THE CITY OF KEY WEST
3140 Flagler St,
Key West, FL 33040

ADDENDUM #1
Mallory Square Electrical Upgrades
Project: FM1301
Invitation to Bid: ITB 15-005
May 27, 2015

This Addendum is issued as supplemental information to the bid package for clarification of certain matters of both a general and a technical nature. The referenced bid package is amended in accordance with the following items:

- Attached to this coversheet is Addendum #1, dated May 27, 2015 which includes revised drawings, a sign-in sheet from the mandatory Pre-Bid meeting of May 19, 2015, and answers to questions submitted by prospective bidders.
- This Addendum # does not change the bid due date, which remains **June 3, 2015 at 3:00 pm**.

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

_____ _____

Signature Name Of Business

ADDENDUM #1
Mallory Square Electrical Upgrades
Project: FM1301
Invitation to Bid: ITB 15-005
May 27, 2015

This Addendum is issued as supplemental information to the bid package for clarification, correction, and additional information that will be of use to bidders.

The referenced bid package is amended as follows:

1. The attached sign-in sheet provides information on the attendees of the mandatory pre-bid meeting.
2. The attached drawing C-2 revised May 21, 2015 shall replace the Sheet C-2 in the original construction drawing set. The typical trench detail has been modified to delete flowable fill.
3. The attached drawing E-1 revised May 21, 2015 shall replace Sheet E-1 in the original construction drawing set. The drawing has been modified to indicate that the "PEDOC" powder-coated, stainless steel pedestal (Detail 'A') is now specified for the base bid while the precast concrete pedestals and aluminum/brick pedestals are bid alternates #1 and #2, respectively.
4. The attached drawing E-2 revised May 21, 2015 shall replace Sheet E-2 in the original construction drawing set. The revised drawing details replacing underground junction box 'J' with an 18"wide x 30" long x 18" deep composite box and stipulating that no below-ground splices allowed on this project.
5. The attached Question and Answer section is in response to questions submitted by bidders.

Bidders are reminded that the period for submitting questions about this invitation to Bid (ITB) expired May 26, 2015 at 5:00pm. Published Addenda are available to all bidders at:

http://www.demandstar.com

and at the City of Key West website:

http://www.cityofkeywest-fl.gov/egov/apps/document/center.egov.

QUESTIONS & ANSWERS

Q Sheet E-2. Is it an option to replace/enlarge Junction Box 'J'?

A Yes. Note that a revised Sheet E-2 (which calls for replacement of 'J') is included in Addendum #1.

Q Sheet E-2. Is it an option to run new conduits in the proposed trench to allow for home-runs for lighting circuits?

A Yes. Refer to revised Sheet E-2 included in Addendum #1.

Q Sheet E-2. Can more detailed information be provided on the proposed pedestal locations?

A Pedestal and conduit trench locations will be field located by the Contractor in locations approximate to those shown on Sheet E-2. Locations will be subject to approval by the Owner prior to installation or excavation.

Q Sheets E-1 and E-2. Where will rigid conduit be used?

A No metallic conduit shall be used, above or below-ground. All proposed conduits, bends and fittings shall be SCH80 UV-resistant PVC.

Q Sheet E-1: How will conduits be attached to the Waterfront Playhouse building?

A Stainless steel unistrut, straps and tapcons shall be used. Conduit shall be installed in accordance with Article 352 of the NEC 2011 Edition.

Mandatory Pre-Bid meeting: **Mallory Square Electrical Upgrades ITB 15-005**

Sign-In Sheet ~ In Attendance | 19 May 2015 9:00am | Location: Mallory Square

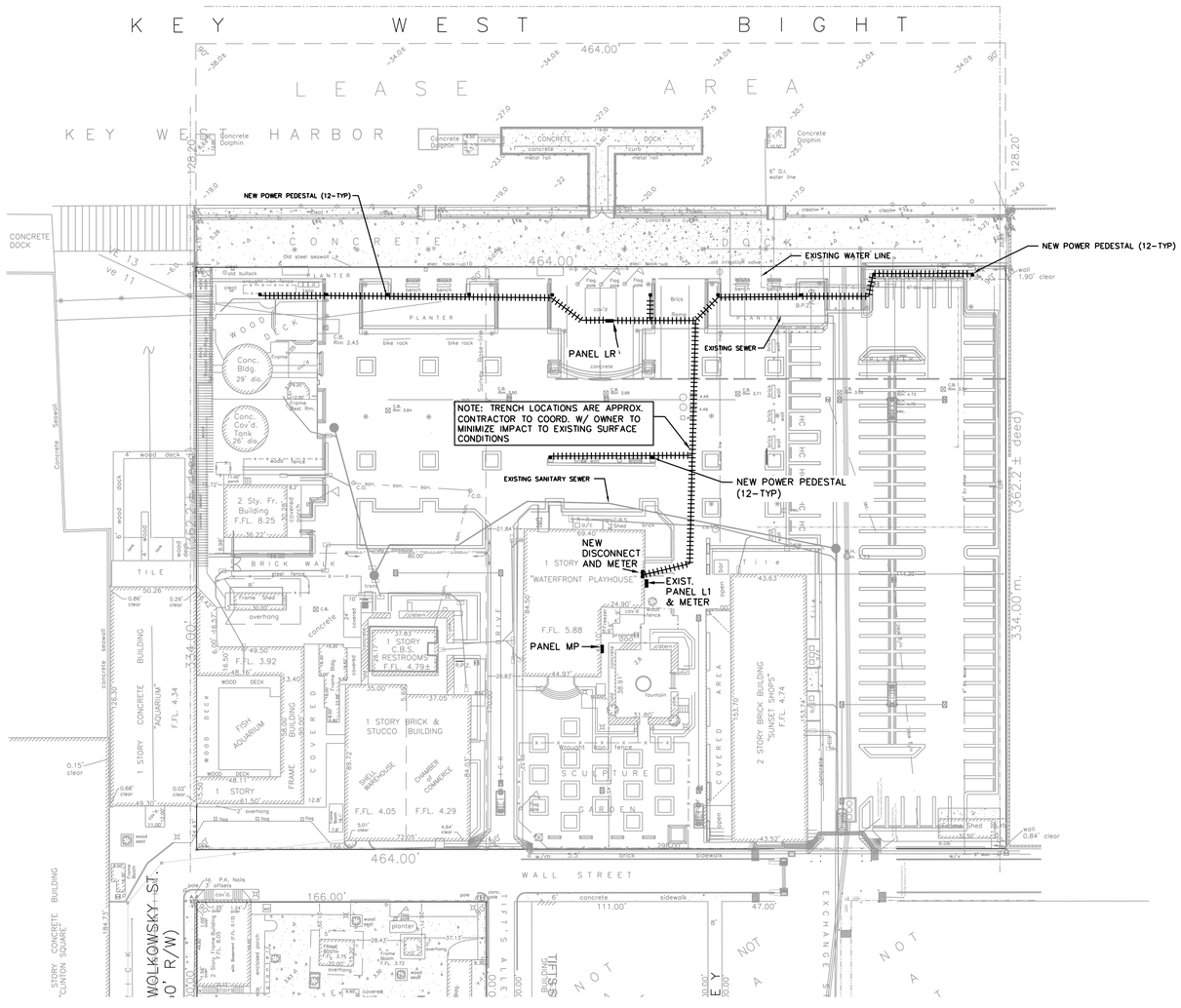
Name	Representing	Phone	Email
Terrence Justice	City of Key West/Engr'g	305.809.3943	tjustice@cityofkeywest-fl.gov
Brett Wright	City of Key West/FMT	305.809.3755	bwright@cityofkeywest-fl.gov
MIKE SMITH	FLORIDA KEYS ELECT.	305-296-4028	msmith@flkeyselectric.com
Paul Waters	Douglas N. Higgins	305-797-1019	Paulw@dnhiggins.com
WALT MESSER	" " "	"	
RAMON (JOSEPH)	SLAZAR Construction	(305) 481-2344	Slazarplumbingsewers@gmail.com ramonjr@conservelectric.com

North

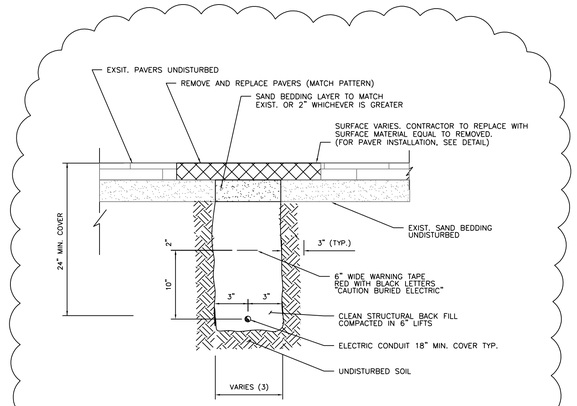
40' 0 40'

SCALE 1"=40'

BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF NOT TWO INCHES ON THIS SHEET ADJUST SCALES ACCORDINGLY



TRENCHING PLAN



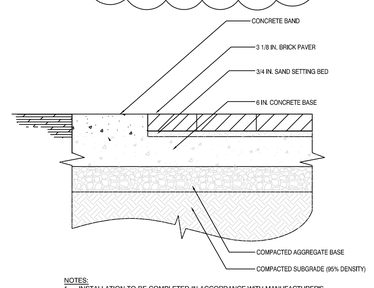
ELECTRICAL TRENCH

N.T.S.

NOTES:

1. UTILIZE SAME TRENCH DETAIL FOR POWER AND CONTROL CONDUITS, WARNING TAPE SHALL READ "CAUTION BURIED ELECTRIC"
2. COMPACT BEDDING AND BACKFILL TO 98% DENSITY IN ASPHALT/CONCRETE PAVER AREAS WHERE (AASHTO-T-180).
3. TRENCH WIDTH SHALL VARY AS NEEDED DEPENDENT UPON NUMBER AND SIZE OF PIPES/CONDUIT BEING INSTALLED.

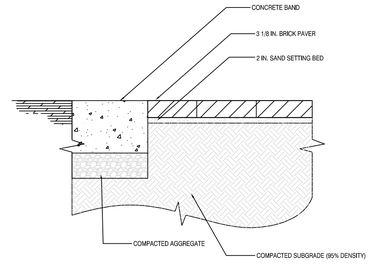
1 Typical Trench Detail
NTS



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. IT IS BELIEVED THAT THIS CONFIGURATION ONLY EXISTS ON THE CONCRETE DOCK SECTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR STOCKPILING EXISTING PAVERS FOR REPLACEMENT.

2 Typical Brick Paver Installation: Concrete Base
NTS



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR STOCKPILING EXISTING PAVERS FOR REPLACEMENT.

3 Typical Brick Paver Installation: Sand Base
NTS

CONTRACTOR SHALL BE RESPONSIBLE FOR STOCKPILING PAVERS FOR REPLACEMENT.

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TEL: (305) 293-9440 FAX: (305) 296-0243
CERTIFICATE OF AUTHORIZATION No. 8579

ALLEN E. PEREZ, P.E.
Florida P.E. NO. 51468
May 26, 2015

ORIGINAL: AUGUST 2014

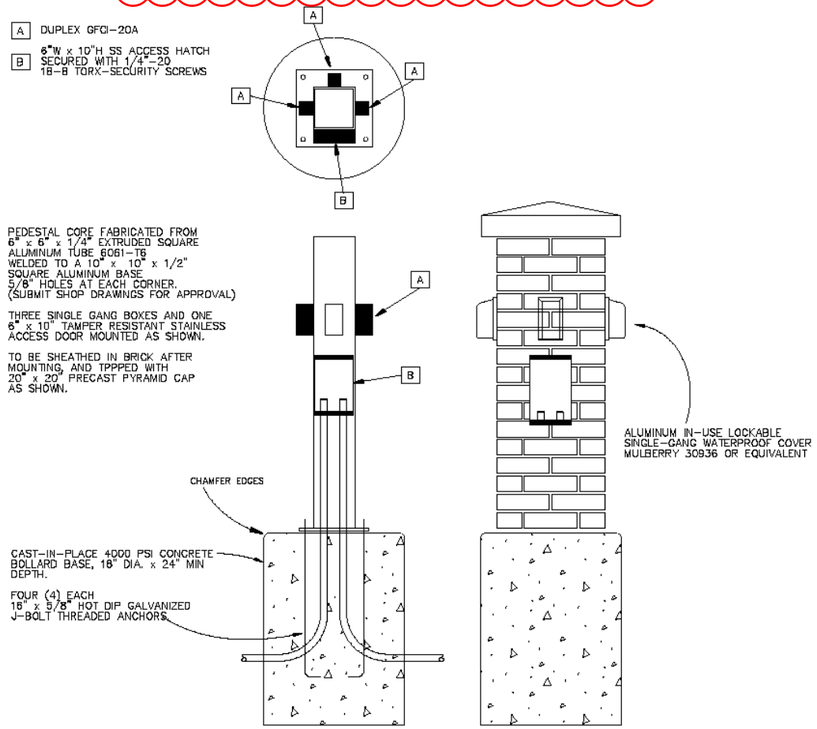
REVISIONS:
1 Addendum No. 1 5/21/15
2
3
4
5
6

MALLORY SQUARE
ELECTRICAL UPGRADES
KEY WEST, FL 33040
TRENCHING PLAN

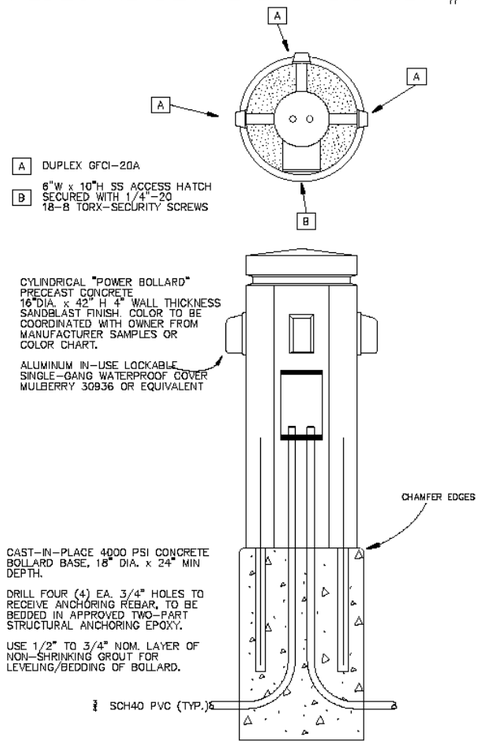
CITY OF KEY WEST
P.O. BOX 1409
KEY WEST, 33041

JOB NO. 141017
DRAWN BGO
DESIGNED AEP
CHECKED AEP
QC
SHEET C-2

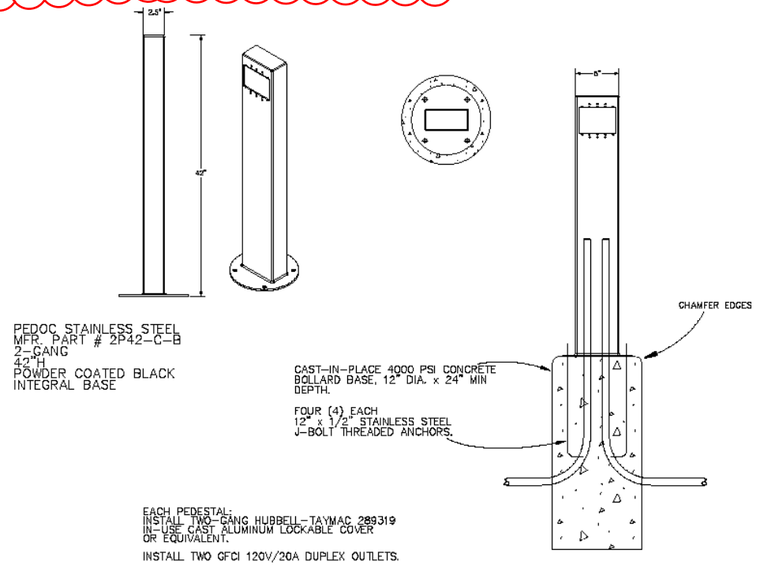
PEDESTAL DETAIL C – BID ALT #2



PEDESTAL DETAIL B – BID ALT #1



PEDESTAL DETAIL A – BASE BID



ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO CIVIL DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
2. OBTAIN OWNER'S/ENGINEER'S APPROVAL OF ALL PROPOSED TRENCH AND EQUIPMENT LOCATIONS PRIOR TO EXCAVATION.
3. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE AFFIXED IDENTIFYING SYSTEM.
4. GENERAL CONTRACTOR SHALL FIELD–VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
5. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
6. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
7. OBTAIN OWNER'S/ENGINEER'S APPROVAL OF ALL RECEPTACLES, FACEPLATES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
8. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
9. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
10. ALL CONDUCTORS SHALL BE COPPER. #12 & #10 SOLID, #8 AND LARGER STRANDED, #6 AND SMALLER TO BE TYPE THHN, 600 VOLT INSULATION
11. PROVIDE GROUNDING PER NATIONAL ELECTRIC CODE. A SEPERATE GROUND CONDUCTOR SHALL BE INSTALLED FOR ALL CIRCUITS. THE CONDUIT CANNOT SERVE AS THE CIRCUIT GROUND.
12. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE(1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
13. EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED IN ALL BRANCH CIRCUIT WIRING. CONDUIT GROUND SHALL NOT BE ACCEPTABLE.
14. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS FOR INSTALLING ALL UTILITY SERVICE REQUIREMENTS.
15. ALL EMPTY CONDUITS SHALL HAVE PULLSTRINGS INSTALLED.

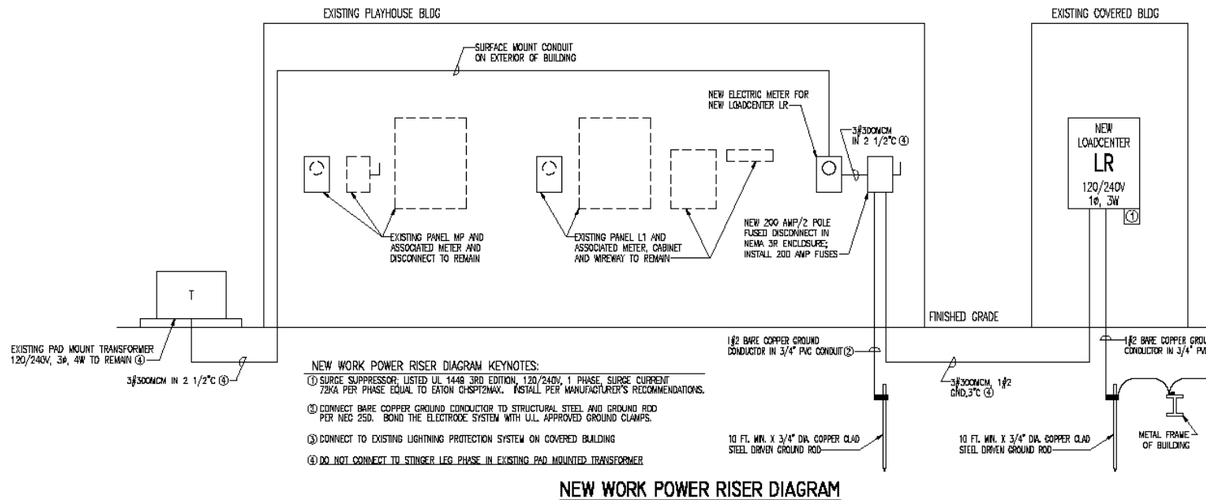
CIRCUIT BREAKER PANEL SCHEDULE LOADCENTER LR

120/240 VOLT 1Ø 3W
225 AMP MAIN LUGS ONLY

SURFACE MOUNTED
NEMA 4X ENCLOSURE
*FURNISH PANEL WITH LOCKABLE HASP

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC–PEDESTAL	1	20	1.0	1.0	20	1	REC–PEDESTAL	2
3	REC–PEDESTAL	1	20	1.0	1.0	20	1	REC–PEDESTAL	4
5	REC–PEDESTAL	1	20	1.0	1.0	20	1	REC–PEDESTAL	6
7	REC–PEDESTAL	1	20	1.0	1.0	20	1	REC–PEDESTAL	8
9	REC–PEDESTAL	1	20	1.0	1.0	20	1	REC–PEDESTAL	10
11	REC–PEDESTAL	1	20	1.0	1.0	20	1	REC–PEDESTAL	12
13	SPARE	1	20			20	1	SPARE	14
15	SPARE	1	20			20	1	SPARE	16
17	SPARE	1	20			20	1	SPARE	18
19	SPARE	1	20			20	1	SPARE	20
21	SPARE	1	20			20	1	SPARE	22
23	SPARE	1	20			20	1	SPARE	24
25	SPACE	1	---			---	1	SPACE	26
27	SPACE	1	---			---	1	SPACE	28
29	SPACE	1	---			---	1	SPACE	30
31	SPACE	1	---			---	1	SPACE	32
33	SPACE	1	---			---	1	SPACE	34
35	SPACE	1	---			---	1	SPACE	36
37	SPACE	1	---			30	2	SURGE SUPPRESSOR	38
39	SPACE	1	---						40

TOTAL CONNECTED LOAD: 12.00 KVA
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL



NEW WORK POWER RISER DIAGRAM KEYNOTES:

① SURGE SUPPRESSOR: LISTED UL 1449 3RD EDITION, 120/240V, 1 PHASE, SURGE CURRENT 72KA PER PHASE EQUAL TO EATON CHSPT2MAX. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

② CONNECT BARE COPPER GROUND CONDUCTOR TO STRUCTURAL STEEL AND GROUND ROD PER NEC 250. BOND THE ELECTRODE SYSTEM WITH U.L. APPROVED GROUND CLAMPS.

③ CONNECT TO EXISTING LIGHTNING PROTECTION SYSTEM ON COVERED BUILDING

④ DO NOT CONNECT TO STINGER LEG PHASE IN EXISTING PAD MOUNTED TRANSFORMER

NEW WORK POWER RISER DIAGRAM

NOT TO SCALE

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CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT
CERTIFICATE OF AUTHORIZATION NO. 8579

ORIGINAL: FEBRUARY 2014

REVISIONS: 1 2 3 4 5 6

MALLORY SQUARE
ELECTRICAL UPGRADES
KEY WEST, FL 33040
DETAILS

CITY OF KEY WEST
P.O. BOX 1409
KEY WEST, 33041

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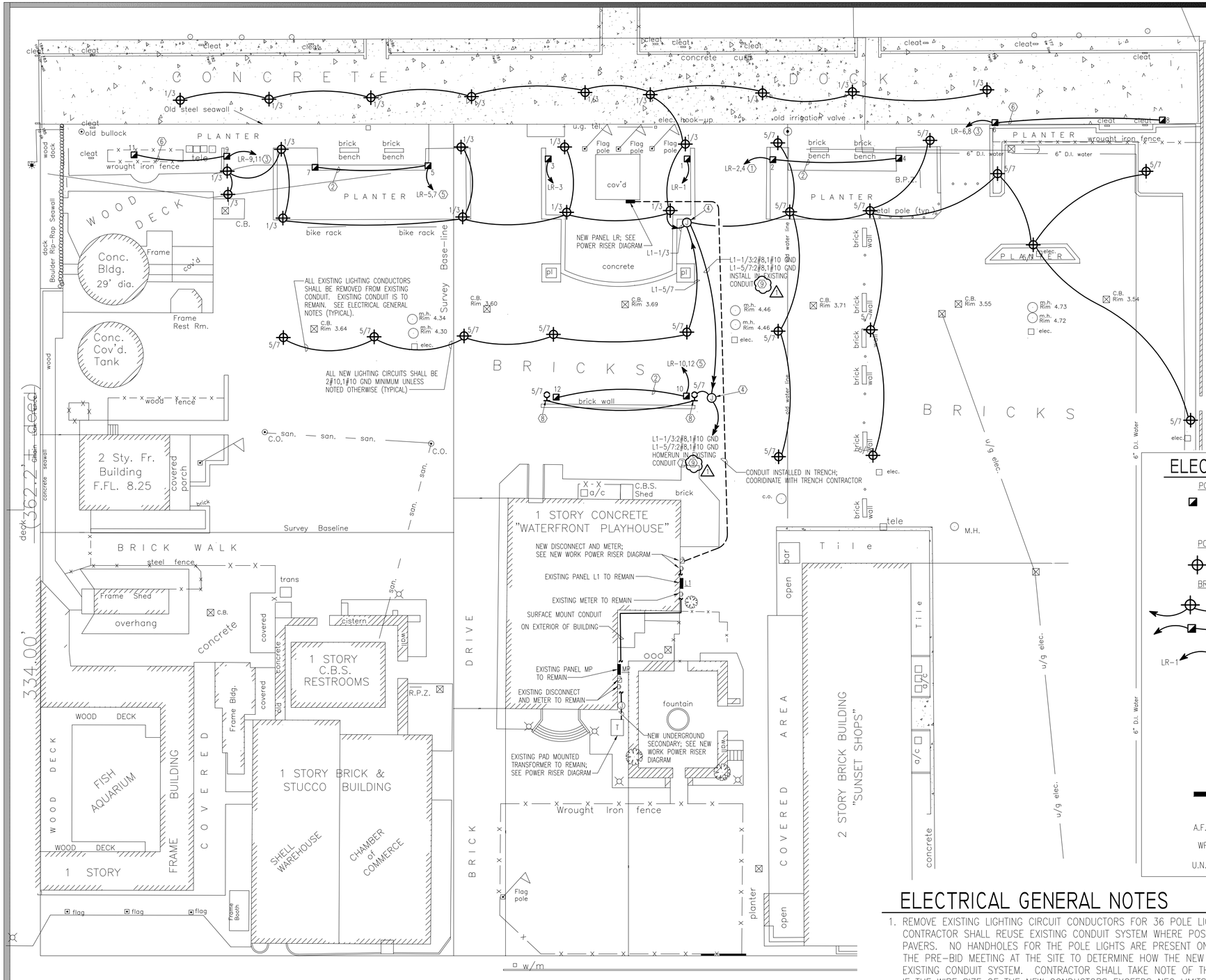
FBPE Authorization No. 30242
Phone: (850)912-8578
Email: quinn@yatespe.com
FL PE No: 80828

JOB NO. 141017
DRAWN RQY
DESIGNED RQY
CHECKED RQY
QC
SHEET E-1

S:\2014 Jobs\04 Mallory Square Electrical Upgrades\DWGS FROM TERRANCE 4.29.15\E-1 Legend, Riser & Notes (4-29-15).dwg (Model) Plotted on: May 08, 2015 - 10:22am by rubin



KEY NOTES:

1. 3#10,1#10 GND, 3/4"C
2. 2#10,1#10 GND, 3/4"C
3. 3#6,1#10 GND, 3/4"C
4. REPLACE THE EXISTING UNDERGROUND JUCTION BOX WITH NEW COMPOSITE PULL BOX MARKED "ELECTRICAL" EQUAL TO HIGHLINE CHA132418 WITH BROOKS/OLDCASTLE N16 BOX WITH FIBERLYTE BOLT-DOWN LID. INSTALL CONDUCTORS; DO NOT MAKE SPLICES IN THE PULL BOX.
5. 3#8,1#10 GND, 3/4"C
6. 2#8,1#10 GND, 3/4"C
7. ROUTE CONDUCTORS THROUGH EXISTING LIGHTING CONTACTOR FOR CONTROLS
8. EXISTING HID AREA LIGHT FIXTURE TO REMAIN; CONNECT TO NEW CONDUCTORS AS INDICATED. VERIFY FIXTURE VOLTAGE PRIOR TO REMOVING CONDUCTORS.
9. NEW CONDUITS CAN BE INSTALLED IN THE SAME TRENCH FROM PANEL L1 TO NEW COMPOSITE PULL BOX (SEE KEYNOTE #4) IF NECESSARY.

ELECTRICAL LEGEND

POWER PEDESTALS

- POWER PEDESTALS – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. INSTALL FLUSH IN PEDESTALS. PROVIDE WEATHERPROOF BOX AND COVERPLATE FOR RECEPTACLE. COVERPLATE SHALL BE ALUMINUM WITH LOCKABLE HASP EQUAL TO MULBERRY 30936. SEE PEDESTAL AND MOUNTING DETAILS SHEET E-1.

POLE LIGHTS

- EXISTING HID, 100W HPS DECORATIVE POLE LIGHT TO REMAIN. CONNECT TO NEW LIGHTING CIRCUIT AS INDICATED.

BRANCH CIRCUITING

- WIRING REMOVED AND REPLACED IN EXISTING CONDUITS FOR SITE LIGHTING
- RUN CONCEALED UNDERGROUND IN NEW CONDUITS FOR POWER PEDESTAL CIRCUITS
- LR-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND – 1/2" C; 3 #12, 1 #12 GROUND – 1/2" C; 4 #12, 1 #12 GROUND – 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.

EXAMPLE 1: LR-5,7 — INDICATES HOMERUN TO PANEL LR, INDIVIDUAL BREAKERS, POSITIONS 5 & 7

EXAMPLE 2: L1-1/3 — INDICATES HOMERUN TO PANEL L1, 2-POLE BREAKER POSITION 1/3

PANELS AND POWER

- 120/240 VOLT PANELBOARD

MISCELLANEOUS

A.F.F.	ABOVE FINISH FLOOR
WP	WEATHERPROOF
U.N.O.	UNLESS NOTED OTHERWISE

ELECTRICAL GENERAL NOTES

1. REMOVE EXISTING LIGHTING CIRCUIT CONDUCTORS FOR 36 POLE LIGHTS (INDICATED BY SYMBOL ⊕ ON DRAWINGS). CONTRACTOR SHALL REUSE EXISTING CONDUIT SYSTEM WHERE POSSIBLE TO PREVENT DISTURBING THE EXISTING PAVERS. NO HANDHOLES FOR THE POLE LIGHTS ARE PRESENT ON THE SITE. THE CONTRACTOR SHALL ATTEND THE PRE-BID MEETING AT THE SITE TO DETERMINE HOW THE NEW CONDUCTORS WILL BE INSTALLED IN THE EXISTING CONDUIT SYSTEM. CONTRACTOR SHALL TAKE NOTE OF THE CONDUIT SIZE AND CONTACT THE ENGINEER IF THE WIRE SIZE OF THE NEW CONDUCTORS EXCEEDS NEC LIMITS FOR CONDUIT FILL.
2. IF A POLE LIGHT CONDUCTOR IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE POLE LIGHT, THEN THE CIRCUIT SHALL BE MADE CONTINUOUS TO THE REMAINING LIGHTS. NO CIRCUIT CONTINUITY SHALL BE LOST. NO SPLICES SHALL BE MADE UNDERGROUND. ALL NEW SPLICES SHALL BE MADE ABOVE GROUND.
3. INSTALL ALL NEW CONDUCTORS CONTINUOUS IN THE GROUND, DO NOT MAKE UNDERGROUND SPLICES FOR ANY NEW POWER PEDESTAL OR LIGHTING CIRCUITS. SPLICES SHALL BE MADE ABOVE GRADE IN ACCESS POINTS IN LIGHT POLES AND RECEPTACLE PEDESTALS.
4. COORDINATE WITH OWNER FOR TRENCH LOCATIONS PRIOR TO ROUGHING IN ANY CONDUIT. AN EFFORT WILL BE MADE TO DISTURB THE LEAST AMOUNT OF FINISHED PAVERS AND CONCRETE. COORDINATE WITH THE OWNER PRIOR TO DISTURBING ANY FINISHED PAVERS, CONCRETE OR GRADE.

ELECTRICAL SITE PLAN

SCALE: 1"=20'

0 20 40 60 80 100

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

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PEREZ ENGINEERING & DEVELOPMENT, INC
CERTIFICATE OF AUTHORIZATION NO. 8579

REVISIONS: 1 ADDENDUM #1 - 5/26/15; 2 3 4 5 6

ORIGINAL: FEBRUARY 2014

MALLORY SQUARE
ELECTRICAL UPGRADES
KEY WEST, FL 33040
ELECTRICAL SITE PLAN

CITY OF KEY WEST
P.O. BOX 1409
KEY WEST, 33041

YATES ENGINEERING SOLUTIONS
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Phone: (850)512-9579
Email: quinn@yateseng.com
FL PE No: 60826

JOB NO. 141017
DRAWN RQY
DESIGNED RQY
CHECKED RQY
QC
SHEET E-2

S:\2014 Jobs\04 Mallory Square Electrical Upgrades\DWGS FROM TERRANCE # 29 15\E-2 Elec-Site-04-10-4429fj.dwg (Model) Plotted on: May 26, 2015 - 2:59pm by quinn