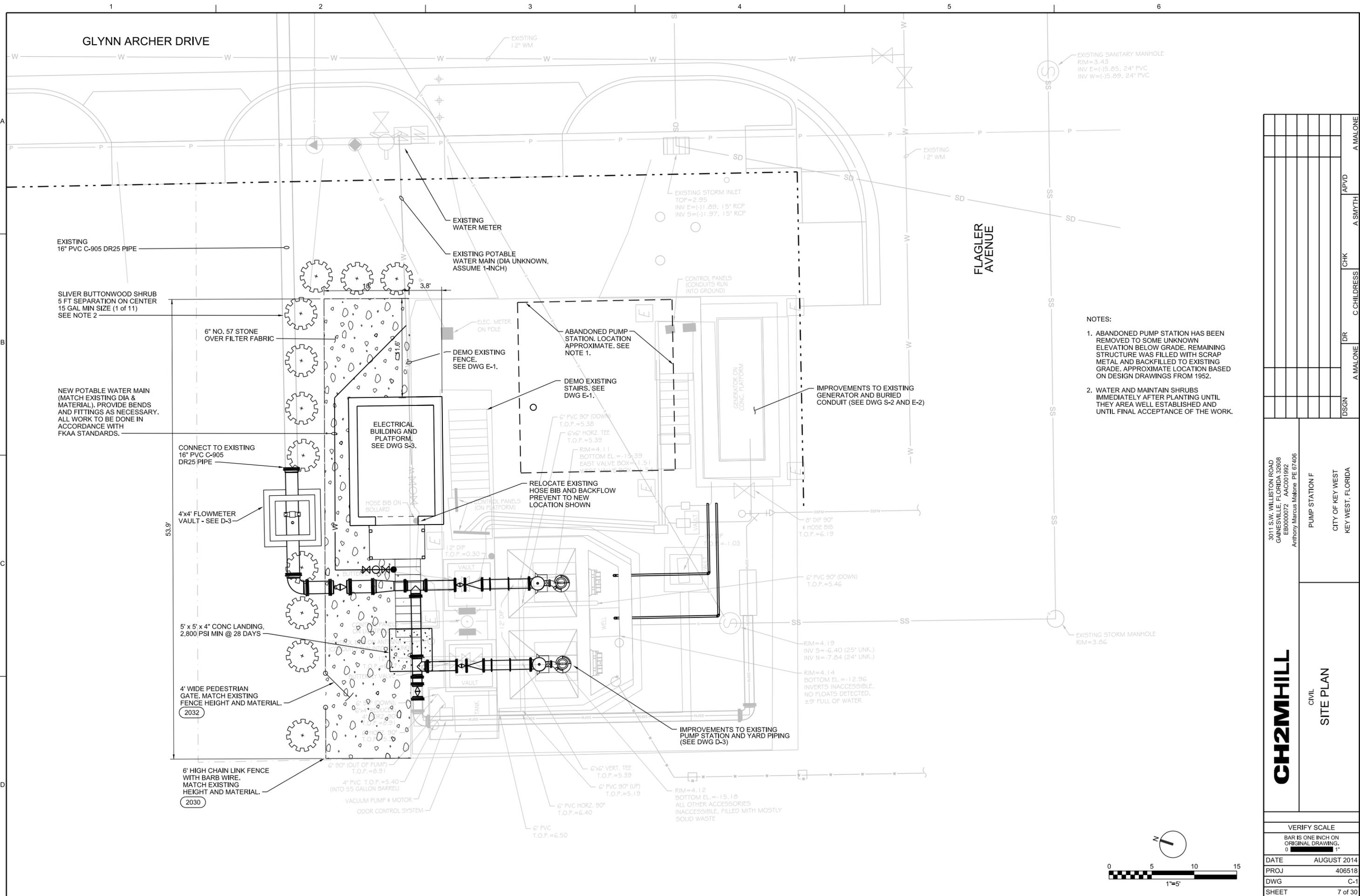
1" = X'

VERIFY SCALE

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DATE	AUGUST 2014
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SHEET	6 of 30

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- NOTES:
1. ABANDONED PUMP STATION HAS BEEN REMOVED TO SOME UNKNOWN ELEVATION BELOW GRADE. REMAINING STRUCTURE WAS FILLED WITH SCRAP METAL AND BACKFILLED TO EXISTING GRADE. APPROXIMATE LOCATION BASED ON DESIGN DRAWINGS FROM 1952.
  2. WATER AND MAINTAIN SHRUBS IMMEDIATELY AFTER PLANTING UNTIL THEY AREA WELL ESTABLISHED AND UNTIL FINAL ACCEPTANCE OF THE WORK.

APVD	A. MALONE
CHK	C. CHILDRRESS
DR	A. MALONE
DSGN	

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 Anthony Marcus Malone PE 67406

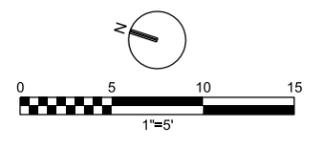
PUMP STATION F  
 CITY OF KEY WEST  
 KEY WEST, FLORIDA

**CH2MHILL**

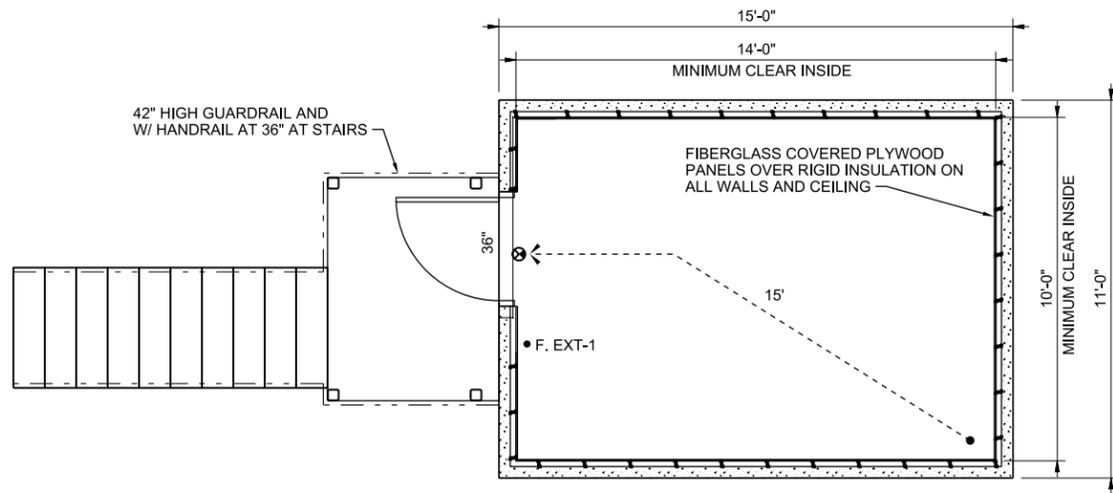
CIVIL  
 SITE PLAN

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 1"

DATE AUGUST 2014  
 PROJ 406518  
 DWG C-1  
 SHEET 7 of 30



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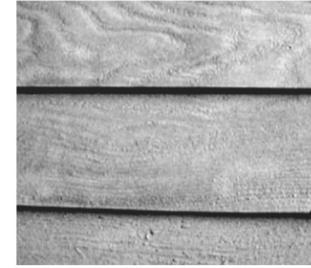


**FLOOR PLAN / LIFE SAFETY PLAN**  
3/8"=1'-0"

**APPLICABLE CODES:**  
FLORIDA BUILDING CODE, 2010 EDITION  
FLORIDA FIRE PREVENTION CODE, 2010 EDITION  
NATIONAL ELECTRIC CODE, CURRENT EDITION

**LEGEND**

- TRAVEL DISTANCE (X = TOTAL DISTANCE TO EXIT IN FEET)
- EGRESS WIDTH (IN INCHES)
- CARBONDIOXIDE FIRE EXTINGUISHER  
UL RATING 10B:C, 15 LBS W/ BRACKET
- COMBINATION LIGHTED EXIT SIGN  
WITH EMERGENCY LIGHTING



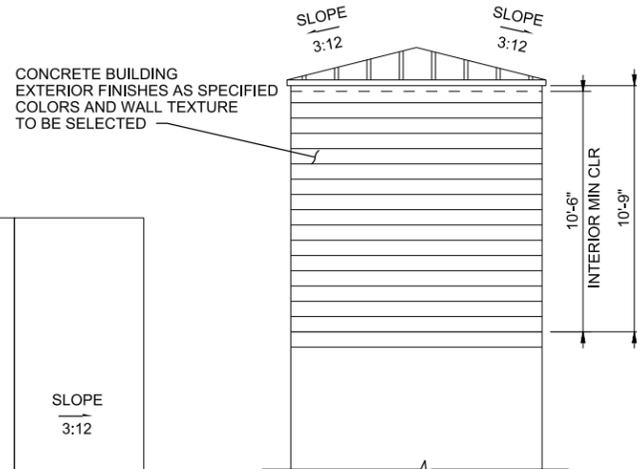
**CONCRETE FORMATION WALL FINISH**  
NTS



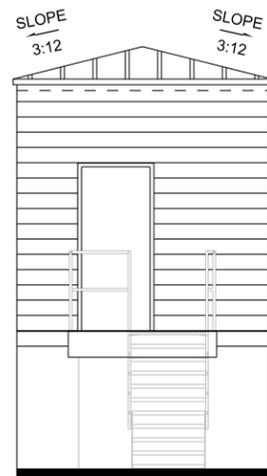
**CONCRETE FORMATION ROOF FINISH**  
NTS



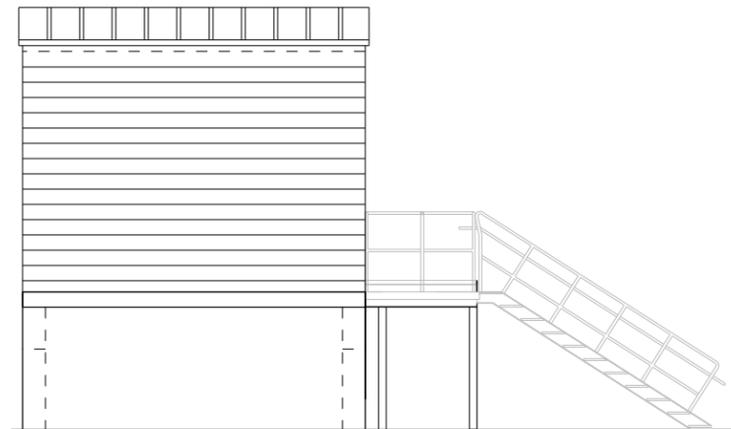
**ROOF PLAN**  
1/4"=1'-0"



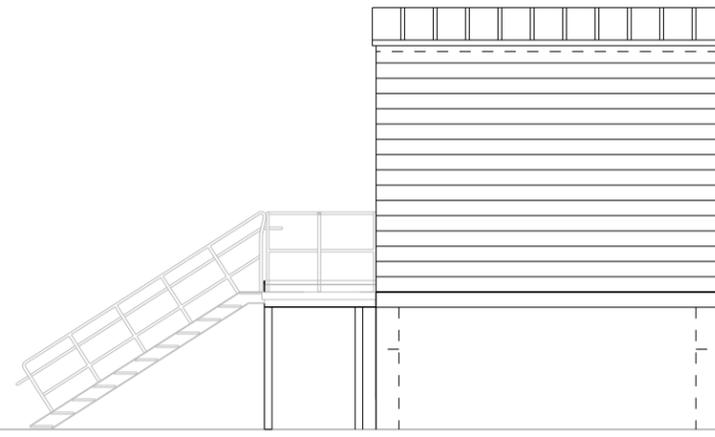
**EAST ELEVATION**  
1/4"=1'-0"



**WEST ELEVATION**  
1/4"=1'-0"



**NORTH ELEVATION**  
1/4"=1'-0"



**SOUTH ELEVATION**  
1/4"=1'-0"

**GENERAL NOTES:**

1. THIS BUILDING IS A PRE-ENGINEERED CONCRETE BUILDING. SEE SPECIFICATION SECTION 13 34 23.
2. ALL DOORS, FRAMES, HARDWARE, LOUVERS AND OTHER APPURTENANCES ARE TO COMPLY WITH THE REQUIREMENTS FOR CLADDING COMPONENTS IN THE HIGH VELOCITY WIND ZONE. SEE SPECIFICATION 13 34 23.
3. FOR FIRE EXTINGUISHER INFORMATION, SEE LEGEND.
4. BUILDING EXTERIOR TEXTURE AND COLORS TO BE SELECTED BY THE ARCHITECT OR OWNER.
5. SEE STRUCTURAL DRAWINGS FOR FOUNDATION PLATFORM.

**CODE DATA** 2010 FLORIDA BUILDING CODE

SEE DRAWING G-5 FOR APPLICABLE CODES.	
<b>BUILDING:</b> ELECTRICAL BUILDING	
<b>GENERAL INFORMATION</b>	
USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3)	F-2 FACTORY INDUSTRIAL MODERATE HAZARD
CONSTRUCTION CLASSIFICATION (CHAPTER 6)	VB
<b>AREA AND HEIGHT LIMITATIONS</b>	
MAXIMUM ALLOWABLE AREA (TABLE 503)	F-1: 8,500 SF 1 STORY
ACTUAL AREA:	187 SF
ACTUAL PER FLOOR:	BASEMENT NA
	FIRST 187 SF
	SECOND NA
MAXIMUM ALLOWABLE STORIES (TABLE 503)	1 STORY
ACTUAL NUMBER OF STORIES	1 STORY
MAXIMUM ALLOWABLE HEIGHT (TABLE 503)	40 FEET
ACTUAL HEIGHT:	14 FEET
<b>OCCUPANCY / EGRESS INFORMATION</b>	
DESIGN OCCUPANCY (TABLE 1004.1.1)	4 PERSONS (FOR MAINTENANCE PURPOSES ONLY)
EGRESS WIDTH BASED ON OCCUPANCY (TABLE 1005.1)	36" MINIMUM
ALLOWABLE DEAD END LENGTH (TABLE 1017.3)	20 FEET
NUMBER OF EXITS	2
ALLOWABLE COMMON PATH OF TRAVEL (1014.3)	75 FEET
MAX TRAVEL DISTANCE ALLOWED (TABLE 1016.1)	200 FEET (F-1)
<b>REQUIRED FIRE RESISTANT RATINGS</b>	
BUILDING ELEMENTS (TABLE 601)	VB
STRUCTURAL FRAME	0 RATING
EXTERIOR BEARING WALLS	0 HOURS
INTERIOR BEARING WALLS	NA
INTERIOR NON-BEARING WALLS	NA
FLOOR CONSTRUCTION	0 RATING
ROOF CONSTRUCTION	0 RATING
SHAFT ENCLOSURE (707.4)	NA
STAIRWAY ENCLOSURE (1020.1)	NA
CORRIDOR (TABLE 1016.1)	NA
NON-SEPARATED OCCUPANCIES (508.3.2)	NA
ACCESSORY OCCUPANCIES (508.3.1)	NA
REQUIRED FIRE RESISTANCE RATINGS OF EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602)	0 HOUR RATING
PROPERTY LINE AND/OR ADJACENT BUILDING IS > THAN 20 FEET. ALL ELEVATIONS	
<b>PLUMBING</b>	
PLUMBING; TOILET FACILITIES AVAILABLE WITHIN 500 FEET.	TOILET FACILITIES AVAILABLE WITHIN 500 FEET.
<b>FIRE PROTECTION</b>	
SPRINKLERS	NOT PROVIDED
FIRE EXTINGUISHERS	PROVIDED
EXIT LIGHTS	PROVIDED

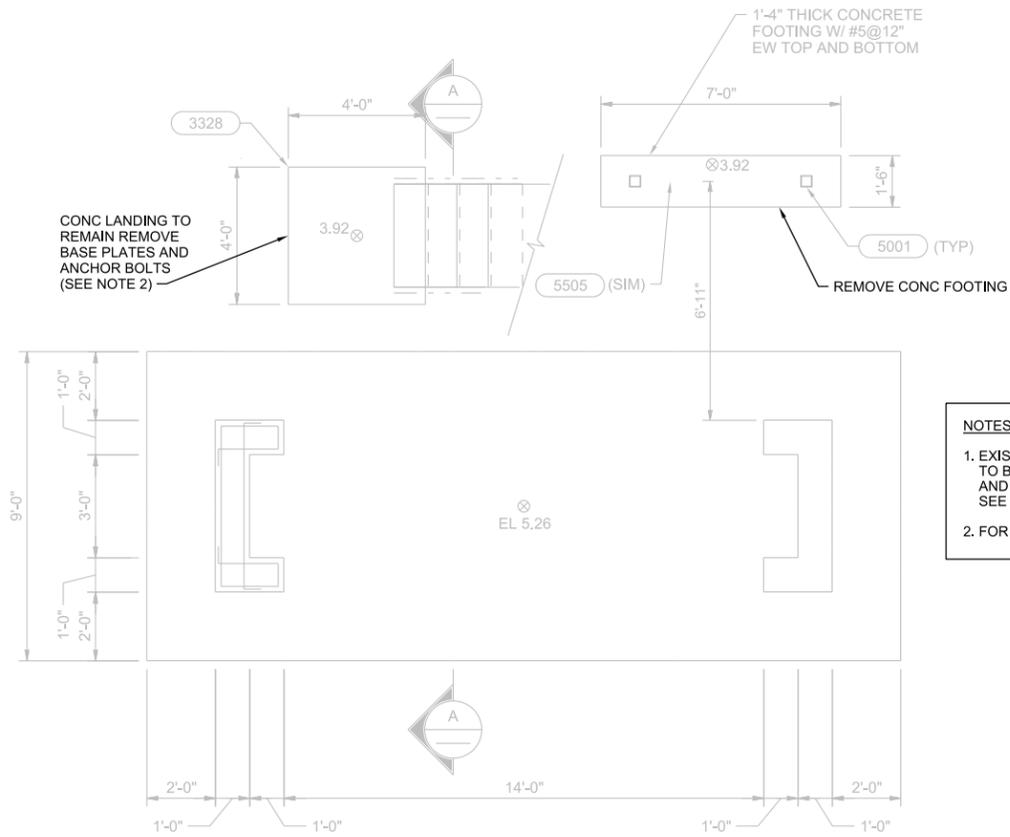
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GAINESVILLE, FLORIDA 32608  
E80000072 AAC001992  
Beth Trautwein AR 91388

ARCHITECTURAL  
**CH2MHILL**

PUMP STATION F  
CITY OF KEY WEST  
KEY WEST, FLORIDA  
**ELECTRICAL BUILDING FLOOR / LIFE SAFETY PLAN ELEVATIONS AND CODE DATA**

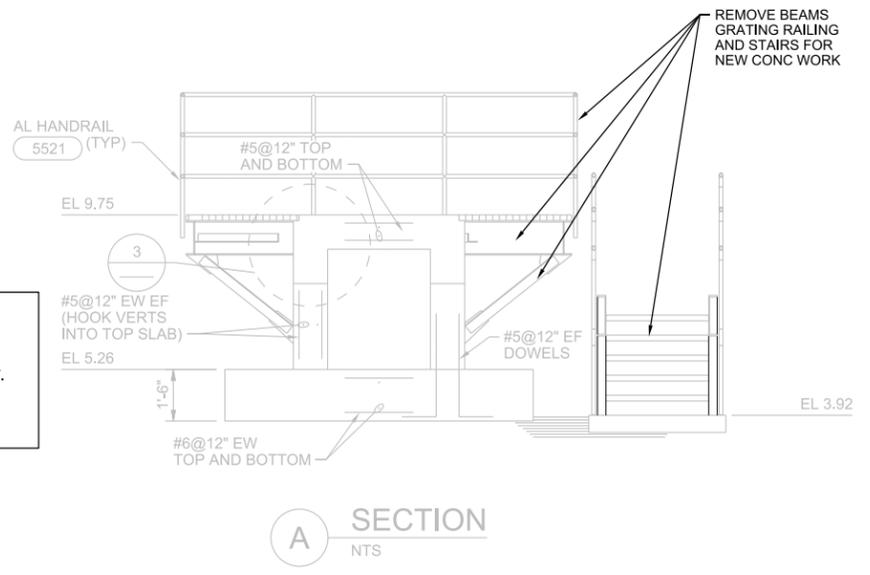
1" = X'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	AUGUST 2014
PROJ	406518
DWG	A-1
SHEET	8 of 30

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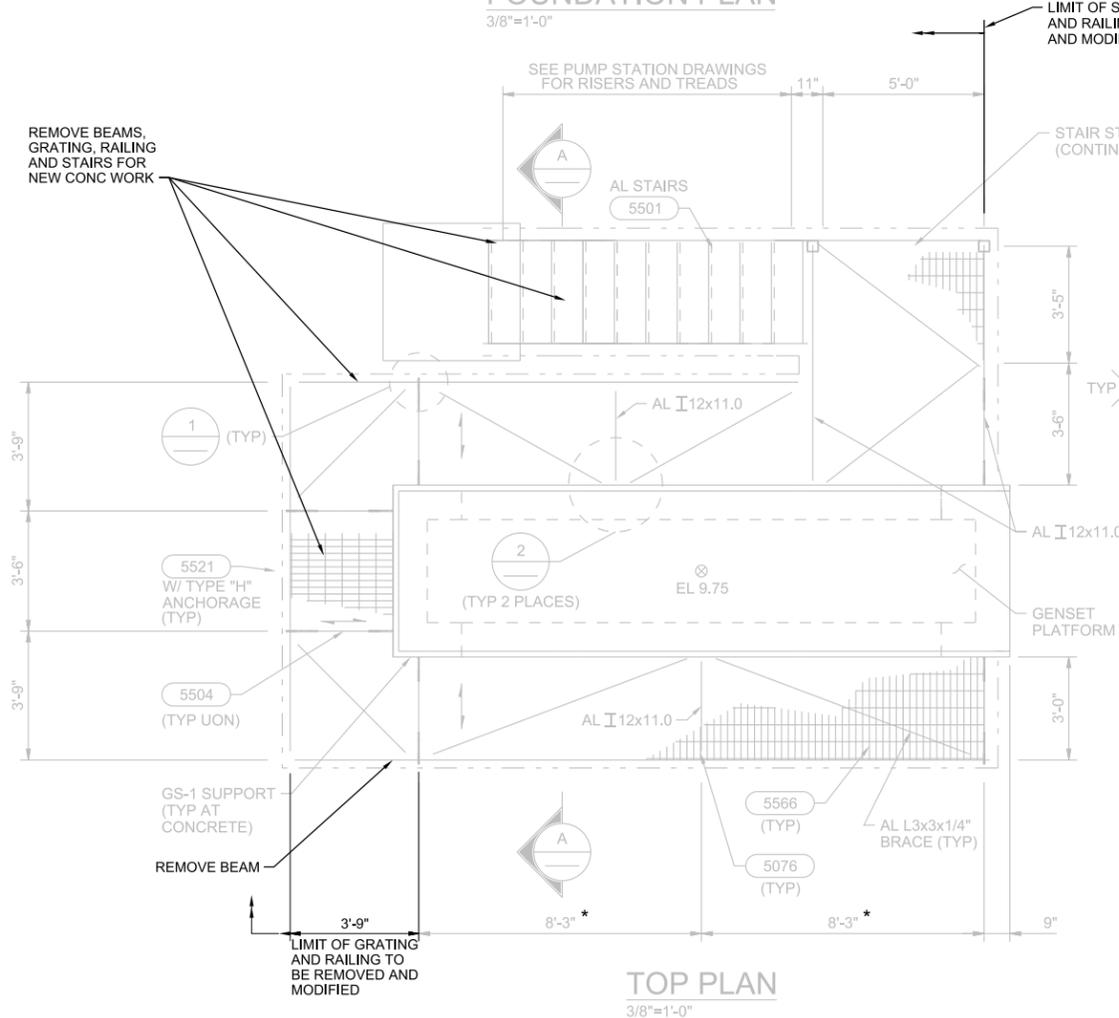
**NOTES:**

- EXISTING ALUMINUM BEAMS, GRATING, RAILING AND STAIRS TO BE DETACHED FOR PLATFORM EXPANSION, REATTACHED AND MODIFIED AS NECESSARY TO ACCOMMODATE NEW LAYOUT. SEE DWG S-2 FOR EXPANSION AND MODIFICATION.
- FOR REMOVAL OF ANCHOR BOLTS SEE DETAIL (3273)

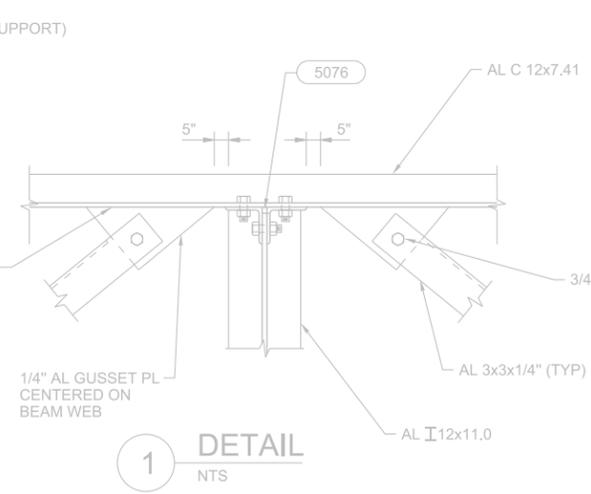


**NOTES:**

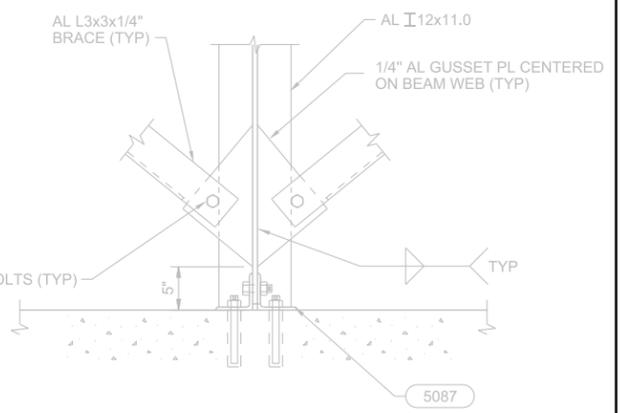
- PLATFORM DESIGNED FOR A GENSET OPERATING WEIGHT OF 11,500 LBS
- GRATING DESIGNED FOR A MAXIMUM LOAD OF 200 PSF



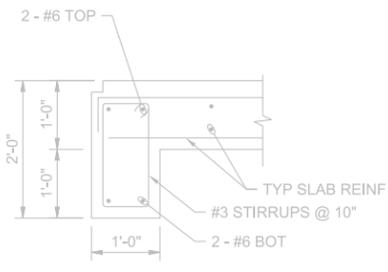
LIMIT OF STAIRS, GRATING AND RAILING TO BE REMOVED AND MODIFIED



**1** DETAIL  
NTS



**2** DETAIL  
NTS



**3** DETAIL  
3/8"=1'-0"

\* GRATING AND SUPPORTS TO REMAIN

DR	D LANGE	DR	P RAYMONT	CHK	M CHRZANOWSKI	APVD	D LANGE
DSGN							

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PUMP STATION F  
CITY OF KEY WEST  
KEY WEST, FLORIDA

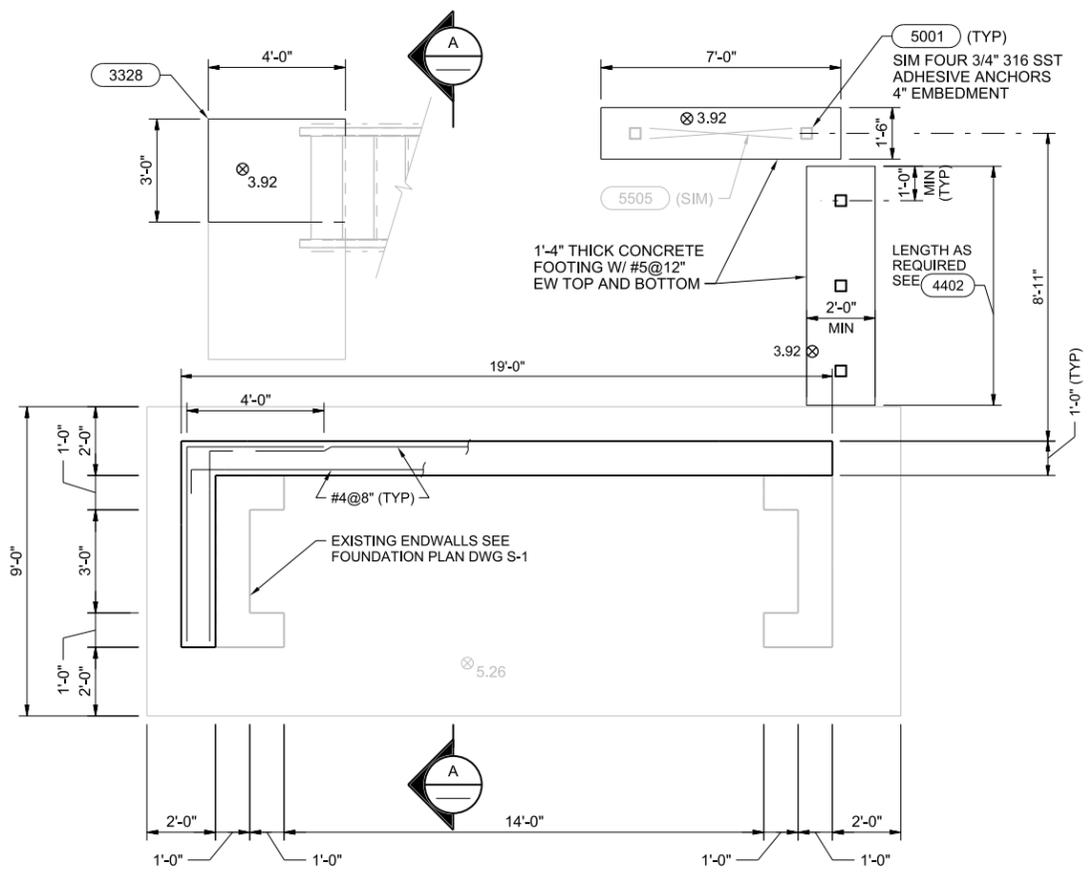
**CH2MHILL**

STRUCTURAL DEMOLITION  
PLATFORM A  
PLANS, SECTION, AND DETAILS

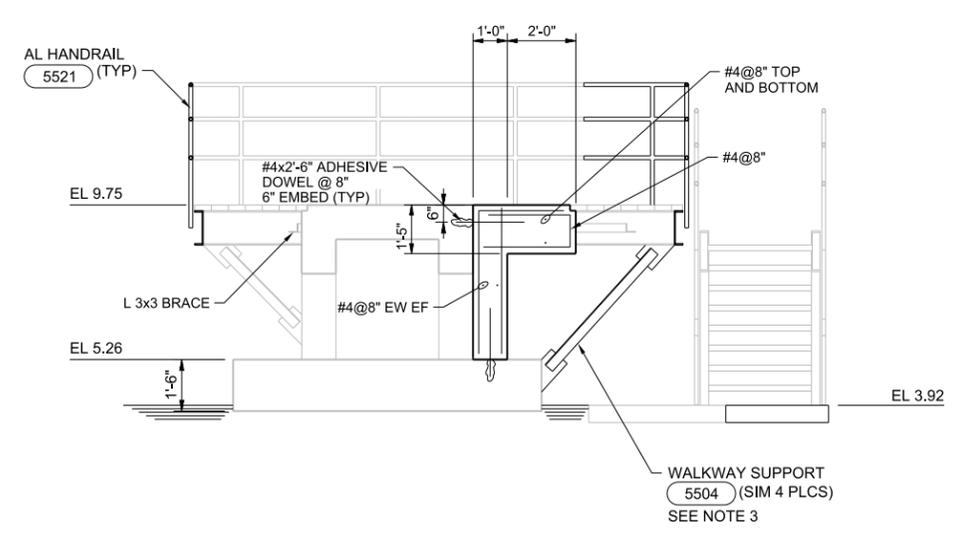
1" = X'  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	AUGUST 2014
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DWG	S-1
SHEET	9 of 30

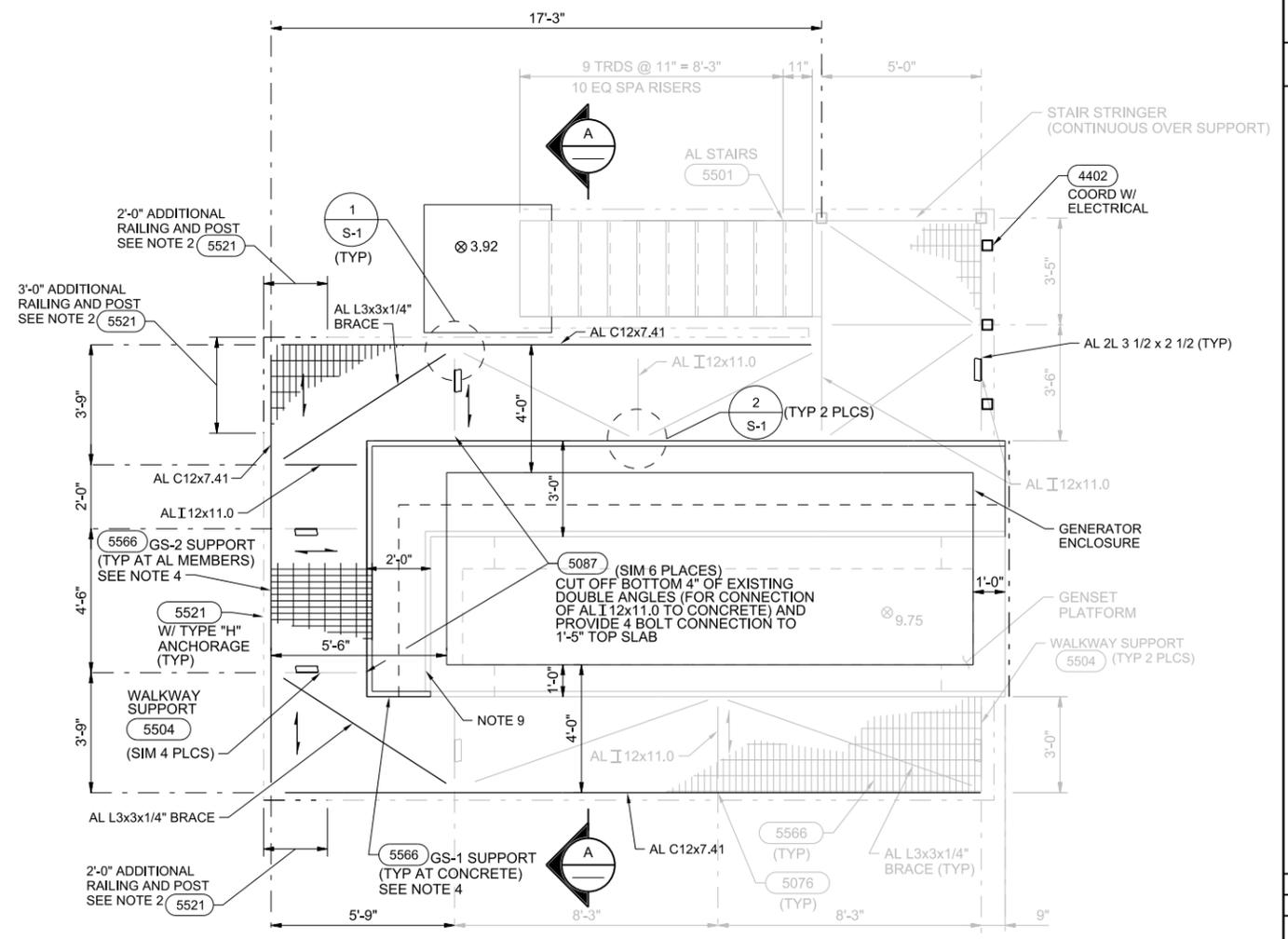
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**FOUNDATION PLAN**  
3/8"=1'-0"



**A SECTION**  
3/8"=1'-0"



**TOP PLAN**  
3/8"=1'-0"

- NOTES:**
- FOR ADDITIONAL INFORMATION SEE DRAWING G-2.
  - SPLICE NEW RAILS TO EXISTING.
  - REUSE EXISTING GRATING AS APPLICABLE. FILL IN GAPS WITH NEW GRATING. NEW GRATING SHALL MATCH EXISTING IN TYPE, MATERIAL, BAR SIZE AND SPACING.
  - CONCRETE PLATFORM IS DESIGNED FOR GENERATOR OPERATING WEIGHT OF 22,000 lbs.
  - CONTRACTOR SHALL NOT DAMAGE EXISTING STRUCTURAL FRAMING AND SHALL STORE/PROTECT EXISTING FRAMING THAT WILL BE REUSED.
  - PLATFORM HAS BEEN DESIGNED FOR A GENERATOR WITH MAXIMUM PLAN DIMENSION OF 198 INCHES BY 72 INCHES. CONTRACTOR SHALL VERIFY SIZE BEFORE CONSTRUCTION AND SHALL NOTIFY ENGINEER OF RECORD IF ALLOWABLE PLAN SIZE HAS BEEN EXCEEDED.
  - ANCHOR GENERATOR TO PLATFORM WITH 1/2" DIAMETER TYPE 316 SST ADHESIVE ANCHORS AT A 2'-0" MAX SPACING ALL AROUND GENERATOR. ANCHOR EMBEDMENT SHALL BE 4 1/2". ADHESIVE SYSTEM SHALL BE HILTI HIT-RE 500-SD. CONTRACTOR SHALL COORDINATE WITH GENERATOR MANUFACTURER FOR LOCATION OF HOLES IN GENERATOR BASE.
  - CONTRACTOR TO PROVIDE A RUB FINISH TO ALL CONCRETE.
  - DEMOLISH EXISTING GRATING SUPPORT ANGLE WHERE EXPOSED TO VIEW. FOR REMOVAL OF ANCHORAGES AND PATCHING, SEE 3273. EDGES/LIMITS OF CONCRETE REMOVAL SHALL BE SAWCUT.

DR	D LANGE	CHK	M CHRZANOWSKI	APVD	D LANGE
DSGN	J THORNTON	CHK	M CHRZANOWSKI	APVD	D LANGE

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PUMP STATION F

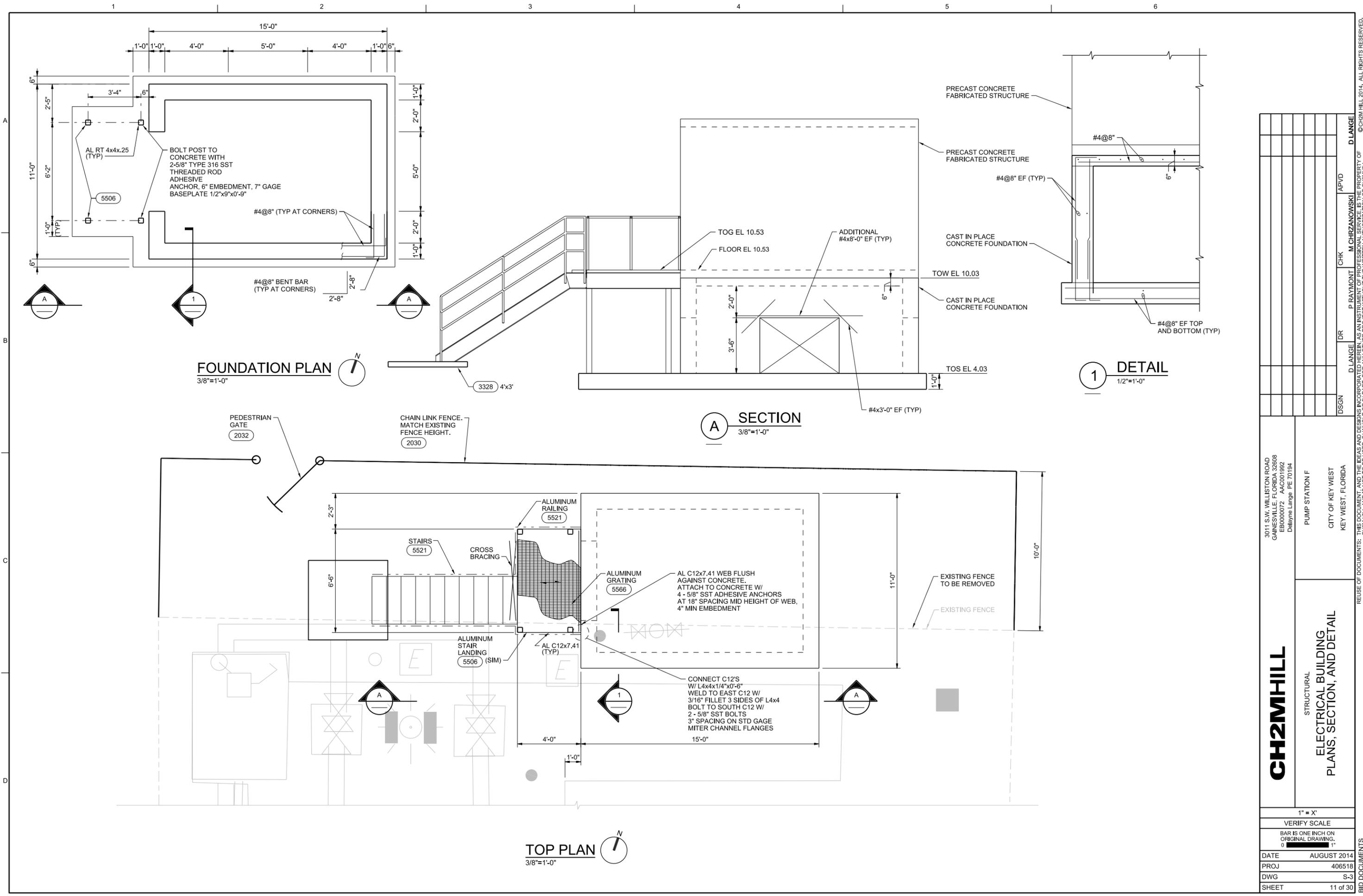
CITY OF KEY WEST  
KEY WEST, FLORIDA

**CH2MHILL**

STRUCTURAL  
**PLATFORM A**  
**PLANS, SECTION, AND DETAILS**

VERIFY SCALE	
DATE	AUGUST 2014
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DWG	S-2
SHEET	10 of 30

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**FOUNDATION PLAN**  
3/8"=1'-0"

**A SECTION**  
3/8"=1'-0"

**1 DETAIL**  
1/2"=1'-0"

**TOP PLAN**  
3/8"=1'-0"

DR	D LANGE	DR	P RAYMONT	CHK	M CHRZANOWSKI	APVD	D LANGE
DSGN							

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Dalyne Lange PE 70194

PUMP STATION F

CITY OF KEY WEST  
KEY WEST, FLORIDA

**CH2MHILL**

STRUCTURAL  
**ELECTRICAL BUILDING  
PLANS, SECTION, AND DETAIL**

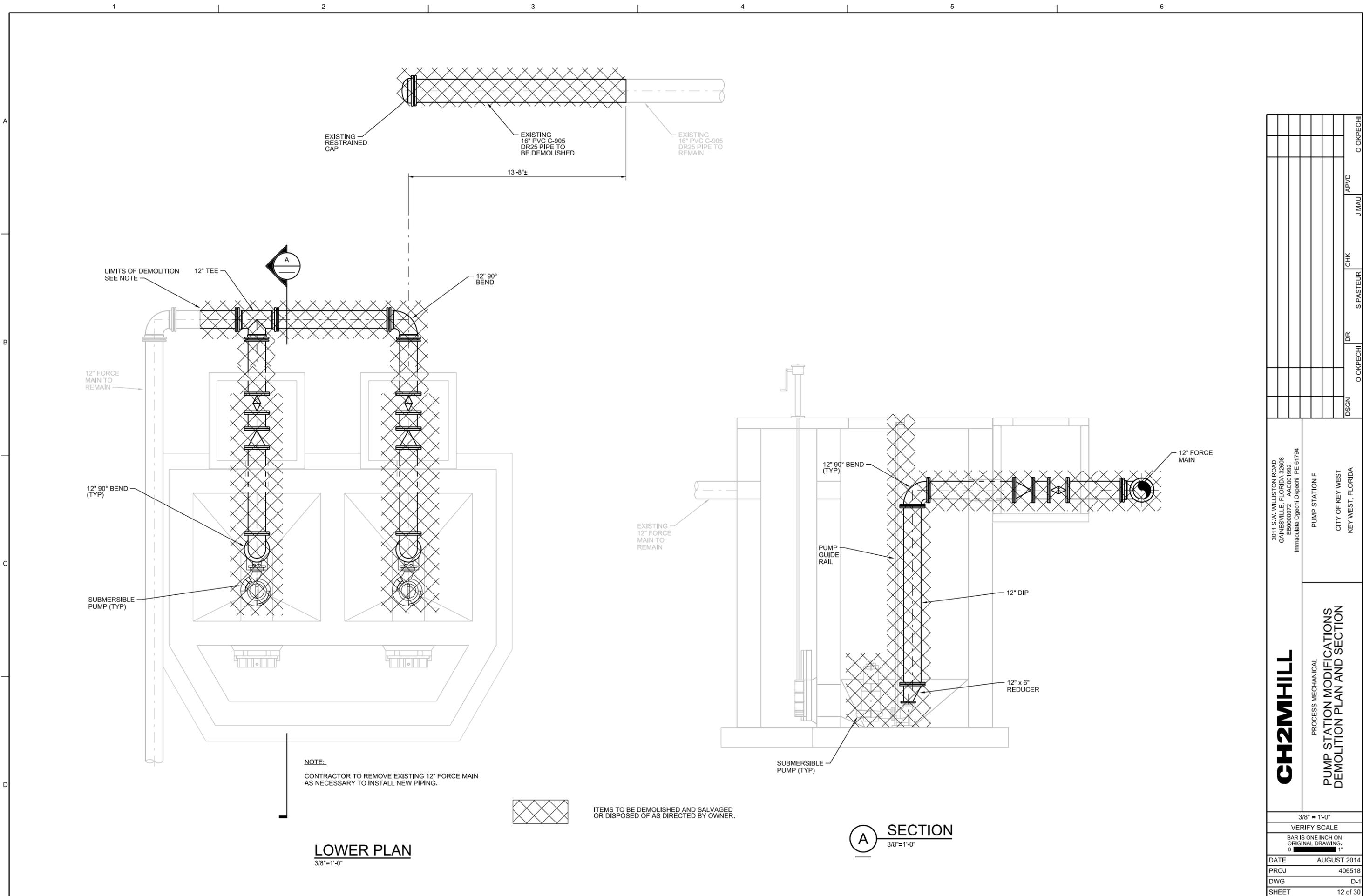
1" = X'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

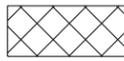
DATE	AUGUST 2014
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DWG	S-3
SHEET	11 of 30

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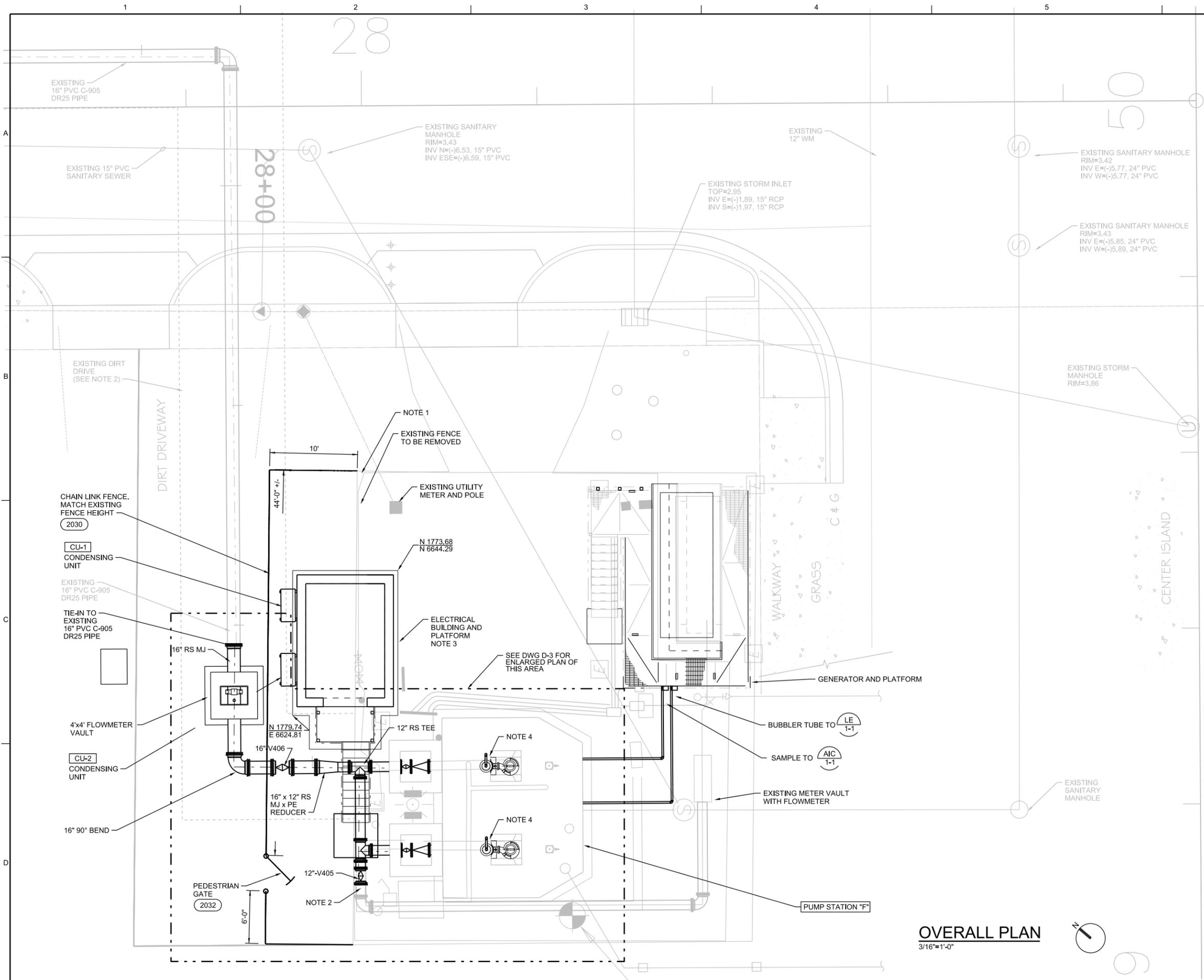
NOTE:  
CONTRACTOR TO REMOVE EXISTING 12" FORCE MAIN  
AS NECESSARY TO INSTALL NEW PIPING.

**LOWER PLAN**  
3/8" = 1'-0"

 ITEMS TO BE DEMOLISHED AND SALVAGED  
OR DISPOSED OF AS DIRECTED BY OWNER.

**A SECTION**  
3/8" = 1'-0"

<b>CH2MHILL</b> <small>PROCESS MECHANICAL</small> <b>PUMP STATION MODIFICATIONS</b> <b>DEMOLITION PLAN AND SECTION</b>		<small>3011 S.W. WILLISTON ROAD          GAINESVILLE, FLORIDA 32608          EB0000072 AAC001992          Immaculata Okech Olapechi PE 61794</small>		<small>APVD</small> J MAU
		<small>DR</small> S PASTEUR	<small>CHK</small> CHK	<small>DGN</small> O OKPECHI
<b>PUMP STATION F</b> CITY OF KEY WEST KEY WEST, FLORIDA		<small>REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2MHILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2MHILL.</small> <small>© CH2MHILL 2014. ALL RIGHTS RESERVED.</small>		
<small>3/8" = 1'-0"</small> VERIFY SCALE <small>BAR IS ONE INCH ON ORIGINAL DRAWING.</small>		<small>DATE</small> AUGUST 2014 <small>PROJ</small> 406518 <small>DWG</small> D-1 <small>SHEET</small> 12 of 30		

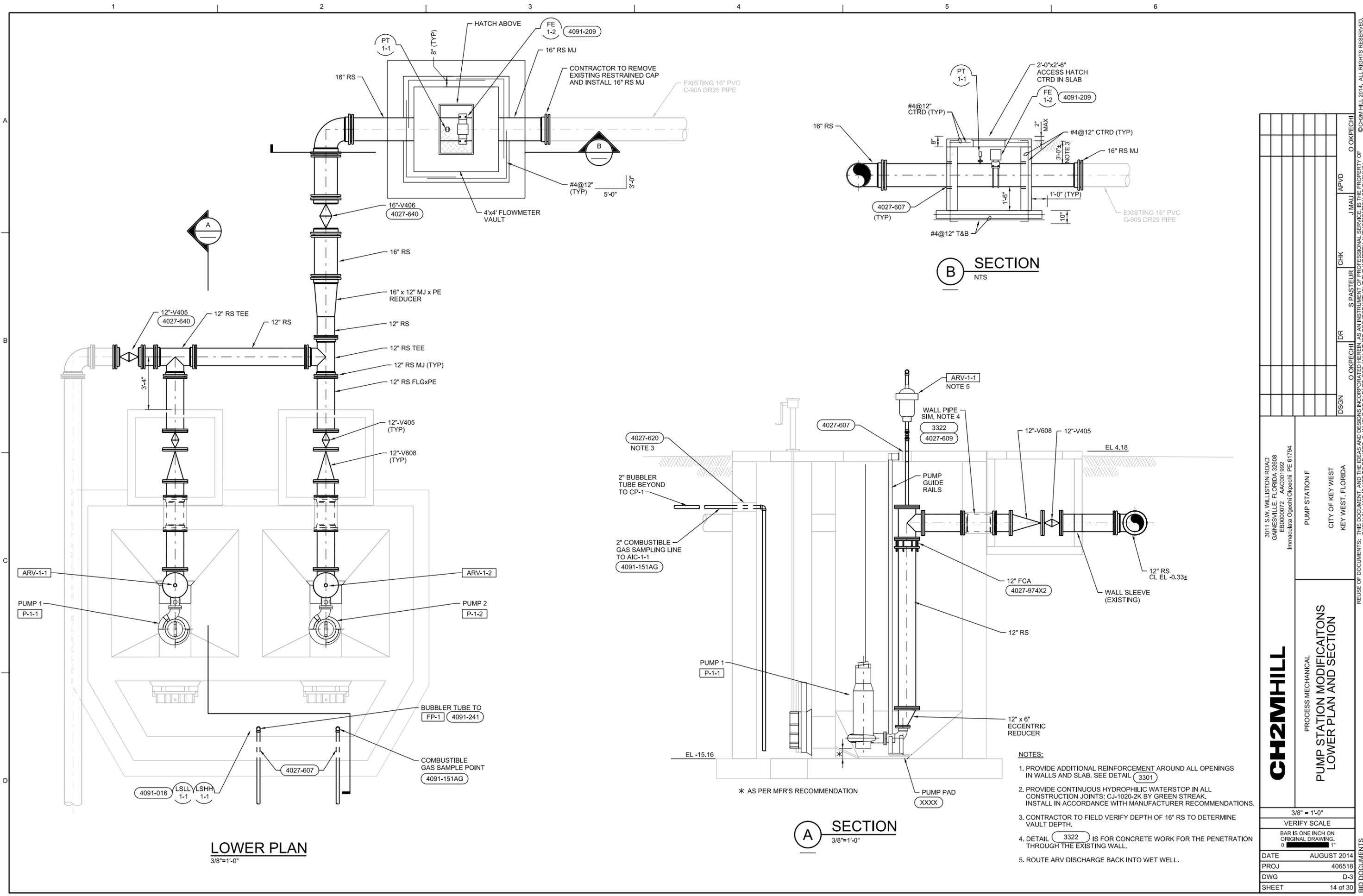


- NOTES:**
- CONNECT NEW FENCE TO EXISTING FENCE AT CORNER POST - 2 LOCATIONS.
  - CONNECT NEW PIPE TO EXISTING PIPE.
  - 100-YR FLOOD PLAIN IS AT EL 7.0 NGVD 1929.
  - ROUTE ARV DISCHARGE BACK INTO WET WELL. CORE DRILL AND INSTALL PER STANDARD DETAIL (4027-620).

**OVERALL PLAN**  
3/16"=1'-0"



<b>CH2MHILL</b> PROCESS MECHANICAL <b>PUMP STATION MODIFICATIONS</b> <b>OVERALL SITE PLAN</b>		PUMP STATION F CITY OF KEY WEST KEY WEST, FLORIDA	
		3/16" = 1'-0" VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.	DATE AUGUST 2014 PROJ 406518 DWG D-2 SHEET 13 of 30
3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 EB0000072 AAC001992 Immaculata Okech Okpechi PE 61794		O OKPECHI S PASTEUR DR	J MAU APVD



**LOWER PLAN**  
3/8"=1'-0"

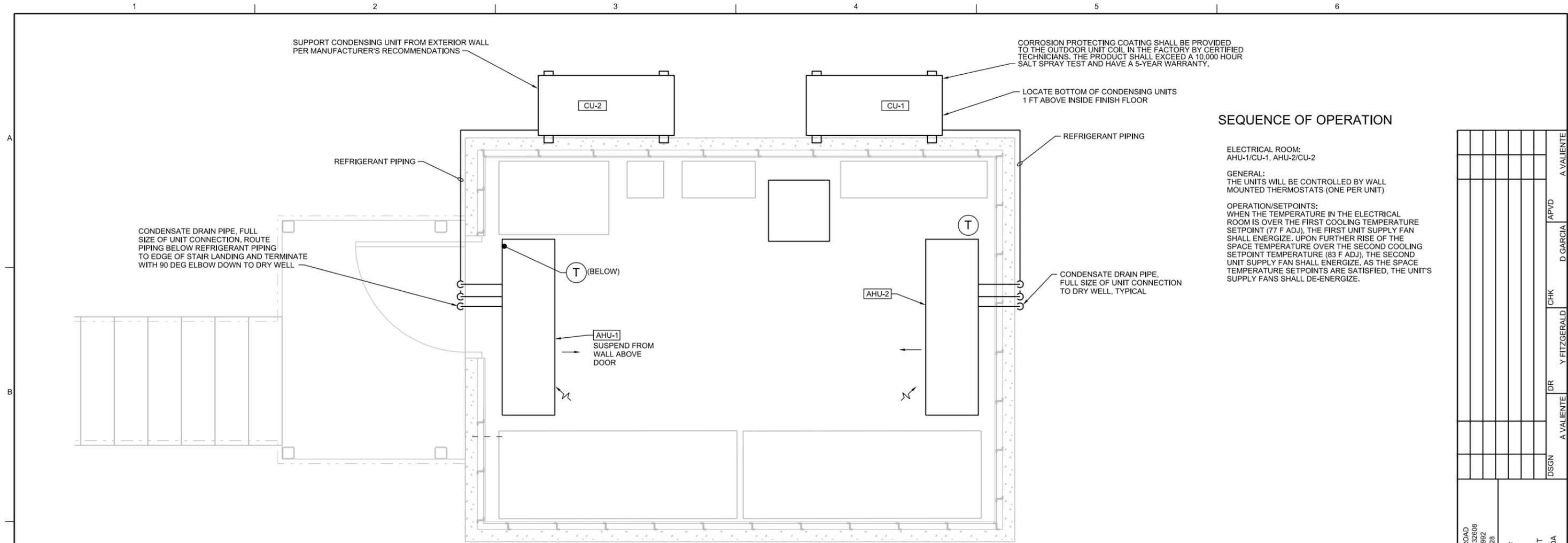
**A SECTION**  
3/8"=1'-0"

**B SECTION**  
NTS

- NOTES:**
1. PROVIDE ADDITIONAL REINFORCEMENT AROUND ALL OPENINGS IN WALLS AND SLAB. SEE DETAIL (3301)
  2. PROVIDE CONTINUOUS HYDROPHILIC WATERSTOP IN ALL CONSTRUCTION JOINTS; CJ-1020-2K BY GREEN STREAK. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
  3. CONTRACTOR TO FIELD VERIFY DEPTH OF 16" RS TO DETERMINE VAULT DEPTH.
  4. DETAIL (3322) IS FOR CONCRETE WORK FOR THE PENETRATION THROUGH THE EXISTING WALL.
  5. ROUTE ARV DISCHARGE BACK INTO WET WELL.

3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 E80000072 AAC001992 Immaculata Okech Olapechi PE 61794		PUMP STATION F		CITY OF KEY WEST KEY WEST, FLORIDA	
<b>CH2MHILL</b>		PROCESS MECHANICAL		<b>PUMP STATION MODIFICATIONS LOWER PLAN AND SECTION</b>	
DATE: AUGUST 2014		PROJ: 406518		DWG: D-3	
SHEET: 14 of 30		FILENAME: 010-D-2002_406518.dgn		PLOT DATE: 8/4/2014	
S PASTEUR		DR		O OKPECHI	
J MAU		CHK		APVD	
O OKPECHI		DR		O OKPECHI	

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**ELECTRICAL BUILDING PLAN**

3/4"=1'-0"



**SPLIT SYSTEM DX INDOOR UNITS**

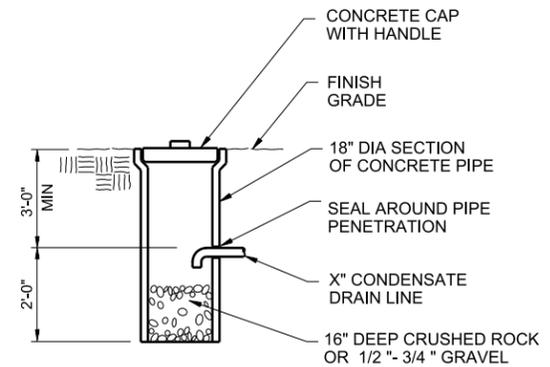
SYMBOL	SERVING	FAN DATA			DX COOLING DATA			FAN MOTOR DATA			UNIT ELECTRICAL DATA				UNIT DIMENSIONS			MANUFACTURER AND MODEL NO.	APPLICABLE REMARKS			
		SUPPLY AIR CFM	OUTSIDE AIR CFM	EXTERNAL STATIC P. IN W.G.	NET TOTAL BTU/H	EAT DEG. F DB	WB	AMBIENT TEMP. DEG. F	HP	VOLT	PH	#CONN.	MCA	MOCF (FUSE)	VOLT	PH	INCHES			MAX. WEIGHT LBS		
AHU-1	ELEC ROOM	1200	0	0.25	34,200	75.6	63.7	89	0.97FLA	208	1	1	23.8	40	208/230	1	9.5	57.5	13.4	51	CARRIER/40QNC036	A,B,C,D,E,F
AHU-2	ELEC ROOM	1200	0	0.25	34,200	75.6	63.7	89	0.97FLA	208	1	1	23.8	40	208/230	1	9.5	57.5	13.4	51	CARRIER/40QNC036	A,B,C,D,E,F

- REMARKS:
- A: REFRIGERANT R410A
  - B: DISCONNECT BY DIVISION 26 ELECTRICAL
  - C: FACTORY PROVIDED MOTOR STARTER
  - D: UNIT SUBBASE
  - E: WIRED WALL MOUNTED CONTROL WITH LCD DISPLAY
  - F: MOUNTING BRACKET

**SPLIT SYSTEM DX OUTDOOR UNITS**

SYMBOL	SERVING	DX COOLING DATA			OUTDOOR FAN DATA		COMPRESSOR DATA		UNIT ELECTRICAL DATA				UNIT DIMENSIONS				MANUFACTURER AND MODEL NO.	APPLICABLE REMARKS				
		CAPACITY BTU/HR	AMBIENT TEMP. DEG. F	SEER @ARI	NO.	CFM (TOTAL)	NO.	STEPS	RLA (EA)	LRA (EA)	#CONN	MCA	VOLT	PH	INCHES				MAX. WEIGHT LBS			
CU-1	AHU-1	34,200	89	13.0	1	850.0	1	1	17.9	112.0	1	21.0	208/230	1	19 5/8	44	9/16	37	3/16	250	CARRIER/38HDF036	A,B,C,D,E,F,G,H,I,J,K
CU-2	AHU-2	34,200	89	13.0	1	850.0	1	1	17.9	112.0	1	21.0	208/230	1	19 5/8	44	9/16	37	3/16	250	CARRIER/38HDF036	A,B,C,D,E,F,G,H,I,J,K

- REMARKS:
- A: REFRIGERANT R410A
  - B: FACTORY INSTALLED MOTOR CONTACTOR/STARTER
  - C: DISCONNECT BY DIVISION 26 ELECTRICAL
  - D: FACTORY APPLIED CORROSION PROTECTION COATING ON COILS, INSIDE AND OUTSIDE OF CASING
  - E: CONDENSER HAIL GUARDS
  - F: LOW AMBIENT COOLING KIT
  - G: COMPRESSOR CYCLE DELAY
  - H: 5 YEAR WARRANTY FOR EACH COMPRESSOR
  - I: REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER OPTIMUM PERFORMANCE RATING.
  - J: WALL MOUNTED KIT
  - K: WIND BAFFLES



**DRY WELL**

APVD	A. VALENTE
CHK	D. GARCIA
DR	Y. FITZGERALD
DSGN	A. VALENTE

3011 S.W. WILLISTON ROAD  
GAINESVILLE, FLORIDA 32608  
E80000072 AAC001992  
Abel Valiente PE 70126

PUMP STATION F

CITY OF KEY WEST  
KEY WEST, FLORIDA

**CH2MHILL**

MECHANICAL - HVAC

**ELECTRICAL BUILDING PLAN**

1" = X'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	AUGUST 2014
PROJ	406518
DWG	M-1
SHEET	15 of 30