

Phase 4 Neighborhood Streets



DRAWING LEGEND

- COVER SHEET**
GMD SHEET KEY MAP
E1- PLAN DRAWING
E2- PLAN DRAWING
E3- PLAN DRAWING
E4- PLAN DRAWING
E5- PLAN DRAWING
E6- PLAN DRAWING
E7- PLAN DRAWING
E8- PLAN DRAWING
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E28- PLAN DRAWING
E29- PLAN DRAWING
E30- PLAN DRAWING

REVISIONS:

DATE	DWG "(S)"	DESCRIPTION

CONTRACTOR SHALL VERIFY ALL PLAN & EXISTING DIMENSIONS & CONDITIONS ON THE ROUTE BEFORE PROCEEDING WITH THE WORK AND IS RESPONSIBLE FOR SAME

UTILITIES SHOWN ON PLANS ARE APPROXIMATE LOCATIONS AND WERE ACQUIRED FROM THE BEST AVAILABLE DATA AND REASONABLY OBTAINED BY PHYSICAL FIELD SURVEY.

RECLAIMED	YES
WATER MAIN	YES
SEWER - F/M	YES
ELECTRIC	YES
CATV	YES
GAS	YES
TELEPHONE	YES

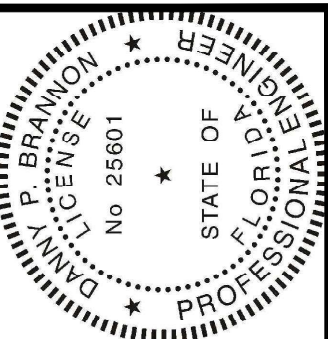
CALL BEFORE YOU DIG



**DIAL 811 or
1-800-292-8525
www.call811.com**

TWO FULL BUS. DAYS BEFORE YOU DIG

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION AS THE LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND POSSIBLY INCOMPLETE. THEREFORE CERTIFICATION TO THE LOCATION OF ALL UNDERGROUND UTILITIES IS WITH HELD.



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Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601
DATE

Town of Longboat Key

Brannon & Gillespie, LLC
Consulting Engineers

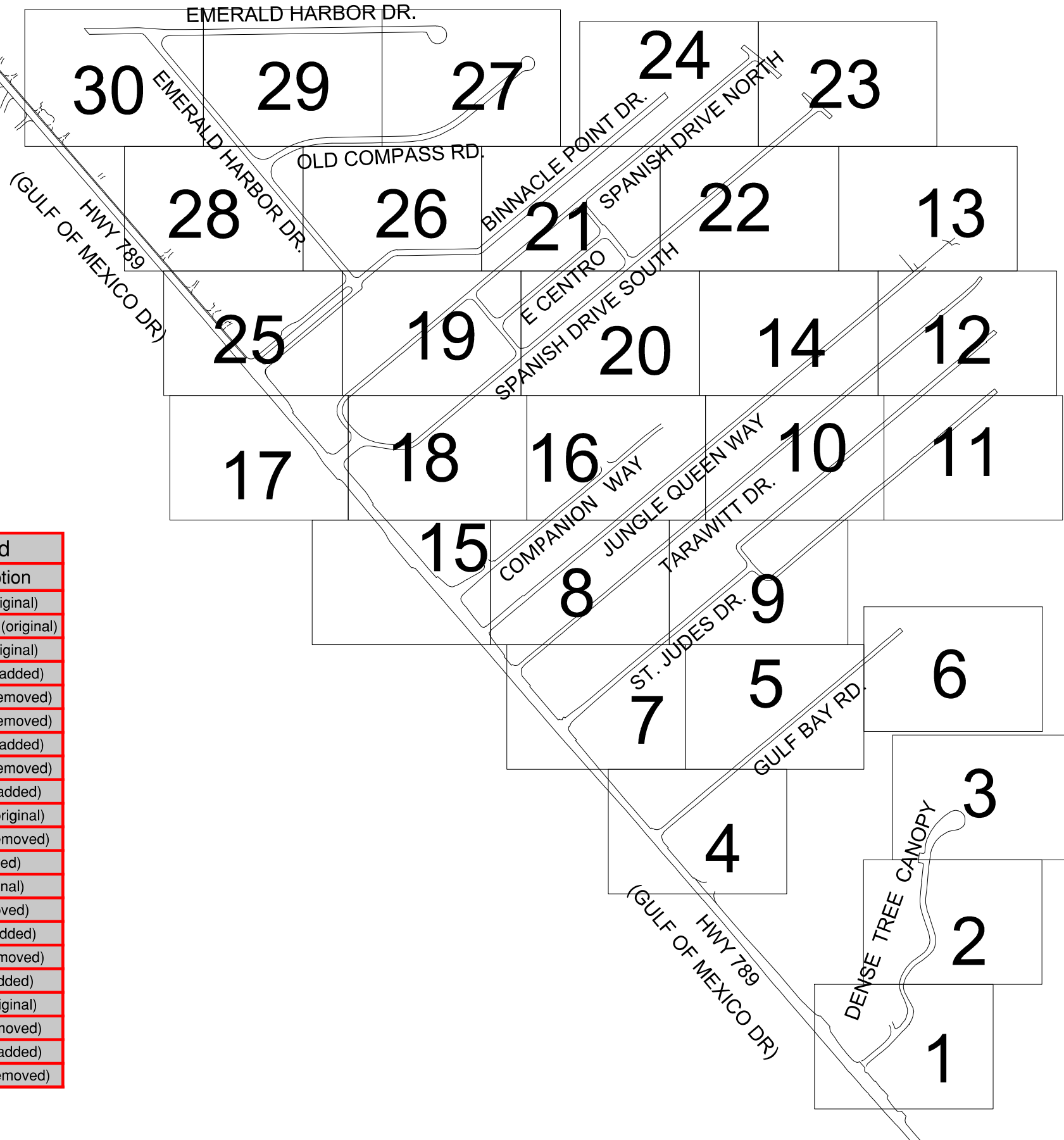
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North Palm Beach, Florida 33408
(561) 847-4435 CA# 6784

DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

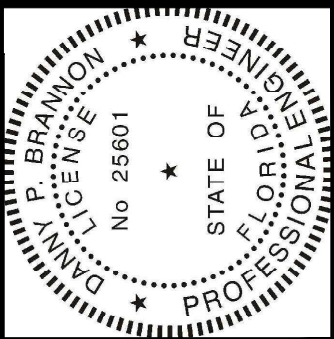


Date: 12/01/2019
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK
Sheet
COVER SHEET

Legend
Description
1 Fiber (original)
1 Fiber+1 SL (original)
2 Fiber (original)
Fiber 1-2" (added)
Fiber 1-2" (removed)
Fiber 1-2" (removed)
Fiber 2-2" (added)
Fiber 2-2" (removed)
Fiber HH (added)
Fiber HH (original)
Fiber HH (removed)
SL (added)
SL (original)
SL (removed)
SL 1-2" (added)
SL 1-2" (removed)
SL HH (added)
SL HH (original)
SL HH (removed)
SL Panel (added)
SL Panel (removed)



SYMBOL LEGEND	
	CENTERLINE
	EDGE OF PAVEMENT
	RIGHT OF WAY
	SIDEWALK
	PROPOSED CONDUIT
	SANITARY SEWER
	OVERHEAD LINES
	PROPERTY LINES
	SURVEY CONTROL POINT
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND
	IRON ROD FOUND
	NAIL AND DISC FOUND
	UTILITY POLE (WOOD)
	UTILITY POLE (CONCRETE)
	GUY WIRE
	SANITARY MANHOLE
	CLEANOUT
	GRATE INLET
	STORMWATER MANHOLE
	MITERED END SECTION
	UTILITY MANHOLE
	GAS LINE MARKER
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	BACKFLOW PREVENTER
	TRANSFORMER
	CABLE MARKER
	GAS VALVE / METER
	LIGHT POLE
	LANDSCAPE LIGHT
	BOLLARD
	SIGN
	UTILITY RISER / PEDESTAL
	CONTROL PANEL
	TRAFFIC / PEDESTRIAN CONTROL
	IRRIGATION VALVE
	GUY POLE
	SERVICE BOX (ELECTRIC)
	SERVICE BOX (CABLE)
	SERVICE BOX (TELEPHONE)
	MAILBOX
	PROPOSED HANDHOLE
	PROPOSED STREET LIGHT
	EXISTING STREET POST LIGHT
	EXISTING STREET POST LIGHT WITH STREET SIGN
	PROPOSED STREET LIGHT PANEL

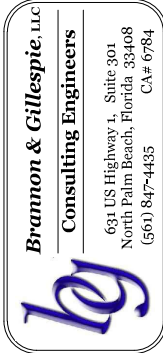


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LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

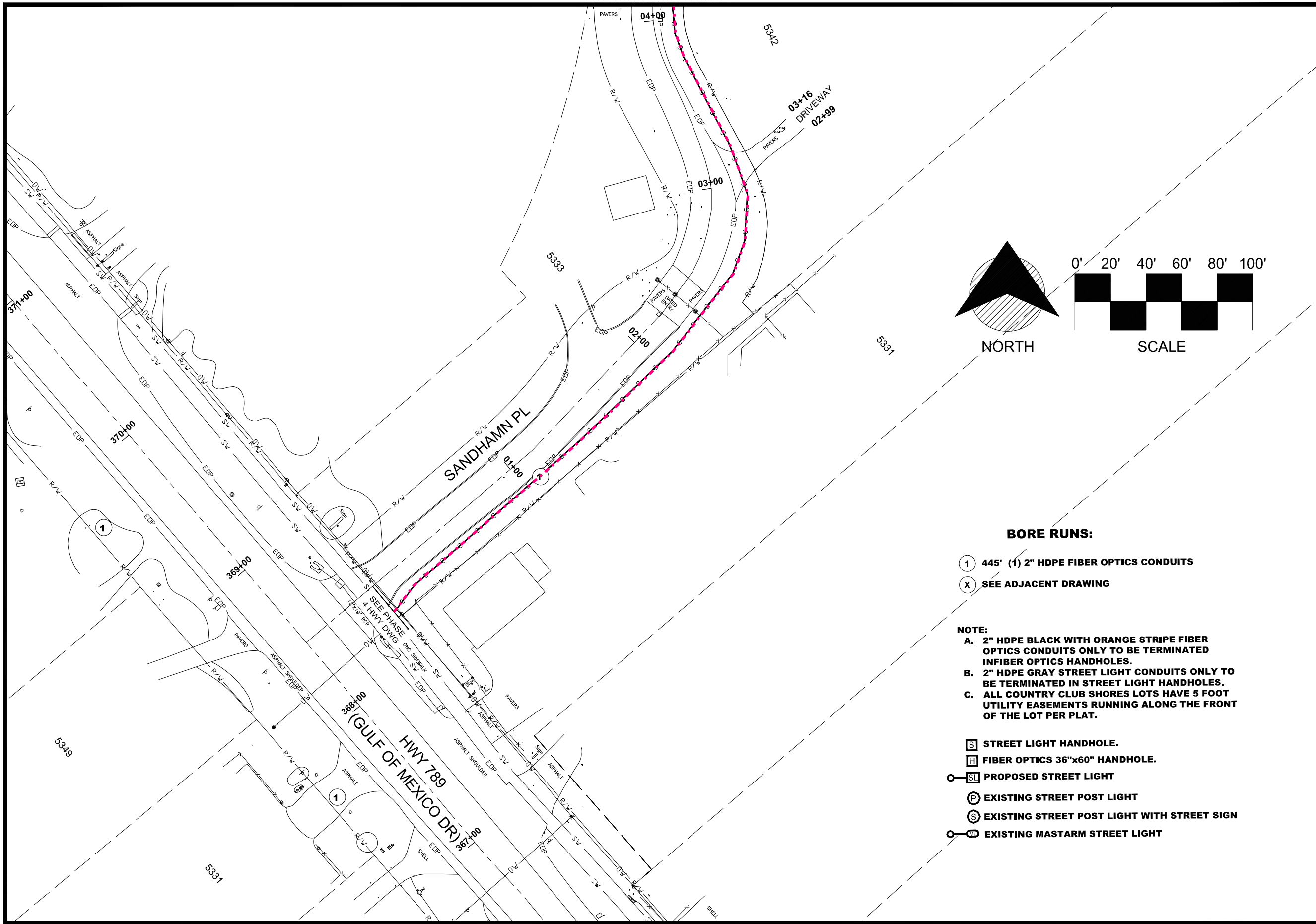


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Job #	2014-LBK

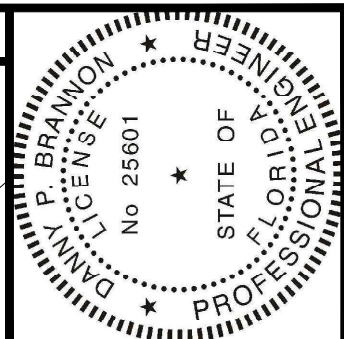
Sheet

C1

MATCHLINE-STA 04+09
FOR CONTINUATION SEE SHEET 2



- BORE RUNS:**
- ① 445' (1) 2" HDPE FIBER OPTICS CONDUITS
 - X SEE ADJACENT DRAWING
- NOTE:**
- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
 - B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
 - C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.
- STREET LIGHT HANDHOLE.
□ FIBER OPTICS 36"x60" HANDHOLE.
□ PROPOSED STREET LIGHT
○ EXISTING STREET POST LIGHT
○ EXISTING STREET POST LIGHT WITH STREET SIGN
○ EXISTING MASTARM STREET LIGHT

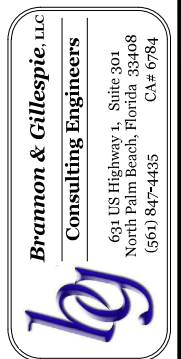


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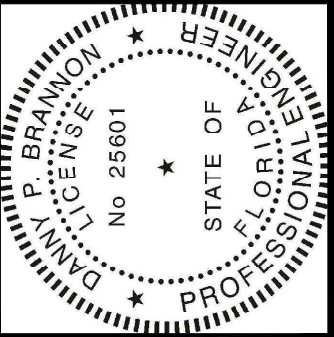
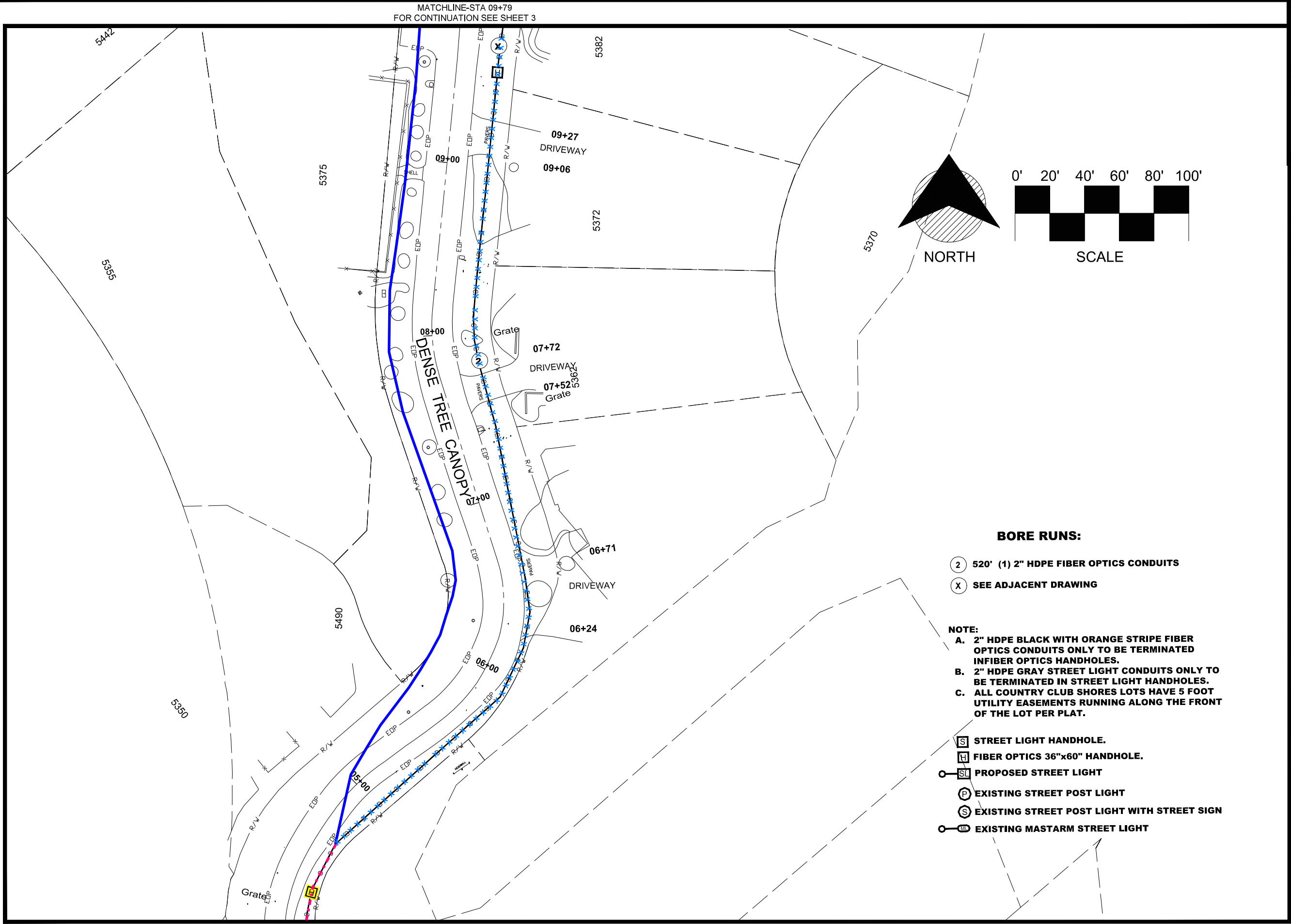
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION
LONGBOAT KEY, FLORIDA



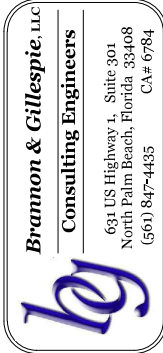
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Town of Longboat Key

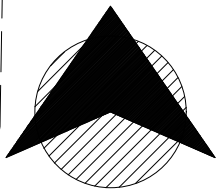
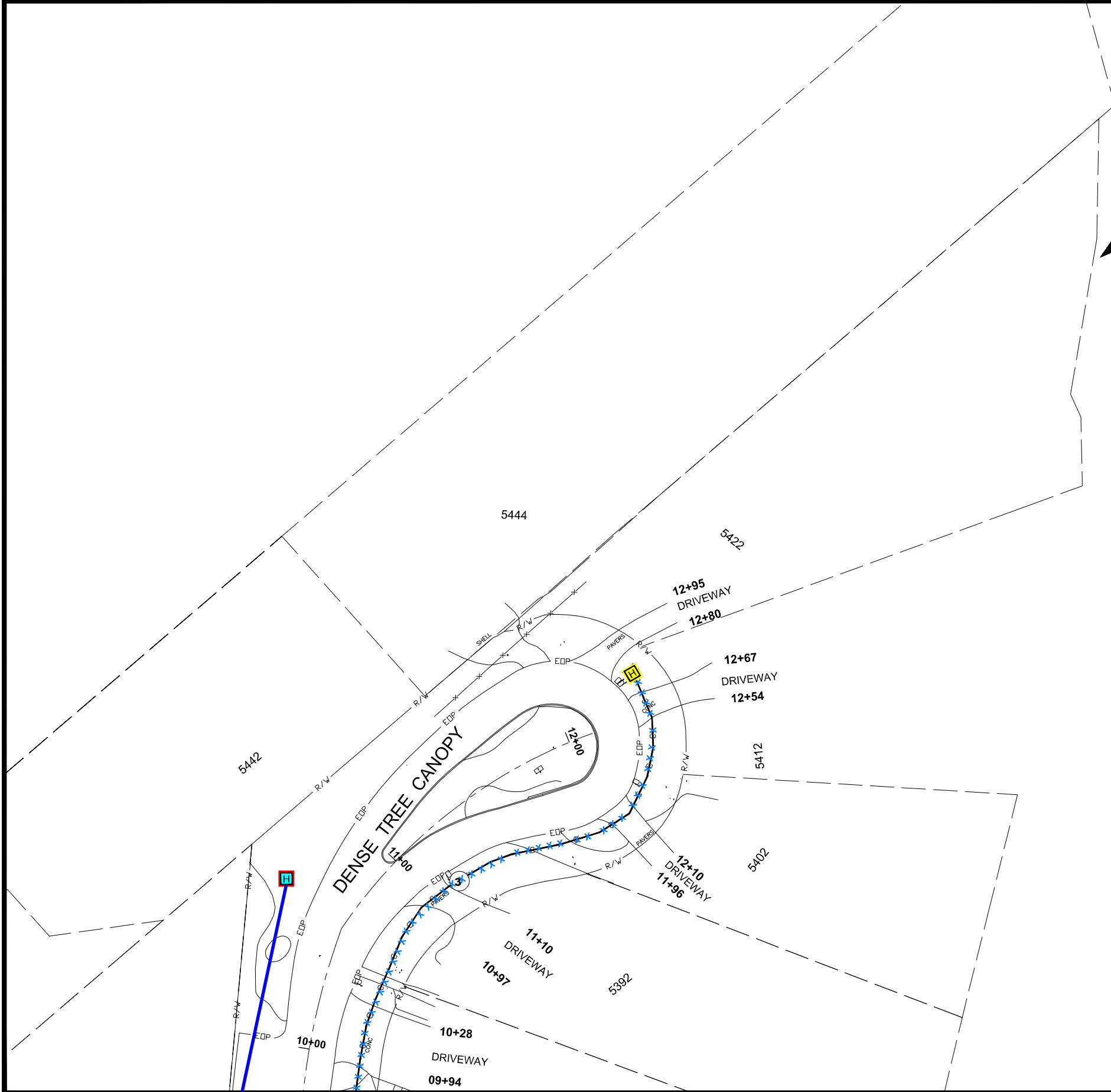


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

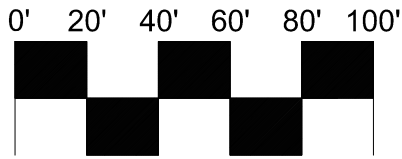


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Job # 2014-LBK

Sheet
E2 OF 30



NORTH



SCALE

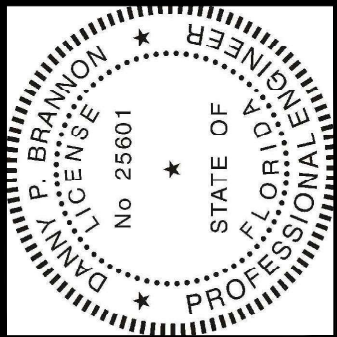
BORE RUNS:

- 3 295' (1) 2" HDPE FIBER OPTICS CONDUITS
- X SEE ADJACENT DRAWING

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [ML] EXISTING MASTARM STREET LIGHT

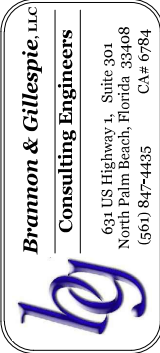


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LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

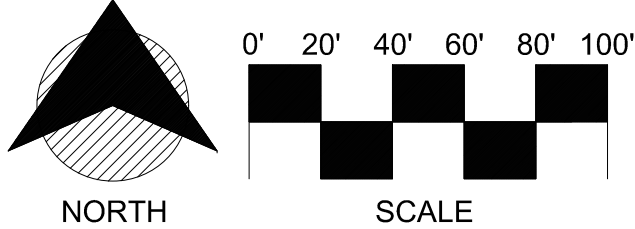
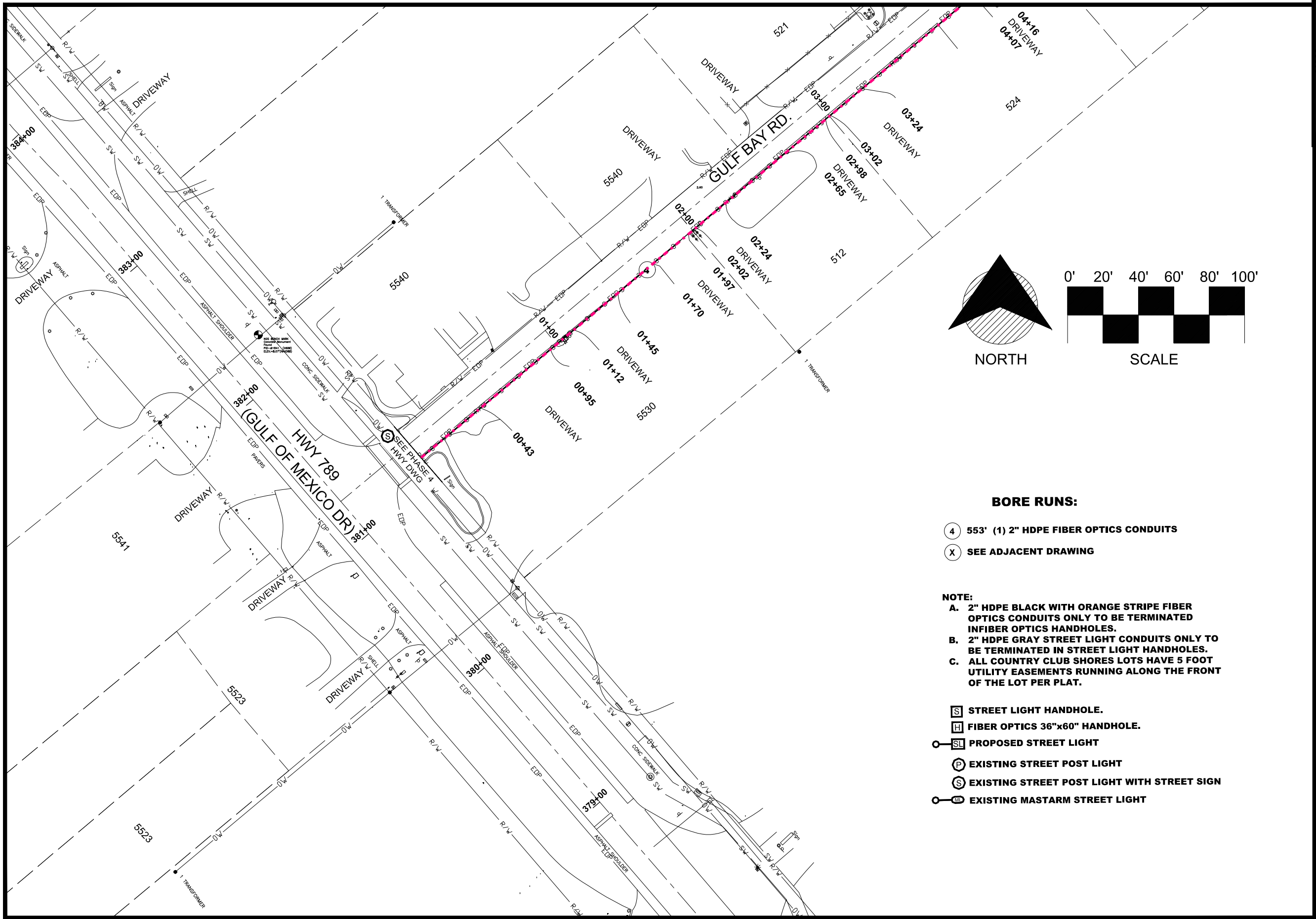


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Job # 2014-LBK

Sheet

E3 OF 30

MATCHLINE-STA 03+87
FOR CONTINUATION SEE SHEET 5

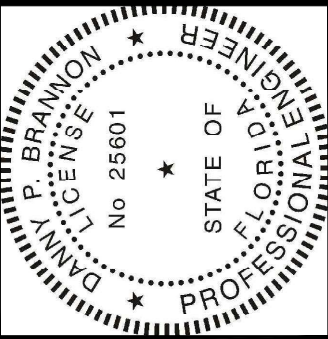


BORE RUNS:

- 4 553' (1) 2" HDPE FIBER OPTICS CONDUITS
- X SEE ADJACENT DRAWING

NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [ML] EXISTING MASTARM STREET LIGHT

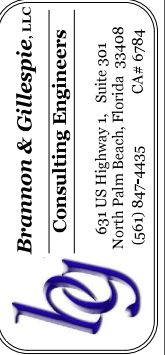


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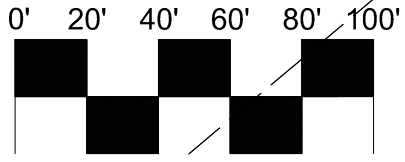
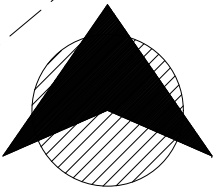
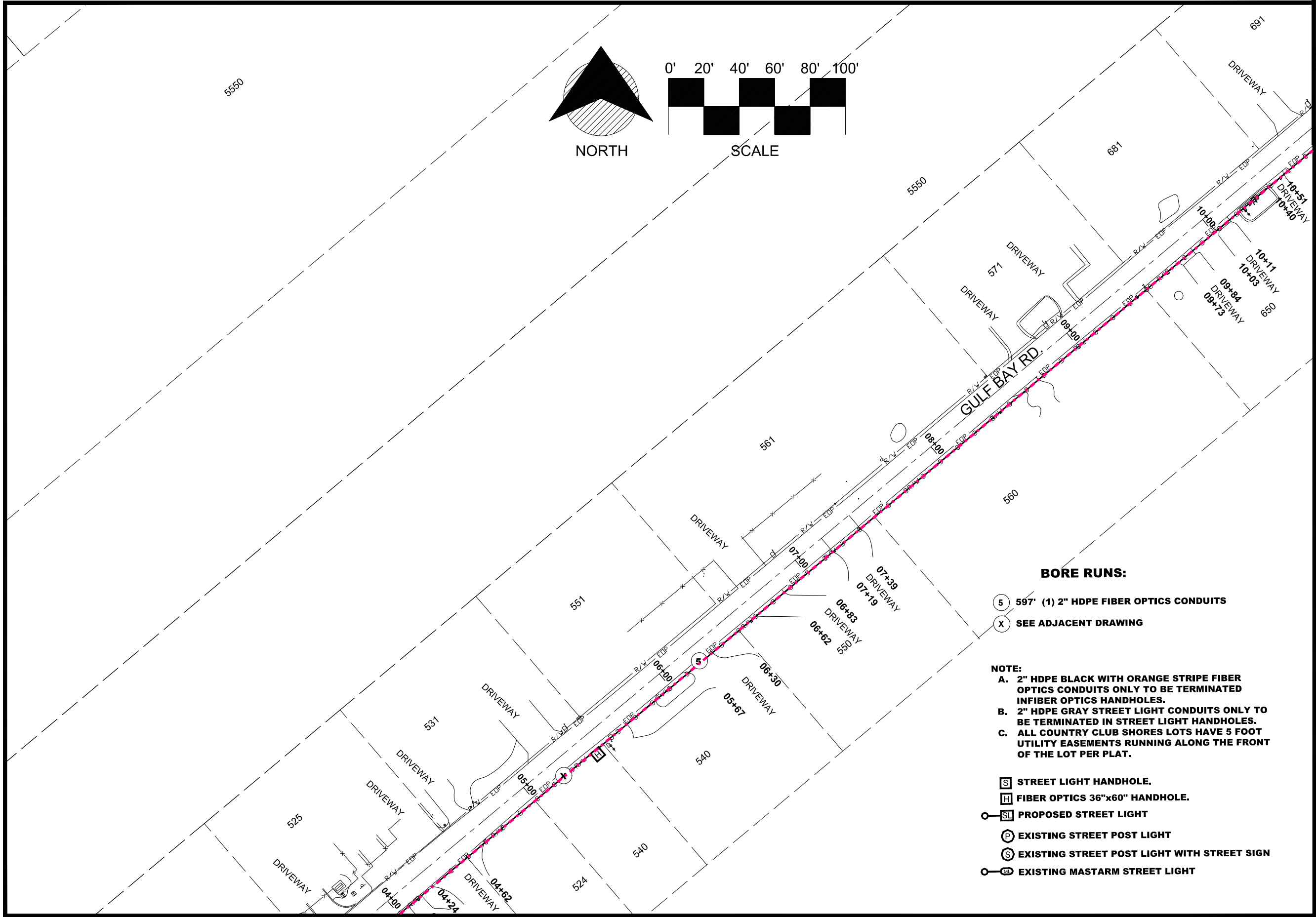
Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date:	12/01/2019
Scale:	AS NOTED
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Job #	2014-LBK
Sheet	E4 OF 30



NORTH

SCALE

BORE RUNS:

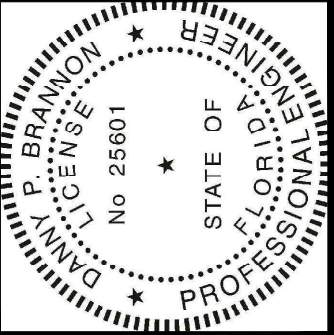
- (S) 597' (1) 2" HDPE FIBER OPTICS CONDUITS
- (X) SEE ADJACENT DRAWING

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [ML] EXISTING MASTARM STREET LIGHT

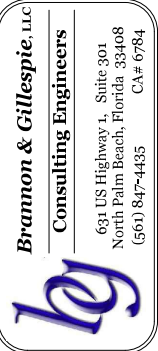
MATCHLINE-STA 10+82
FOR CONTINUATION SEE SHEET 6



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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

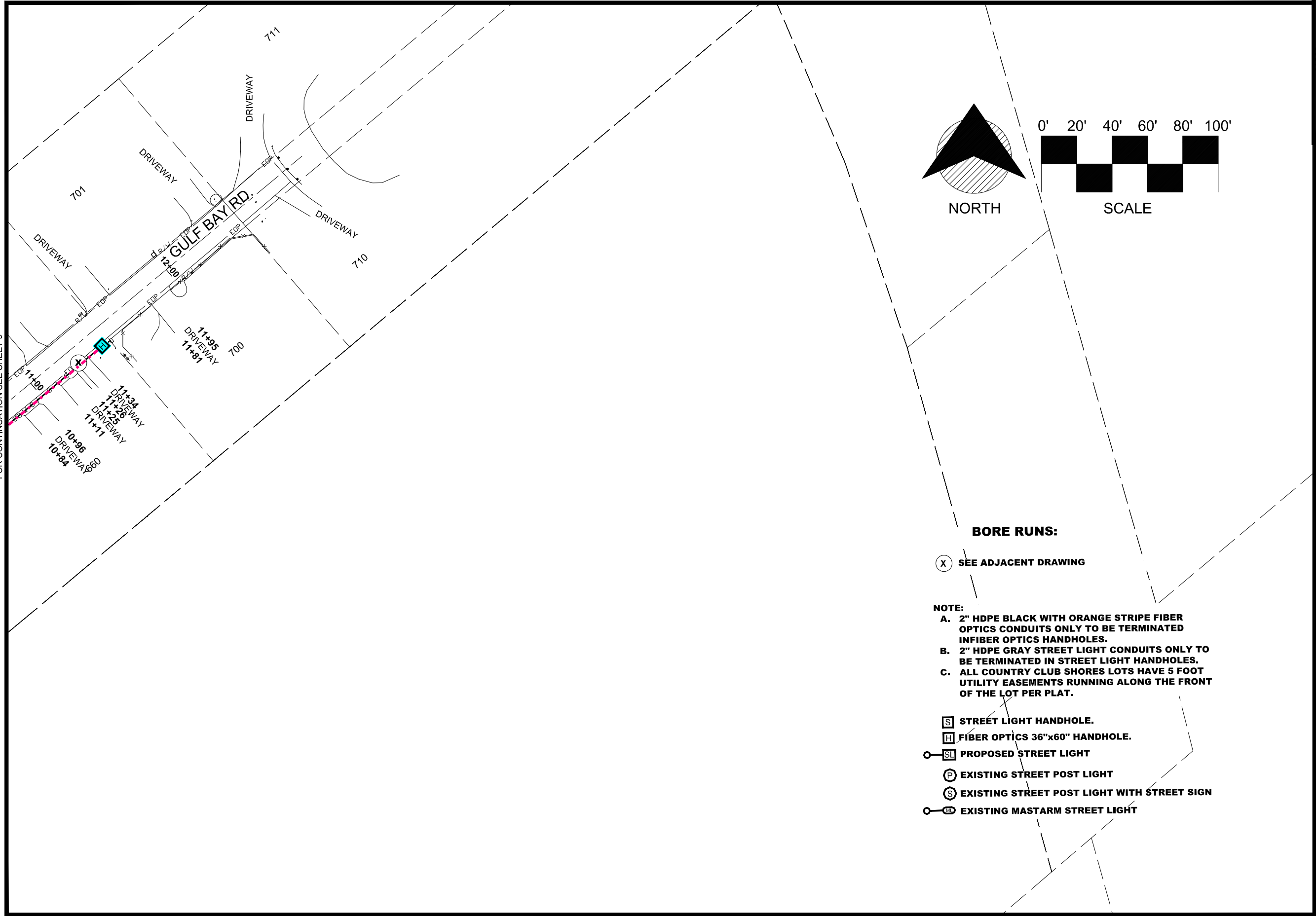


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Job # 2014-LBK

Sheet
E5 OF 30

MATCHLINE-STA 03+87
FOR CONTINUATION SEE SHEET 4

MATCHLINE-STA 10+82
FOR CONTINUATION SEE SHEET 5



BORE RUNS:

(X) SEE ADJACENT DRAWING

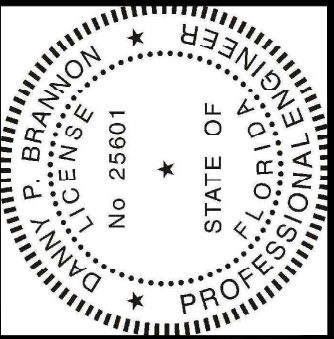
NOTE:

A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED INFIBER OPTICS HANDHOLES.

B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- (S) STREET LIGHT HANDHOLE.
- (H) FIBER OPTICS 36"x60" HANDHOLE.
- (SL) PROPOSED STREET LIGHT
- (P) EXISTING STREET POST LIGHT
- (S) EXISTING STREET POST LIGHT WITH STREET SIGN
- (ML) EXISTING MASTARM STREET LIGHT

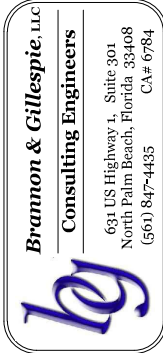


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LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



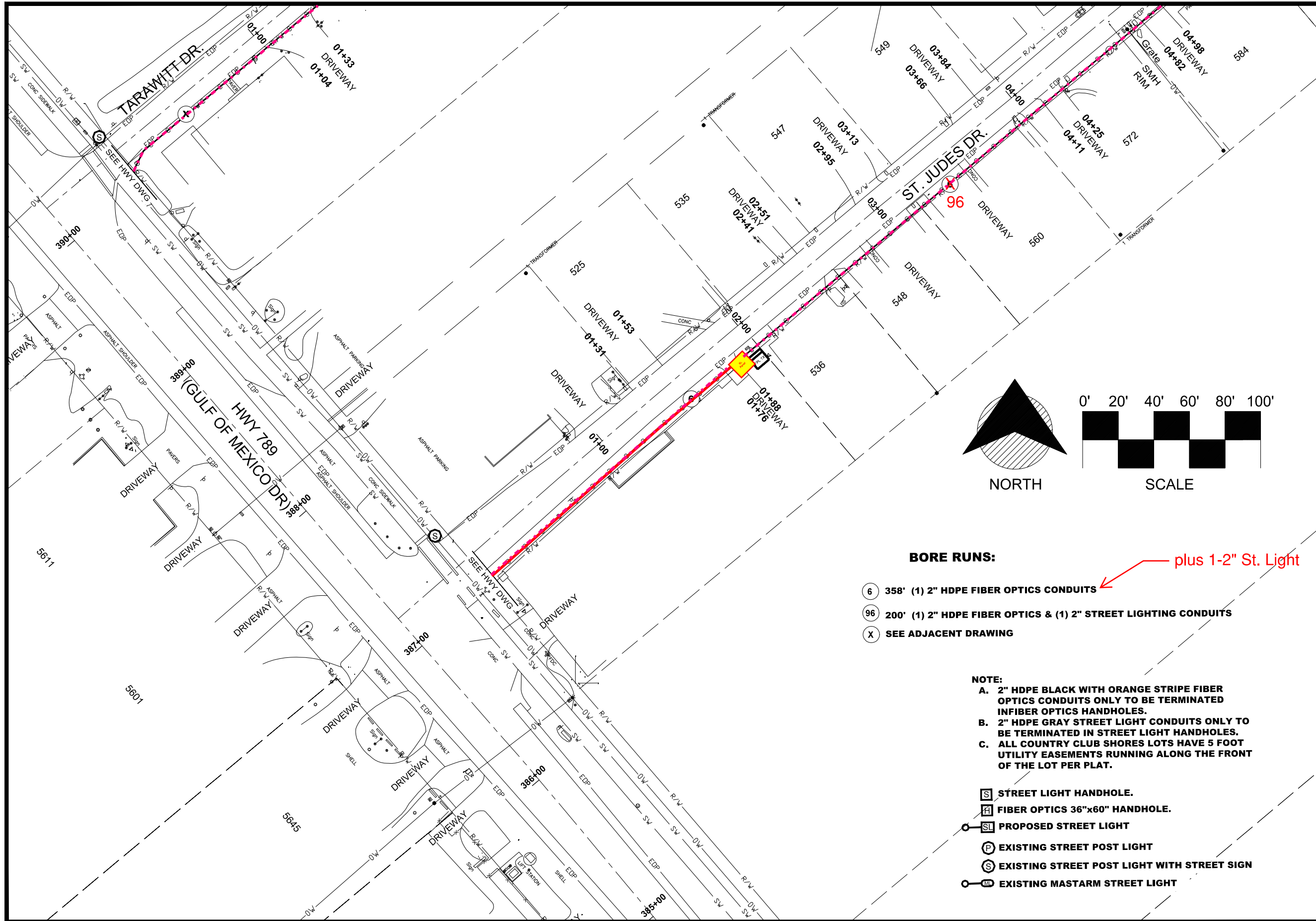
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Checked: DPB
Job # 2014-LBK

Sheet

E6 OF 30

MATCHLINE-STA 01+28
FOR CONTINUATION SEE SHEET 8

MATCHLINE-STA 04+82
FOR CONTINUATION SEE SHEET 8



BORE RUNS:

- 6 358' (1) 2" HDPE FIBER OPTICS CONDUITS
- 96 200' (1) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHTING CONDUITS
- X SEE ADJACENT DRAWING

NOTE:

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- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

STREET LIGHT HANDHOLE.

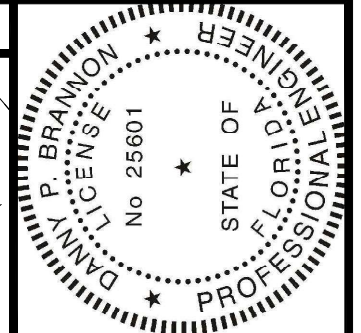
FIBER OPTICS 36"x60" HANDHOLE.

PROPOSED STREET LIGHT

EXISTING STREET POST LIGHT

EXISTING STREET POST LIGHT WITH STREET SIGN

EXISTING MASTARM STREET LIGHT

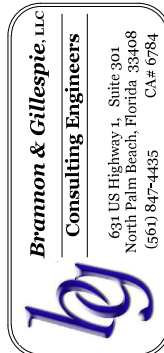


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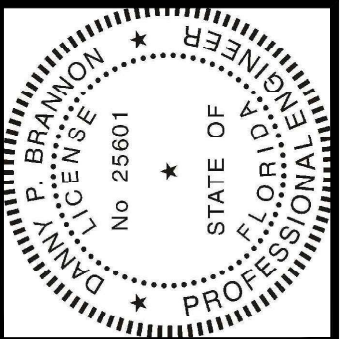
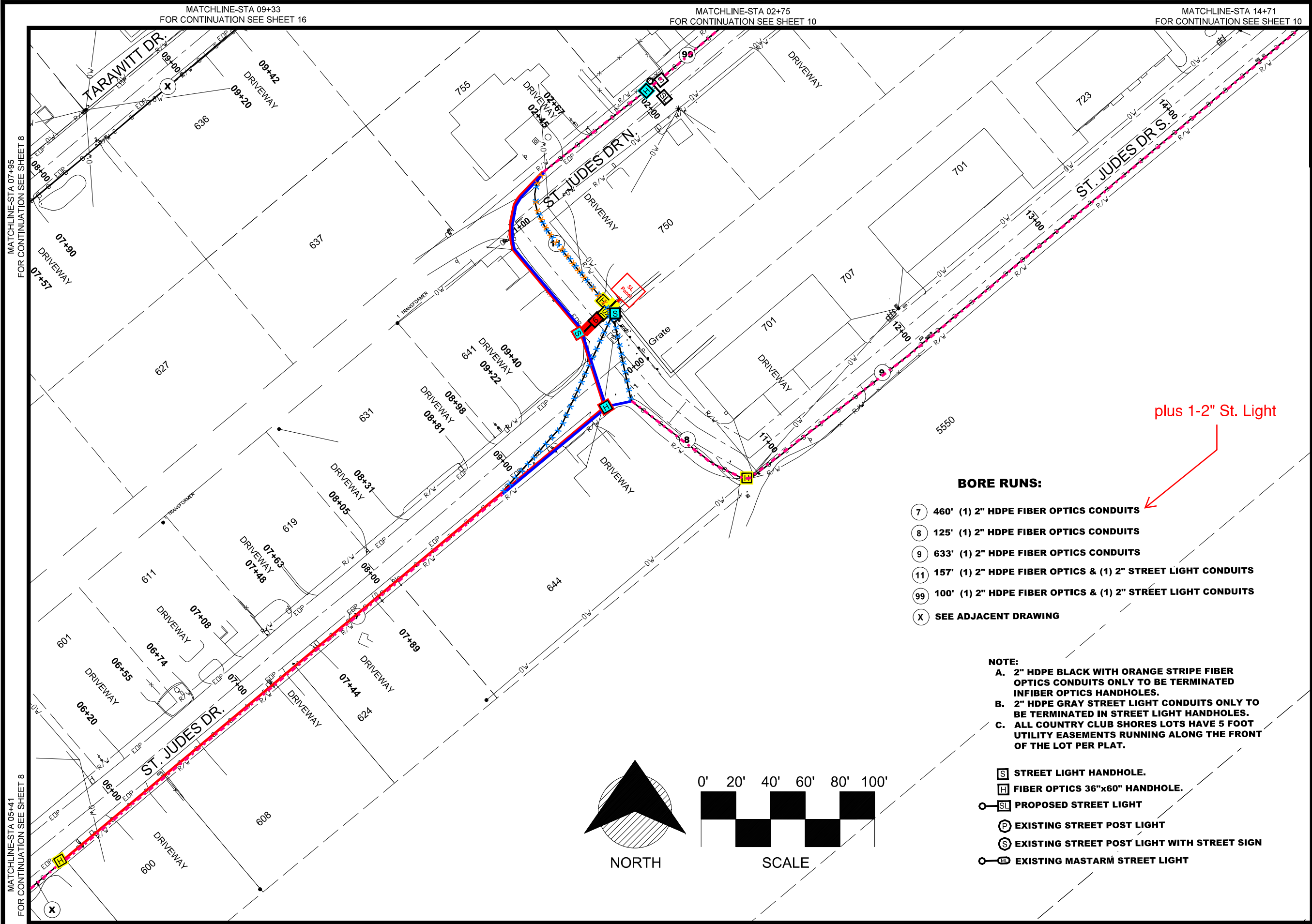
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Job # 2014-LBK

Sheet

E7 OF 30

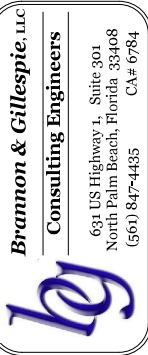


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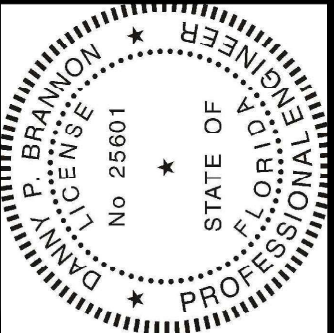
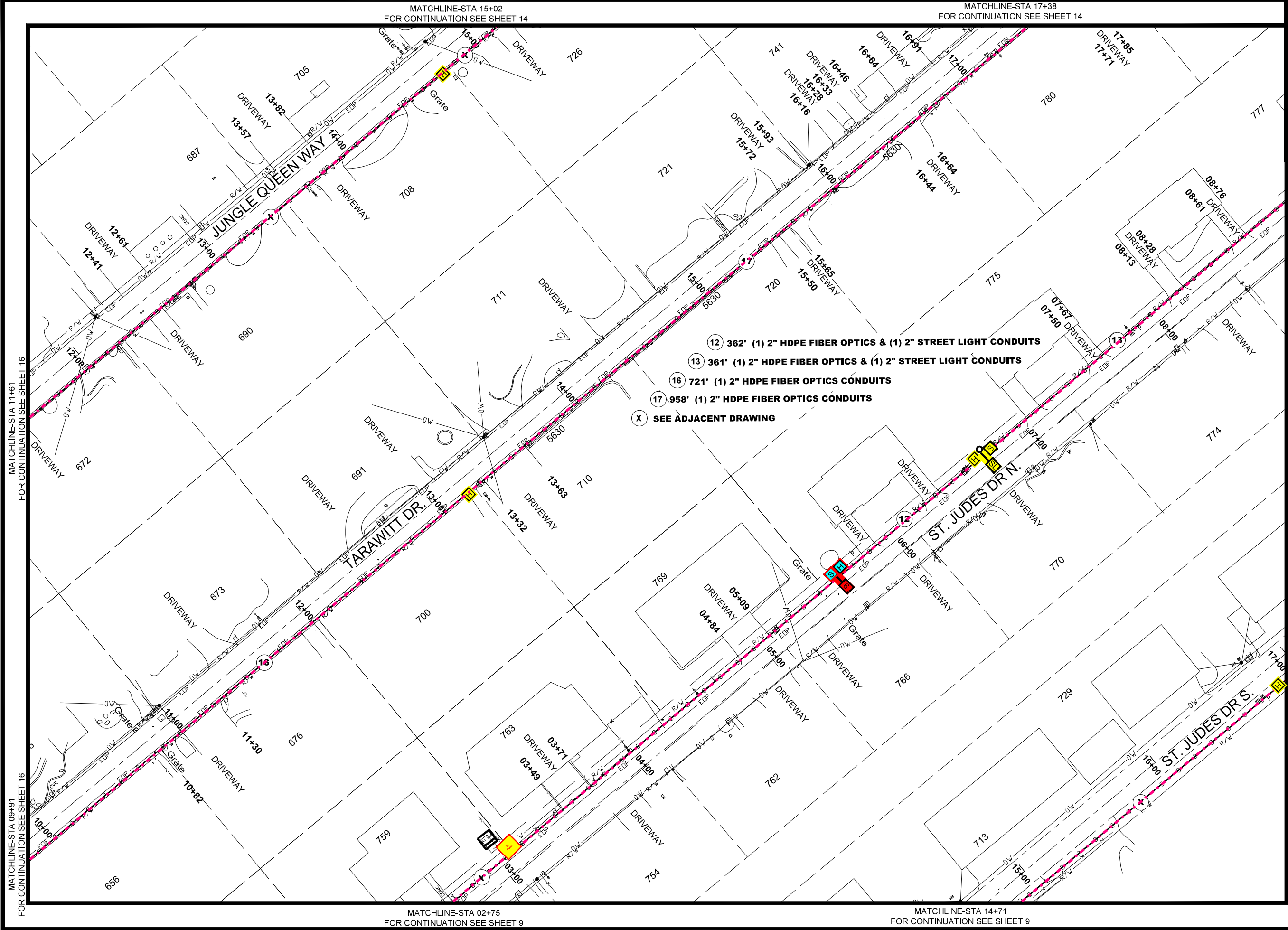
Town of Longboat Key



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CONSTRUCTION**
LONGBOAT KEY, FLORIDA



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Matchline-STA 08+93
FOR CONTINUATION SEE SHEET 11

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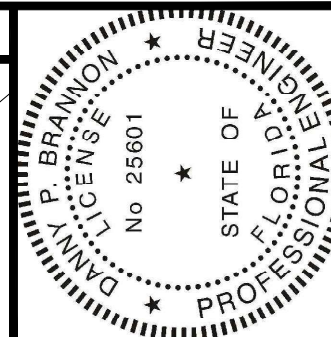
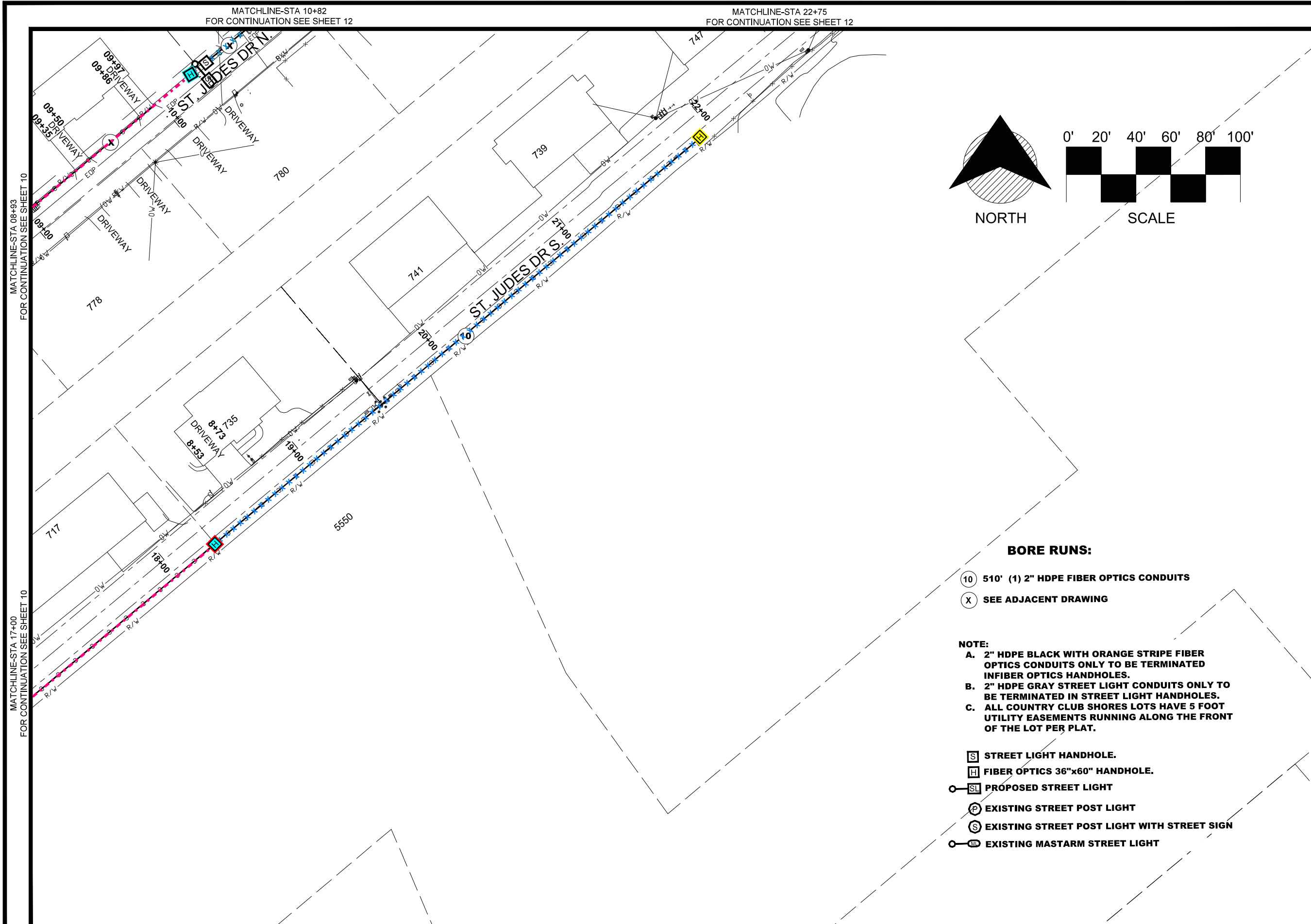
631 US Highway 1, Suite 301
North Palm Beach, Florida 33408
(561) 847-4435 CA# 6784

Town of Longboat Key

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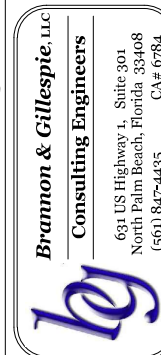


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Date: 12/01/2019

Scale: AS NOTED

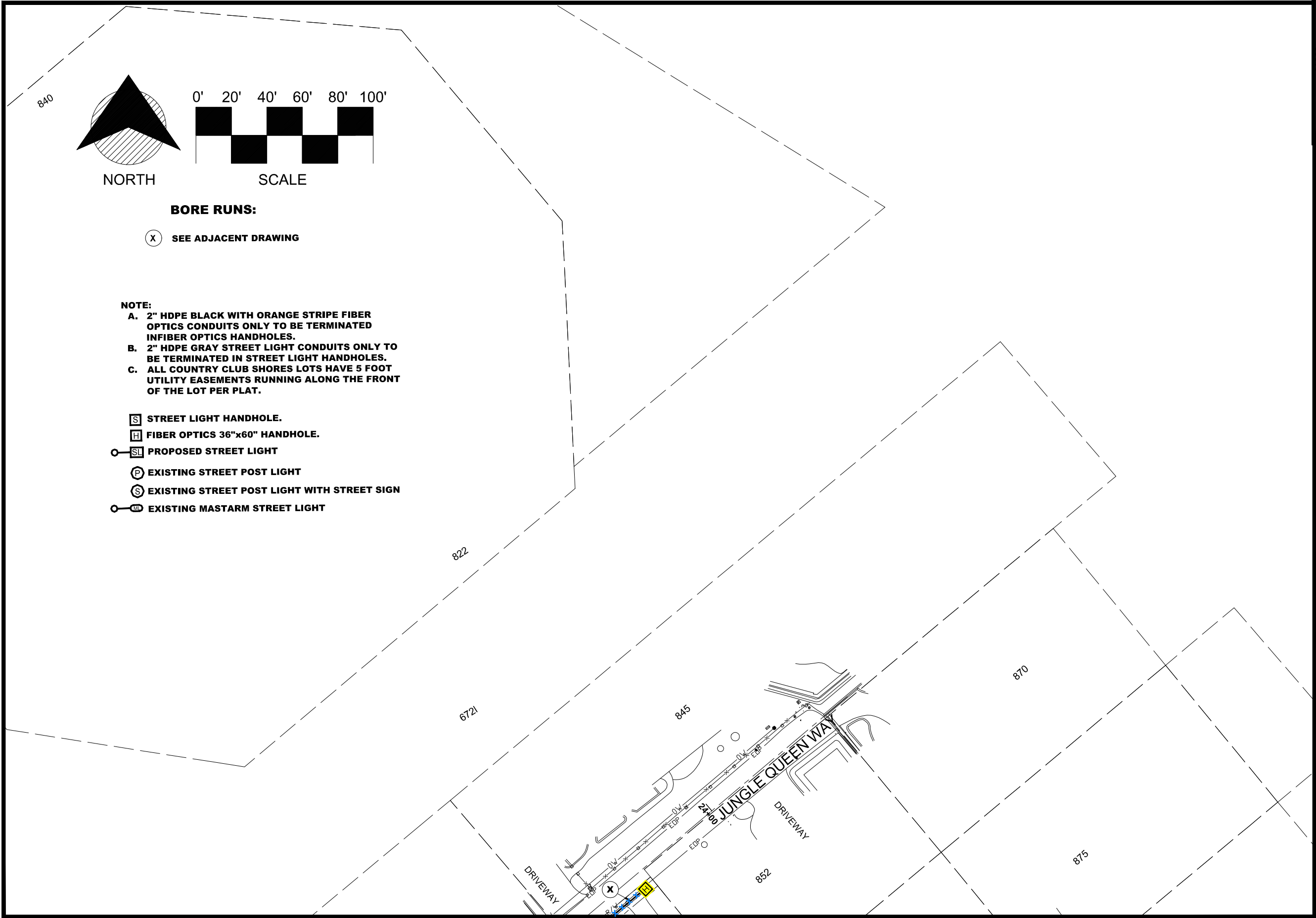
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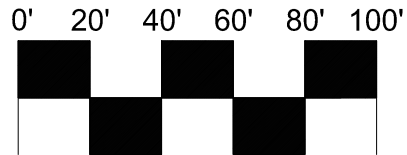
Job # 2014-LBK

Sheet

E11 OF 30



NORTH



SCALE

BORE RUNS:

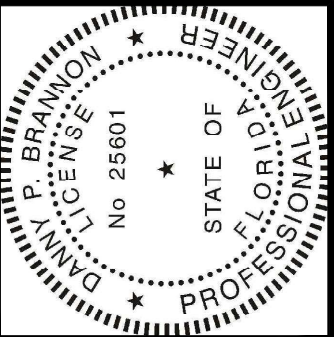
(X) SEE ADJACENT DRAWING

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [ML] EXISTING MASTARM STREET LIGHT

MATCHLINE-STA 23+07
FOR CONTINUATION SEE SHEET 12



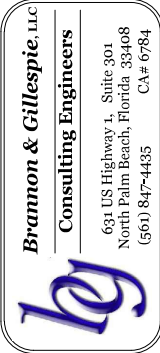
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Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

Danny P. Brannon

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601

DATE

Town of Longboat Key



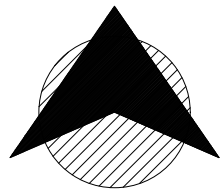
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



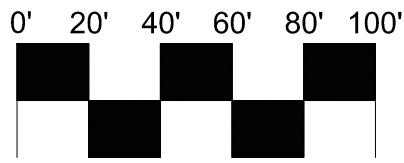
Date: 12/01/2019
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Checked: DPB
Job # 2014-LBK

Sheet

E13 OF 30



NORTH



SCALE

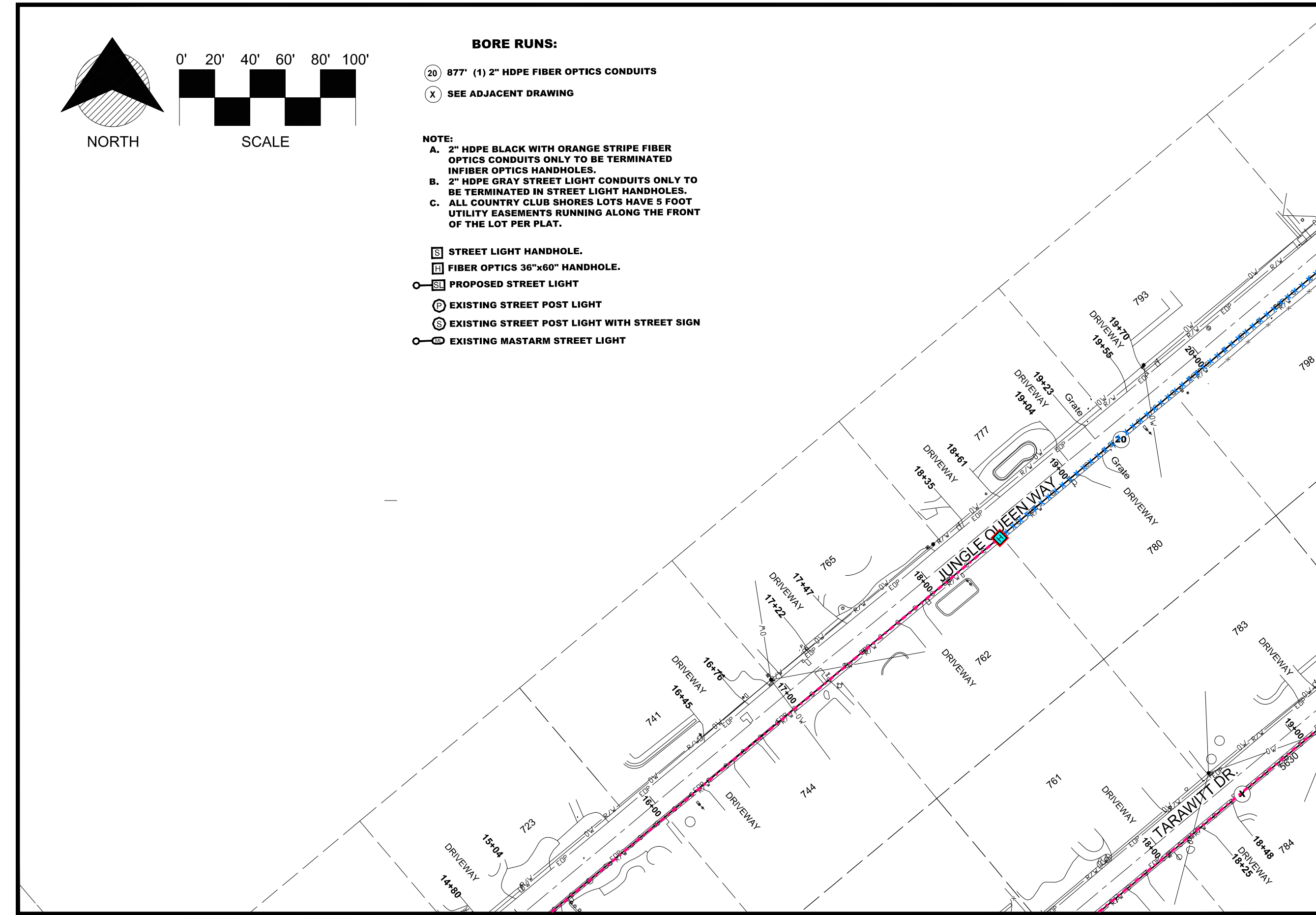
BORE RUNS:

- (20) 877' (1) 2" HDPE FIBER OPTICS CONDUITS
- (X) SEE ADJACENT DRAWING

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT



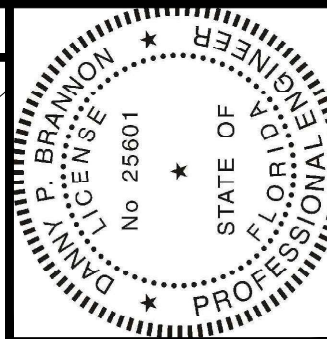
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FOR CONTINUATION SEE SHEET 16

MATCHLINE-STA 15+02
FOR CONTINUATION SEE SHEET 10

MATCHLINE-STA 17+38
FOR CONTINUATION SEE SHEET 10

MATCHLINE-STA 20+91
FOR CONTINUATION SEE SHEET 12

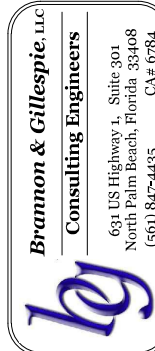
MATCHLINE-STA 19+22
FOR CONTINUATION SEE SHEET 12



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Date: 2021.09.11
16:25:18 -04'00'

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FLORIDA P. E. NO. 25601

DATE



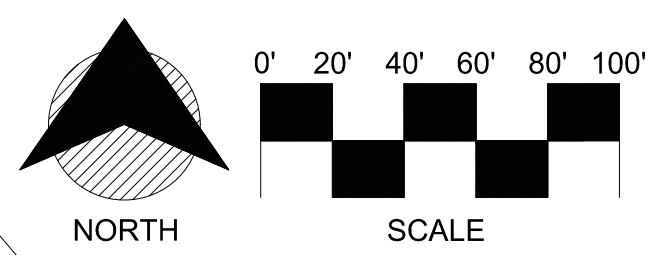
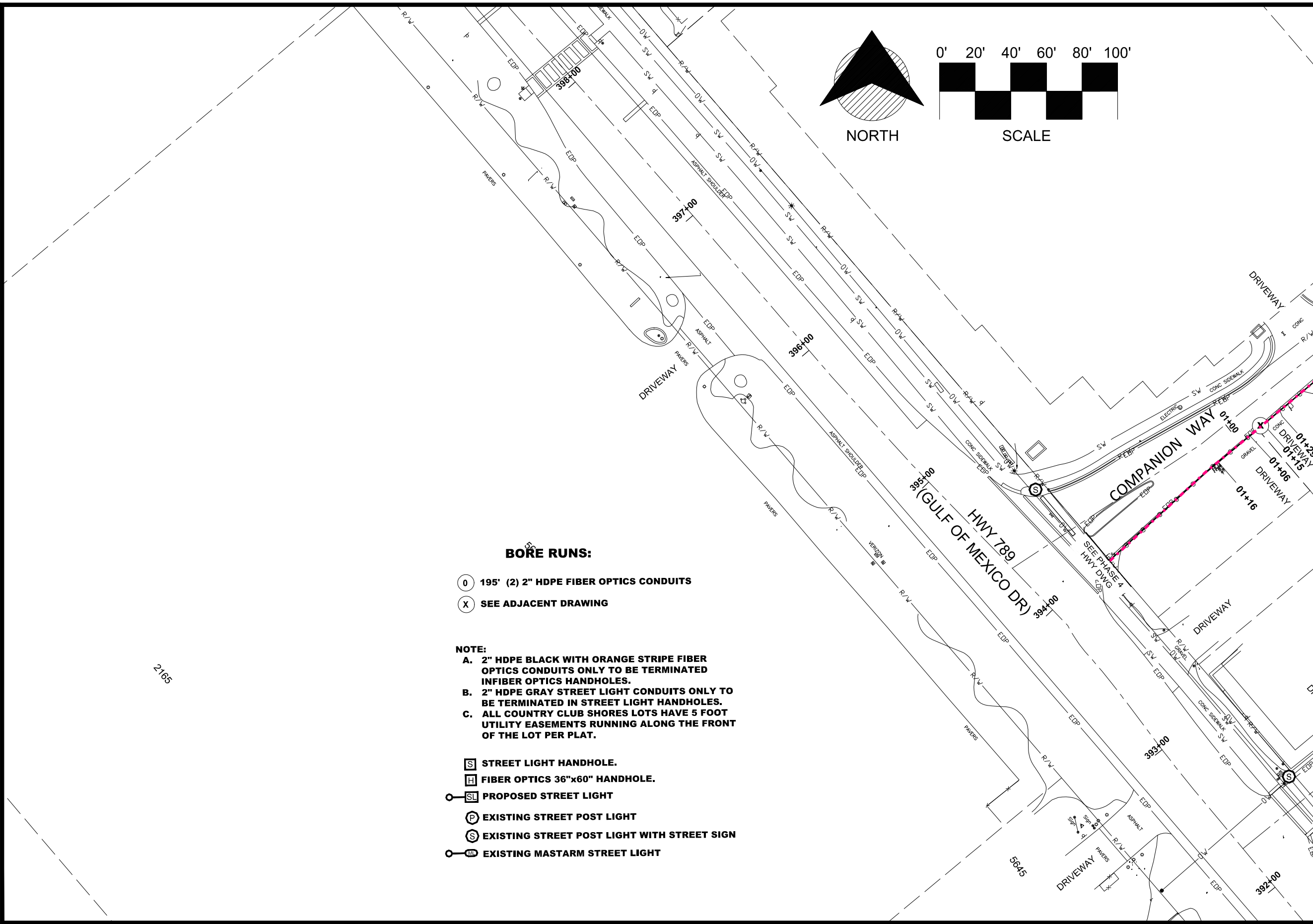
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

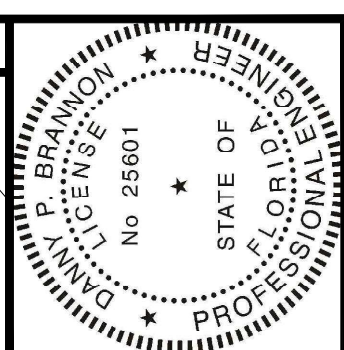
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- BORE RUNS:**
- 195' (2) 2" HDPE FIBER OPTICS CONDUITS
 - ✕ SEE ADJACENT DRAWING
- NOTE:**
- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
 - B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
 - C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.
- STREET LIGHT HANDHOLE.
- FIBER OPTICS 36"x60" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- M EXISTING MASTARM STREET LIGHT

MATCHLINE-STA 01+66
FOR CONTINUATION SEE SHEET 8

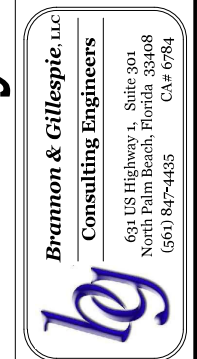


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Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

DANNY P. BRANNON, P. E.
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Town of Longboat Key



DRAWINGS FOR:

**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**

LONGBOAT KEY, FLORIDA



Date: 12/01/2019

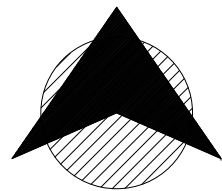
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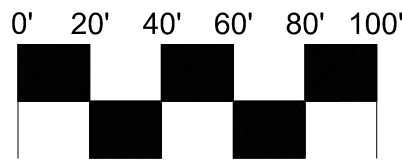
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Job # 2014-LBK

Sheet
E15 OF 30



NORTH



SCALE

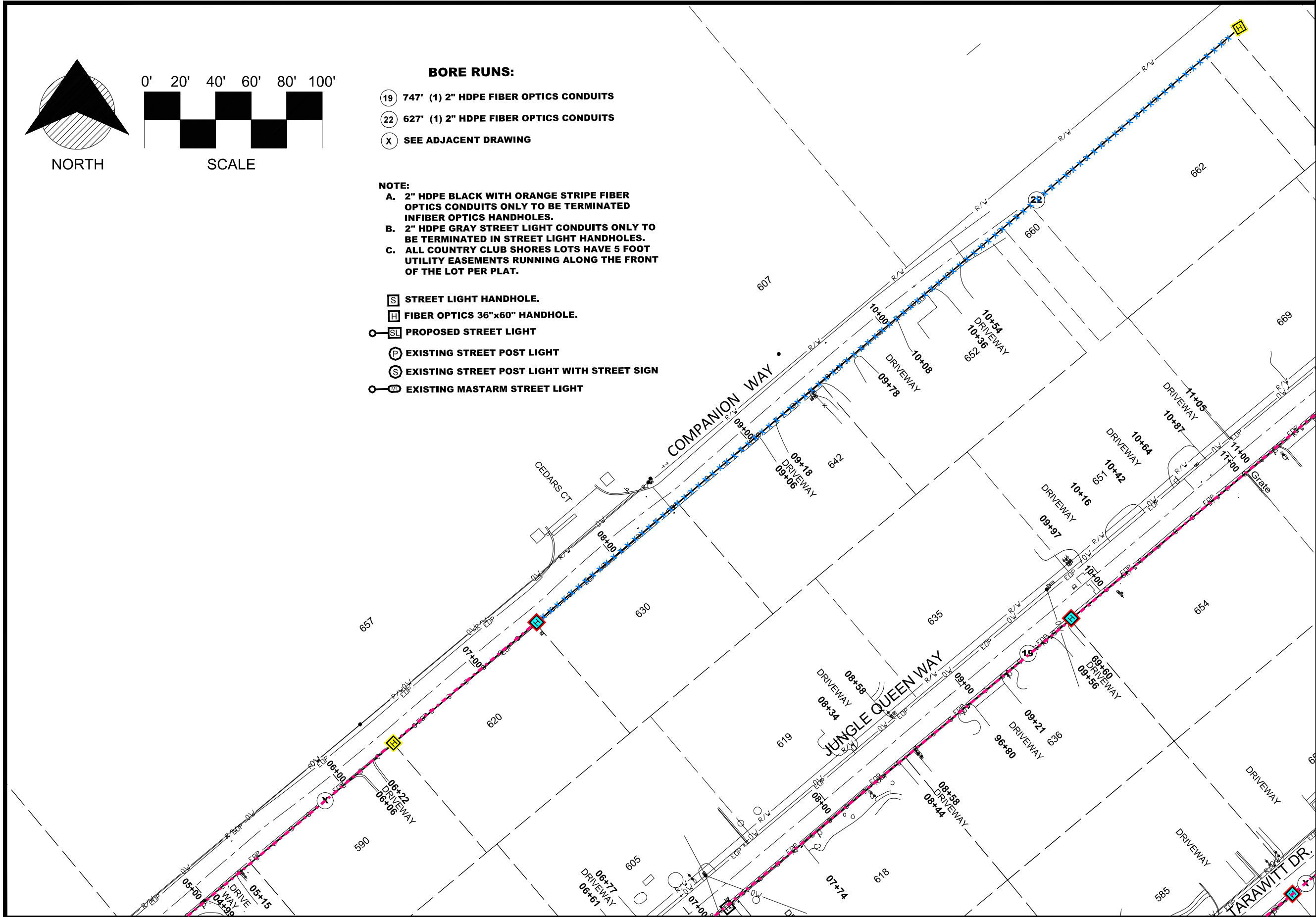
BORE RUNS:

- 19 747' (1) 2" HDPE FIBER OPTICS CONDUITS
- 22 627' (1) 2" HDPE FIBER OPTICS CONDUITS
- X SEE ADJACENT DRAWING

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
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- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT



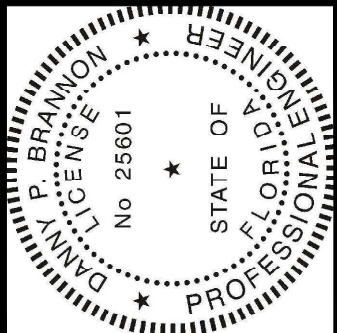
MATCHLINE-STA 04+73
FOR CONTINUATION SEE SHEET 8

MATCHLINE-STA 06+97
FOR CONTINUATION SEE SHEET 8

MATCHLINE-STA 09+33
FOR CONTINUATION SEE SHEET 9

MATCHLINE-STA 11+61
FOR CONTINUATION SEE SHEET 10

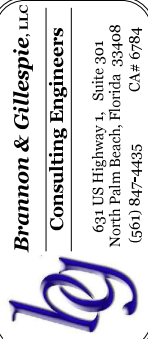
MATCHLINE-STA 09+91
FOR CONTINUATION SEE SHEET 10



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FLORIDA P.E. NO. 25601

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DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

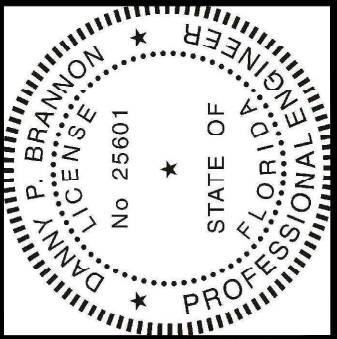


Town of Longboat Key

Date: 12/01/2019
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK

Sheet
E16 OF 30

MATCHLINE-STA 02+27
FOR CONTINUATION SEE SHEET 25

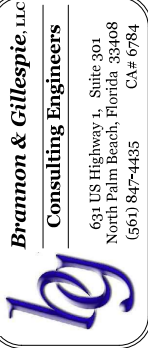


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Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601

DATE

MATCHLINE-STA 00+83
FOR CONTINUATION SEE SHEET 18

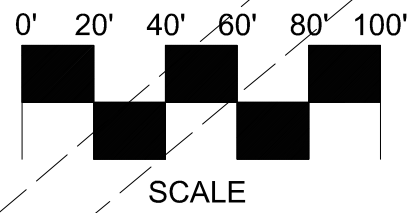
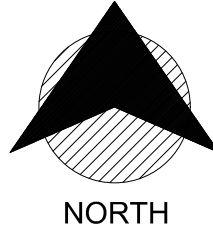


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019
Scale: AS NOTED
Drawn: DPB
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Job # 2014-LBK

Sheet
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26?

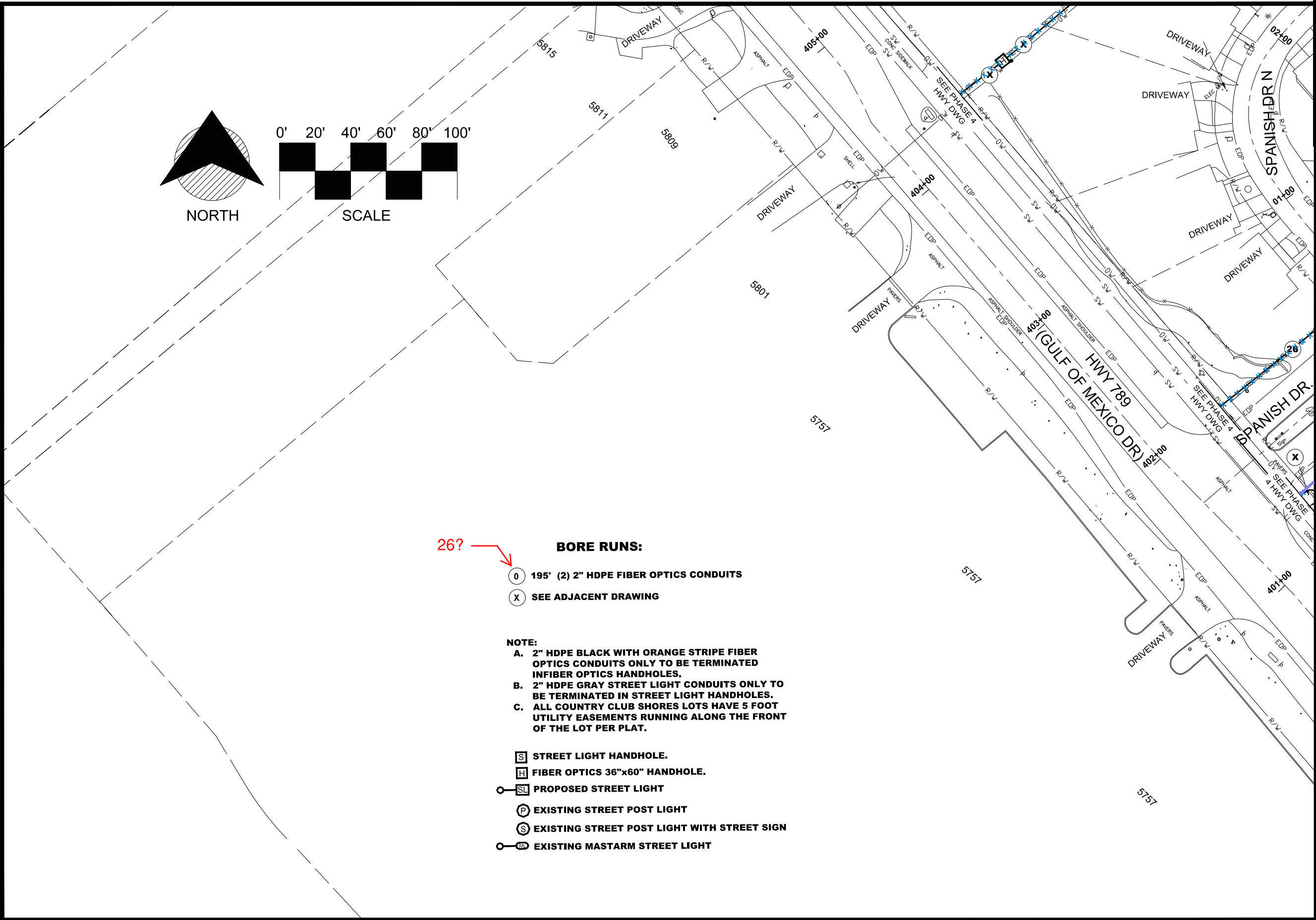
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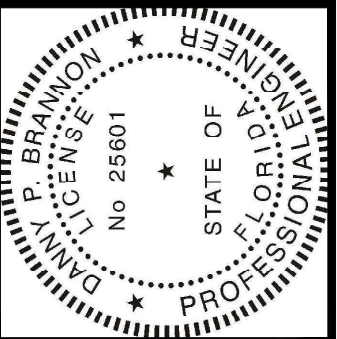
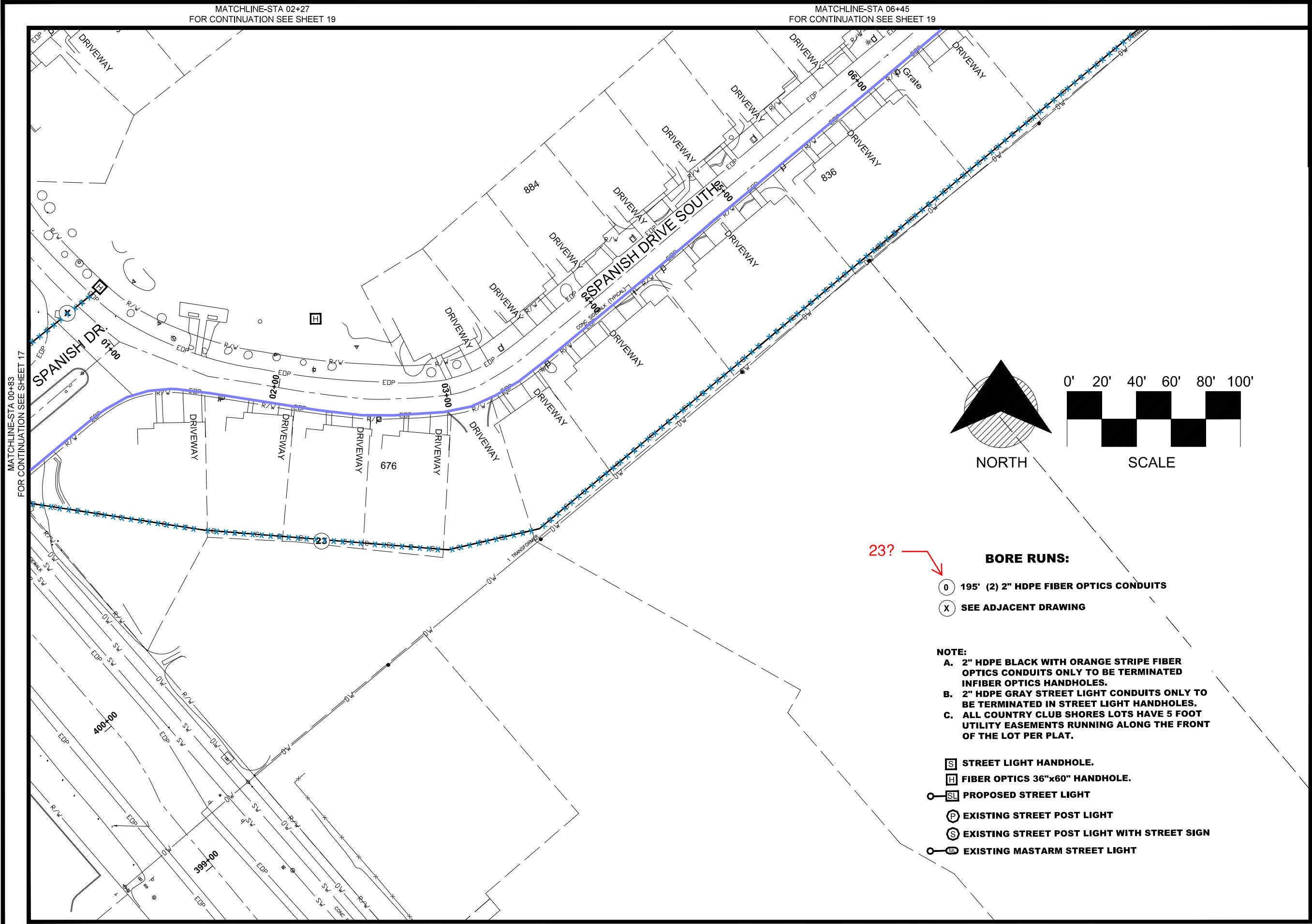
- 195' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE ADJACENT DRAWING

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
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- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT



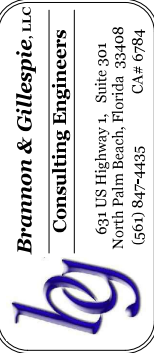


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DANNY P. BRANNON, P.E.
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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019

Scale: AS NOTED

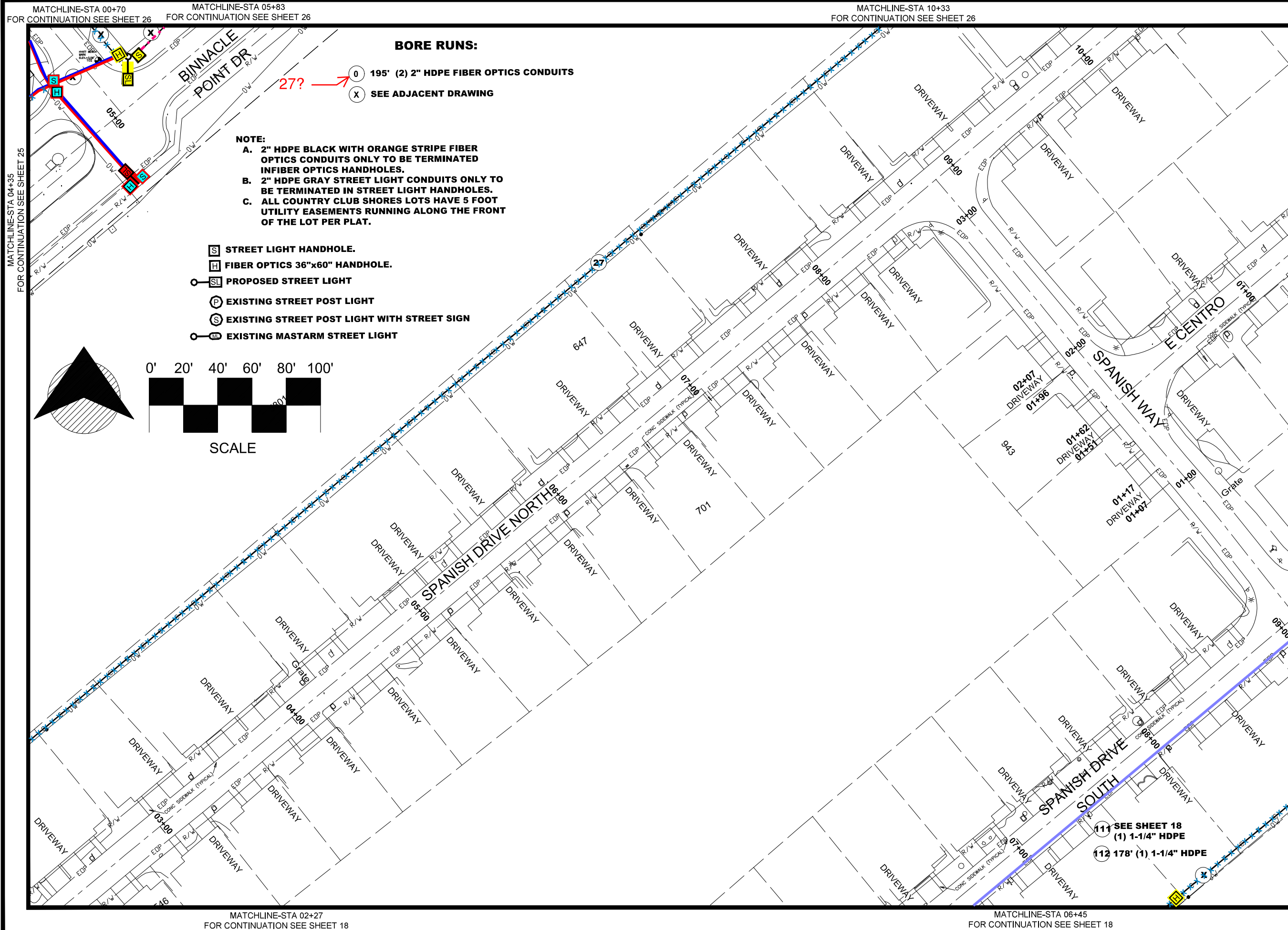
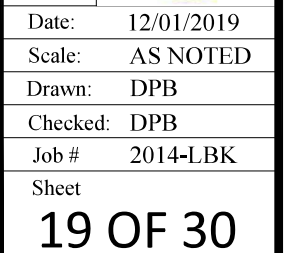
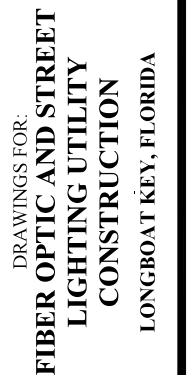
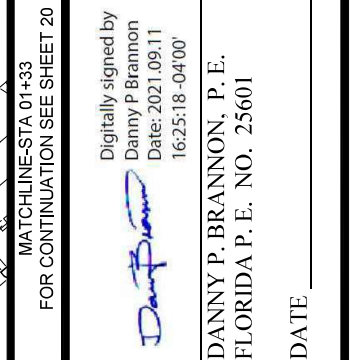
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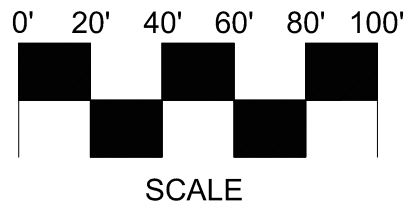
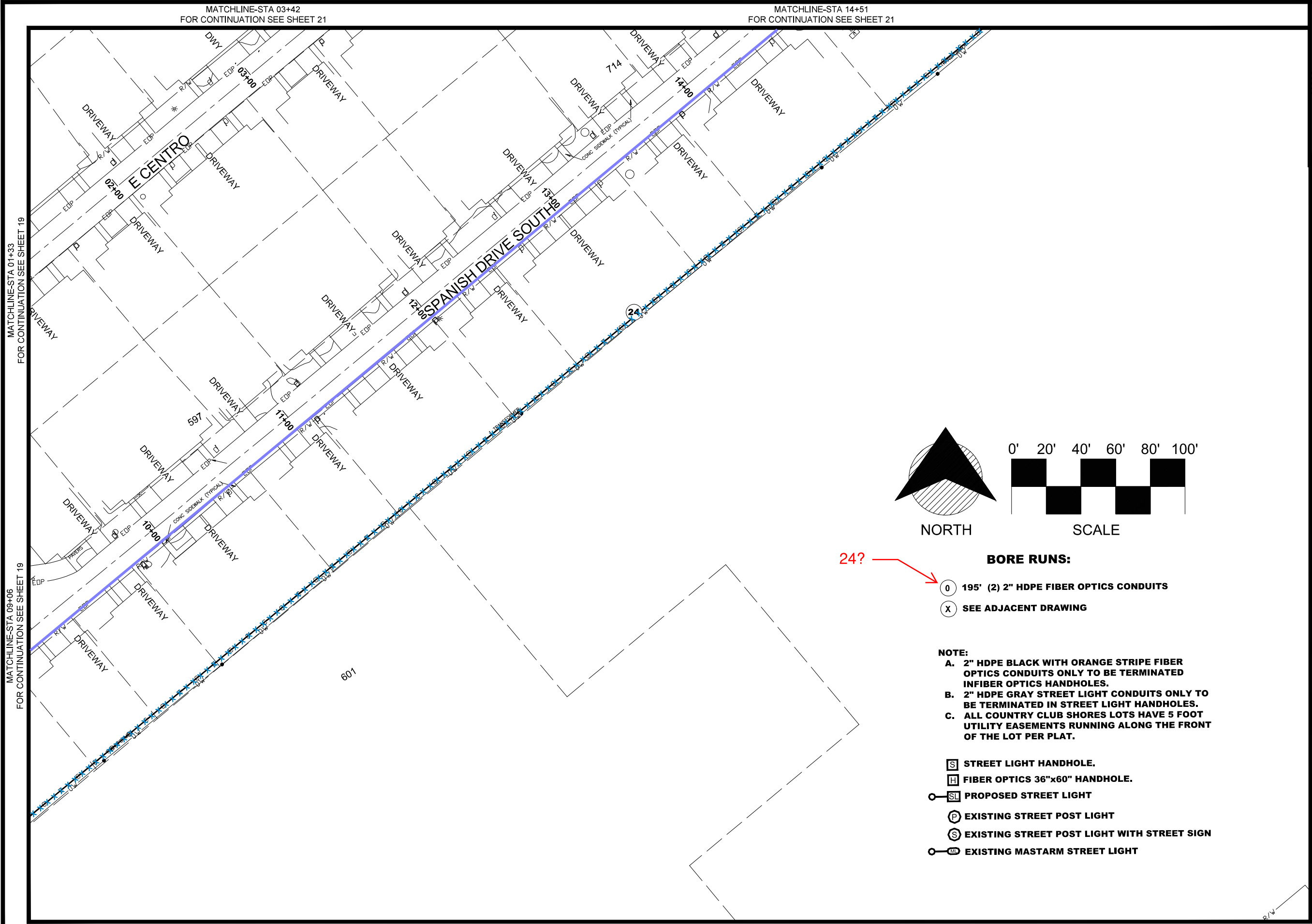
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Job # 2014-LBK

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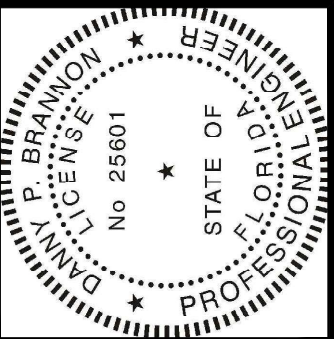




- 24? →
- BORE RUNS:**
- 195' (2) 2" HDPE FIBER OPTICS CONDUITS
 - ✕ SEE ADJACENT DRAWING

- NOTE:**
- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED INFIBER OPTICS HANDHOLES.
 - B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
 - C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- [S] STREET LIGHT HANDHOLE.
- [H] FIBER OPTICS 36"x60" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [ML] EXISTING MASTARM STREET LIGHT

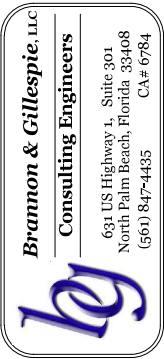


Digitally signed by
Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

DANNY P. BRANNON, P. E.
FLORIDA P. E. NO. 25601

DATE _____

Town of Longboat Key

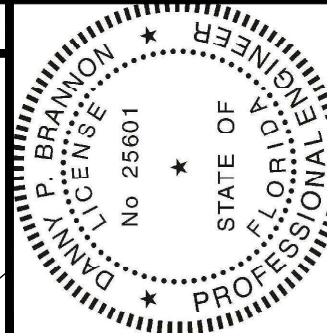


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

MATCHLINE-STA 22+57
FOR CONTINUATION SEE SHEET 23

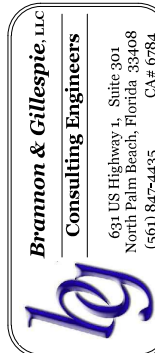


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Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019

Scale: AS NOTED

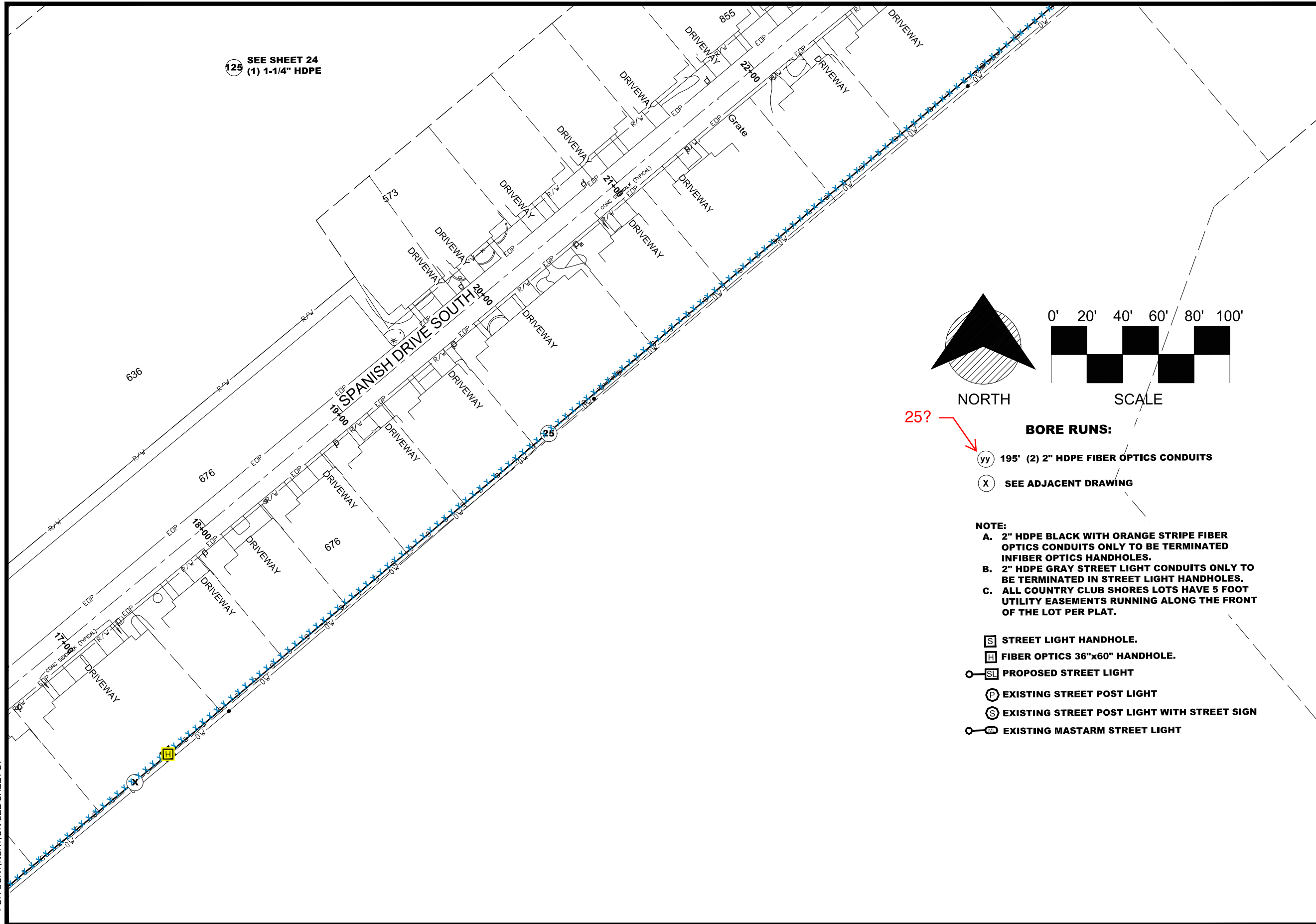
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Job # 2014-LBK

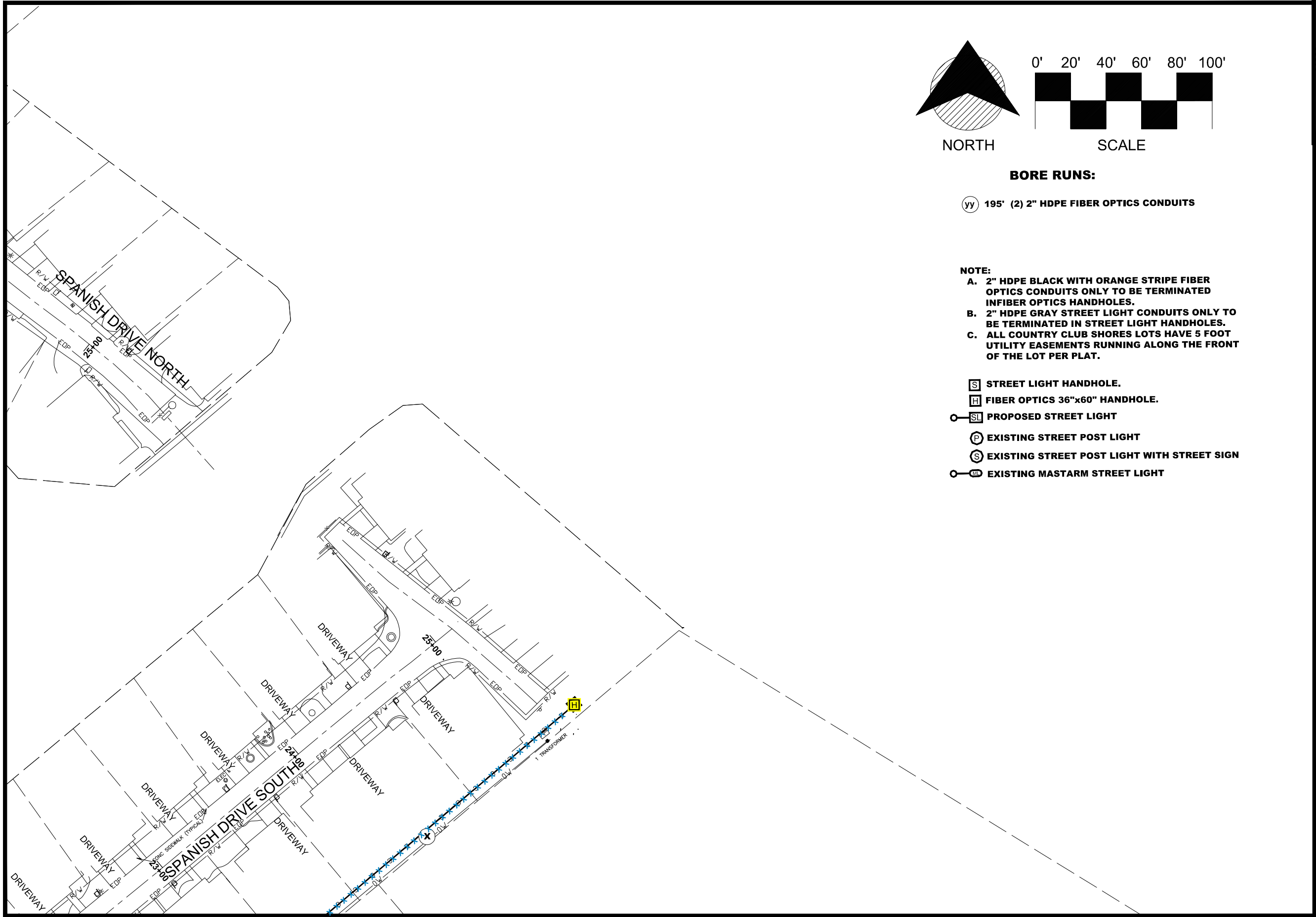
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E22 OF 30

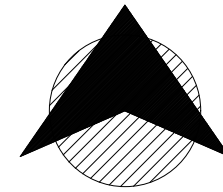


MATCHLINE-STA 16+56
FOR CONTINUATION SEE SHEET 21

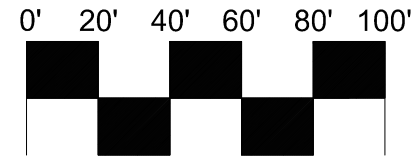
MATCHLINE-STA 24+37
FOR CONTINUATION SEE SHEET 24



MATCHLINE-STA 22+57
FOR CONTINUATION SEE SHEET 22



NORTH



SCALE

BORE RUNS:

yy 195' (2) 2" HDPE FIBER OPTICS CONDUITS

NOTE:

- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
- C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

[S] STREET LIGHT HANDHOLE.

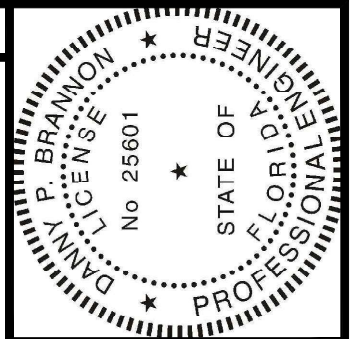
[H] FIBER OPTICS 36"x60" HANDHOLE.

[SL] PROPOSED STREET LIGHT

[P] EXISTING STREET POST LIGHT

[S] EXISTING STREET POST LIGHT WITH STREET SIGN

[ML] EXISTING MASTARM STREET LIGHT

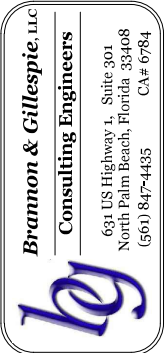


Digitally signed by
Danny P Brannon
Date: 2021.09.11
16:25:18 -04'00'

DANNY P. BRANNON, P. E.
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Town of Longboat Key



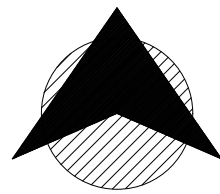
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



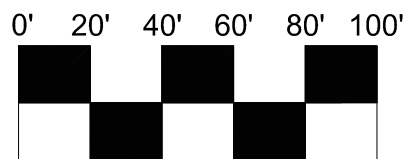
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Checked:	DPB
Job #	2014-LBK

Sheet

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NORTH



SCALE

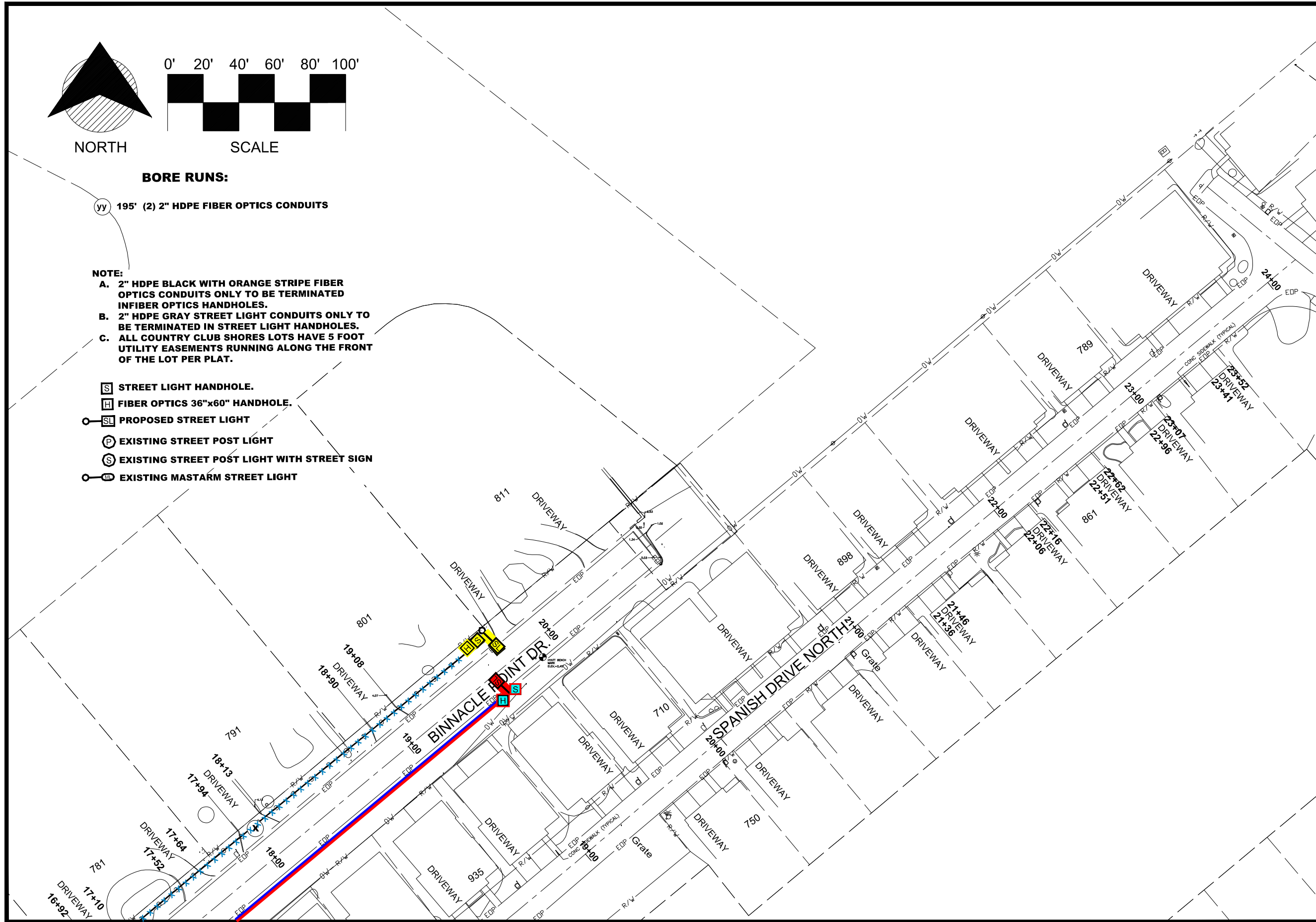
BORE RUNS:

YY 195' (2) 2" HDPE FIBER OPTICS CONDUITS

NOTE:

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- FIBER OPTICS 36"x60" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN
- EXISTING MASTARM STREET LIGHT

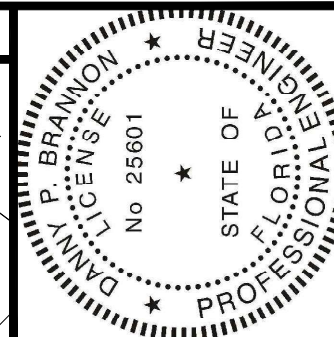


MATCHLINE-STA 17+46
FOR CONTINUATION SEE SHEET 21

MATCHLINE-STA 21+55
FOR CONTINUATION SEE SHEET 22

MATCHLINE-STA 22+57
FOR CONTINUATION SEE SHEET 23

MATCHLINE-STA 24+37
FOR CONTINUATION SEE SHEET 23



Digitally signed by
Danny P Brannon
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FLORIDA P.E. NO. 25601

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Town of Longboat Key

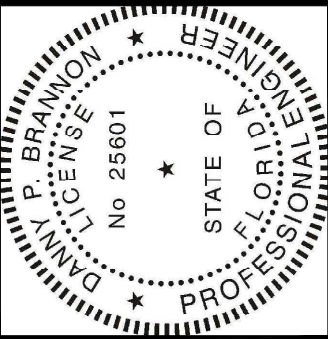
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date:	12/01/2019
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
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Brannon & Gillespie, LLC
Consulting Engineers
631 US Highway 1, Suite 301
North Palm Beach, Florida 33408
(561) 847-4435 CA# 6784

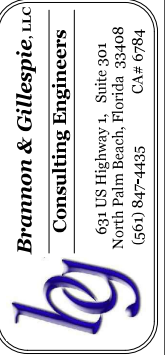


Matchline-STA04+35
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Date: 2021.09.11
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DANNY P. BRANNON, P.E.
FLORIDA P. E. NO. 25601

DATE



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION
LONGBOAT KEY, FLORIDA



Town of Longboat Key

Date:	12/01/2019
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Job #	2014-LBK
Sheet	E25 OF 30

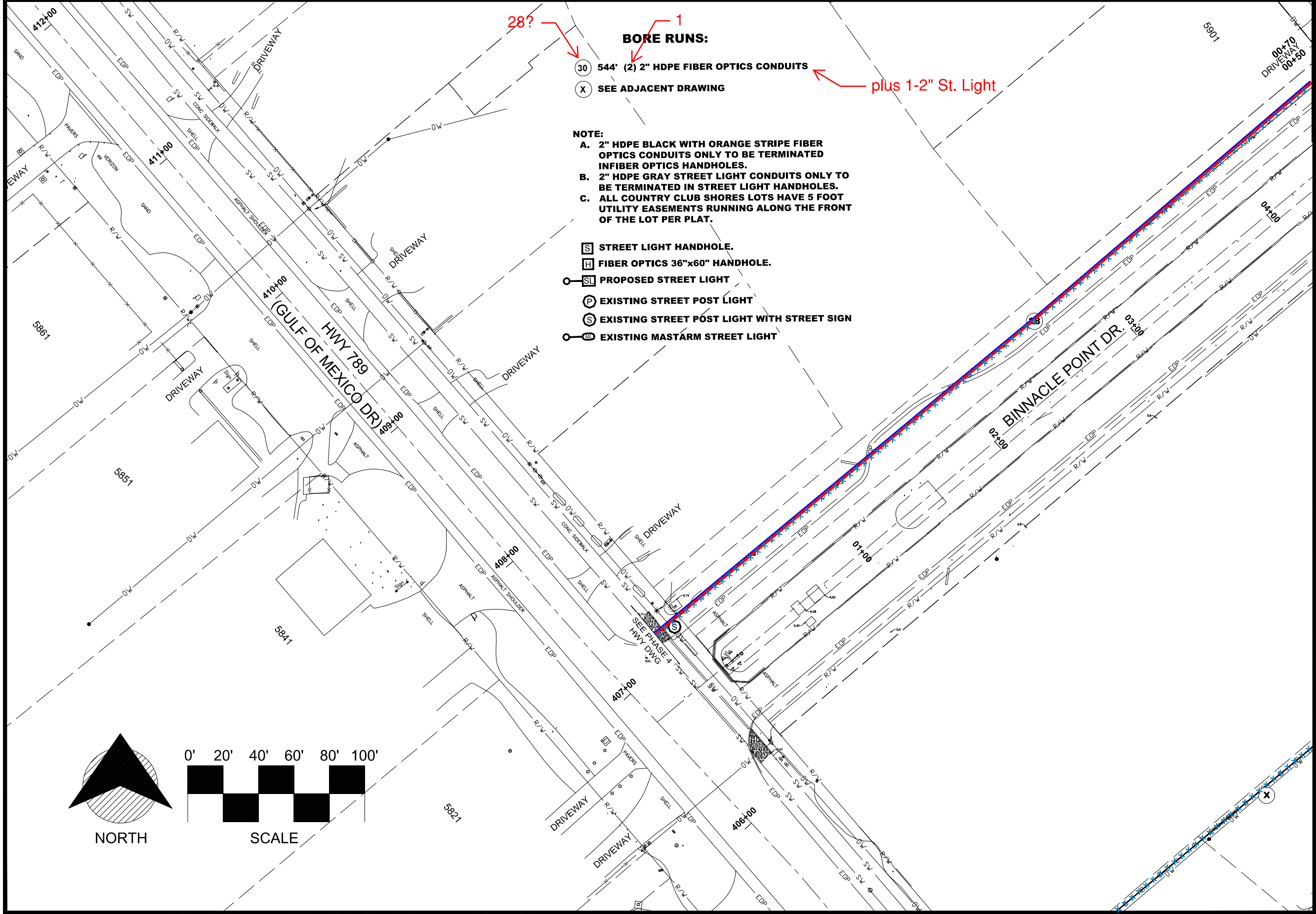
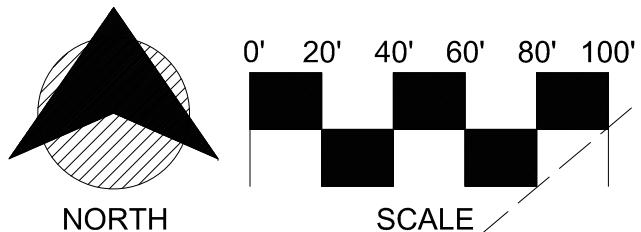
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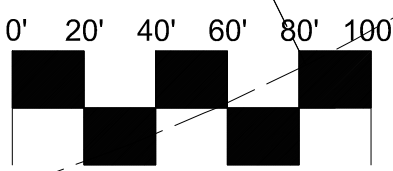
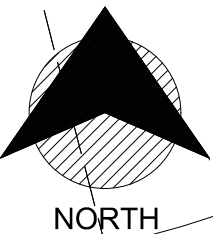
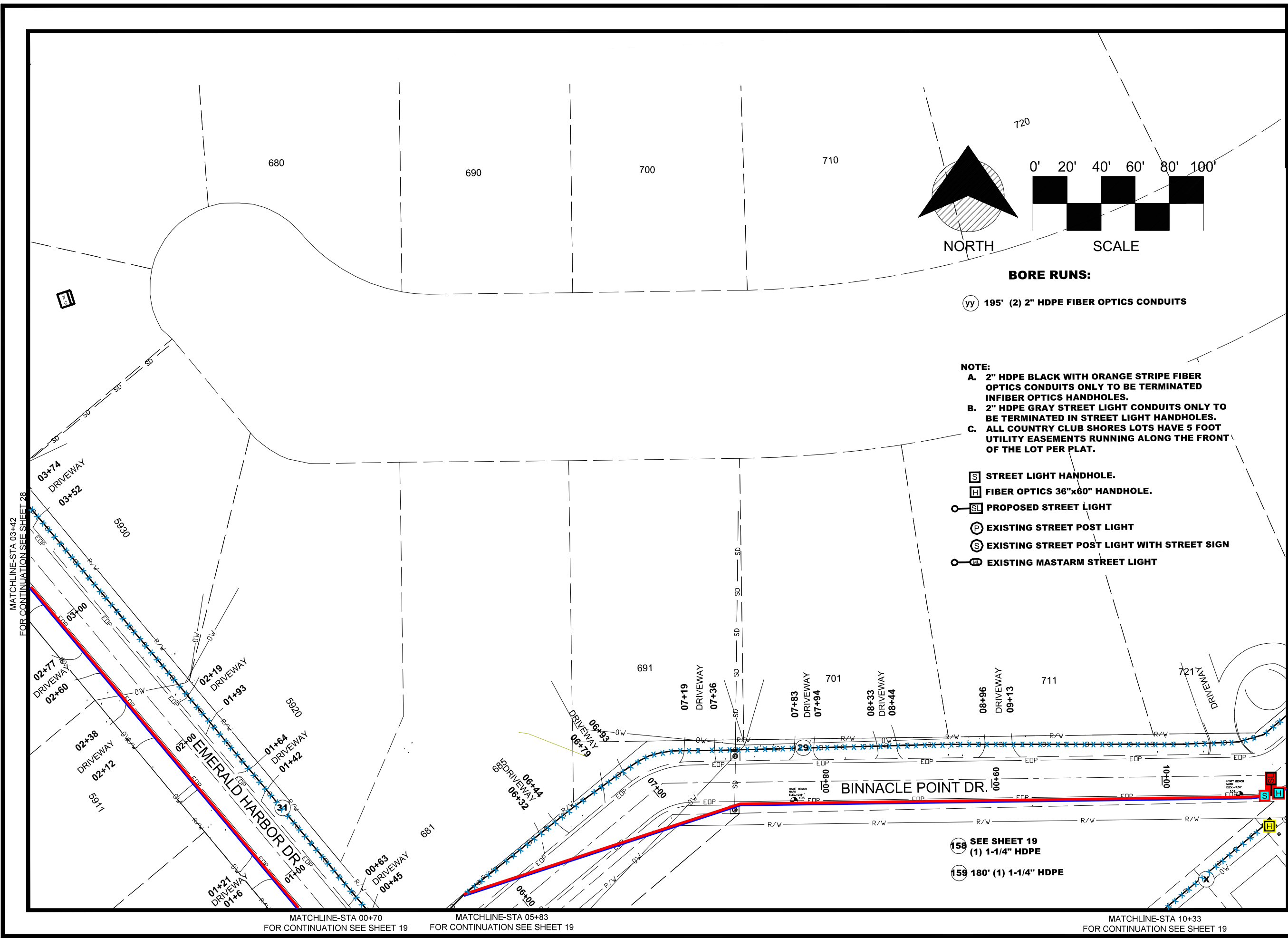
- 30 544' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE ADJACENT DRAWING

plus 1-2" St. Light

- NOTE:
- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
 - B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
 - C. ALL COUNTRY CLUB SHORES LOTS HAVE 5 FOOT UTILITY EASEMENTS RUNNING ALONG THE FRONT OF THE LOT PER PLAT.

- S STREET LIGHT HANDHOLE.
- H FIBER OPTICS 36"x60" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- ML EXISTING MASTARM STREET LIGHT



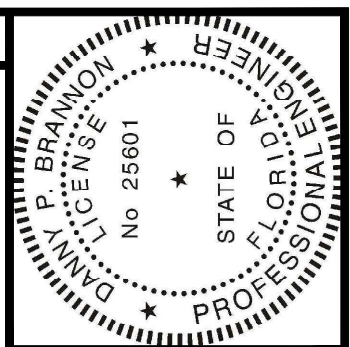


BORE RUNS:

yy 195' (2) 2" HDPE FIBER OPTICS CONDUITS

- NOTE:**
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- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT

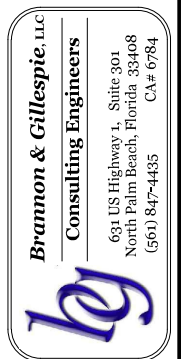


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DRAWINGS FOR:

FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION

LONGBOAT KEY, FLORIDA



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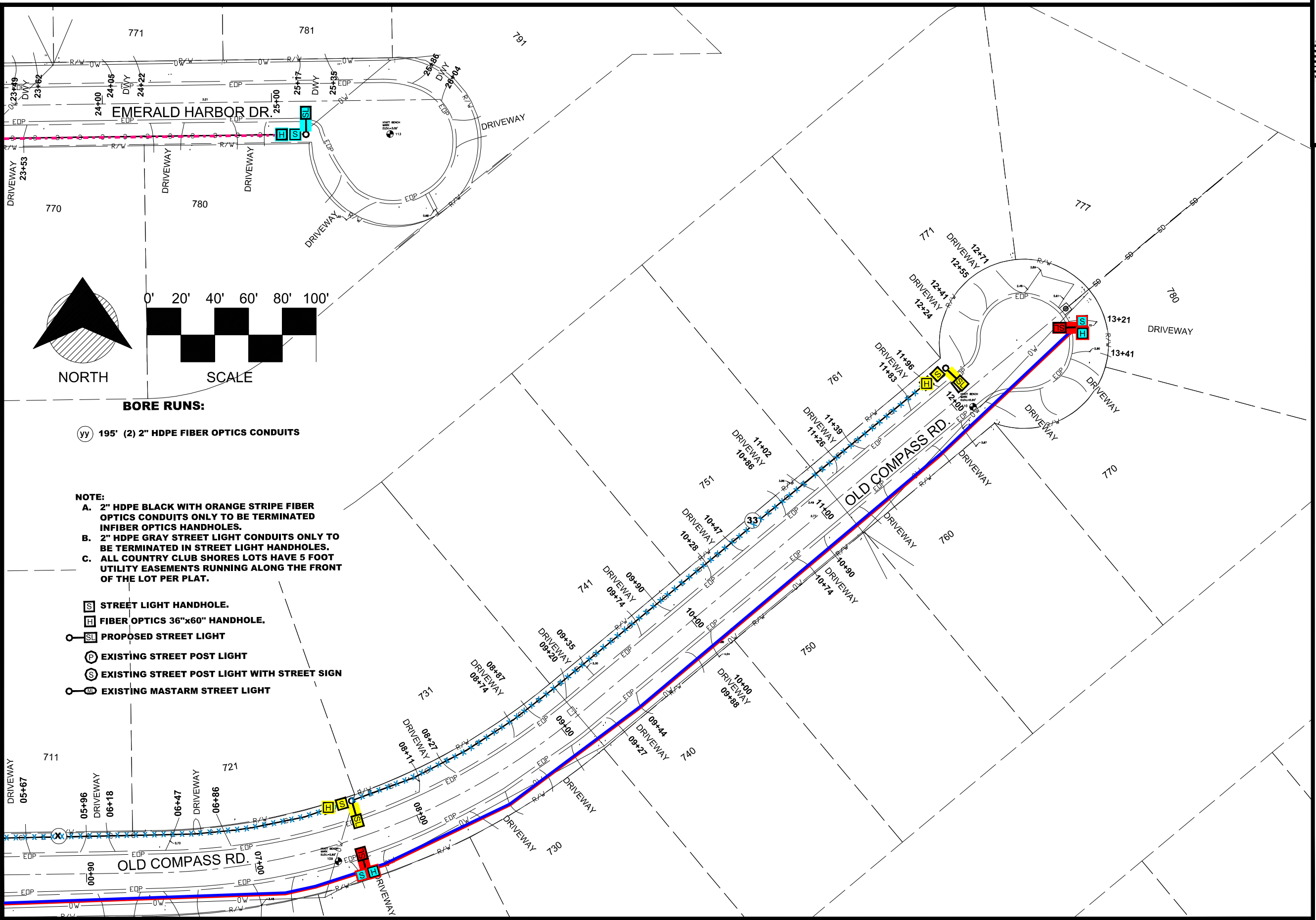
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Job # 2014-LBK

Sheet

MATCHLINE-STA 05+51
FOR CONTINUATION SEE SHEET 29

MATCHLINE-STA 23+42
FOR CONTINUATION SEE SHEET 29



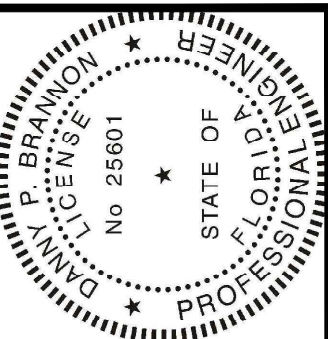
BORE RUNS:

yy 195' (2) 2" HDPE FIBER OPTICS CONDUITS

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- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT

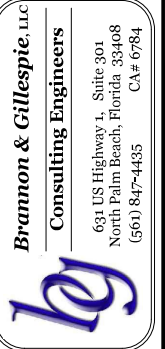


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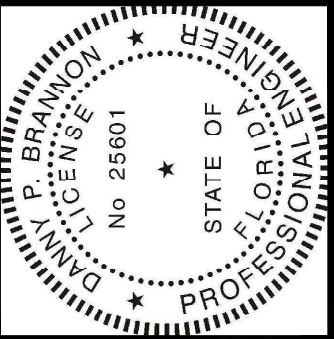
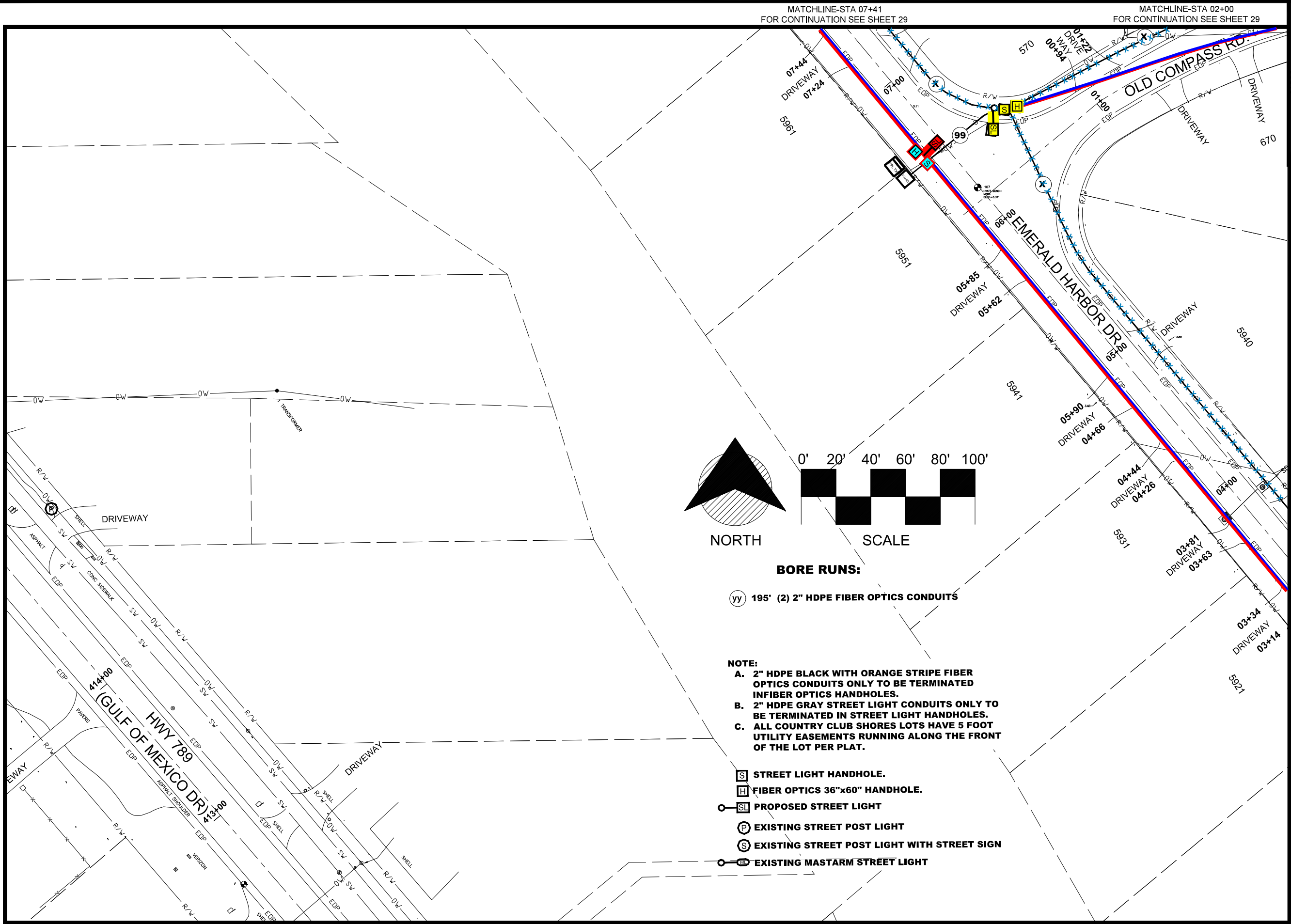
Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



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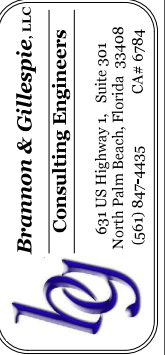
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FLORIDA P. E. NO. 25601

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MATCHLINE-STA 03+42
FOR CONTINUATION SEE SHEET 26

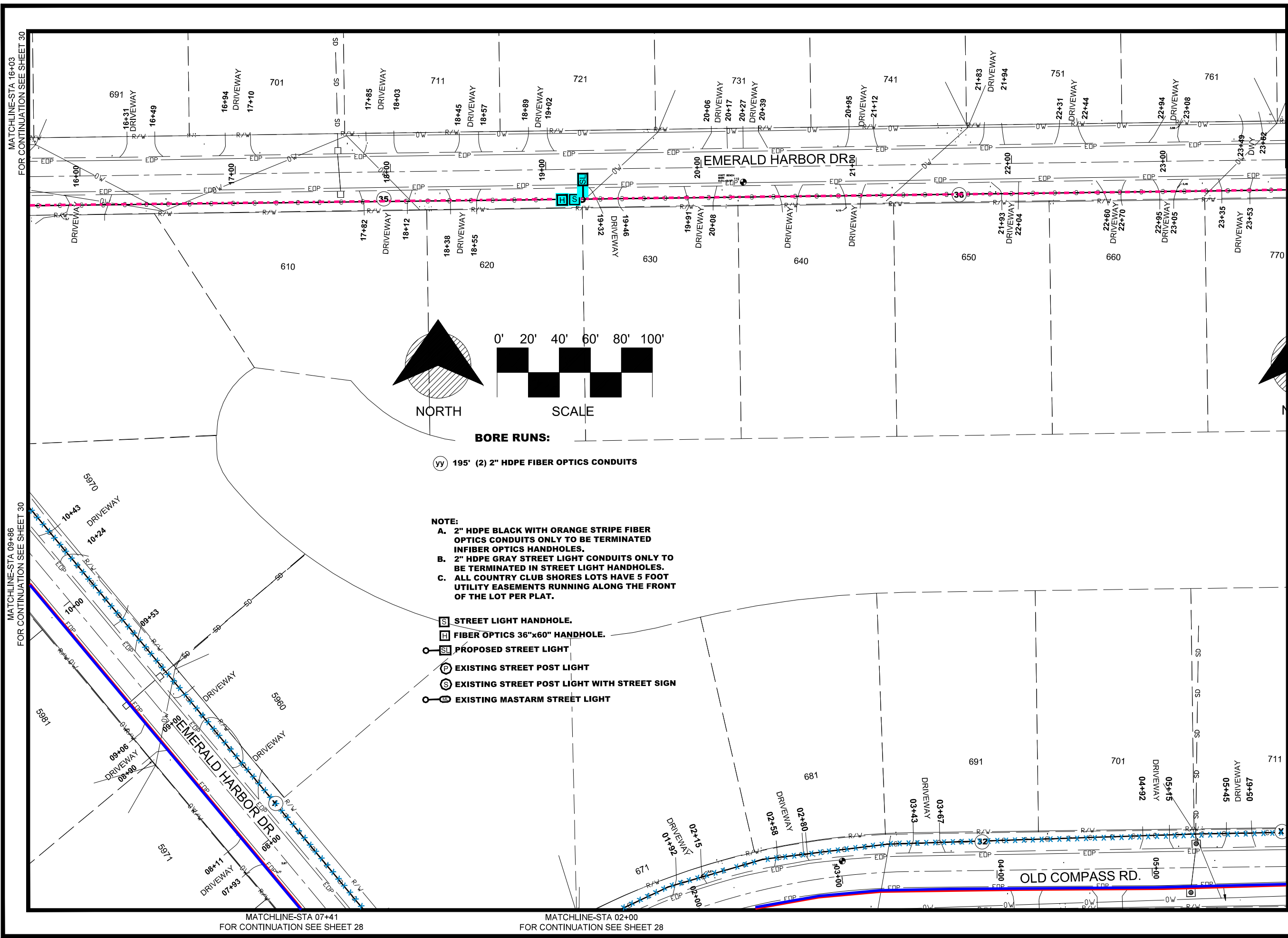
Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019
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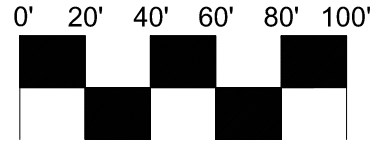
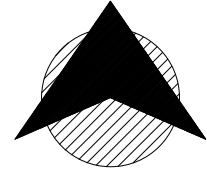
Town of Longboat Key

DRAWINGS FOR:
**FIBER OPTIC AND STREET
 LIGHTING UTILITY
 CONSTRUCTION**
 LONGBOAT KEY, FLORIDA

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E29 OF 30

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 Consulting Engineers
 631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4435 CA# 6784



NORTH

SCALE

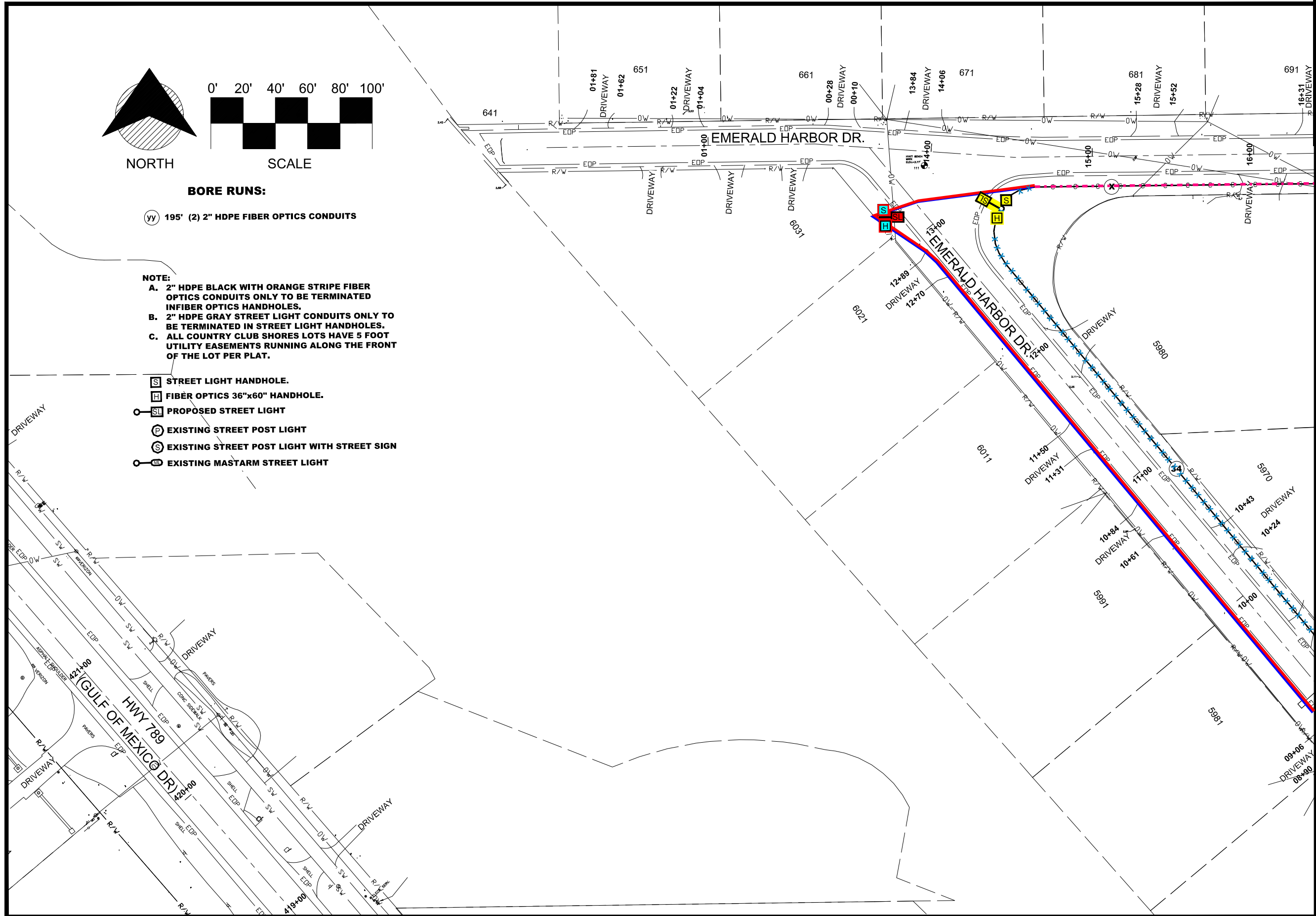
BORE RUNS:

YY 195' (2) 2" HDPE FIBER OPTICS CONDUITS

NOTE:

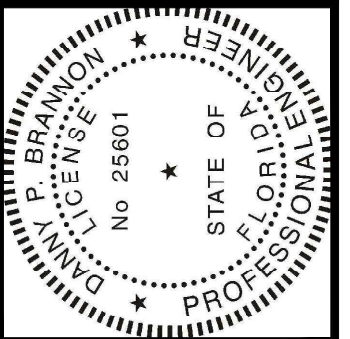
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MATCHLINE-STA 16+03
FOR CONTINUATION SEE SHEET 29

MATCHLINE-STA 09+86
FOR CONTINUATION SEE SHEET 29

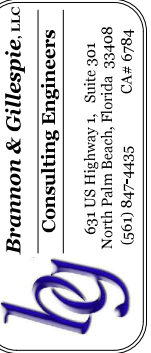


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Town of Longboat Key



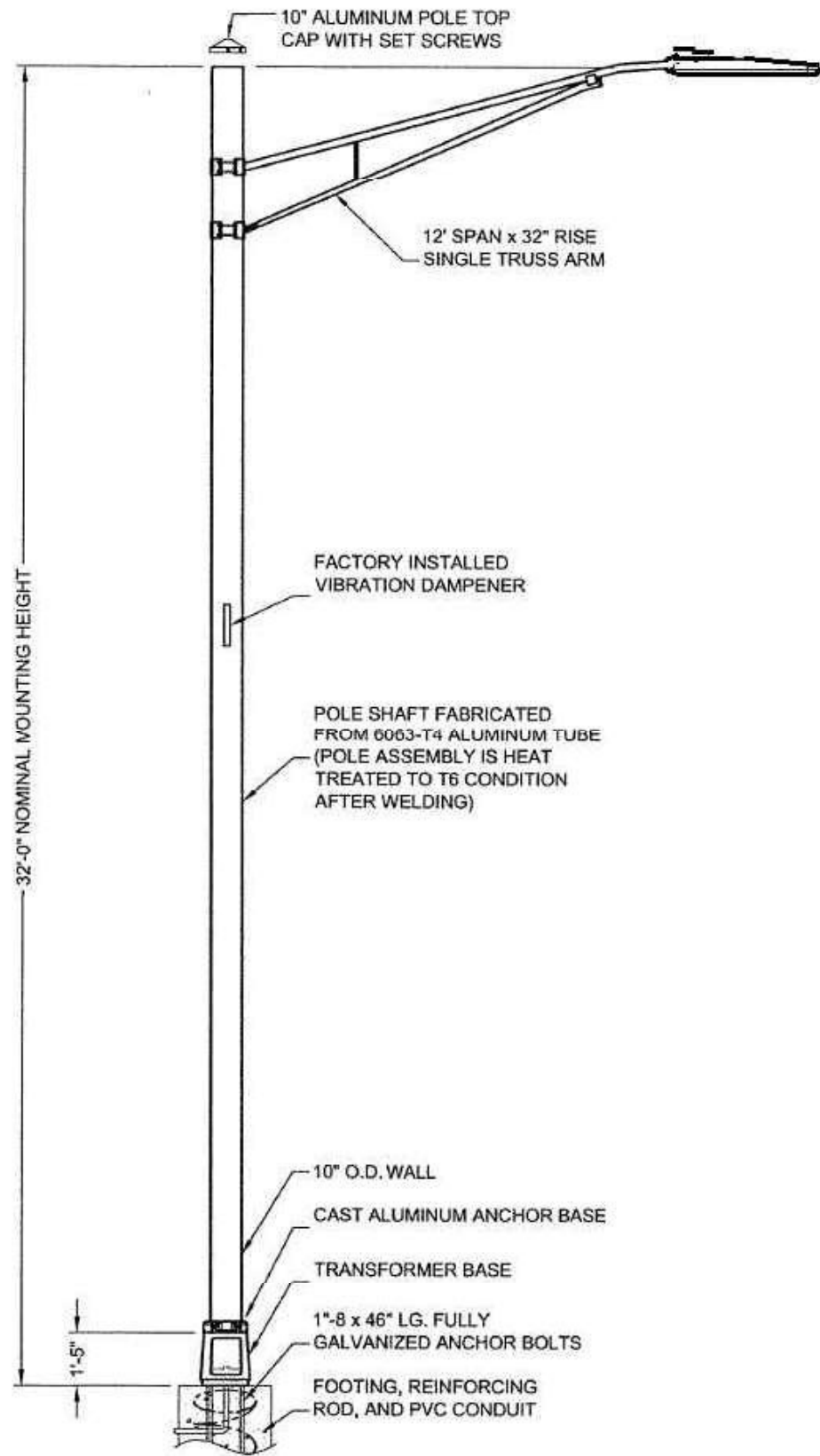
Brannon & Gillespie, LLC
Consulting Engineers
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DRAWINGS FOR:
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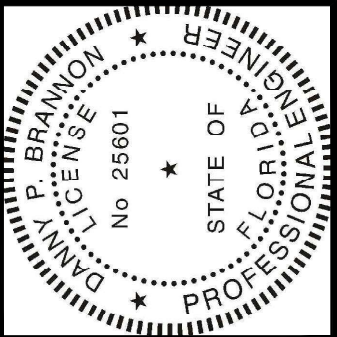


GMD STREET LIGHTS

- Pole Material - Aluminum
- Pole Type – Straight round
- Fixture Mounting Height – 32’ maximum
- Pole Color - Black Powder Coat
- Base Type – Anchor Base
- Breakaway (Frangible) Base Option to be provided per FDOT requirements.
- Mounting Arm Length – 12’
- Luminaire Model – Phillips Road Focus cobra head LED 3K style or approved equal.
- Luminaires have house side shields where located within sight of any person observing from the beach.
- FUTURE Antenna Model – Commscope VVSSP or approved equal
- FUTURE Small Cell Model – Nokia Flexi-zone Outdoor Microcell Model FW2QQF or approved equal.
- Small Cell Mounting Height -10’
- Excess Capacity – Design to provide excess of 5 sq ft EPA for future antenna equipment loading.
- Anchor Base Design and Wind loading calculations to be provided by equipment supplier.
- Voltage to be 240V-1Ø. Ballasts to be universal type. Voltage Drop shall not exceed 5%.
- Street light tap handholes shall be 10" x 17" at Light Poles.
- Minimum size wire shall be less than #10 AWG CU THHN or approved equal.
- Minimum conduit size shall be 1" for tap to pole, and 2" for feeders.
- Where alternate luminaires are proposed, supplier shall provide FDOT compliant photometrics.
- All Luminaires to be equipped with photocell control.

Topic #625-000-002
FDOT Design Manual
January 1, 2021

Table 215.2.2 Minimum Lateral Offset Criteria						
Design Element		Curbed Roadways				High Speed Curbed and Flush Shoulder Roadway
		New Construction		RRR		
		Design Speed				
		25-35 mph	40-45 mph	25-35 mph	40-45 mph	
Light Poles	Conventional	Do not locate in Medians, except in conjunction with barriers that are justified for other reasons. See FD​M 215.2.9 .				
		1.5 feet	4.0 feet	1.5 feet	1.5 feet	20 feet from Travel Lane, 14 feet from Auxiliary Lane. or Clear Zone width, whichever is less
	High Mast	Outside Clear Zone				
Signal Poles and Controller Cabinets		Do not locate in Medians, except for PHB in accordance with FD​M 215.2.9 .				
		1.5 feet	4.0 feet	1.5 feet	1.5 feet	Outside Clear Zone

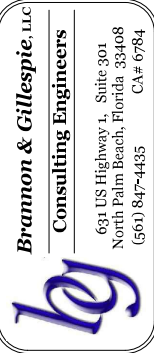


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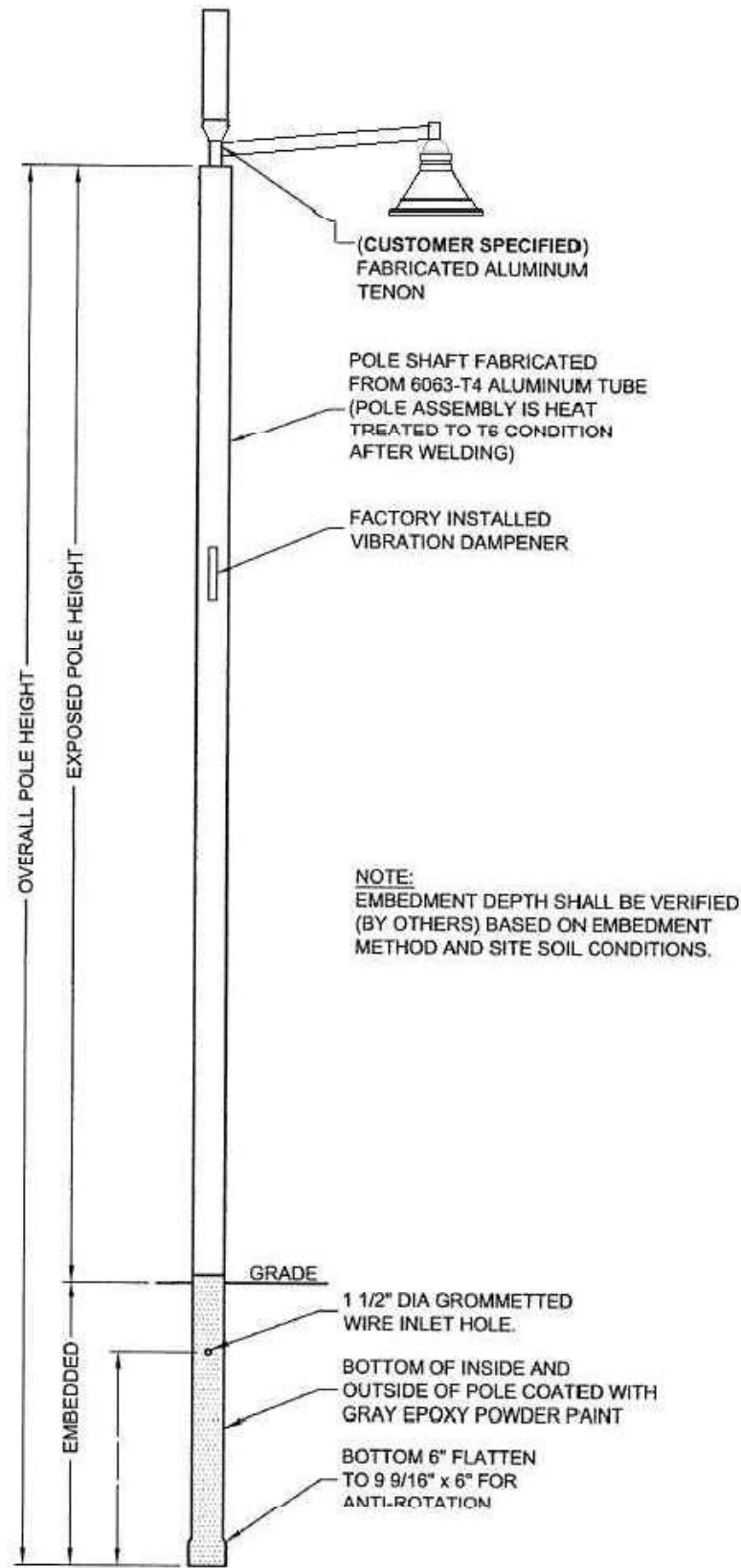
DRAWINGS FOR:
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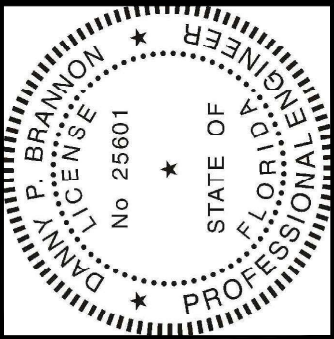
Sheet

D1 OF 3



NEIGHBORHOOD STREET LIGHTS

- Pole Material - 6063-T4 Aluminum or approved equal
- Pole Type - Straight round
- Pole Height - 22.5' maximum
- Pole Color - Black
- Base Type - Direct Bury
- Breakaway Option - No
- Arm Length - 5'
- Arm Style - Visionaire TNS-101 S-1
- Arm Height - Tenon Mount at top of pole.
- Arm Type - Single
- Luminaire Model - Visionaire ODN-2-L-T3-48LC-5-3K-UNV-AM-BK-H1-PC240
- FUTURE Antenna Model - Commscope VVSSP (Height=2')
- FUTURE Small Cell Model - Nokia Flexi-zone Outdoor Microcell Model FW2QQF
- FUTURE Small Cell Mounting Height -10'
- Wind speed rating - 150 MPH minimum design
- Design to provide excess of 5 sq ft EPA for future antenna loading.
- Anchor Base Design and Wind loading calculations to be provided by equipment supplier.
- Voltage to be 240V-1Ø. Ballasts to be universal type. Voltage Drop shall not exceed 5%.
- Street light tap handholes shall be 10" x 17" at Light Poles.
- Minimum size wire shall be less than #10 AWG CU THHN or approved equal.
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- Where alternate luminaires are proposed, supplier shall provide compliant photometrics.
- All Luminaires to be equipped with photocell control.

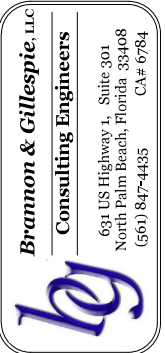


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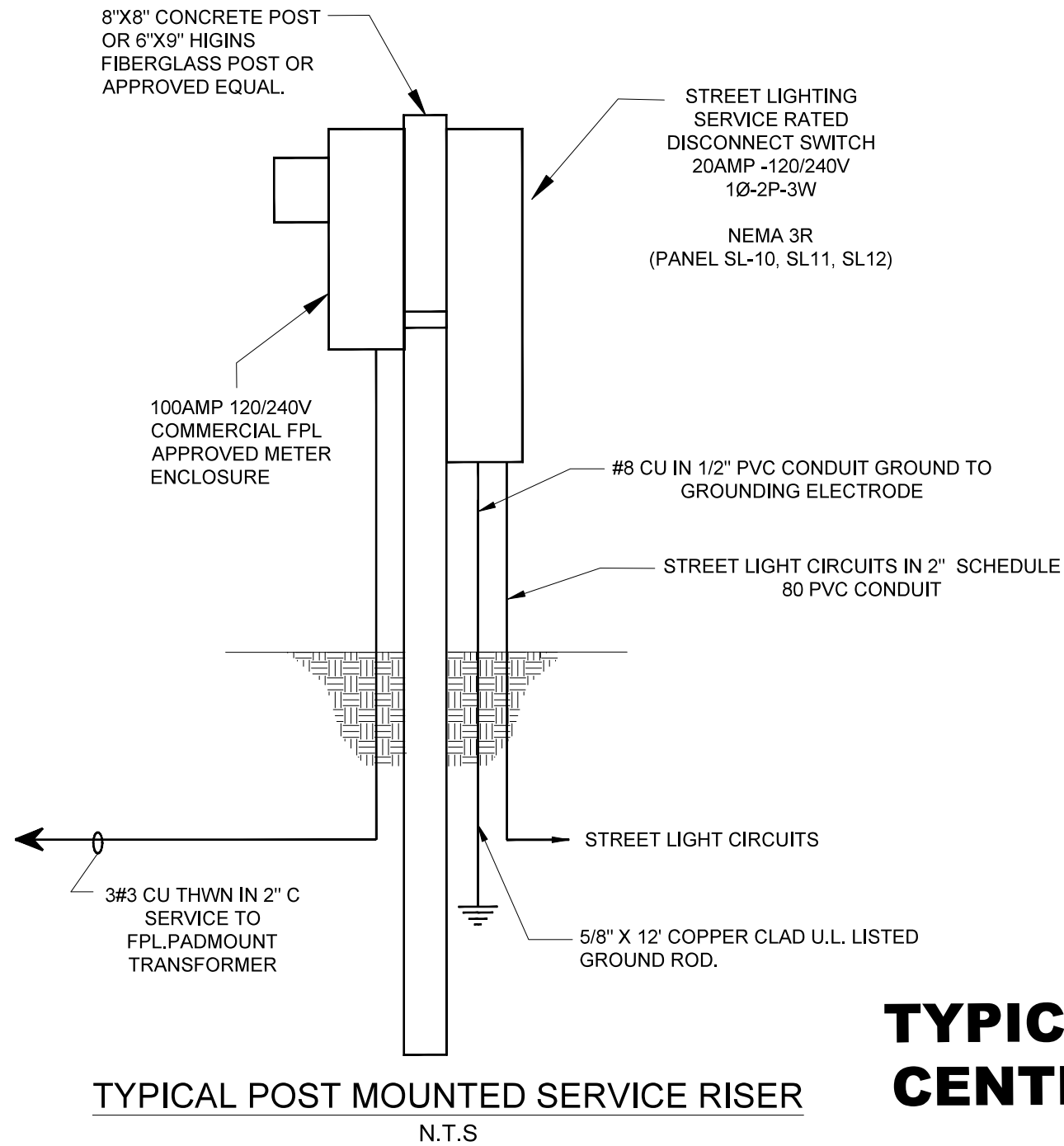


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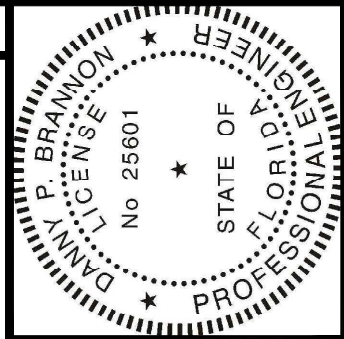


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**TYPICAL POWER
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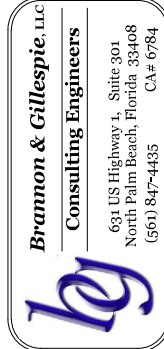


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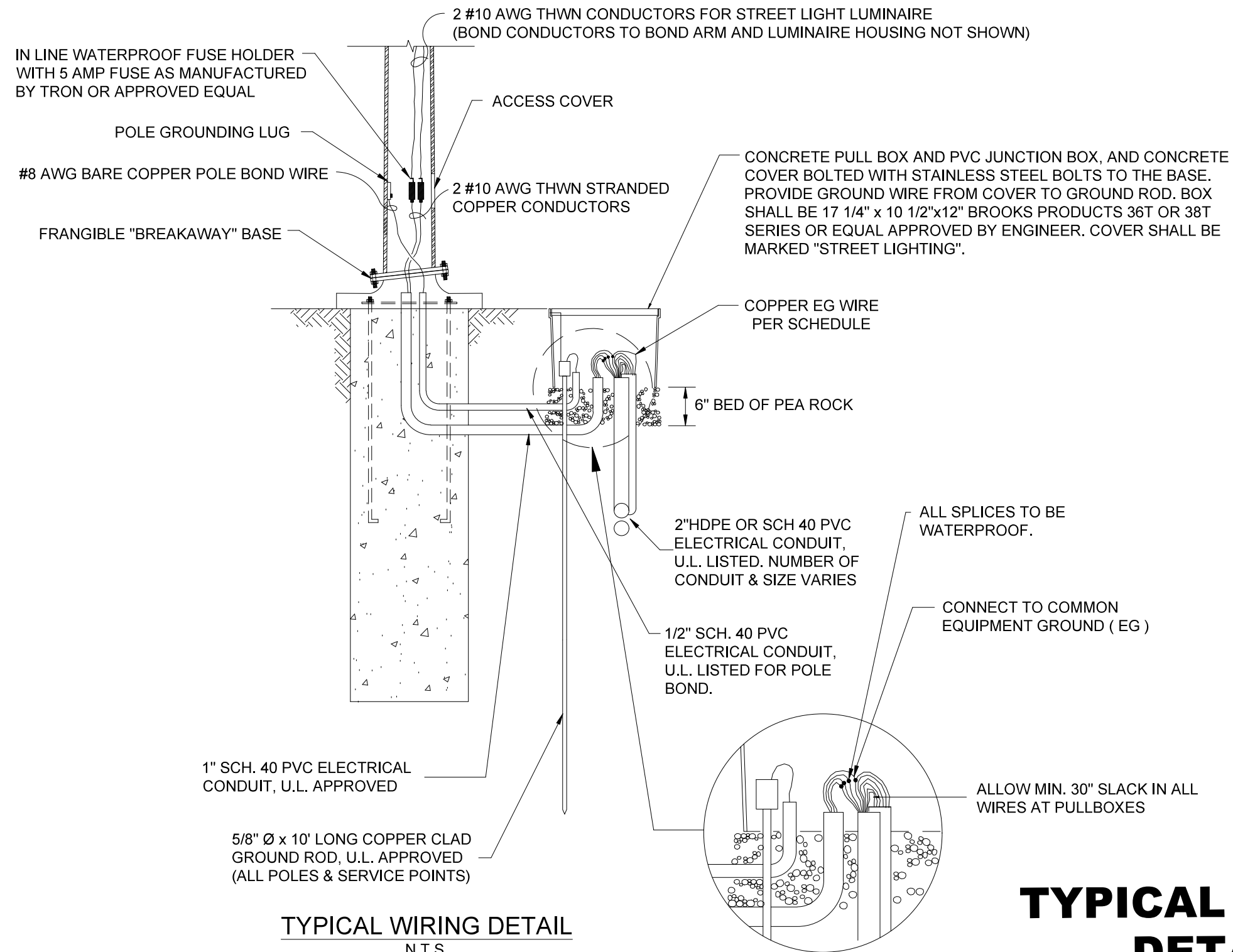
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LONGBOAT KEY, FLORIDA

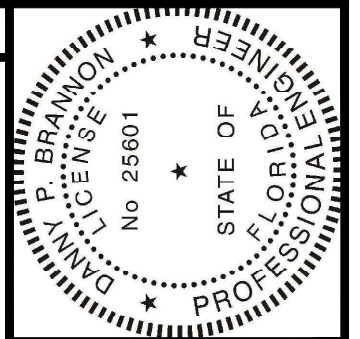


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TYPICAL WIRING DETAIL
N.T.S.

TYPICAL WIRING DETAIL

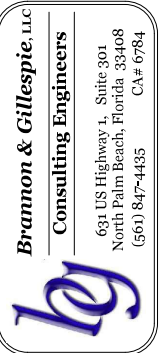


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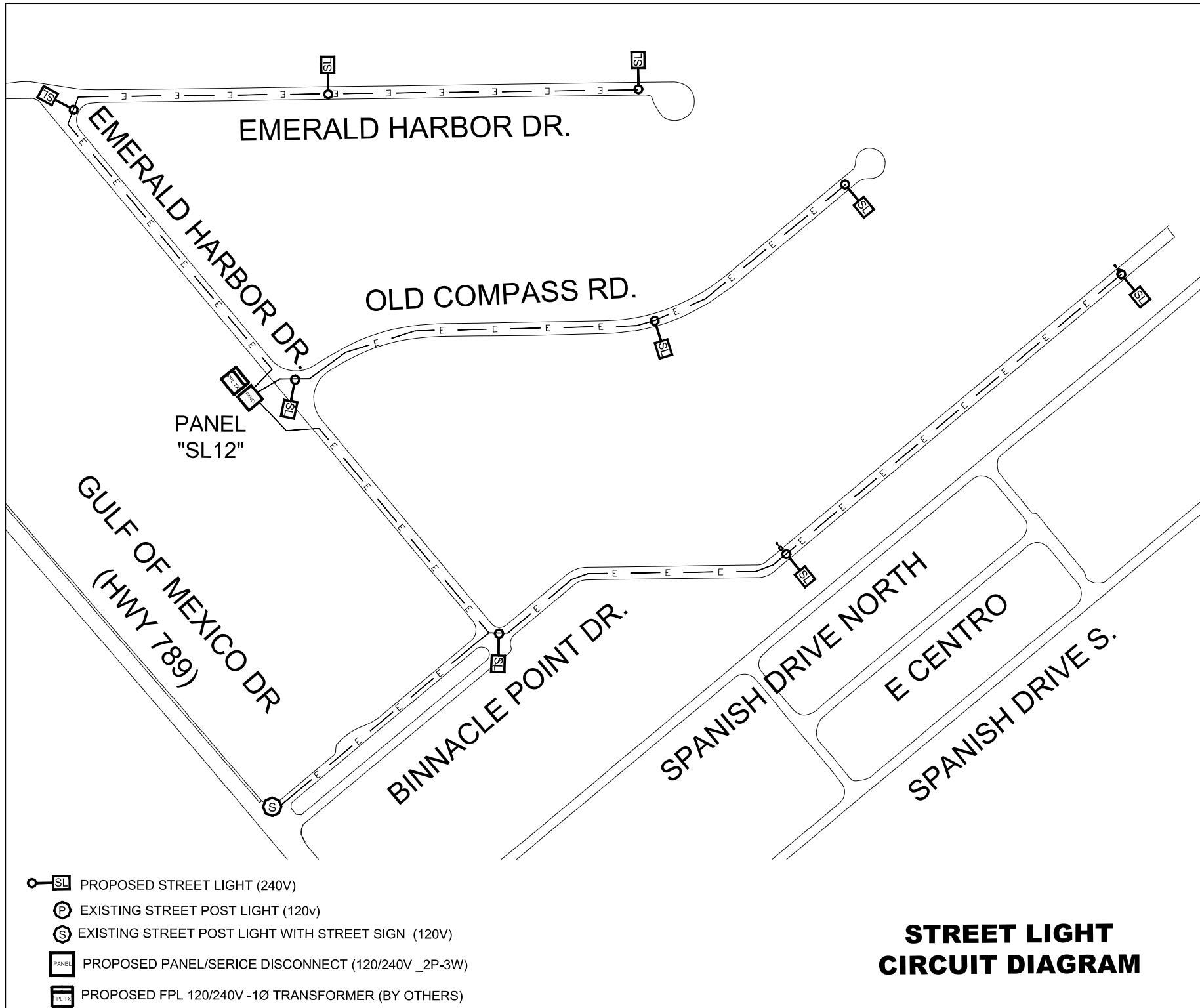
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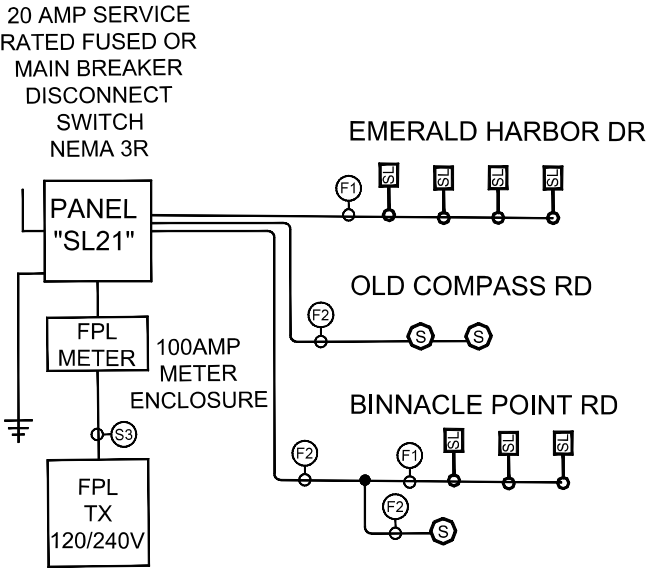
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D2 OF 3



STREET LIGHT
CIRCUIT DIAGRAM

STREET LIGHT RISER DIAGRAM
PHASE 4 - Panel "SL12"



#8 CU GEC IN
3/4" PVC
CONDUIT.

COPPER CLAD
GROUNDING
ELECTRODE

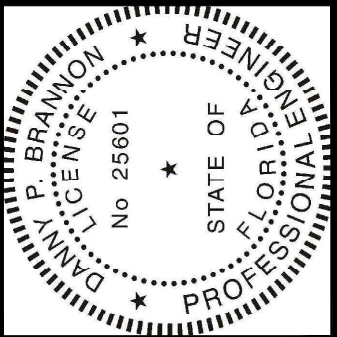
- NOTES:
- EQUIPMENT GROUND TO BE SIZED IN EACH CONDUIT RUN TO BE EQUAL TO THE SIZE OF THE LARGEST CURRENT CARRYING CONDUCTOR.
 - CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 5%.

WIRE LEGEND

- F1 - 2#10 CU THWN IN 2" PVC CONDUIT
F2 - 2#10 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F8 - 2#8 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F6 - 2#6 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F4 - 2#4 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
S3 - 2#8 CU THWN & 1#8CU THWN N IN 2" PVC CONDUIT

OAD CALCULATIONS:

3MD FIXTURES X 160VA X 125% = 1000VA
1 NH FIXTURE X 82VA X 125% = 103VA
5 DECORATIVE SIGN POSTS X 390VA X 125% = 2438VA
TOTAL LOAD = 3541VA (14.7 AMPS AT 240VOLTS)

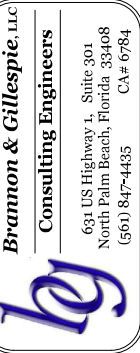


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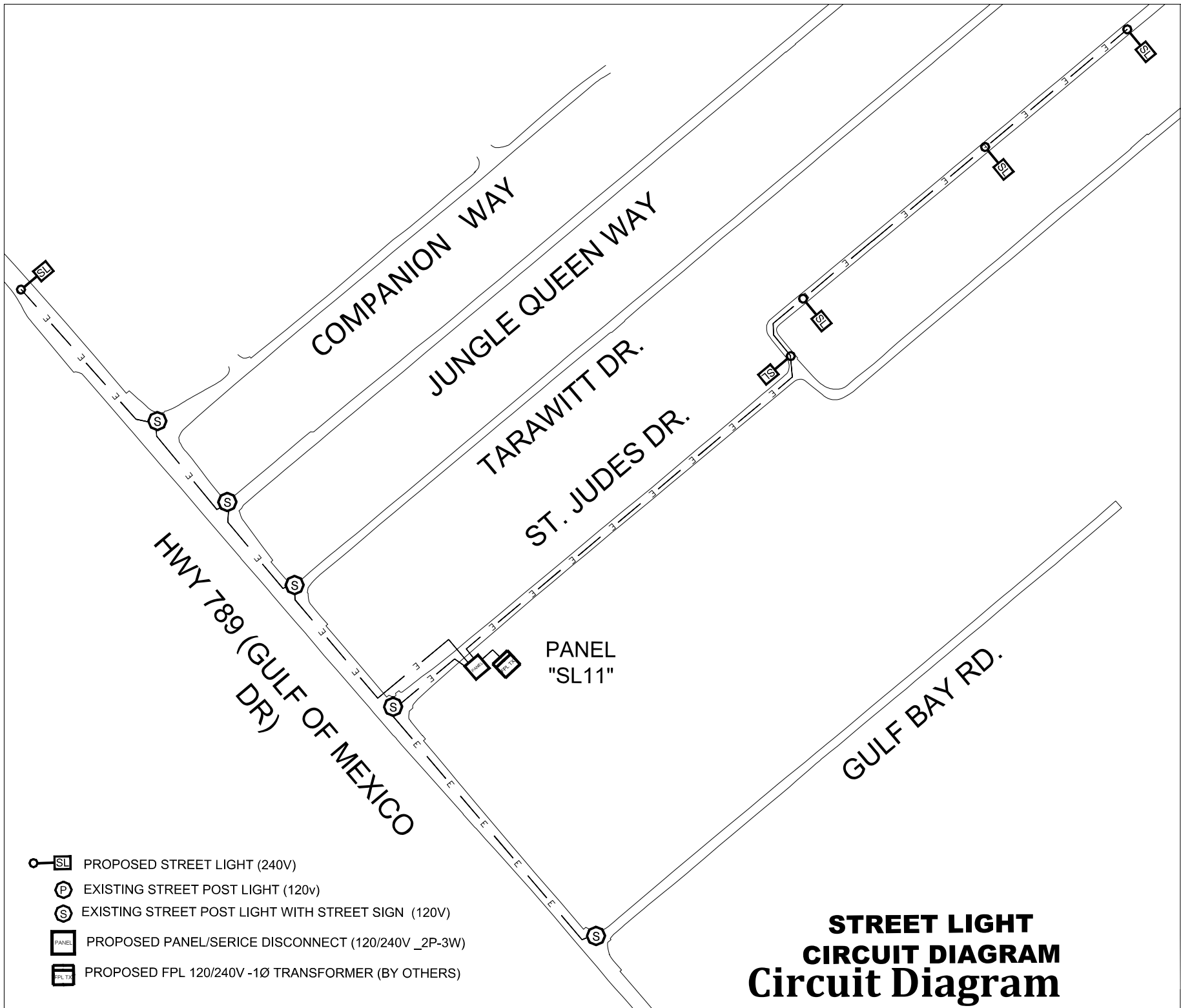
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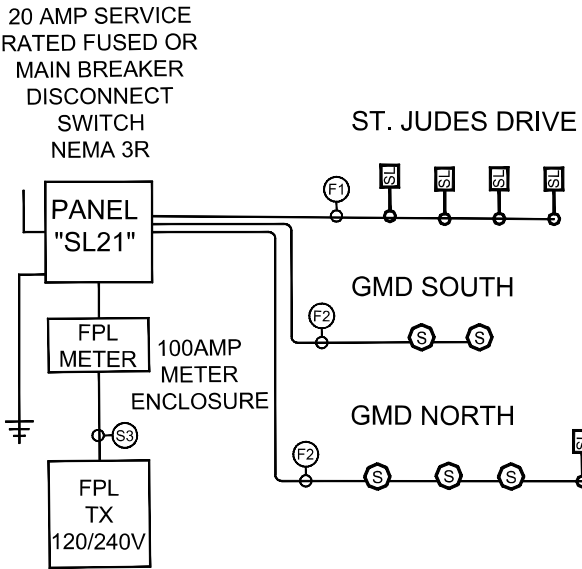
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K1 OF 3



STREET LIGHT
CIRCUIT DIAGRAM
Circuit Diagram

STREET LIGHT RISER DIAGRAM
PHASE 4 - Panel "SL11"



#8 CU GEC IN
3/4" PVC
CONDUIT.

COPPER CLAD
GROUNDING
ELECTRODE

- NOTES:
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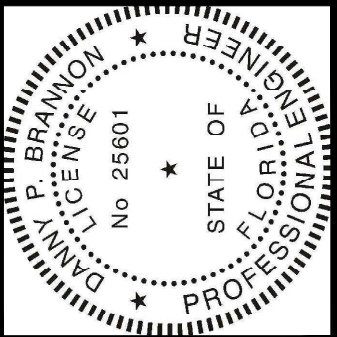
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F6 - 2#6 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F4 - 2#4 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
S3 - 2#8 CU THWN & 1#8CU THWN N IN 2" PVC CONDUIT

LOAD CALCULATIONS:

1 GMD FIXTURES X 160VA X 125% = 200VA
4 NH FIXTURE X 82VA X 125% = 410VA
5 DECORATIVE SIGN POSTS X 390VA X 125% = 2438VA
TOTAL LOAD = 3048VA (12.7 AMPS AT 240VOLTS)

Note: 120v loads to be spread across line conductors to minimize load imbalance.

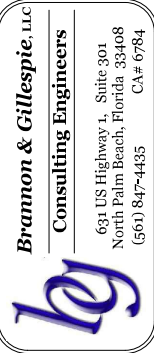


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16:25:18 -04'00'

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FLORIDA P. E. NO. 25601

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Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION
LONGBOAT KEY, FLORIDA

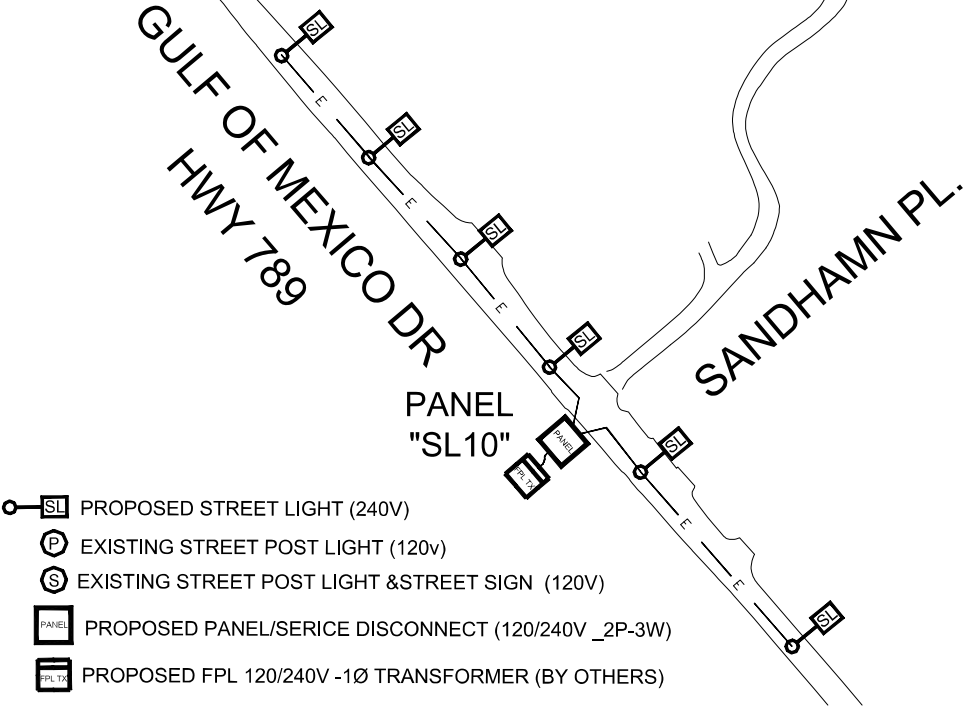


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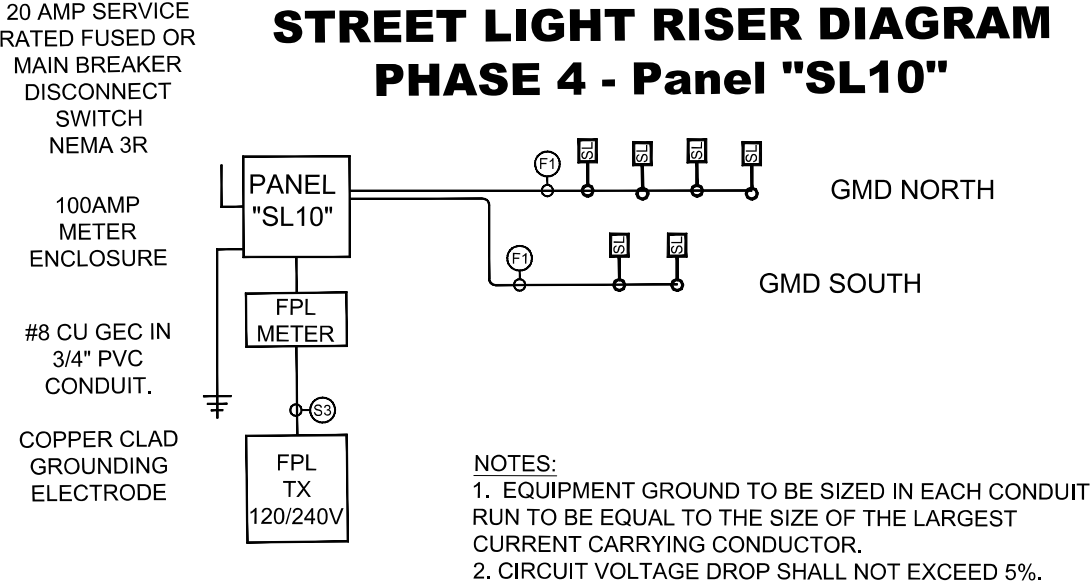
K2 OF 3

STREET LIGHT
CIRCUIT DIAGRAM



125%					
PANEL	CIRCUITS	VA Load	Amps	% VD	Circuit
Panel SL10	1 GMD (4 NORTH LIGHTS)	800	3.33	1.05%	#10 CU THWN
	GMD (2 SOUTH LIGHTS)	400	1.67	0.45%	#10 CU THWN
Panel SL11	2 ST. JUDES DRIVE	410	1.71	2.35%	#10 CU THWN
	3 GMD (1 SOUTH LIGHT)	975	4.06	2.13%	#10 CU THWN
	4 GMD (5 NORTH LIGHTS)	1662.5	6.93	4.57%	#10 CU THWN
Panel SL12	5 EMERALD HARBOR DR	307.5	1.28	1.57%	#10 CU THWN
	6 OLD COMPASS RD.	307.5	1.28	1.13%	#10 CU THWN
	7 BINNACLE POINT RD	795	3.31	4.45%	#10 CU THWN

STREET LIGHT RISER DIAGRAM
PHASE 4 - Panel "SL10"

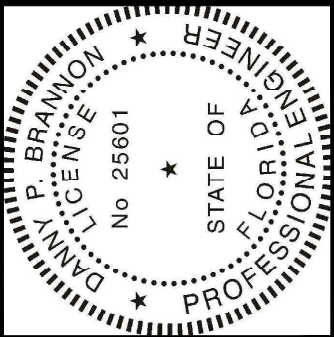


WIRE LEGEND

- F1 - 2#10 CU THWN IN 2" PVC CONDUIT
F2 - 2#10 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F8 - 2#8 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F6 - 2#6 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
F4 - 2#4 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
S3 - 2#8 CU THWN & 1#8CU THWN N IN 2" PVC CONDUIT

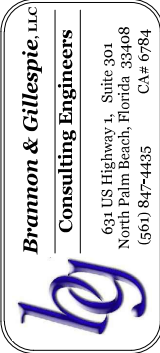
LOAD CALCULATIONS:

6 FIXTURES X 160VA X 125% = 1200VA (5 AMPS AT 240VOLTS)



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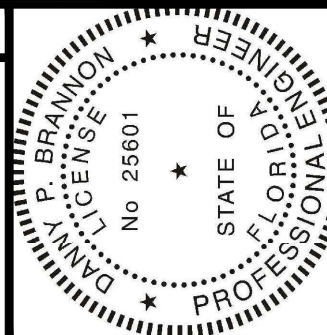
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION
LONGBOAT KEY, FLORIDA



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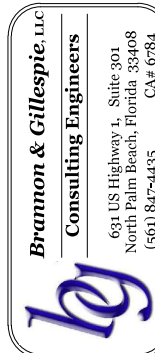
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DATE

Town of Longboat Key

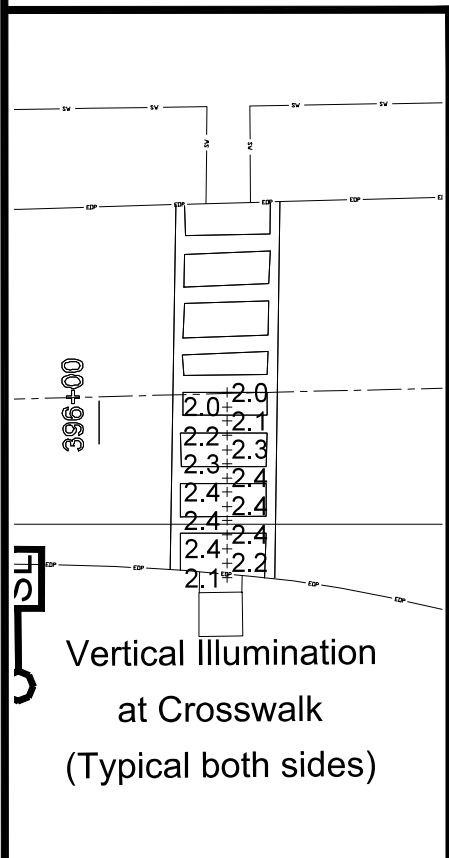
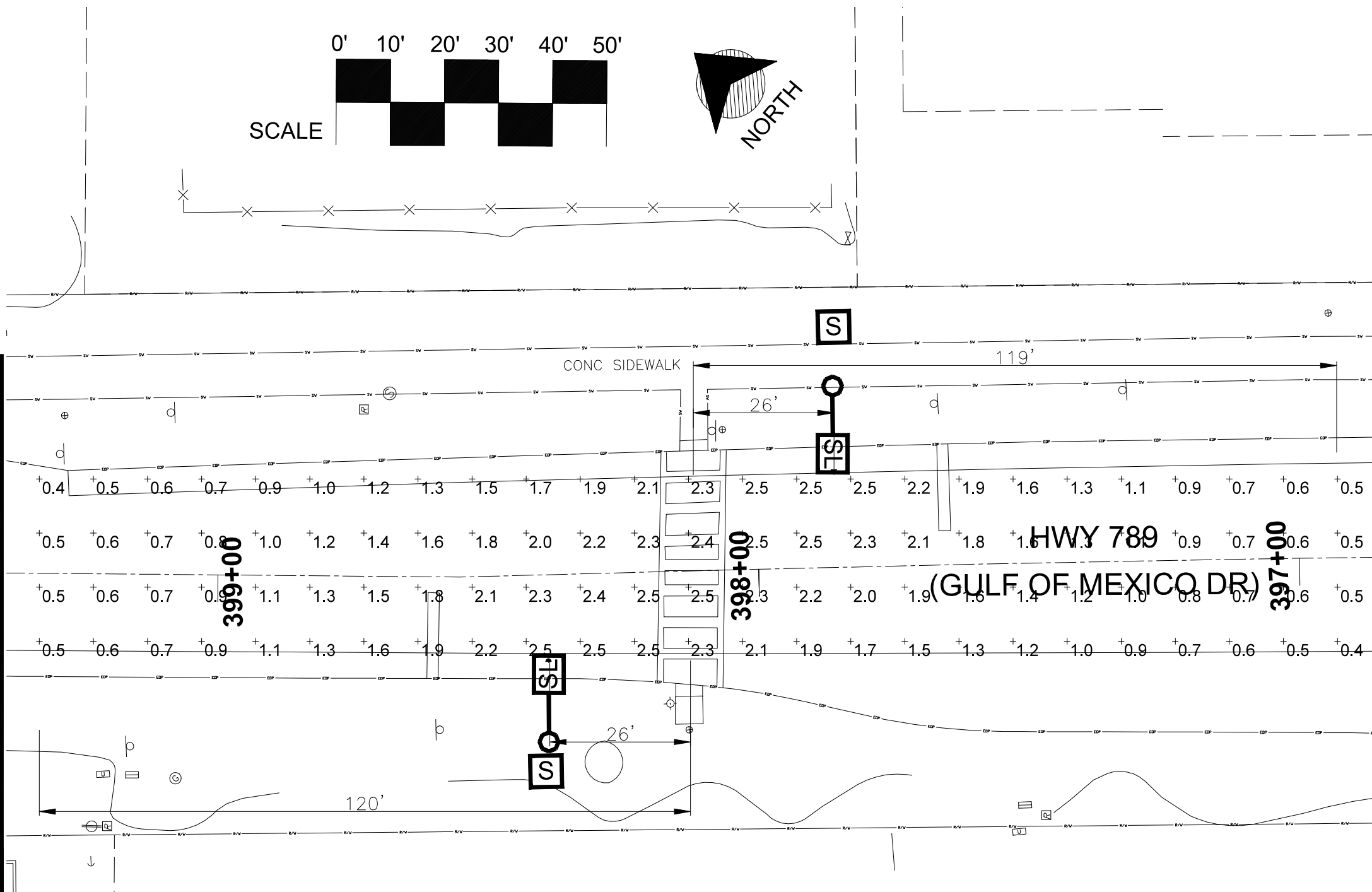


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019
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P1 OF 3

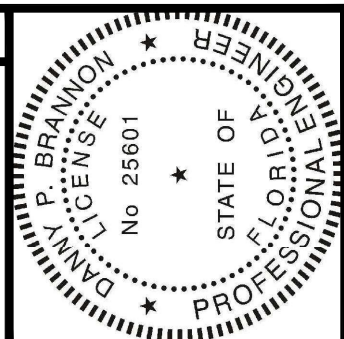
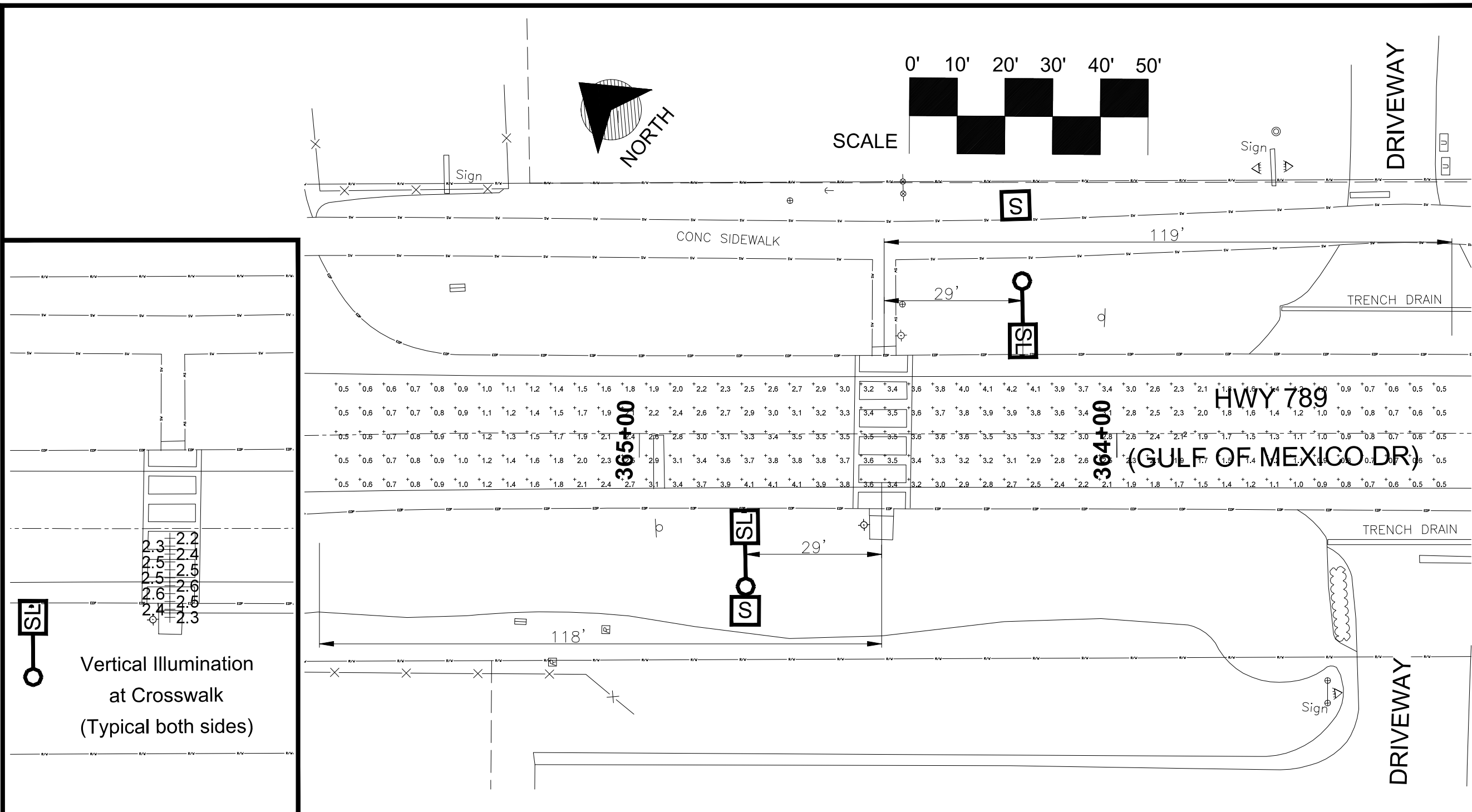


Luminaire Locations										
		Location						Aim		
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
2	A	-941012.90	-329479.50	39.08	35.00	0.00	0.00	-941012.90	-329479.50	4.08
3	A	-940960.10	-329444.10	39.08	35.00	180.00	0.00	-940960.10	-329444.10	4.08

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Calc Elevation
5' Vertical Crosswalk Illuminance	+	2.3 fc	2.4 fc	2.0 fc	1.2:1	1.2:1	5.0'
Approach	+	1.4 fc	2.5 fc	0.4 fc	6.3:1	3.5:1	0.0'

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Wattage
	A	2	SIGNIFY Lumec	RFM-160W48LED3K-G2-R2M	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M OPTIC,	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r2m.jes	18208	160.74

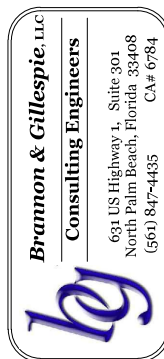
Photometric Plan



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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

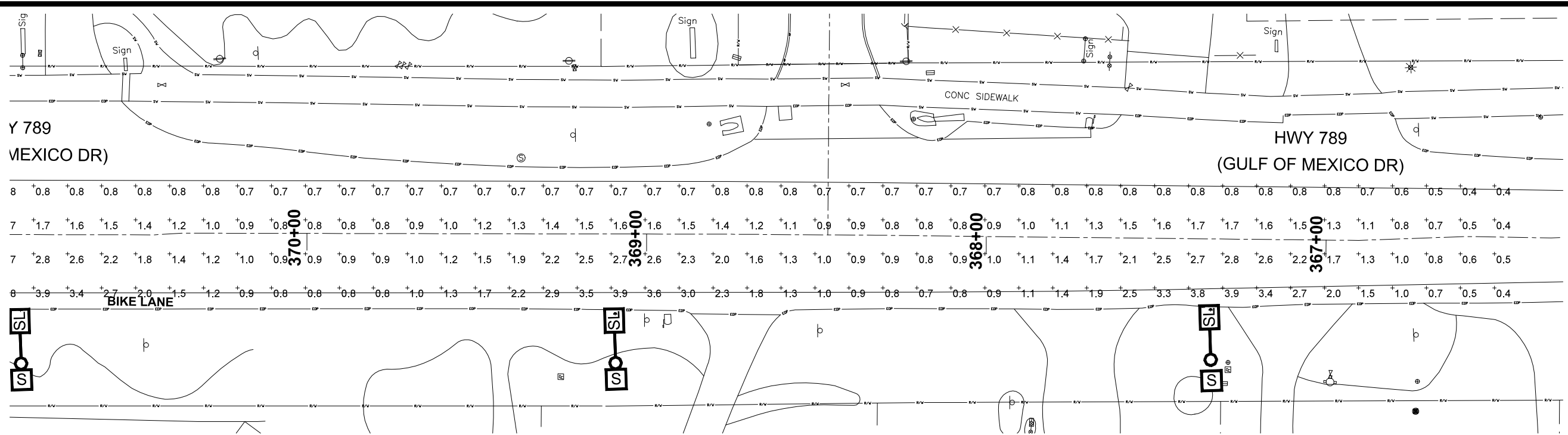
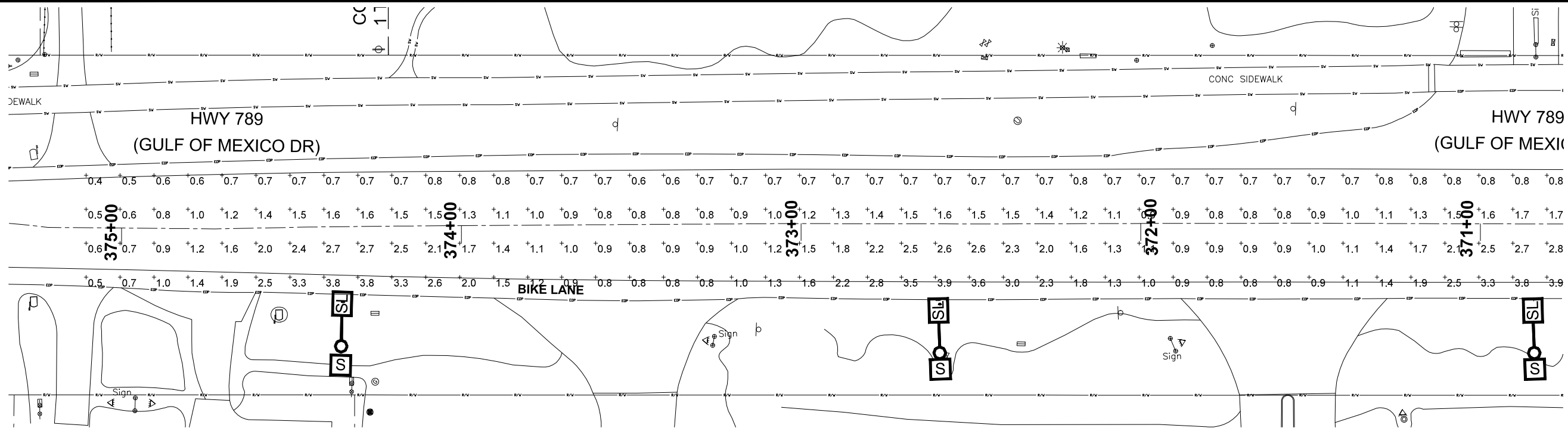


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Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

Photometric Plan

Luminaire Locations																		
		Location						Aim			Statistics							
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z	Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Calc Elevation
1	A	-940964.00	-329884.30	35.00	35.00	180.00	0.00	-940964.00	-329884.30	0.00	Approach Travel Lane	+	2.1 fc	4.2 fc	0.5 fc	8.4:1	4.2:1	0.0'
2	A	-941022.30	-329917.40	35.00	35.00	0.00	0.00	-941022.30	-329917.40	0.00	Crosswalk Vertical	+	2.4 fc	2.6 fc	2.2 fc	1.2:1	1.1:1	5.0'
Schedule																		
Symbol		Label	QTY	Manufacturer		Catalog Number		Description			Lamp		Number Lamps	Filename				
		A	3	SIGNIFY Lumec		RFM-160W48LED3K-G2-R2M		RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M OPTIC,			(3) LEDgine ARRAY(S) DRIVEN AT 1050mA		1	rfm-160w48led3k-g2-r2m.ies				

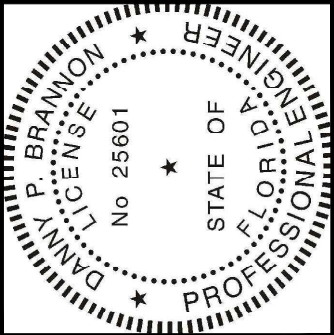
MATCHLINE-STA 105+20
FOR CONTINUATION SEE SHEET 2



Luminaire Locations											Statistics						
		Location						Aim			Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z	Approach	+	1.5 fc	4.2 fc	0.4 fc	10.5:1	3.8:1
3	B	-940993.90	-329918.00	32.00	32.00	358.81	0.00	-940993.90	-329918.00	0.00	Crosswalk	+	3.1 fc	4.2 fc	2.1 fc	2.0:1	1.5:1

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	B	1	SIGNIFY Lumec	RFM-160W48LED3K-G2-R3M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R3M OPTIC, HS	(3) LEDgine ARRAY(S) DRIVEN AT 1050mA	1	rfm-160w48led3k-g2-r3m.ies	18279	0.9	160.74

Photometric Plan



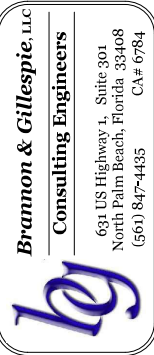
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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2019

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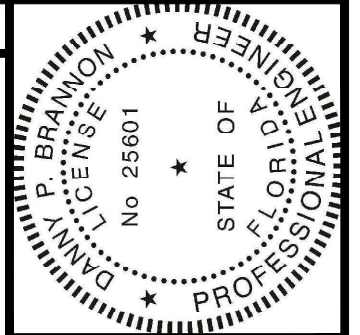
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Job # 2014-LBK

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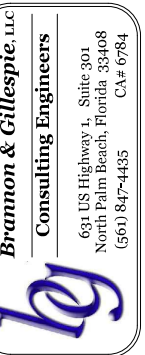
P3 OF 3



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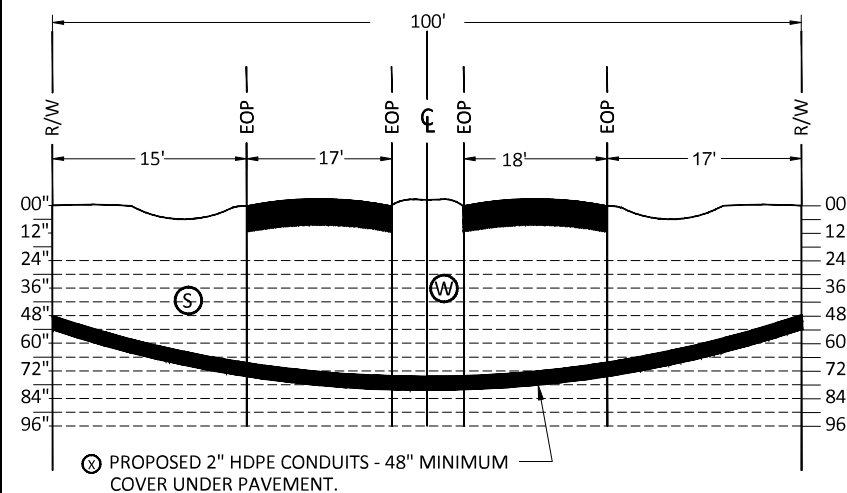
DRAWINGS FOR:
**FIBER OPTIC AND STREET
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CONSTRUCTION**
LONGBOAT KEY, FLORIDA



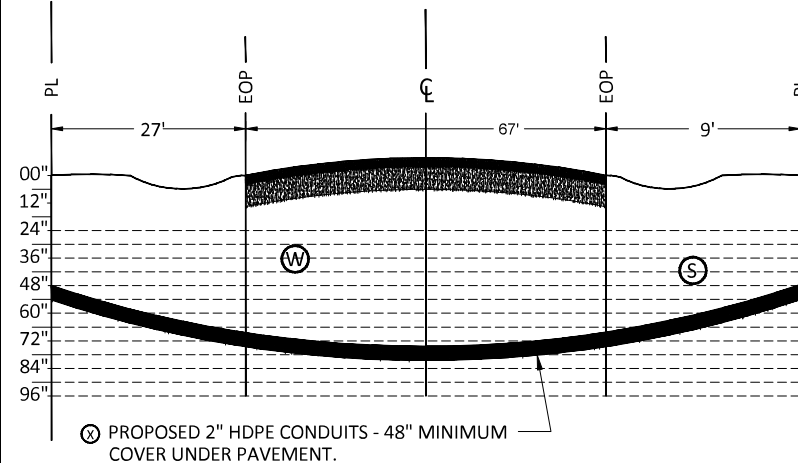
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Sheet

S1 OF 3

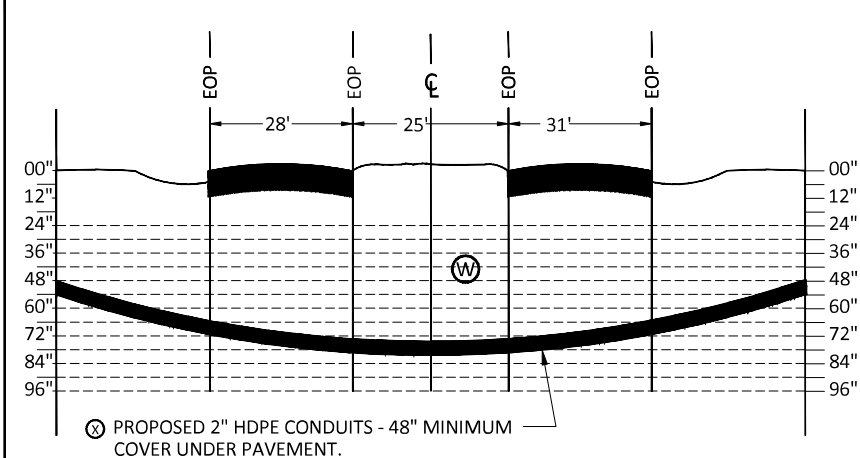
**CROSS SECTION A-A
4473 GULF OF MEXICO DRIVE DRIVEWAY CROSSING
(NTS)**



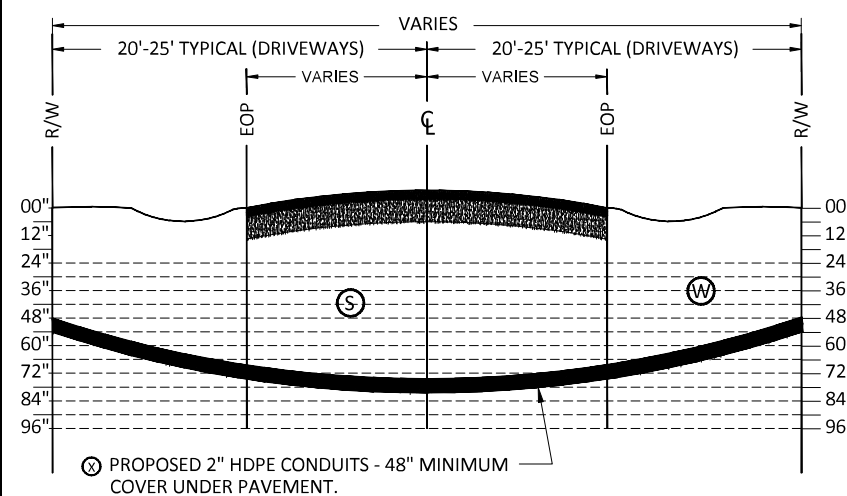
**CROSS SECTION D-D
4561 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



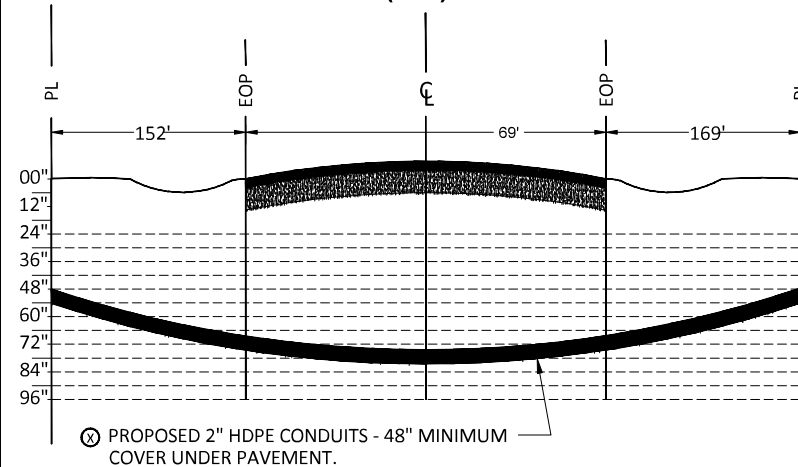
**CROSS SECTION G-G
5055 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



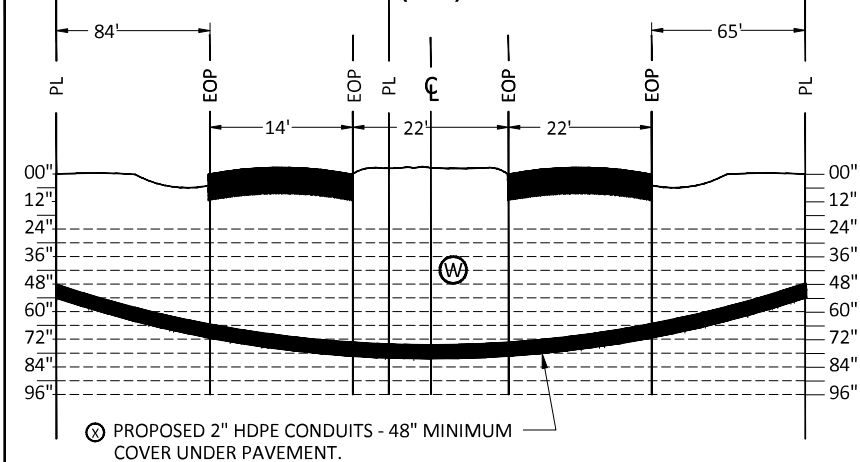
**CROSS SECTION B-B
TYPICAL DRIVEWAY CROSSING
(NTS)**



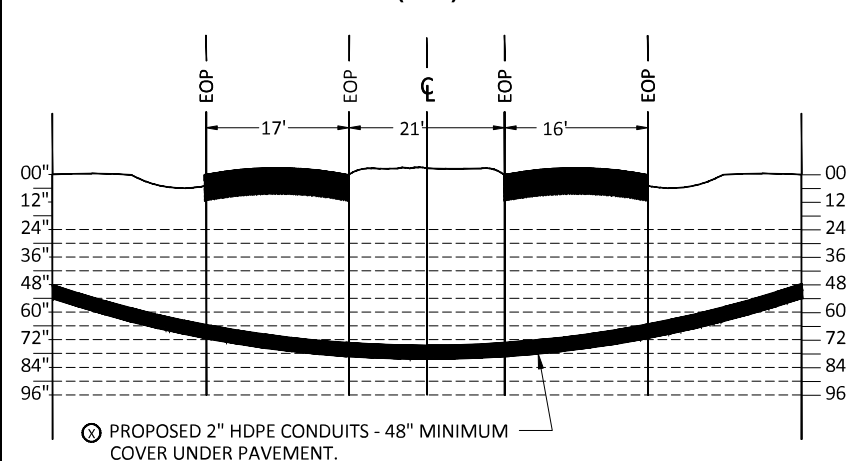
**CROSS SECTION E-E
4711 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



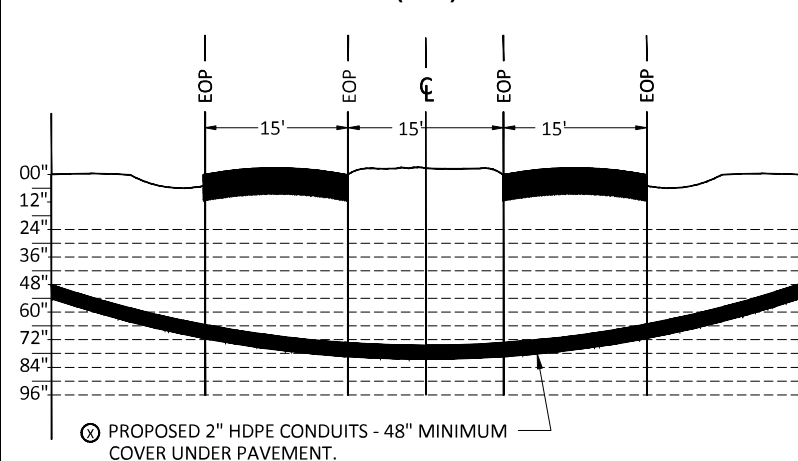
**CROSS SECTION H-H
5115 & 5125 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



**CROSS SECTION C-C
4525 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



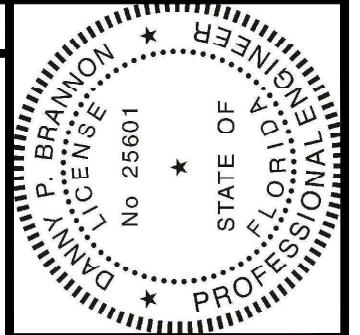
**CROSS SECTION F-F
4835 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



SYMBOL LEGEND

- | | |
|---|--------------------|
| (T) TELEPHONE/CABLE TV | (D) STORM DRAIN |
| (W) WATER | (E) ELECTRIC POWER |
| (X) PROPOSED TOWN STREET LIGHT & FIBER OPTIC FACILITIES (2" CONDUITS) | (G) GAS |
| | (S) SANITARY SEWER |

Cross Sections

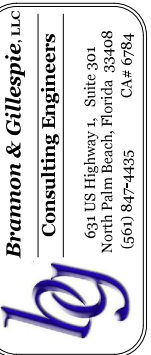


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Town of Longboat Key



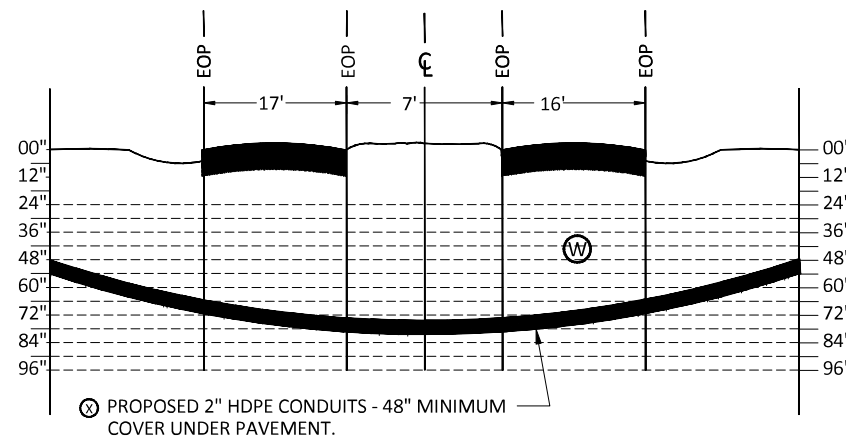
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA



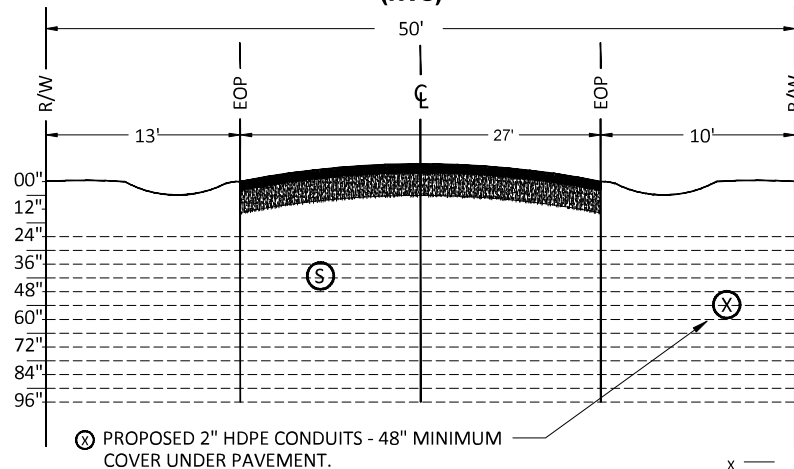
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S2 OF 3

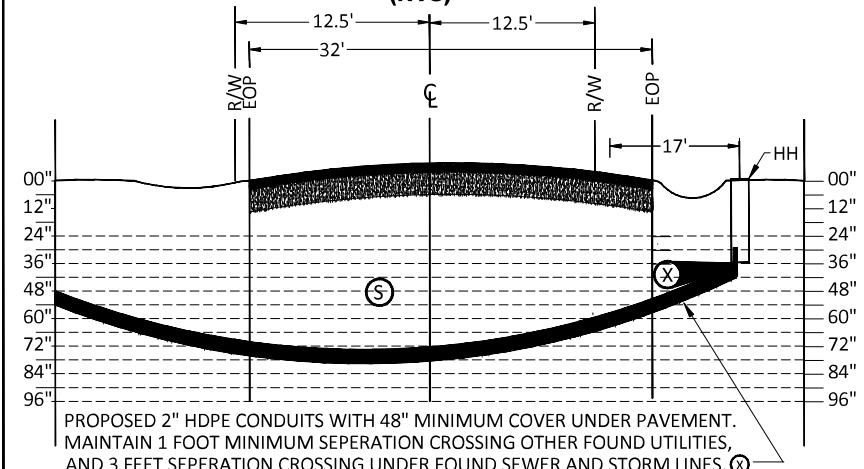
**CROSS SECTION I-I
5231 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



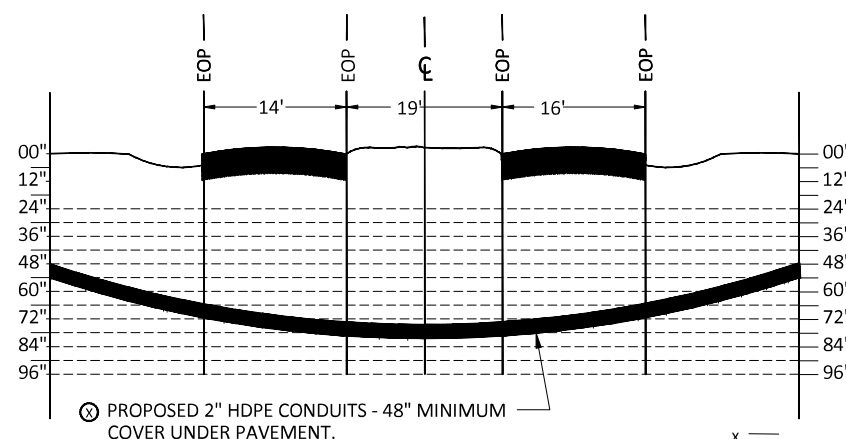
**CROSS SECTION L-L
SANDHAMN PLACE
SIDE STREET LOOKING NORTHEAST
(NTS)**



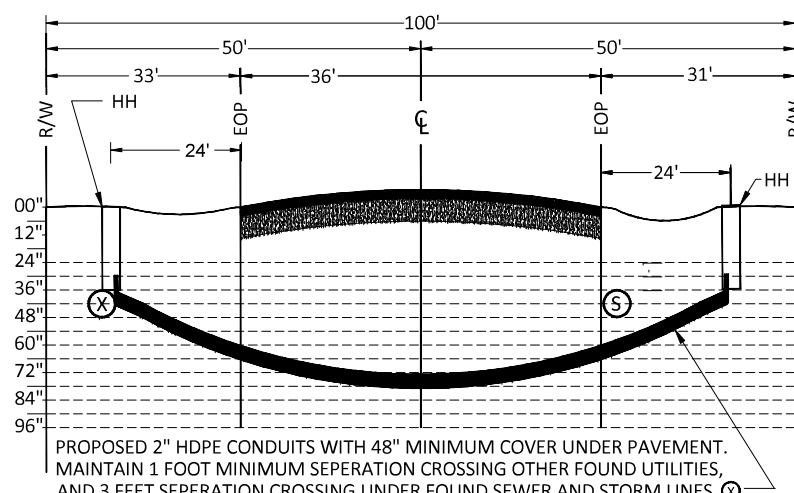
**CROSS SECTION O-O
ST. JUDES DRIVE
SIDE STREET LOOKING NORTHEAST
(NTS)**



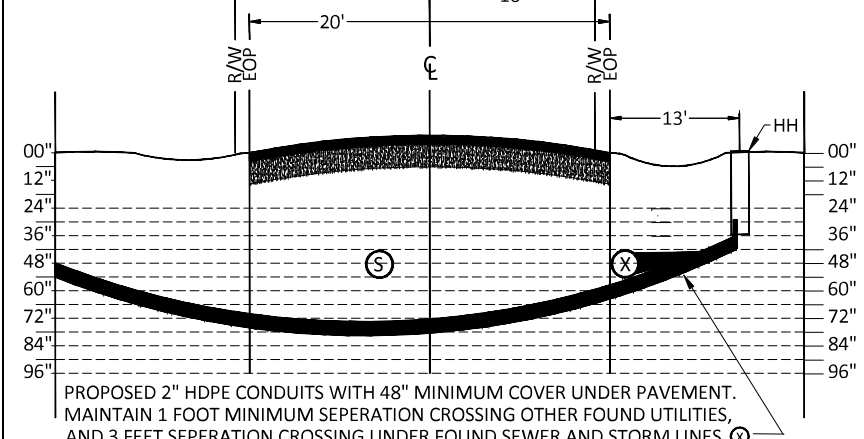
**CROSS SECTION J-J
5321 GULF OF MEXICO DRIVE
MID PROPERTY DRIVEWAY CROSSING
(NTS)**



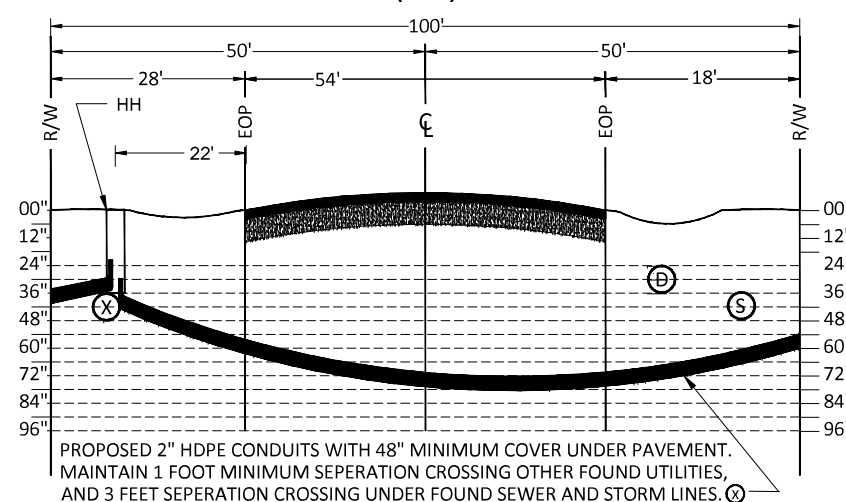
**CROSS SECTION M-M
5523 GULF OF MEXICO DRIVE AT SANDHAMN PLACE
(NTS)**



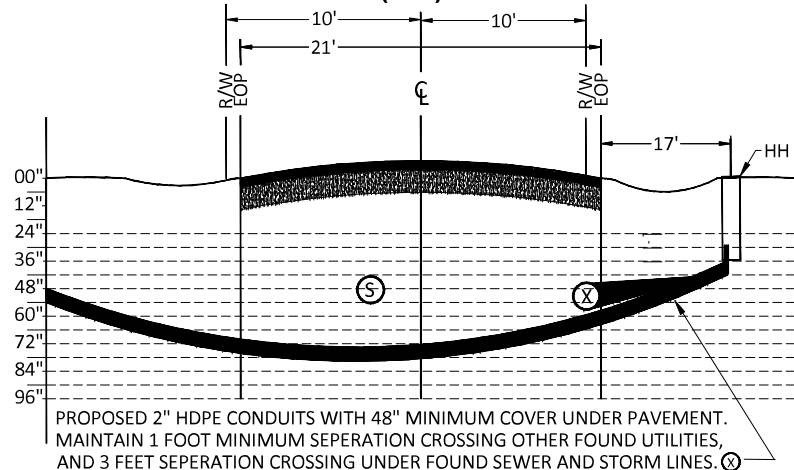
**CROSS SECTION P-P
TARAWITT DRIVE
SIDE STREET LOOKING NORTHEAST
(NTS)**



**CROSS SECTION K-K
GULF OF MEXICO DRIVE AT SANDHAMN PLACE
(NTS)**



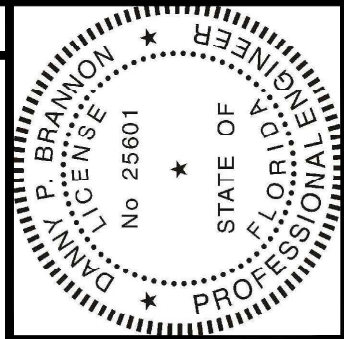
**CROSS SECTION N-N
GULF BAAY RD
SIDE STREET LOOKING NORTHEAST
(NTS)**



SYMBOL LEGEND

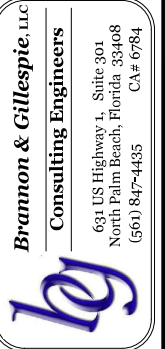
- | | |
|---|--------------------|
| (T) TELEPHONE/CABLE TV | (D) STORM DRAIN |
| (W) WATER | (E) ELECTRIC POWER |
| (X) PROPOSED TOWN STREET LIGHT & FIBER OPTIC FACILITIES (2" CONDUITS) | (G) GAS |
| | (S) SEWER |

Cross Sections



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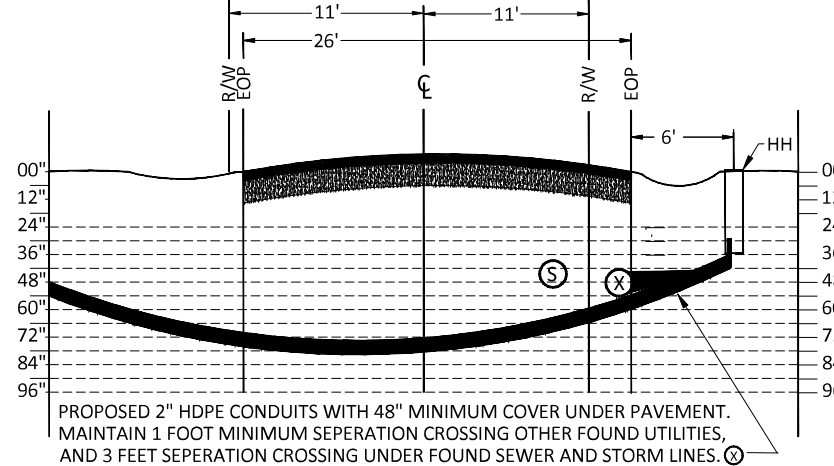


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION**
LONGBOAT KEY, FLORIDA

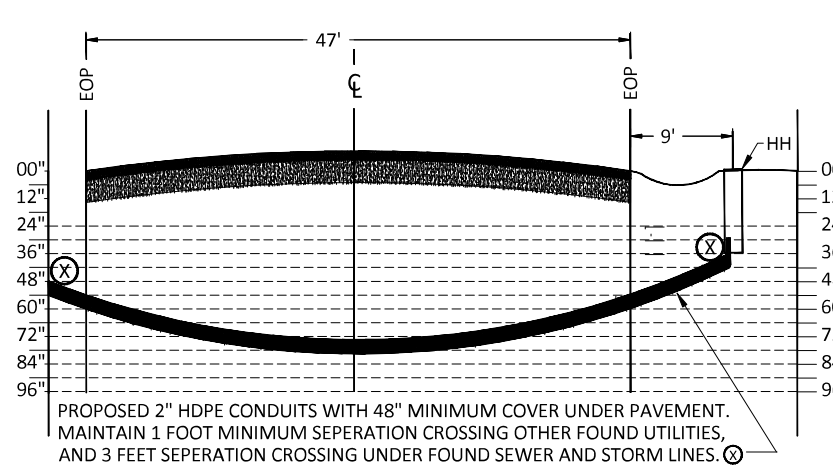


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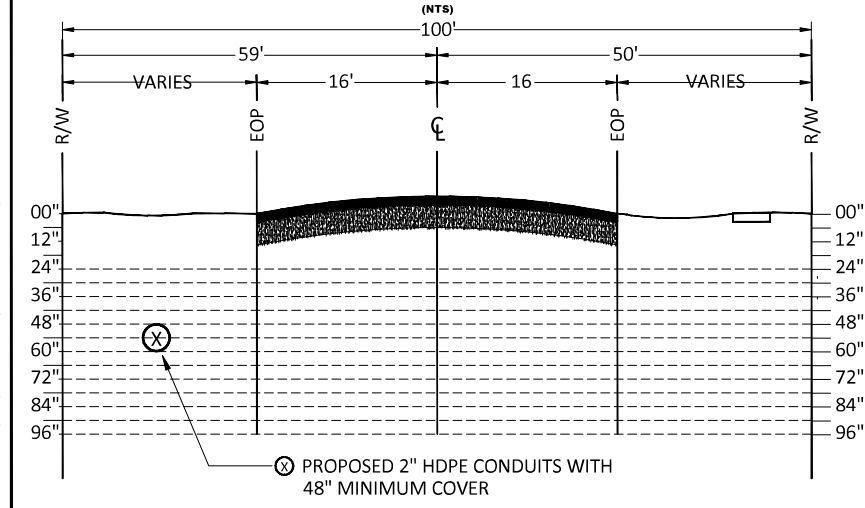
**CROSS SECTION Q-Q
JUNGLE QUEEN WAY
SIDESTREET LOOKING NORTHEAST
(NTS)**



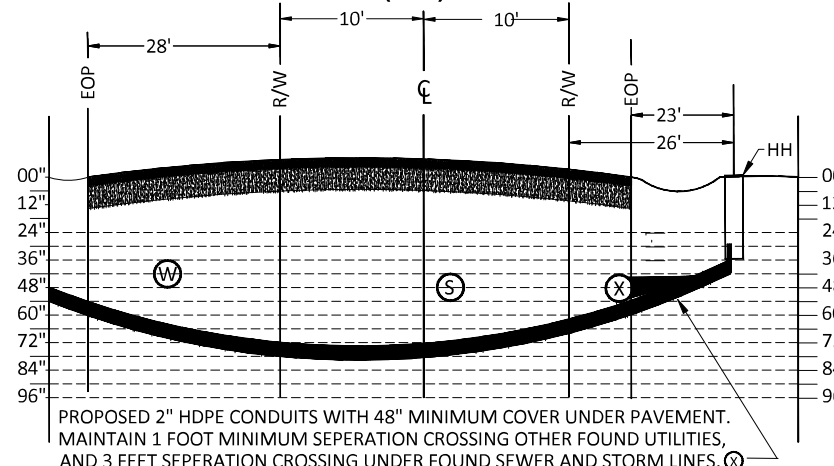
**CROSS SECTION S-S
PRIVATE MID PROPERTY ENTRANCE
LOOKING NORTHEAST
(NTS)**



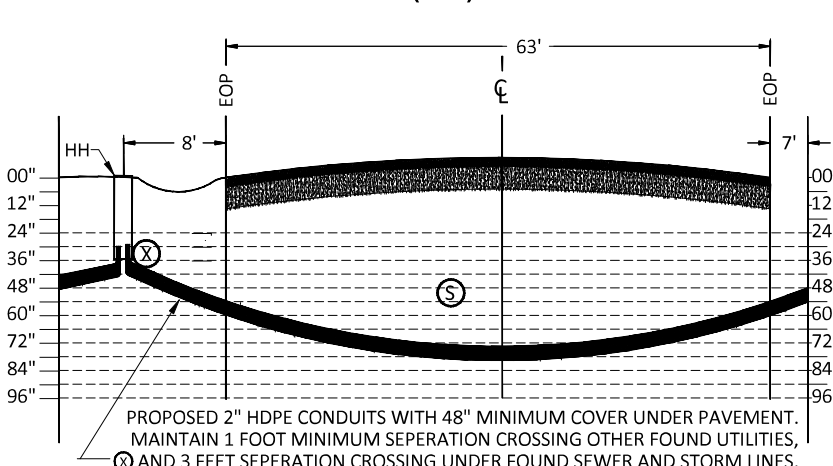
**CROSS SECTION Y-Y
GULF OF MEXICO DRIVE LOOKING NORTH
(NTS)**



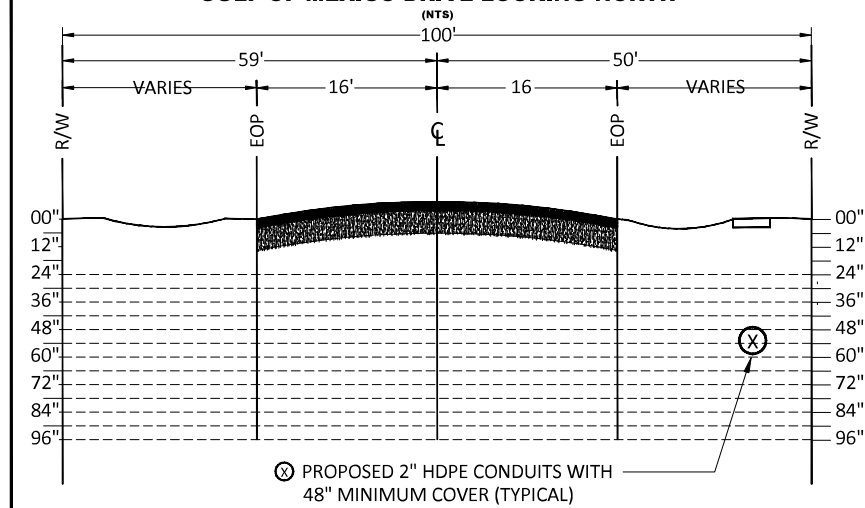
**CROSS SECTION R-R
COMPANION WAY
SIDESTREET LOOKING NORTHEAST
(NTS)**



**CROSS SECTION T-T
PRIVIBIBACLE POINT DRIVE
LOOKING NORTHEAST
(NTS)**



**CROSS SECTION Z-Z
GULF OF MEXICO DRIVE LOOKING NORTH
(NTS)**



SYMBOL LEGEND

- | | |
|--|--------------------|
| (T) TELEPHONE/CABLE TV | (D) STORM DRAIN |
| (W) WATER | (E) ELECTRIC POWER |
| (X) PROPOSED TOWN
STREET LIGHT & FIBER
OPTIC FACILITIES (2"
CONDUITS) | (G) GAS |
| | (S) SEWER |

Cross Sections