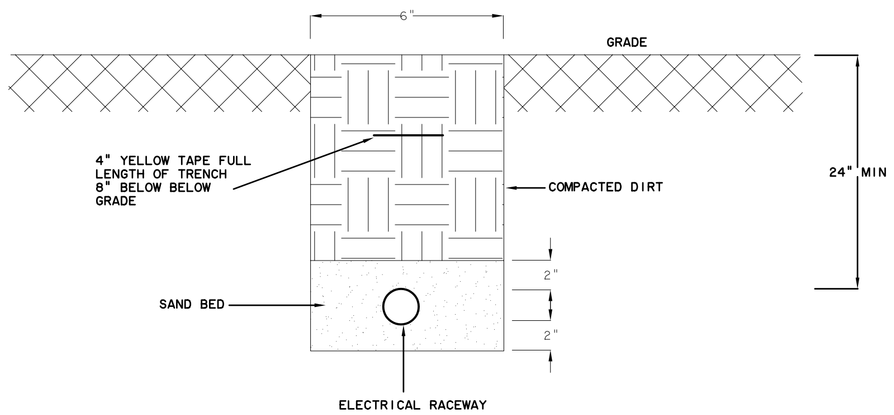
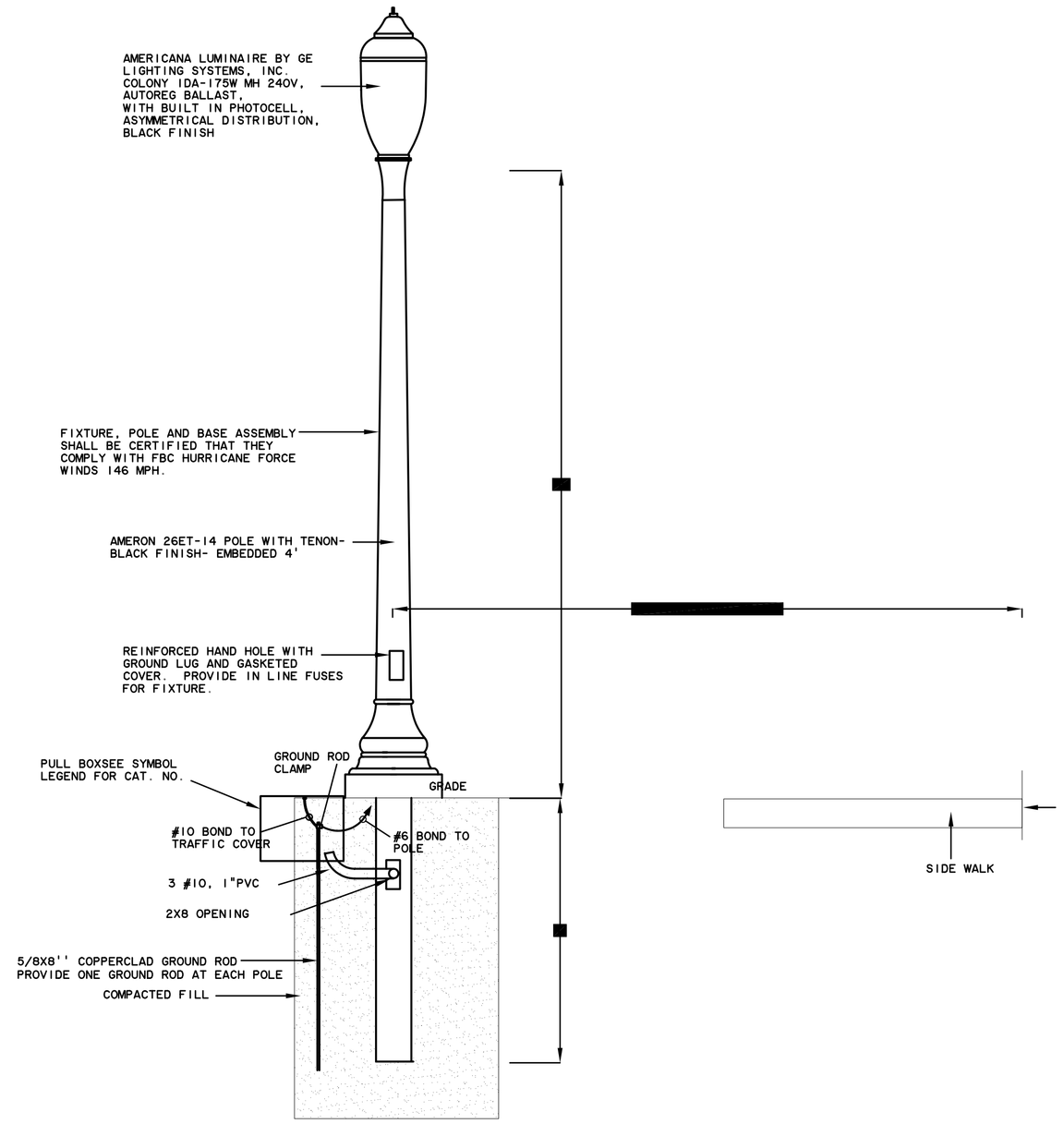



## UNDERGROUND RACEWAY DETAIL

NOT TO SCALE

1. CONTRACTOR SHALL USE DIRECTIONAL BORING WHERE EVER POSSIBLE.
2. WHERE DIRECTIONAL BORING CAN NOT BE ACCOMPLISHED, CONTRACTOR SHALL PROVIDE TRENCHING AS DETAILED AND SHALL REFILL TRENCH AND BRING BACK FINISH TO ITS ORIGINAL CONDITION.




## POST LIGHT TYPE "A"

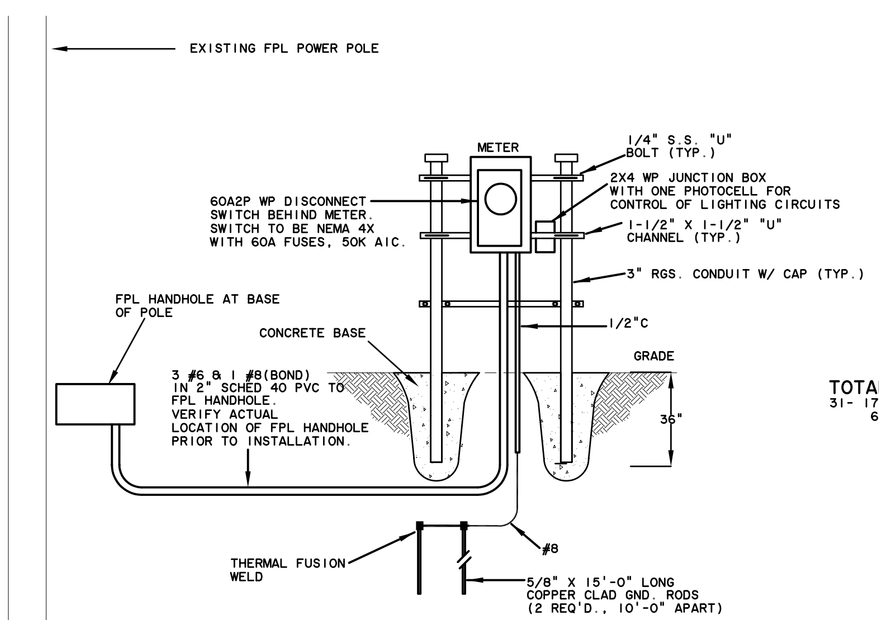
NOT TO SCALE

## ELECTRICAL NOTES

1. CONDUCTORS SHALL BE COPPER #12 THWN OR THHN MINIMUM RUN IN RIGID GALVANIZED STEEL CONDUIT, IMC OR EMT AS PERMITTED BY CODE. SCHEDULE 40 PVC, WITH BOND WIRE SIZED AS PER NEC, MAY BE USED UNDER FLOOR SLABS ON FILL OR ELSEWHERE AS NOTED ON THE PLANS ONLY. ALL RACEWAYS SHALL BE SIZED TO NATIONAL ELECTRICAL CODE ANNEX C CONDUIT FILL TABLES.
2. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED WHERE EXPOSED UP TO 4 FEET AND SUBJECT TO MECHANICAL INJURY OR IN DAMP OR WET LOCATIONS.
3. STEEL RACEWAYS INSTALLED UNDERGROUND SHALL BE PAINTED WITH TWO COATS BITUMASTIC PAINT.
4. WALL OUTLET BOXES SHALL BE 4" SQUARE. CEILING OUTLET BOXES SHALL BE 4" SQUARE OR OCTAGON.
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING DEVICES, CONDUIT, WIRING, MISCELLANEOUS SYSTEMS, ETC AS SHOWN ON PLANS OR AS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION.
7. FIXTURES AND LAMPS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
8. DISCONNECT SWITCHES SHALL BE HEAVY DUTY.
9. PROVIDE PULL STRING IN EACH EMPTY RACEWAY.
10. CONTRACTOR SHALL DO ALL CUTTING, SLEEVING, EXCAVATING AND BACKFILLING NECESSARY FOR THE INSTALLATION OF HIS EQUIPMENT AND THE PATCHING THEREAFTER.
11. CONTRACTOR SHALL INSTALL ALL STARTERS AND CONTROL DEVICES FURNISHED BY OTHER CRAFTS AND COMPLETE WIRING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND APPROVED WIRING DIAGRAMS. ELECTRICAL EQUIPMENT FURNISHED BY OTHERS WILL BE CONNECTED UNDER THIS CONTRACT, INCLUDING ALL NECESSARY WIRE, CONDUIT AND FITTINGS. CONTROL WIRING SHALL BE UNDER THE SUPERVISION OF THE SUB-CONTRACTOR FURNISHING THE EQUIPMENT.
12. ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL OR NATIONAL CODES AND WITH THE UTILITY COMPANY REGULATIONS.

## SYMBOL LEGEND

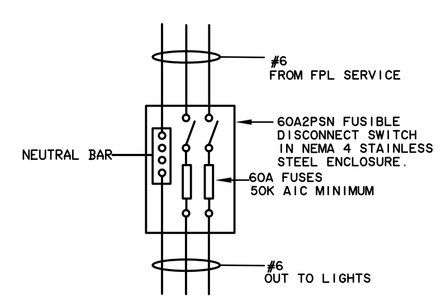
| SYMBOL | DESCRIPTION |
|---|---|
| L-15 A | POLE MOUNTED LUMINAIRE TYPE "A", L-15 DENOTES POLE #15 |
| | PULL BOX EQUAL TO QUAZITE PC1118BA18, W/PC1118HA00 COVER LABELLED "STREET LIGHTING" |




## SERVICE POINT PEDESTAL

N.T.S.

TOTAL CONNECTED LOAD
31- 175W FIXTURES @ 200VA/FIXTURE=6975VA
6975VA/240V=29 AMPERES




## SERVICE DISCONNECT SWITCH


CURRIER ASSOCIATES
CONSULTING ENGINEERS (305)446-8655
FLA LIC. #EB 0000830
CHARLES CURRIER, ELECTRICAL ENGINEER: FLA PE #11529
250 CATALONIA AVE SUITE 406 CORAL GABLES, FL 33134


| REVISIONS | |
|---|---|
| DESCRIPTION | DATE |
| 1. | |
| 2. | |
| 3. | |
| 4. | |

APPROVED BY:

DATE:


C3TS
CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
ENGINEERS· ARCHITECTS· PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AAC002142


| | |
|---|---|
| DATE: | 3/4/2009 |
| DRAWN: | SC |
| DESIGNED: | SC/CC |
| CHECKED: | RC |
| QC: | RC |
| CADD FILE: | |

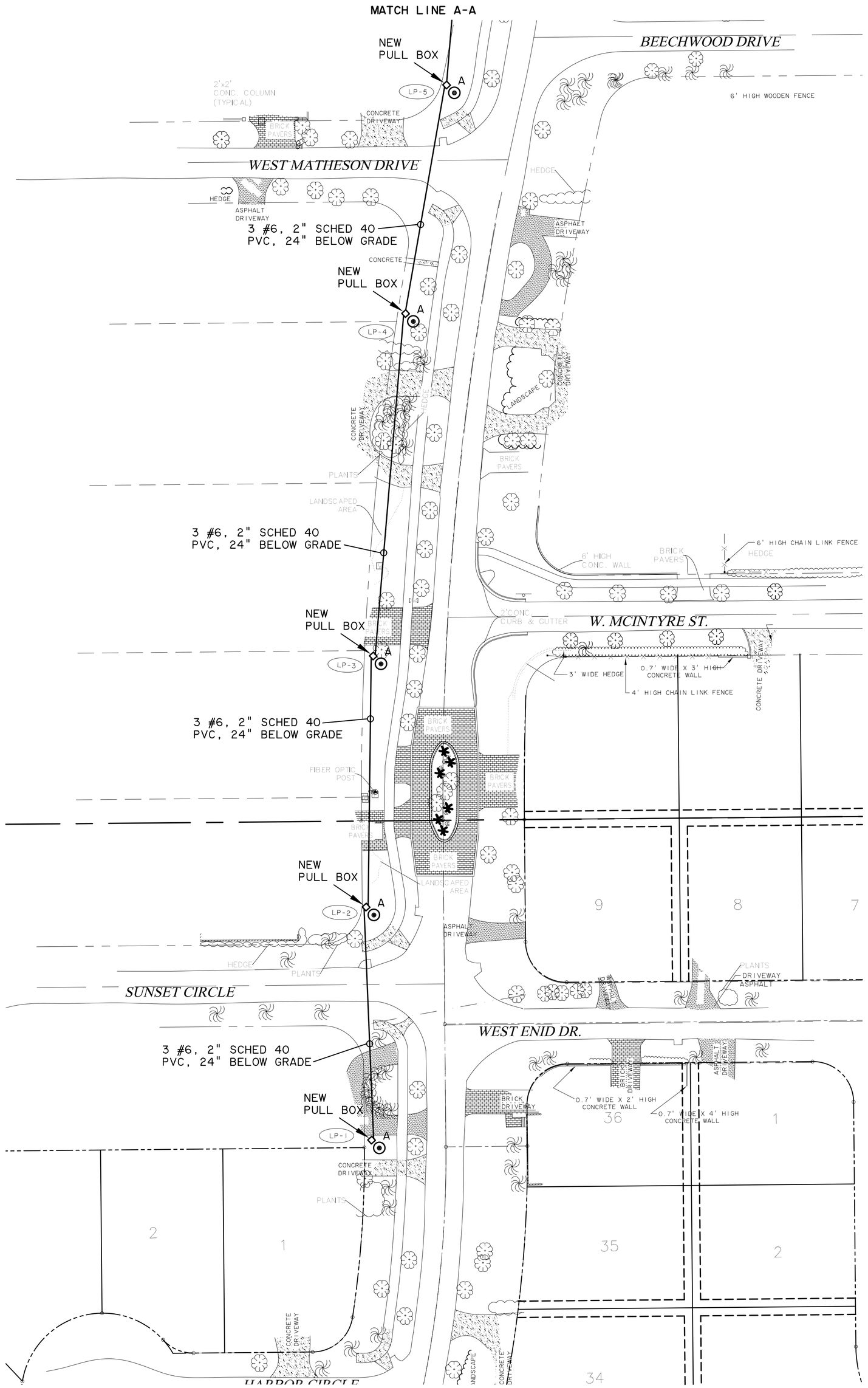
VILLAGE OF KEY BISCAYNE FLORIDA

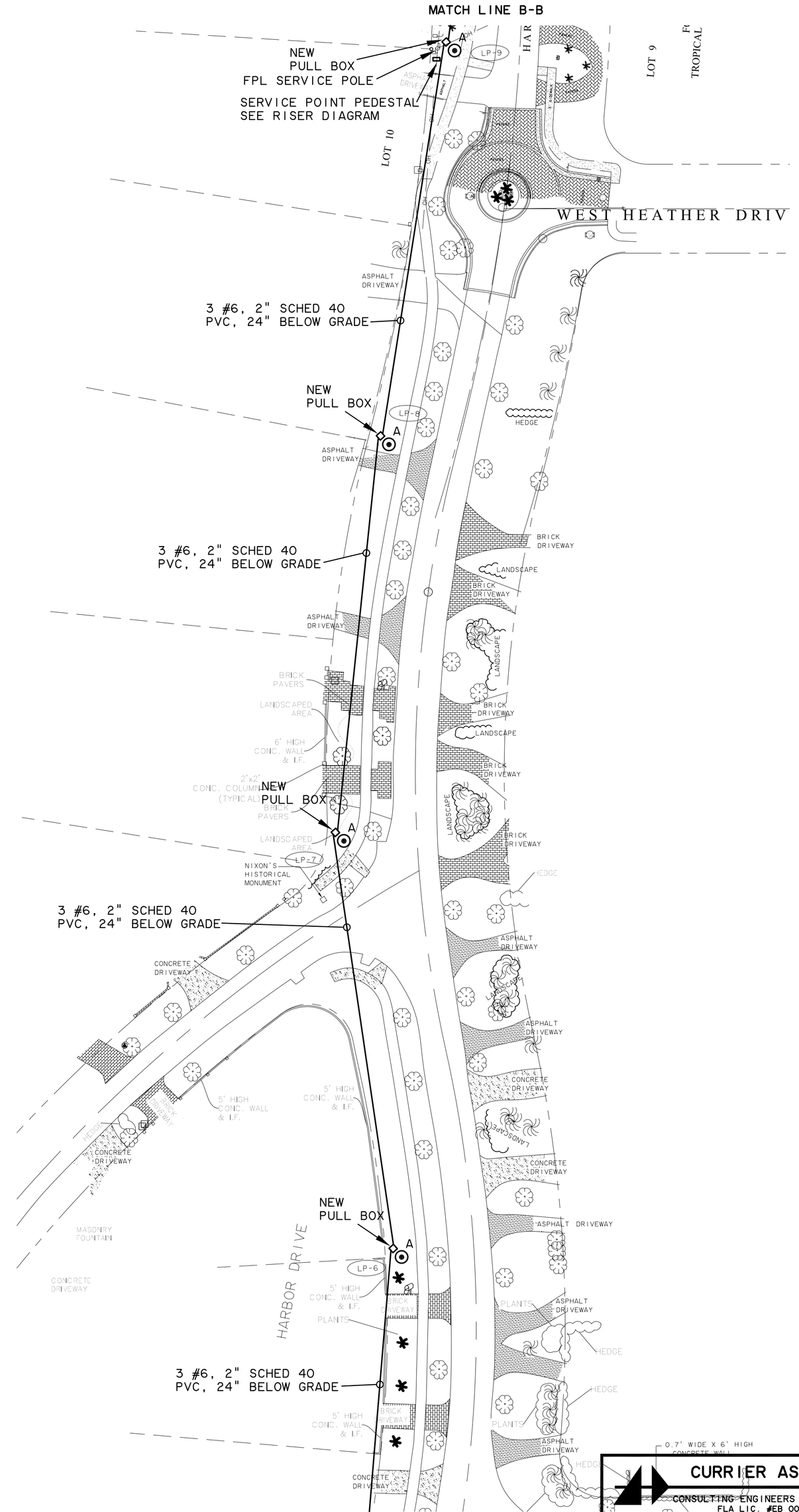
VILLAGE OF KEY BISCAYNE FLORIDA

HARBOR DRIVE IMPROVEMENTS
CYPRESS DRIVE TO W. MASHTA

01108-023

SHEET NO.
E-1




**PARTIAL PLANS**
SCALE: 1"=40'-0"

**CURRIER ASSOCIATES**
CONSULTING ENGINEERS (305)446-8655
FLA LIC. #EB 0000830
CHARLES CURRIER, ELECTRICAL ENGINEER: FLA PE #11529
250 CATALONIA AVE SUITE 406 CORAL GABLES, FL 33134

| REVISIONS | |
|---|---|
| DESCRIPTION | DATE |
| 1. | |
| 2. | |
| 3. | |
| 4. | |

APPROVED BY:

DATE:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
ENGINEERS· ARCHITECTS· PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AAC002142

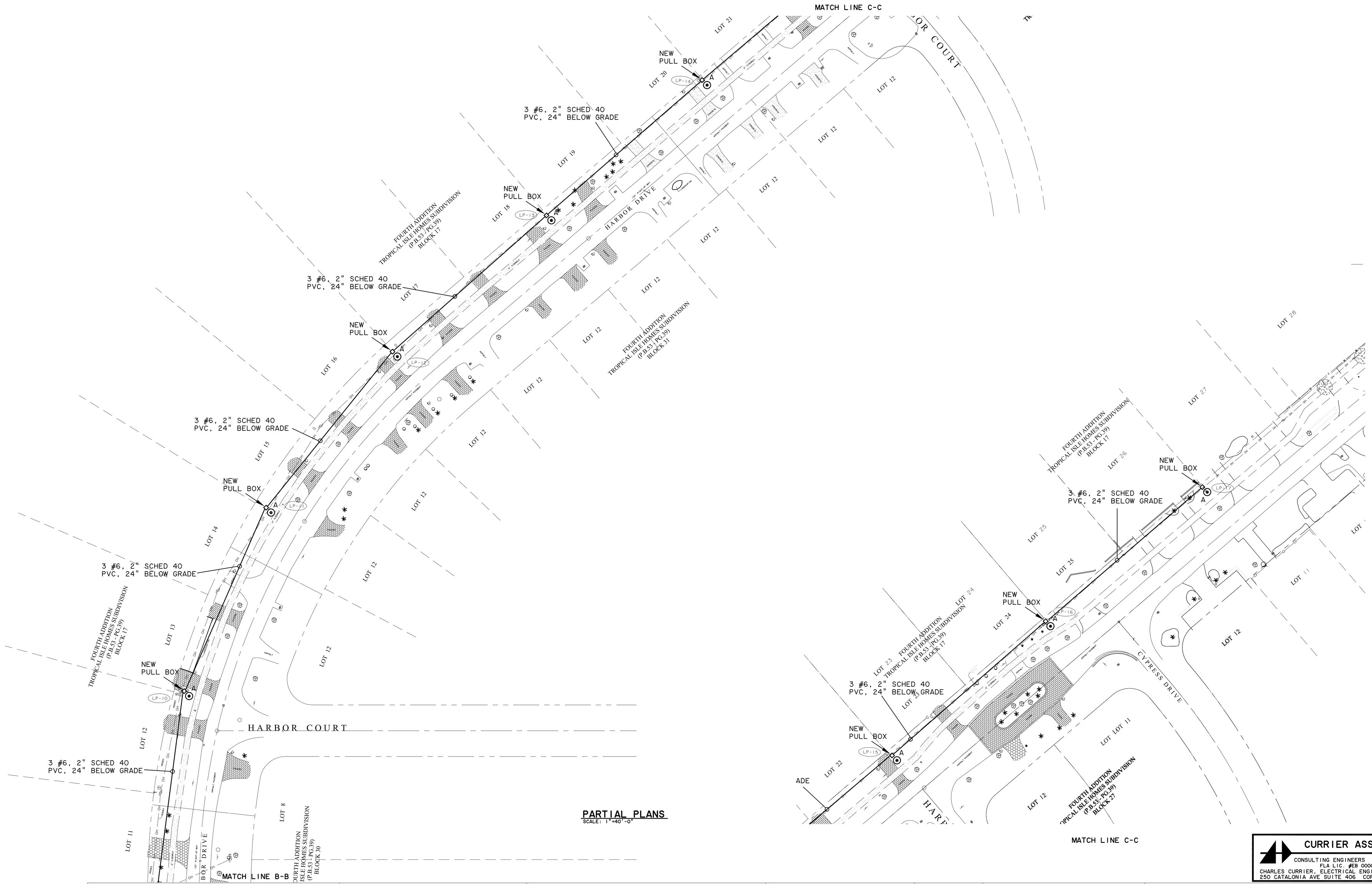
| | |
|---|---|
| DATE: | 3/4/2009 |
| DRAWN: | SC |
| DESIGNED: | SC/CC |
| CHECKED: | RC |
| QC: | RC |
| CADD FILE: | |

VILLAGE OF KEY BISCAYNE FLORIDA

HARBOR DRIVE IMPROVEMENTS
CYPRESS DRIVE TO W. MASHTA

01108-023

SHEET NO.
E-2




**PARTIAL PLANS**
SCALE: 1"=40'-0"

**CURRIER ASSOCIATES**
CONSULTING ENGINEERS (305)446-8655
FLA LIC. #EB 0000830
CHARLES CURRIER, ELECTRICAL ENGINEER: FLA PE #11529
250 CATALONIA AVE SUITE 406 CORAL GABLES, FL 33134

| REVISIONS | |
|---|---|
| DESCRIPTION | DATE |
| 1. | |
| 2. | |
| 3. | |
| 4. | |

APPROVED BY:

DATE:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
ENGINEERS · ARCHITECTS · PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AAC002142

| | |
|---|---|
| DATE: | 3/4/2009 |
| DRAWN: | SC |
| DESIGNED: | SC/CC |
| CHECKED: | RC |
| QC: | RC |
| CADD FILE: | |

VILLAGE OF KEY BISCAYNE FLORIDA

HARBOR DRIVE IMPROVEMENTS
CYPRESS DRIVE TO W. MASHTA

01108-023

SHEET NO.
E-3

A

AREA LIGHTING

# GE EDISON® V LUMINAIRE

## APPLICATIONS

- Residential roadways and walkways
- Shopping centers, malls and plazas

## SPECIFICATION FEATURES

**Suitable For Wet Locations**

- Terminal Board standard for simplified wiring
- Twist Lock photoelectric receptacle available
- GE designed and built ballast with proven long life and reliability
- Powder coat paint available in 188 RAL colors
- Crowns, ribs and finials available — see decorative post top accessories page A-55
- Ornamental heavy gage cast aluminum base
- Optional 120v Simplex receptacle available
- E39 Mogul base socket standard where lamp is available in mogul base (E26 Medium base socket otherwise)
- Luminaire shipped as components: Base, Optical
- Removable aluminum ballast canister with key slots and electrical disconnect which provides easy access to the ballast, capacitor and plug-in ignitor
- Easily removable door for access to terminal board and PE receptacle
- Accepts 8" globes

## ORDERING NUMBER LOGIC

| EDVX<br>PRODUCT IDENT | 10<br>WATTAGE | S<br>LIGHT SOURCE | 1<br>VOLTAGE | N<br>BALLAST TYPE** | 1<br>PE FUNCTION | 1CB<br>GLOBE TYPE** | S<br>IFS DISTRIBUTION TYPE** | BLCK<br>COLOR | XXX<br>OPTIONS |
|---|---|---|---|---|---|---|---|---|---|
| EDVX= 8" Edison Luminaire<br>EDVF = 8" Edison Luminaire Finial Ready*<br>*Order Finial Separately | 05 =50<br>07 =70<br>10 =100<br>15 =150 (55V) | S = HPS<br>P = PMH<br>Standard Lamp not included. | 60Hz<br>0 = 120/208/240/277 Multivolt<br>1 = 120<br>5 = 480<br>D = 347<br>F = 120X347 | See Ballast and Photometric Selection Tables**<br>A = Autoreg<br>H = HPF Reactor or Lag<br>N = NPF Reactor or Lag | 1 = None<br>2 = PE Receptacle | 1AC = Traditional Prismatic (Polycarbonate & Acrylic) 1BC = Colonial Prismatic (Polycarbonate & Acrylic)<br>1CB = Traditional Standard (Polycarbonate)<br>1DA = Colony (Acrylic with spun aluminum top)<br>1KD = 18" Impression (White Polycarbonate)<br>1PB = Revival (Polycarbonate)<br>1MA = Colony with crown and ribs installed (Acrylic with spun aluminum top) | See Ballast and Photometric Selection Tables**<br>A = Asymmetric<br>S = Symmetric | ALUM = Aluminum<br>BLCK = Black<br>BRWN = Brown<br>CHGR = Charcoal Gray<br>DKBZ = Dark Bronze<br>FGRN = Forest Green<br>GRAY = Gray<br>WHITE = White | R = Simplex Outlet 120V unit only |

**See Photometric Selection Tables starting on Page A-70.

SHOP DRAWING REVIEW

☒ Approved
☐ Approved As Noted
☐ Resubmit
☐ Not Approved

Corrections or comments made on the shop drawings during this review do not relieve contractor form compliance with requirements of the drawings, specifications, and with the contract documents. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions; coordinating the fabrication processes and techniques of construction; coordinating the work with that of all other trades; and performing the work in a safe and satisfactory manner.

C3TS

Date: 1/11/10 By: AC

Project No.: 01108-023

Submittal No.:



GE Lighting Systems, Inc.
www.gelightingsystems.com

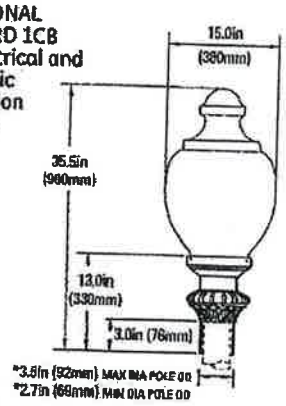
# GE EDISON®V LUMINAIRE

## FIXTURE DIMENSIONS

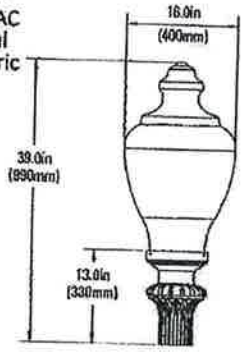
A

AREA LIGHTING

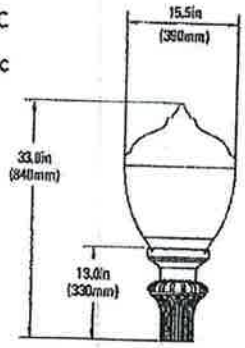
TRADITIONAL STANDARD 1CB Asymmetrical and Symmetric Distribution available



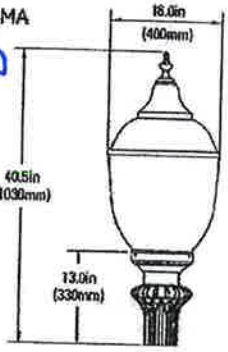

TRADITIONAL PRISMATIC 1AC Asymmetrical and Symmetric Distribution available



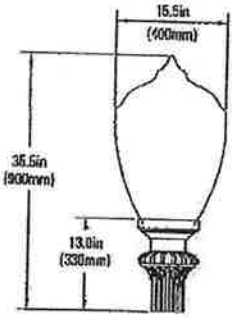

COLONIAL PRISMATIC 1BC Asymmetrical and Symmetric Distribution available



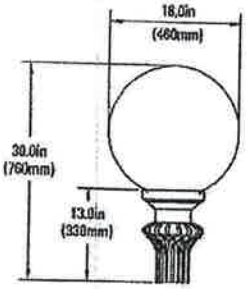

COLONY 1DA, 1MA Asymmetrical and Symmetric Distribution available




REVIVAL 1PB Symmetric Distribution only




IMPRESSION 1KD (18") Symmetric Distribution only




## DATA

| | | |
|---|---|---|
| Approximate Weight | 21-25 lbs | 10-11 kgs |
| Suggested Mounting Height | 10-16 ft. | 3-5 M |
| Effective Projected Area | 1.6 sq ft max | 0.15 sq M max |

## BALLAST SELECTION TABLE

All light sources are clear unless otherwise indicated.

| | | Ballast Type/Voltage | | | | |
|---|---|---|---|---|---|---|
| | | 60Hz | | | | |
| Wattage | Light Source | 120 | 347 120x347 | Multivolt | 480 | 120x240 |
| 50 | HPS | H, N | H, N | H, N | N/A | N/A |
| 70 | HPS | A, H, N | H, N | H, N | H, N | N/A |
| 100 | HPS | A, H, N | H, N | H, N | H, N | N/A |
| 150(55V) | HPS | A, H, N | H, N | H, N | H, N | N/A |
| 70 | PMH | H, N | H, N | H, N | H, N | N/A |
| 100 | PMH | H, N | H, N | N | H, N | N/A |
| 150 | PMH | H, A | H | N/A | N/A | A, H |

NOTE: N/A = Not Available

### REFERENCES


See Page A-64 for start of Accessories.
See Page A-68 for Explanation of Options and Other Terms Used.
See Pages A-70 through A-74 for Photometry.
See Page P-2 Pole and Bracket Section for pole selection.

# STREETDREAMS™ AND DECORATIVE POST TOP ACCESSORIES

*REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT.*
*ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.*

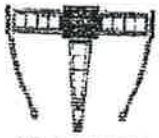
A

AREA LIGHTING

## CROWN AND RIB

- SD-CR-M-BL Medallion
- SD-CR-S-BL Scroll
- SD-C-M-BL Crown only Medallion

SD-C-M-BL


SD-CR-M-BL

SD-CR-S-BL

## FINIAL

- FNLBL-ACN
- FNLBL-BLS
- FNLBL-FDL
- FNLBL-FIL
- FNLBL-SIL
- FNLBL-SPK
- FNLBL-OAK
- FNLBL-STP
- FNLBL-GTH

FNLBL-ACN
ACORN

FNLBL-BLS
BLOSSOM

FNLBL-FDL
FLEUR-DE-LIS

FNLBL-FIL
FILAGREE

FNLBL-SIL
SILHOUETTE

FNLBL-SPK
SPIKE

FNLBL-OAK
OAK

FNLBL-STP
STEEPLE

FNLBL-GTH
GOTHIC

## HOUSE & TOP SIDE SHIELD

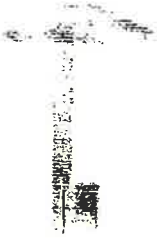
- ILS-SD-HTS MOG
- ILS-SD-HTS MED

ILS-SD-HTS

## HOUSE SIDE

- ILS-SD-HS MOG
- ILS-SD-HS MED

ILS-SD-HS


ILS-SD-TS

## TOP SIDE

- ILS-SD-TS MOG
- ILS-SD-TS MED

## SPILL LIGHT CONTROL LOUVER SYSTEM

- SD-LVR-ASYM
- SD-LVR-SYM
- SD-LVR-ASYM-HS
- SD-LVR-SYM-HS

SD-LVR-ASYM

SD-LVR-SYM

SD-LVR-ASYM-HS
SD-LVR-SYM-HS

GE Lighting Systems, Inc.
www.gelightingsystems.com

# DECORATIVE POST TOP ACCESSORIES

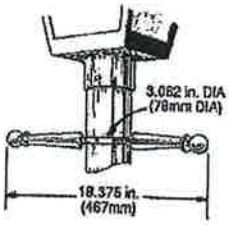
*REFER TO ACCESSORY INDEX TO MATCH ACCESSORY WITH PRODUCT. ILLUSTRATIONS SHOWN ARE TYPICAL REPRESENTATIONS.*

A

AREA LIGHTING

## LADDER REST

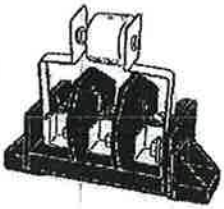
- **LR-TC**
  Heavy cast aluminum for 3-inch (76mm) OD pole
  For decorative use only




LR-TC

## LINE SURGE PROTECTOR, EXPULSION TYPE

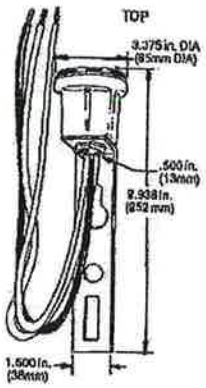
- **35-411749R01**
  Can be added to many fixture terminal boards.
  (Terminal Board not included.)



35-411749R01

## MOUNTING BRACKET (For PE)

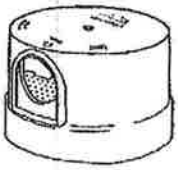
- **MB-PECTL**
  With locking-type receptacle for use with photoelectric control
  (Remove bracket to use with conduit.)




MB-PECTL

## PHOTOELECTRIC CONTROL

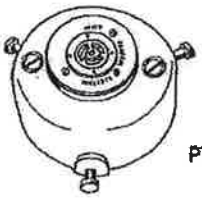
- **PEC0TL**
  120, 208, 240, 277, Multivolt—Turn and Lock
- **PEC1TL**
  120 volt—Turn and Lock
- **PEC5TL**
  480 volt—Turn and Lock



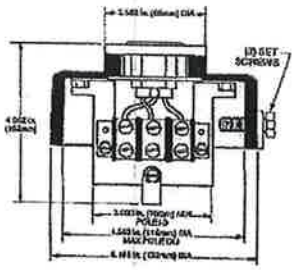
PEC

## POLE TOP ADAPTER (For PE Receptacle)

- **PTA-PECTL**

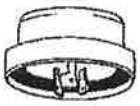


PTA-PECTL



## SHORTING CAP (With standard three-prong plug)

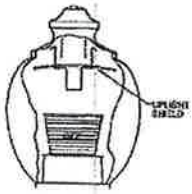
- **SCCL-PECTL**



SCCL-PECTL

## UPLIGHT SHIELD

- **ULS-L3ED**



ULS-L3ED

Langan
Engineering and Environmental Services, Inc.

# LOG OF BORING B-3

SHEET 1 OF 2

| | | | |
|---|---|---|---|
| PROJECT | PROPOSED DRAINAGE AND WELL SYSTEM | PROJECT NO. | 6025101 |
| LOCATION | Village of Key Biscayne, FL | ELEVATION AND DATUM | Approx. el. +4.1 |
| DRILLING AGENCY | TMD Services, Inc. | DATE STARTED 4:15 12/13/93 | DATE FINISHED 12/13/93 |
| DRILLING EQUIPMENT | MOBILE DRILL B-53 ATV RIG | COMPLETION DEPTH 30 ft | ROCK DEPTH 19 ft |
| SIZE AND TYPE OF BIT | 2 7/8 in ϕ TRICONE ROLLER BIT | NO. SAMPLES DIST. 12 | UNDIST. – CORE – |
| CASING | DRILLING MUD IN LIEU OF CASING | WATER LEVEL FIRST 5 ft. | COMPL. – 24 HR. – |
| CASING HAMMER | WEIGHT – DROP – | FOREMAN | TONY MARTIN |
| SAMPLER | 2 in O.D. Split Spoon | | |
| SAMPLER HAMMER | WEIGHT 140 lbs. DROP 30 in | INSPECTOR | TONY NICHLANY |

| SAMPLE DESCRIPTION | DEPTH SCALE | SAMPLES NO. LOC. | TYPE | RECOV. FT. | PENETR. RESIST BL/6 in. | N-Values | REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) |
|---|---|---|---|---|---|---|---|
| Asphalt-2 in<br>Light-tan SAND & LIMEROCK | | | | | 14 | | 1st attempt hit [illegible] outfall |
| Grey silty fine SAND, some peat | 1 | S1 | SS | 1.4 | 10<br>6<br>7 | 16 | 2nd attempt completed [illegible] of original location<br>Sample is dry |
| Tannish grey silty fine SAND, trace of rock fragments | 2<br>3 | S2 | SS | .8 | 6<br>5<br>2 | 3 | Sample is moist |
| Grey fine sandy SILT | 4 | S3A | SS | 1.5 | 1<br>1<br>1 | 2 | Sample is wet. |
| Dark-brown fiborous PEAT | 5 | S3B | | | | | |
| Dark-brown fiborous PEAT, some sand | 6<br>7 | S4 | SS | 2.0 | 1<br>0<br>1 | 1 | |
| Tannish-grey shelly fine SAND, trace peat fibers | 8<br>9 | S5A<br>S5B | SS | 1.2 | 1<br>1<br>5<br>7 | 6 | |
| | 10 | | | | | | Moderately soft drilling |
| | 11<br>12 | | | | | | |
| | 13 | | | | | | Change inferred from decrease in rate of roller bit advance @ d = 12.5 ft. |
| Dark grey shelly f-m SAND | 14 | S6 | SS | 2.8 | 3<br>4<br>7 | 11 | |



GES-18

Langan
Engineering and Environmental Services, Inc.

JOB NO. 6025101
DATE 12/14/03

LOG OF BORING NO. B-3

SHEET 2 OF 2

| SAMPLE DESCRIPTION | DEPTH SCALE | SAMPLES NO.LOC. | TYPE | RECOV. FT. | PENETR. RESIST BLS/in. | REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) |
|---|---|---|---|---|---|---|
| | | | | | | Moderate drilling |
| | 16 | | | | | |
| | 17 | | | | | |
| | 18 | | | | | |
| Grey shelly fine SAND, trace root fibers | | 57A | SS | 1.3 | 2 3 | |
| Tan oolitic LIMEROCK | 19 | 57B | | | 9 12 | 12 |
| | 20 | | | | | |
| | | | | | | Moderate drilling Slight chatter |
| | 21 | | | | | |
| | 22 | | | | | |
| | 23 | | | | | |
| Light-tan oolitic LIMEROCK | 24 | 58 | SS | 1.5 | 7 7 8 9 | 15 |
| | 25 | | | | | |
| | | | | | | Moderate drilling |
| | 26 | | | | | |
| | 27 | | | | | Chattery |
| | 28 | | | | | |
| Grey-tan fine SAND, some cemented sand | 29 | 59 | SS | 1.2 | 4 3 5 4 | 8 |
| BORING TERMINATED @ d=30 ft | 30 | | | | | Backfill hole with drillcuttings upon boring completion. |

Langan
Engineering and Environmental Services, Inc.

LOG OF BORING B-4 SHEET 1 OF 2

| | | | |
|---|---|---|---|
| PROJECT | PROPOSED DRAINAGE AND WELL SYSTEM | PROJECT NO. | 6025101 |
| LOCATION | Village of Key Biscayne, FL | ELEVATION AND DATUM | Approx. cl + 5.1 |
| DRILLING AGENCY | TMS Services, Inc. | DATE STARTED 12:10 pm 12/13/93 | DATE FINISHED 12/13/93 |
| DRILLING EQUIPMENT | MOBILE DRILL B-53 ATV RIG | COMPLETION DEPTH 20 ft | ROCK DEPTH Not found |
| SIZE AND TYPE OF BIT | 2 7/8 in ø TRICONE ROLLER BIT | NO. SAMPLES DIST. 10 | UNDIST. – CORE – |
| CASING | DRILLING MUD IN LIEU OF CASING | WATER LEVEL FIRST 6.5 ft | COMPL. – 24 HR. – |
| CASING HAMMER | WEIGHT – DROP – | FOREMAN | TONY MARTIN |
| SAMPLER | 2 in O.D. Split Spoon | INSPECTOR | TONY NICHLANY |
| SAMPLER HAMMER | WEIGHT 140 lbs. DROP 30 in | | |

| SAMPLE DESCRIPTION | DEPTH SCALE | SAMPLES NO.LOC. | TYPE | RECOV. FT. | PENETR. RESIST BLS/6 in. | N-Values | REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) |
|---|---|---|---|---|---|---|---|
| Asphalt - 2 in<br>Tan SAND & LIMEROCK | 1 | S1 | SS | 1.0 | 16 5 9 8 | 14 | |
| Tan fine SAND | 2 | S2A | SS | 1.5 | 5 4 4 5 | 8 | Sample is dry. |
| Tan sandy SILT trace of shell | 3 | S2B | | | | | |
| Dark brown organic SAND trace of shells | 4 | S3A | SS | 1.8 | 2 2 5 7 | 7 | Sample is moist |
| Greyish tan fine silty SAND lense of organic sand | 5 | S3B | | | | | |
| Tannish-grey silty fine SAND, trace shells | 6 | S4A | SS | 2.0 | 5 10 15 15 | 25 | Sample is wet |
| | 7 | S4B | | | | | |
| Grey shelly fine SAND | 8 | S5 | SS | 2.0 | 6 13 15 11 | 28 | |
| | 9 | | | | | | |
| | 10 | | | | | | |
| | 11 | | | | | | |
| | 12 | | | | | | |
| | 13 | | | | | | |
| Grey shelly fine SAND | 14 | S6 | SS | 1.0 | 7 7 8 | 15 | |

CFS-20

Langan
Engineering and Environmental Services, Inc.

JOB NO. 6025101

DATE 12/14/93

LOG OF BORING NO. B-4

SHEET 2 OF 2

| SAMPLE DESCRIPTION | DEPTH SCALE | SAMPLES NO.LOC. | TYPE | RECOV. FT. | PENETR. RESIST BLS/6 in. | REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) |
|---|---|---|---|---|---|---|
| | 16 | | | | | Moderate drilling |
| | 17 | | | | | |
| | 18 | | | | | |
| Grey shelly fine SAND | 19 | S7 | SS | 1.2 | 10 13 11 15 | 24 |
| BORING TERMINATED @ d=20 ft | 20 | | | | | Backfill hole with drill cuttings upon boring complete |