SITE LOCATION

CONSTRUCTION PLANS FOR STORMWATER MANAGEMENT IMPROVEMENTS REAR OF BOAT HOUSE RESTAURANT KEY WEST HISTORIC SEAPORT



LOCATION MAP:

PROJECT LOCATION: 220 MARGARET ST, KEY WEST, FL 33040



WORK ZONE

SITE MAP:



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STATE OF FLORIDA LICENSE NO 71480

ARTIBUS DESIGN

ARTIBUS DESIGN 3710 N. RODSEVELT BLVD KEY WEST, FL 33040 (305) 304-3512 WWW.ARTIBUSDESIGN.COM CA # 30835

CITY OF KEY WEST

STORMWATER Management

220 MARGARET ST, KEY WEST, FL 33040

Cover

102-12 G-100

FINAL

GENERAL REQUIREMENTS:

- 1. PRIOR TO STARTING ANY WORK THE CONTRACTOR SHALL REVIEW THESE PLANS AND SITE CONDITIONS AND NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
- EMPLOYEES DURING THE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MEANS AND ESTABLISH METHODS OF THE CONSTRUCTION TO MEET REQUIREMENTS OF ALL APPLICABLE CODES, INDUSTRY STANDARDS AND REQUIREMENTS OF THESE PLANS.
- 3. QUALITY OF THE WORK SHALL MEET OR EXCEED INDUSTRY STANDARD PRACTICES.
- 4. ANY DEVIATIONS FROM THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

DESIGN DATA:

1. Applicable Building Code: FBC Existing Building 7th Edition (2020) 2. APPLICABLE DESIGN LOADS: PER ASCI/SEI 7-16

- FLOOR LIVE LOAD: 100 PSF
- ROOF LIVE LOAD: 20 PSF (300 LB CONC.) BASIC WIND SPEED: 180 MPH
- EXPOSURE: D
- STRUCTURAL CATEGORY: II
- FLOOD ZONE: VE10

ALL PRESSURES SHOWN ARE BASED ON ASD DESIGN. WITH A LOAD FACTOR OF 0.6

3.ASCE 24-14 FLOOD RESISTANT DESIGN AND CONSTRUCTION

CONCRETE:

- 1. APPLICABLE CODE ACI 318 LATEST EDITION AND ACI 301. 2. All concrete elements shall have a min. compressive strength of 4000 psi unless
- OTHERWISE IS SHOWN ON THE PLANS. WATER/CEMENT RATIO SHALL NOT EXCEED W/C=0.40. 3. All cast-in-place concrete shall be cured and protected from overdrying per ACI
- 305R-10 "Hot Weather Concreting".
- 4. All exposed edges shall have $1/2^{"}$ chamfers.
- 5. NO COLD JOINTS ARE ALLOWED UNLESS OTHERWISE APPROVED BY THE ENGINEER. 6. TESTING: ALL FIELD AND LABORATORY TESTING SHALL BE PERFORMED BY AN INDEPENDENT SPECIALIZED COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR ALL SCHEDULING, COORDINATION AND COST OF THE TESTING COMPANY.
- 7. CAST-IN-PLACE AND PRECAST MEMBER ERECTION TOLERANCES SHALL BE AS SPECIFIED IN THE TABLE 8.2.2 OR IN SECTION 8.3 OF PCI design handbook/Sixth edition.

REINFORCEMENT:

- 1. ALL REBAR SHALL BE ASTM 615 GRADE 60 UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 2. All requirements for placement, cover, tolerances, etc. Shall be per ACI 318-11.
- 3. ALL HOOKS AND BENDS SHALL BE FACTORY MADE UNLESS FIELD BENDS ARE APPROVED BY THE ENGINEER.
- 4. ONLY PLASTIC CHAIRS AND CENTRALIZERS SHALL BE USED FOR REBAR SUPPORT.

REFERENCED SPECIFICATIONS (LATEST EDITIONS):

- 1. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION AND INDEX.
- 2. CITY OF KEY WEST LAND DEVELOPMENT REGULATIONS.
- 3. F.D.E.P. REQUIREMENTS AND STANDARDS FOR WATER AND WASTEWATER CONSTRUCTION AND TESTING.

2. THE ENGINEER IS NOT RESPONSIBLE FOR THE SUPERVISION OF THE CONTRACTOR NOR HIS

WATER & SEWER CROSSINGS & PARALLEL INSTALLATION NOTES:

NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. The minimum horizontal separation distance between water mains and GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.



(3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER. (4) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. DISCLAIMER-THIS DOCUMENT IS PROVIDED FOR YOUR CONVENIENCE ONLY. PLEASE REFER TO F.A.C. RULE 62-555.314 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS





TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER. SILT FENCE APPLICATIONS



SILT FLOW



L ENGINEE STATE OF FLORIDA LICENSE NO 71480 FINAL 📕 ARTIBUS DESIGN ENGINEERING AND PLAN ARTIBUS DESIGN 3710 N. RODSEVELT BLVD Key West, FL 33040 (305) 304-3512 www.ArtibusDesign.com CA # 30835 CITY OF KEY WES STORMWATER MANAGEMENT 220 MARGARET ST, Key West, FL 33040 NOTES 5 SHOWN 11/11/21 SAM T ND: DRAWING ND:

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PROPOSED $\pm 4^{"}$ 3000 PSI CONCRETE SLAB W/ GALVANIZED W.W.F. 6X6-2.1X2.1, PITCH AWAY FROM BUILDING WALLS 8"x12" (DEEP) THICKENED SLAB EDGE ON EXPOSED SIDES, W/ (2) #4 REBAR CONTINUOUSLY, TOOLED CONTROLLED JOINTS @ \pm 5FT O.C., $\frac{1}{4}^{"}$ EXPANSION JOINT FILLER ON ALL SIDES AGAINST RIGID WALLS, LIGHT BROOM CLEAN FINISHED SURFACE (REMOVE ANY EXISTING CONCRETE UNLESS IT FALLS UNDER THE PROPOSED SLAB THICKNESS)

EXISTING PROPANE TANKS TO REMAIN

ELIMINATE ANY FLOOR DRAIN AND ASSOCIATED PIPING CONNECTED TO SANITARY SEWER

PROPOSED FLOOR MAT WASHING STATION TIE DRAIN INTO EXISTING LINE LEADING TO GREASE TRAP

SAW CUT CONCRETE SLAB IN CLEAN STRAIGHT LINE GRADE FINISHED GRAVEL FLASH WITH CONCRETE EDGE

×1.97 PAVEMENT

BENCHMARK ×1.85 SET MAG NAIL EL 1.77, NAVD88 ×1.76 ×1.76

×1.82 1.77 1.72 X AL A CONCRETE 1.73 ×1.71

×1.73

×1.55

×1.56

×1.51

 LEGEND

 SYMBOL
 DESCRIPTION

 Image: proposed finished grade elevations (NAVD)
 PROPOsed finished grade elevations (NAVD)

 Image: proposed flow arrow (MINIMUM 2% SLOPE AWAY FROM THE BUILDING UNLESS SHOWN OTHERWISE)
 PROPOsed concrete pavement



4" 316 STAINLESS STEEL REMOVABLE LID FLOOR DRAIN



4" SCH40 PVC P-TRAP

4" SCH40 PVC PIPING @ 1% SLOPE TOWARD EXISTING GREASE TRAP TIE INTO EXISTING LINE

FLOOR MAT WASHING PAD SCALE: NTS

FINISHED GRADE:
 "TURFSTONE[™]" PERMEABLE PAVERS
 1-1/2" PERMEABLE SETTING BED AGGREGATE,
 CRUSHED, ANGULAR STONE
 ASTM NO.8
 6" MIN. PERMEABLE BASE AGGREGATE:
 OPEN-GRADED, CRUSHED ANGULAR

- PERMEABLE NEEDLEPUNCHED NONWOVEN GEOTEXTILE, "MIRAFI 135N" OR ENGINEER APPROVED EQUAL OVER LEVELED AND LIGHTLY COMPACTED SUBGRADE

ASTM No.57

- 6[°] 4000 PSI CONCRETE SLAB "MAT WASHING STATION" SMOOTH FINISH, ALL EDGES ROUNDED 6X6-1.9x1.9 GALVANIZED WELDED WIRE (2) #4 GALVANIZED REBAR AROUND PERIMETER 3[°] COVER ALL SIDES, USE PLASTIC CHAIRS ONLY

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-PAVEMENT COURSE (IF ANY): MATCH EXISTING CONDITIONS OR MINIMUM 1.5" OF ASPHALT S-1 AND 1.0" OF ASPHALT S-3 (OR 8["] 3000 PSI CONCRETE PATCH)

MINIMUM OF 6" LBR 100 LIMEROCK COMPACTED TO 98% OF THE STANDARD

-2" WIDE DETECTABLE WARNING TAPE (APPROPRIATELY LABELED)

-GENERAL BACKFILL: SHALL BE CLEAN GRANULAR SAND OR LIMEROCK MIX WITHOUT ORGANICS, CLAY, MUCK AND ROCKS LARGER THAN 4". CLEAN FILL MATERIAL SHALL BE PLACED IN 6"-8" LAYERS AND COMPACTED TO 98% DENSITY USING THE STANDARD PROCTOR TEST.

PIPE BEDDING: CLEAN #57 STONE



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