MALLORY SQUARE ELECTRICAL UPGRADES

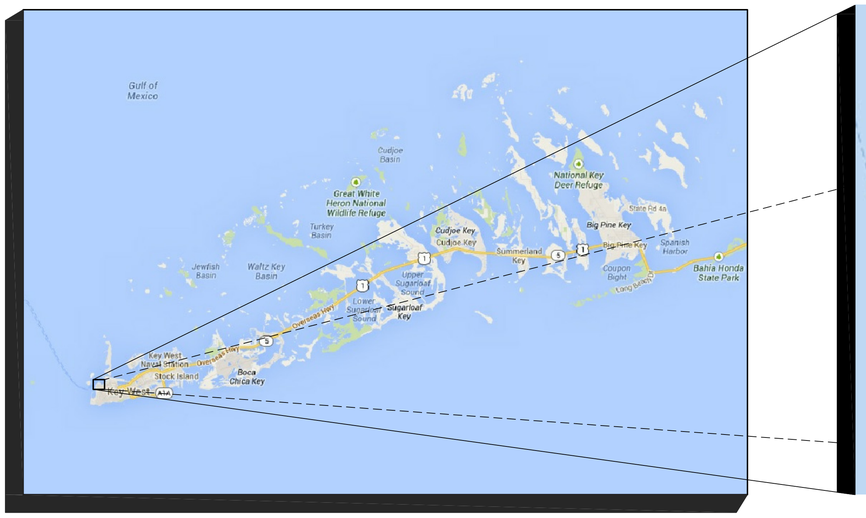
PEREZ ENGINEERING & DEVELOPMENT, INC
CERTIFICATE OF AUTHORIZATION No. 8579

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

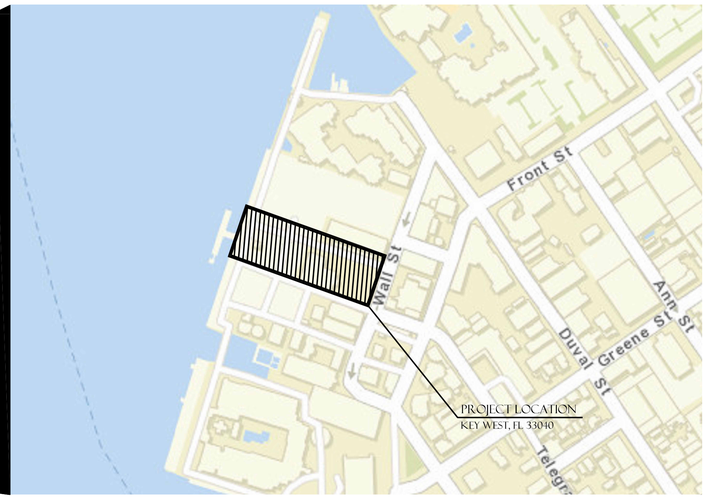
DATE: MAY 2015
PROJECT NUMBER: 141017
PROJECT NAME: MALLORY SQUARE ELECTRICAL UPGRADES
PREPARED BY: PEREZ ENGINEERING & DEVELOPMENT
PREPARED FOR: CITY OF KEY WEST, ENGINEERING SERVICES
PLANS DESCRIPTION: BID DOCUMENTS

BID DOCUMENTS
MALLORY SQUARE
KEY WEST, FLORIDA 33040

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



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
	CIVIL
-	COVER
C-1	GENERAL NOTES
C-2	TRENCHING PLAN
E-1	GENERAL ELECTRICAL DETAILS
E-2	ELECTRICAL SITE PLAN

PREPARED FOR:

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

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

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

PEREZ ENGINEERING & DEVELOPMENT, INC
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TEL: (305) 293-9440 FAX: (305) 296-0243

PERMITS

PERMIT AGENCY	TYPE	NUMBER	STATUS

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

GENERAL NOTES

1. 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.

2. 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.

3. HORIZONTAL COORDINATES ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM. VERTICAL ELEVATIONS ARE BASED ON NGVD 1929 DATUM.

4. 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 KEYS ENERGY TO LOCATE ELECTRIC LINES.

5. 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.

6. 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).

7. ALL ITEMS INDICATED TO BE REMOVED OR DEMOLISHED SHALL BE REVIEWED WITH THE OWNER 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.

8. 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.

9. 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.

10. 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.

11. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITH OUT FIRST OBTAINING A CONSTRUCTION METER FROM THE FLORIDA KEYS AQUEDUCT AUTHORITY.

12. 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.

13. 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.

14. 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.

NEW CONSTRUCTION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION OF NEW UTILITIES TO ANTICIPATE AND PLAN FOR CROSSINGS OF NEW AND EXISTING UTILITIES AND SUBSURFACE FEATURES.

2. NEW SLABS SHALL BE GRADED TO POSITIVELY DRAIN WITHOUT ANY STORMWATER PONDING.

3. PROVIDE CONTRACTION JOINTS AT 12' O.C. MAX. JOINT PATTERNS IN PAVEMENTS AND SIDEWALKS SHALL BE GENERALLY SQUARE. AT CURBS PROVIDE FULL DEPTH EXPANSION JOINTS AT 100 FT. O.C. MAX, AND AT LOCATIONS WHERE STRAIGHT CURB RUNS CHAGE DIRECTIONS. AT SIDEWALKS PROVIDE WEAKENED PLANE CONTRACTION JOINTS NOT MORE THAN 5'=0" MAX. AND EXPANSION JOINTS AT 20-FT. O.C. MAX (TOOL ALL EDGES). INSTALL SELF-LEVELING SEALENT AT ALL ISOLATION/ EXPANSION JOINTS.

EROSION CONTROL NOTES

1. 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.

2. FILTER FABRIC SILT FENCE SHALL BE IN CONFORMANCE WITH SECTION 985, FDOT SPECIFICATION.

3. CONTRACTOR SHALL INSTALL EROSION CONTROLS AND IS RESPONSIBLE FOR PROVIDING ALL APPLICABLE PERMITS. EROSION CONTROLS SHALL BE MAINTAINED.

4. BALED HAY OR STRAW BARRIERS SHALL BE CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH FDOT INDEX NO. 103.

5. SILT FENCES SHOULD BE CONSTRUCTED WITHIN PROPERTY LINES.

6. PROVIDE EROSION CONTROL MEASURES CONSISTING OF HAY BALES ALONG THE PROPOSED LIMITS OF CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO AVOID ADVERSE IMPACTS TO JURISDICTIONAL AREAS (WATER BODIES) AND OFF-SITE LANDS . MAINTAIN THESE MEASURED DAILY UNTIL CONSTRUCTION ACCEPTANCE BY THE OWNER AND THEN REMOVE AND LEGALLY DISPOSE OF SAID MEASURES.

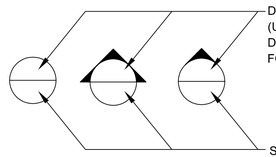
7. EROSION CONTROL SHALL MAINTAINED WITHIN CONSTRUCTION AREA BY QUICKLY STABILIZING DISTURBED AREA TO PREVENT THE RELEASE OF SEDIMENT. THIS SHALL BE ACCOMPLISHED USING HAY BALES OR OTHER MEANS ACCEPTABLE TO OWNER, ENGINEER AND REGULATORY AGENCIES.

8. 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.

LEGEND

GENERAL

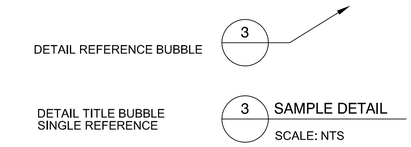
——— - - ———	RIGHT-OF-WAY AND/ OR PROPERTY LINE
TL 1500	TAX LOT NUMBER
▲	CONTRACTOR'S SURVEY REFERENCE
5	KEY NOTE MARKER
9	(ON SITE PLAN) # OF PARKING SPACES



DETAIL OR SECTION DESIGNATION (USE NUMBERS FOR DETAILS/ELEVATIONS AND LETTERS FOR SECTIONS)

SHEET ON WHICH DETAIL/ SECTION/ELEVATION IS DRAWN

DETAIL SECTION ELEVATION DETAIL/SECTION TITLE



BUBBLE SYMBOLS

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

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ALLEN E. PEREZ, P.E.
Florida P.E. NO. 51468
May 6, 2015

ORIGINAL: *AUGUST 2014*

REVISIONS: 1 2 3 4 5 6

MALLORY SQUARE

ELECTRICAL UPGRADES

KEY WEST, FL 33040

GENERAL NOTES

CITY OF KEY WEST

P.O. BOX 1409

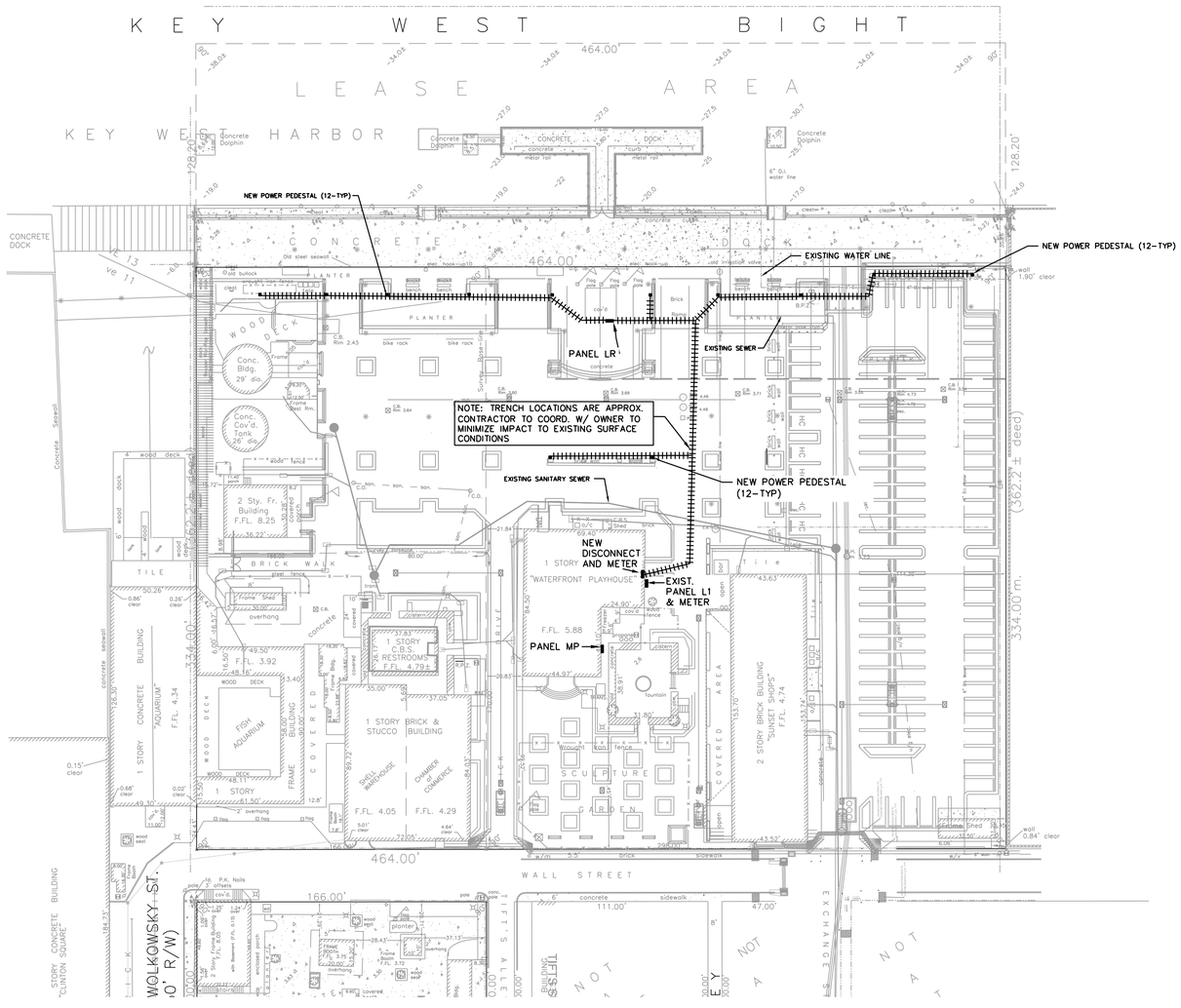
KEY WEST, 33041

JOB NO. 141017
DRAWN BGO
DESIGNED AEP
CHECKED AEP
QC
SHEET

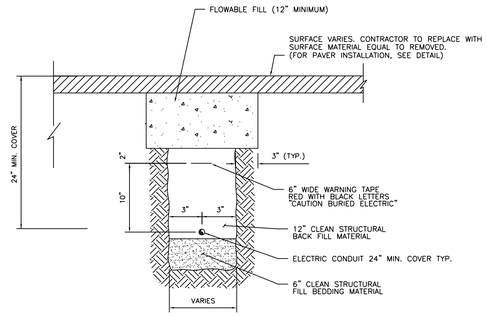
40' 0 40'

SCALE 1"=40'

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



TRENCHING PLAN



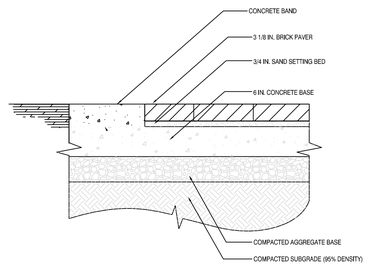
ELECTRICAL TRENCH

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 AREAS WHERE (AASHTO-T-180).
3. TRENCH WIDTH SHALL VARY AS NEEDED DEPENDENT UPON NUMBER AND SIZE OF PIPES/CONDUIT BEING INSTALLED.

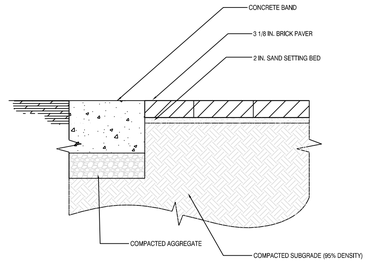
1 Typical Trench Detail
NTS



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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ORIGINAL: AUGUST 2014

REVISIONS: 1 2 3 4 5 6

MALLORY SQUARE
ELECTRICAL UPGRADES
KEY WEST, FL 33040
TRENCHING PLAN

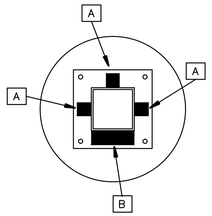
CITY OF KEY WEST
P.O. BOX 1409
KEY WEST, 33041

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

PEDESTAL DETAIL A – BASE BID

A DUPLEX GFCI–20A

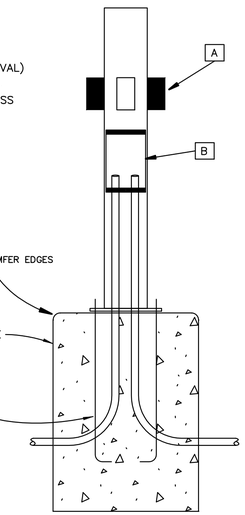
B 6"W x 10"H SS ACCESS HATCH SECURED WITH 1/4"–20 18–8 TORX–SECURITY SCREWS

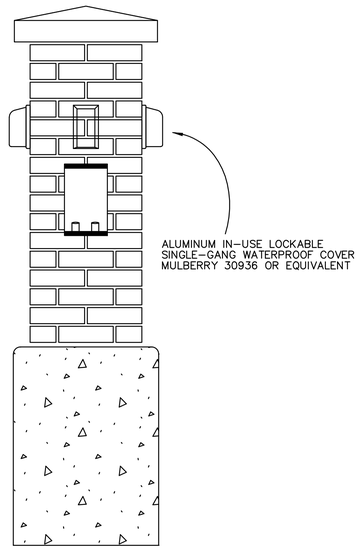


PEDESTAL CORE FABRICATED FROM 6" x 6" x 1/4" EXTRUDED SQUARE ALUMINUM TUBE 6061–T6 WELDED TO A 10" x 10" x 1/2" SQUARE ALUMINUM BASE 5/8" HOLES AT EACH CORNER. (SUBMIT SHOP DRAWINGS FOR APPROVAL)

THREE SINGLE GANG BOXES AND ONE 6" x 10" TAMPER RESISTANT STAINLESS ACCESS DOOR MOUNTED AS SHOWN.

TO BE SHEATHED IN BRICK AFTER MOUNTING, AND TPPPED WITH 20" x 20" PRECAST PYRAMID CAP AS SHOWN.

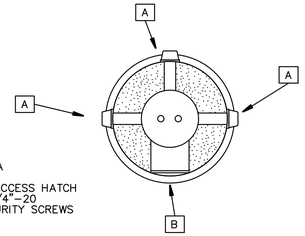




PEDESTAL DETAIL B – BID ALT #1

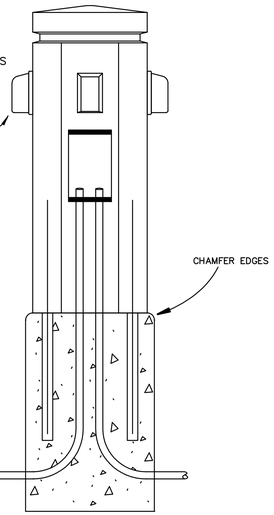
A DUPLEX GFCI–20A

B 6"W x 10"H SS ACCESS HATCH SECURED WITH 1/4"–20 18–8 TORX–SECURITY SCREWS

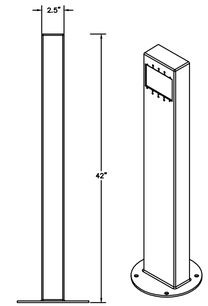


CYLINDRICAL "POWER BOLLARD" PRECEAST CONCRETE 16"DIA. x 42" H 4" WALL THICKNESS SANDBLAST FINISH. COLOR TO BE COORDINATED WITH OWNER FROM MANUFACTURER SAMPLES OR COLOR CHART.

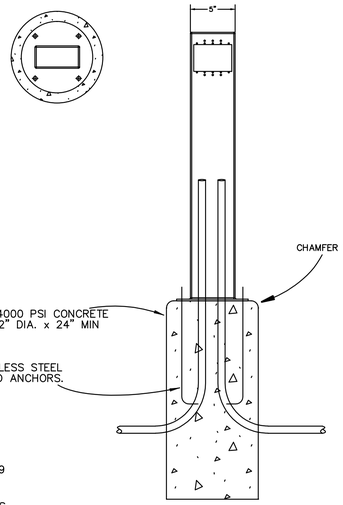
ALUMINUM IN–USE LOCKABLE SINGLE–GANG WATERPROOF COVER MULBERRY 30936 OR EQUIVALENT



PEDESTAL DETAIL C – BID ALT #2



PEDOC STAINLESS STEEL
MFR. PART # 2P42–C–B
2–GANG
42"H
POWDER COATED BLACK
INTEGRAL BASE



EACH PEDESTAL:
INSTALL TWO–GANG HUBBELL–TAYMAC 289319 IN–USE CAST ALUMINUM LOCKABLE COVER OR EQUIVALENT.

INSTALL TWO GFCI 120V/20A DUPLEX OUTLETS.

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

CIRCUIT BREAKER PANEL SCHEDULE
LOADCENTER LR

SURFACE MOUNTED
NEMA 4X ENCLOSURE

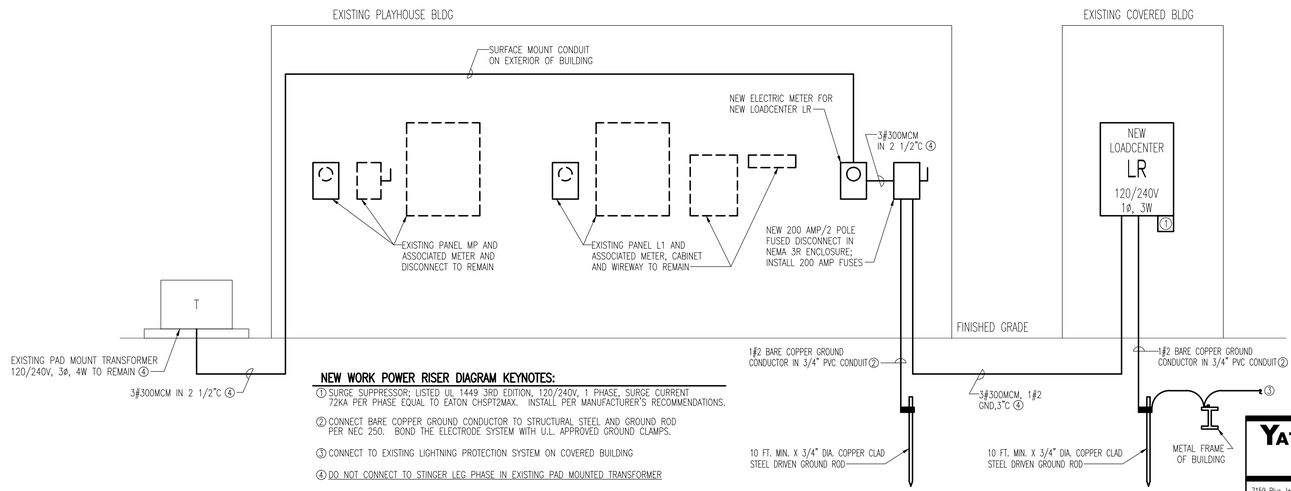
*FURNISH PANEL WITH LOCKABLE HASP

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

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.



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

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

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CONCOURSE CENTER
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PEREZ ENGINEERING & DEVELOPMENT, INC
CERTIFICATE OF AUTHORIZATION No. 8579

ORIGINAL: FEBRUARY 2014

REVISIONS: 1 2 3 4 5 6

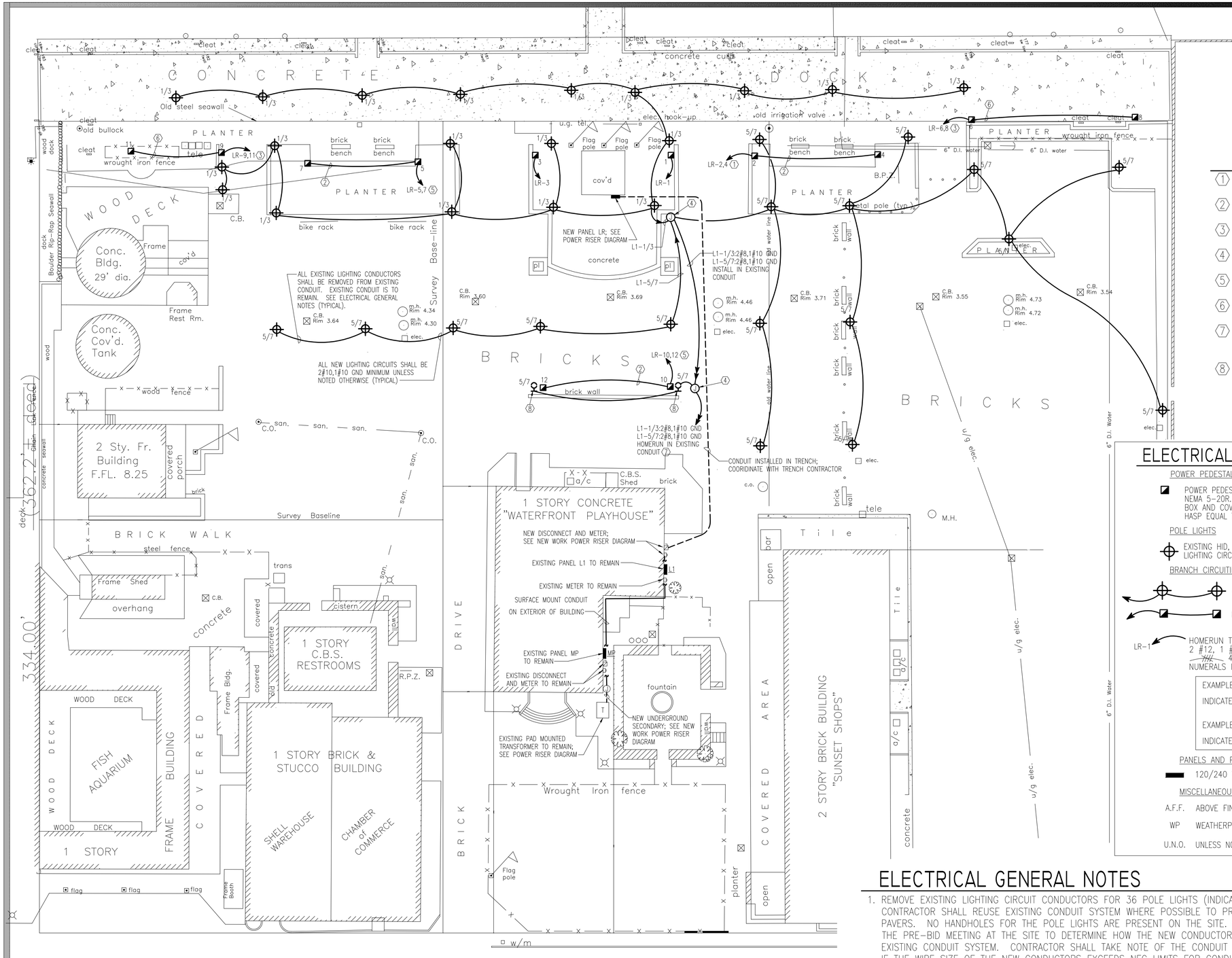
MALLORY SQUARE
ELECTRICAL UPGRADES
KEY WEST, FL 33040
DETAILS

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

YATES ENGINEERING SOLUTIONS
7159 Blue Jack Dr.
Navarre, FL 32566
FBPE Authorization No. 30242
Phone: (850)512-9579
Email: quinn@yateseng.com
FL PE No: 60826

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 04129.dwg (Model) Plotted on: May 06, 2015 - 10:20am by quinn



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. EXISTING UNDERGROUND JUCTION BOX TO REMAIN
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.

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 SITE PLAN

SCALE: 1"=20'

0 20 40 60 80 100

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.

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S:\2014 Jobs\04 Mallory Square Electrical Upgrades\DWGS FROM TERRANCE 4 29 15\E-2 Elec Site-04104429b(.dwg (Model) Plotted on: May 06, 2015 - 10:46am by quinn