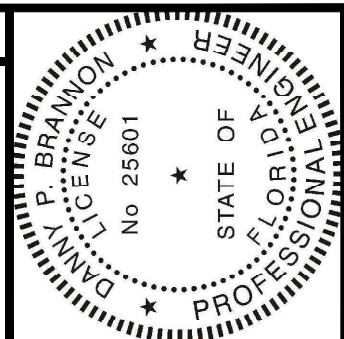
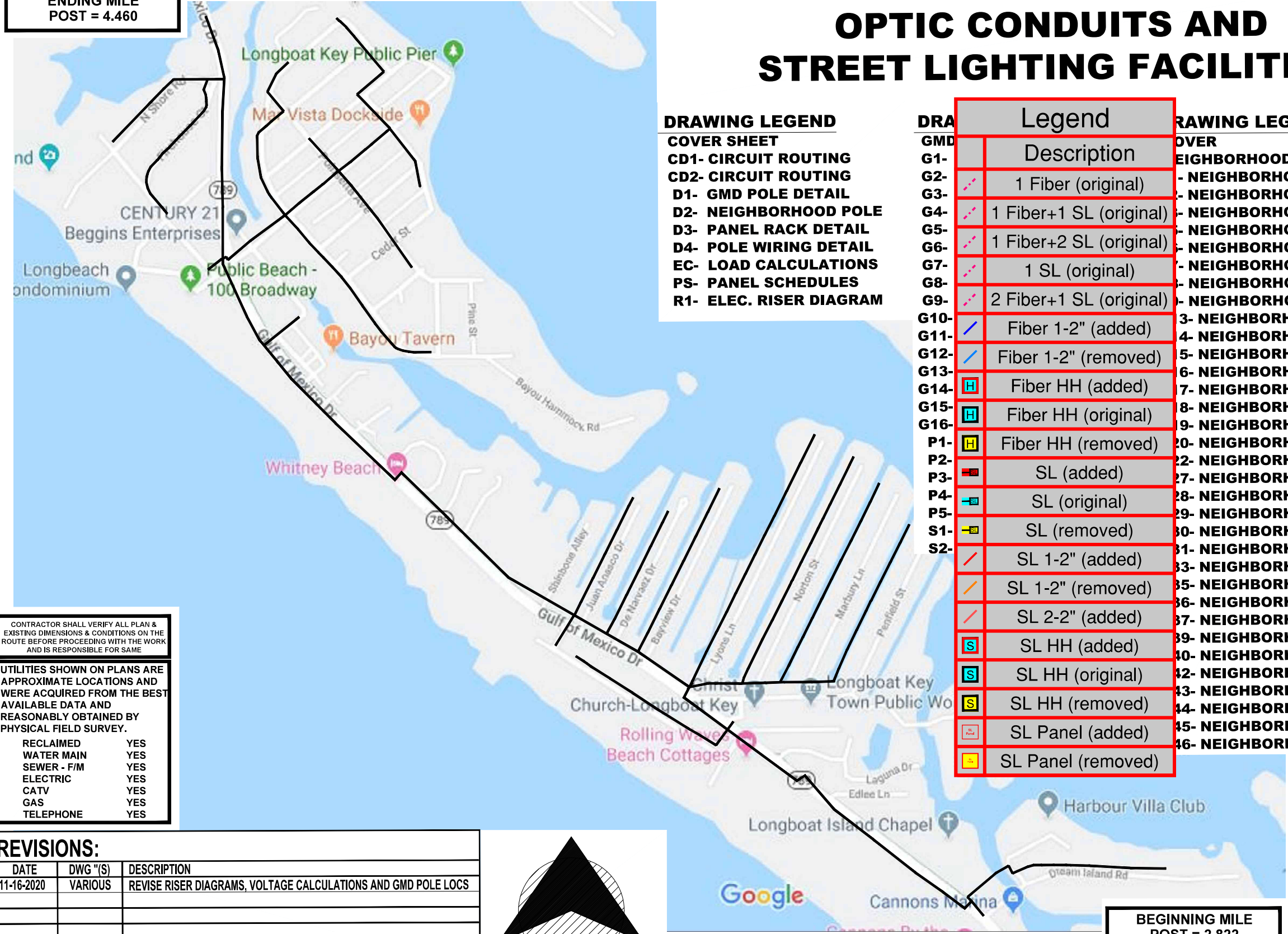


INSTALLATION OF TOWN OWNED FIBER OPTIC CONDUITS AND STREET LIGHTING FACILITIES



ENDING MILE POST = 4.460



DRAWING LEGEND

COVER SHEET

- CD1- CIRCUIT ROUTING
- CD2- CIRCUIT ROUTING
- D1- GMD POLE DETAIL
- D2- NEIGHBORHOOD POLE
- D3- PANEL RACK DETAIL
- D4- POLE WIRING DETAIL
- EC- LOAD CALCULATIONS
- PS- PANEL SCHEDULES
- R1- ELEC. RISER DIAGRAM

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

DRAWING LEGEND

COVER SHEET

- 1- NEIGHBORHOOD KEY MAP
- 2- NEIGHBORHOOD PLAN DRAWING
- 3- NEIGHBORHOOD PLAN DRAWING
- 4- NEIGHBORHOOD PLAN DRAWING
- 5- NEIGHBORHOOD PLAN DRAWING
- 6- NEIGHBORHOOD PLAN DRAWING
- 7- NEIGHBORHOOD PLAN DRAWING
- 8- NEIGHBORHOOD PLAN DRAWING
- 9- NEIGHBORHOOD PLAN DRAWING
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- 46- NEIGHBORHOOD PLAN DRAWING

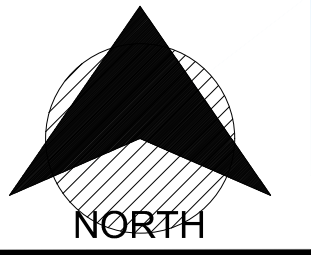
CONTRACTOR SHALL VERIFY ALL PLAN & EXISTING DIMENSIONS & CONDITIONS ON THE ROUTE BEFORE PROCEEDING WITH THE WORK AND IS RESPONSIBLE FOR SAME

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

REVISIONS:

DATE	DWG "(S)	DESCRIPTION
11-16-2020	VARIOUS	REVISE RISER DIAGRAMS, VOLTAGE CALCULATIONS AND GMD POLE LOCS



BEGINNING MILE POST = 2.822

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.

Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

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

DATE 11/16/2020

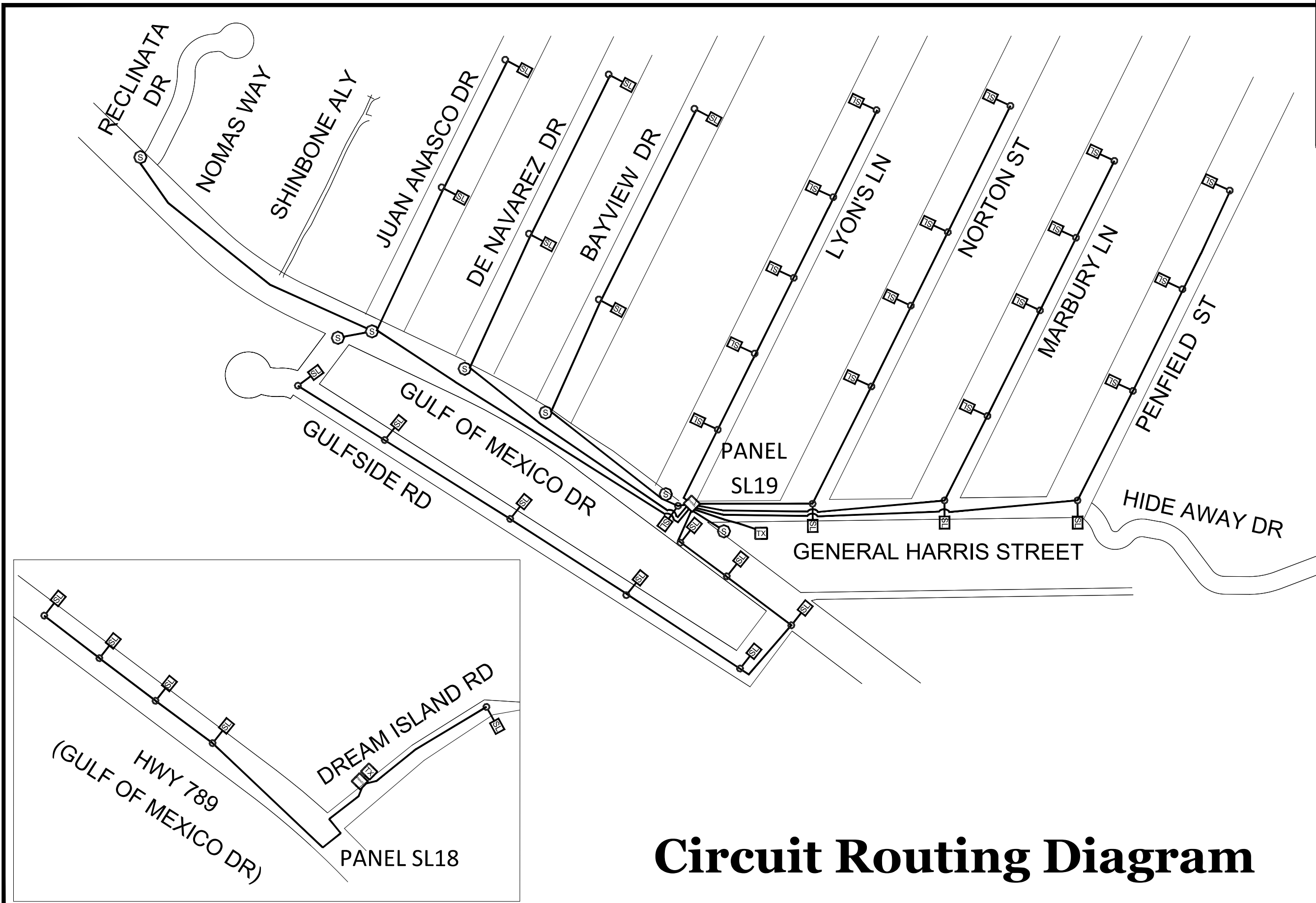
Brammon & Gillespie, LLC
Consulting Engineers

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

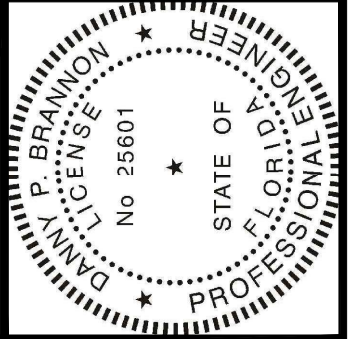
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



Date: 10/22/2020
Scale: AS NOTED
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Checked: DPB
Job #: 2014-LBK
Sheet
COVER SHEET



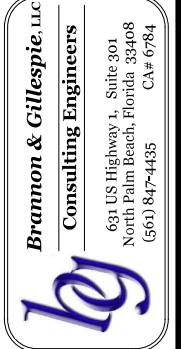
Circuit Routing Diagram



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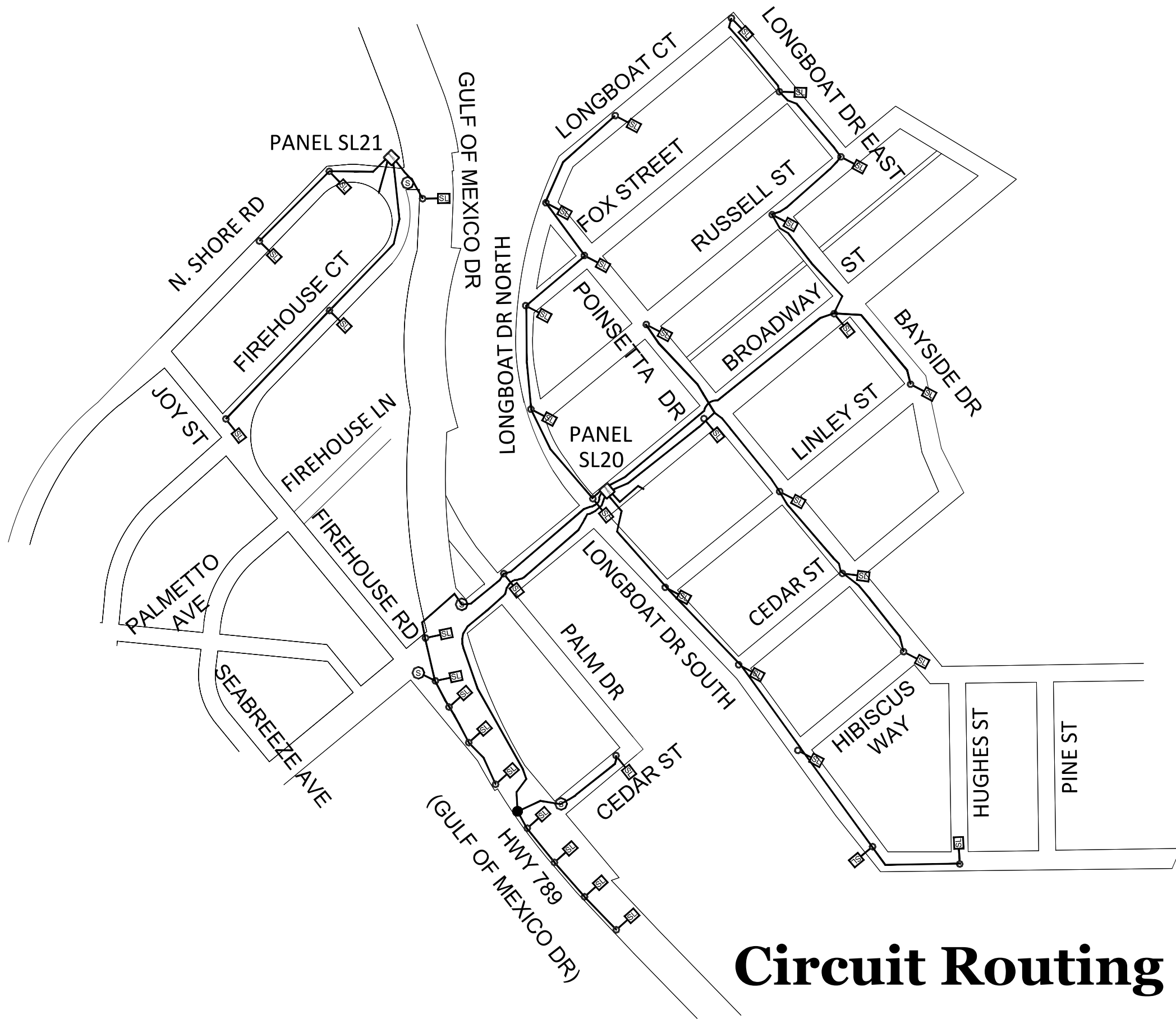


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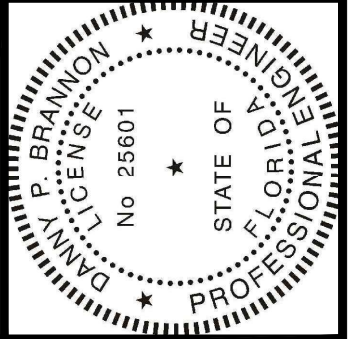


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CD1



Circuit Routing Diagram

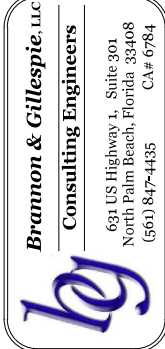


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Town of Longboat Key

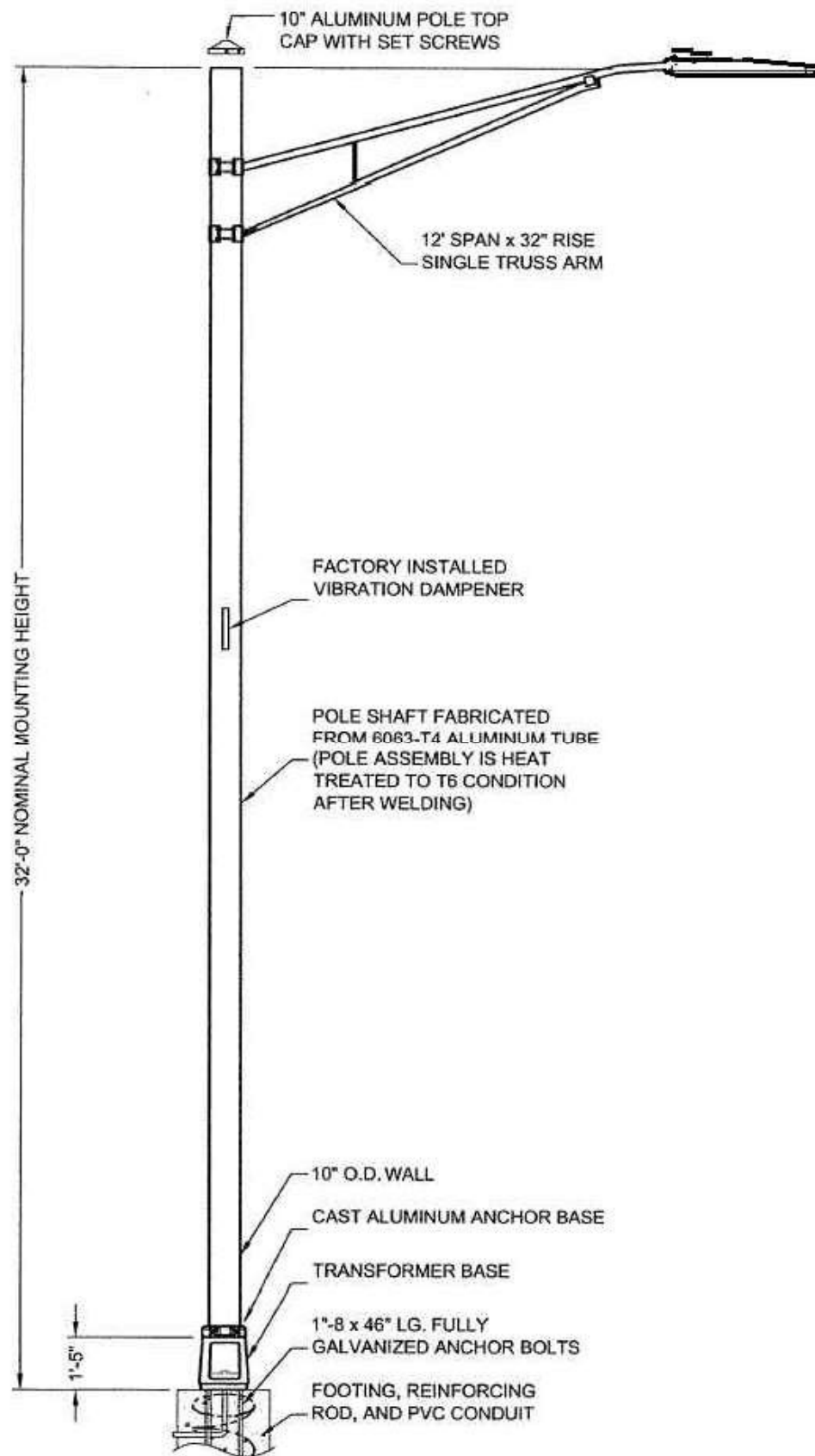


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 CONSTRUCTION - PHASE 2**
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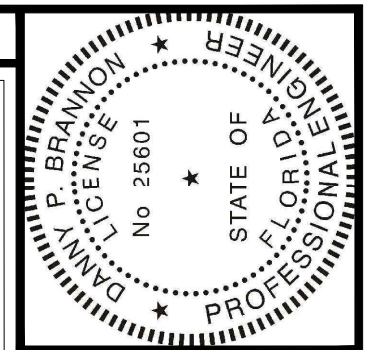
CD2



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.

GMD Fixture Detail



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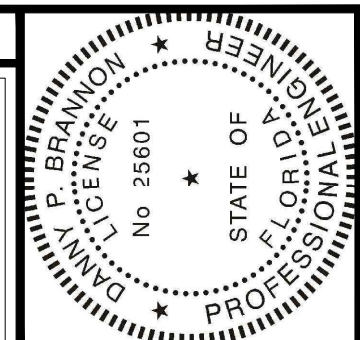
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D1



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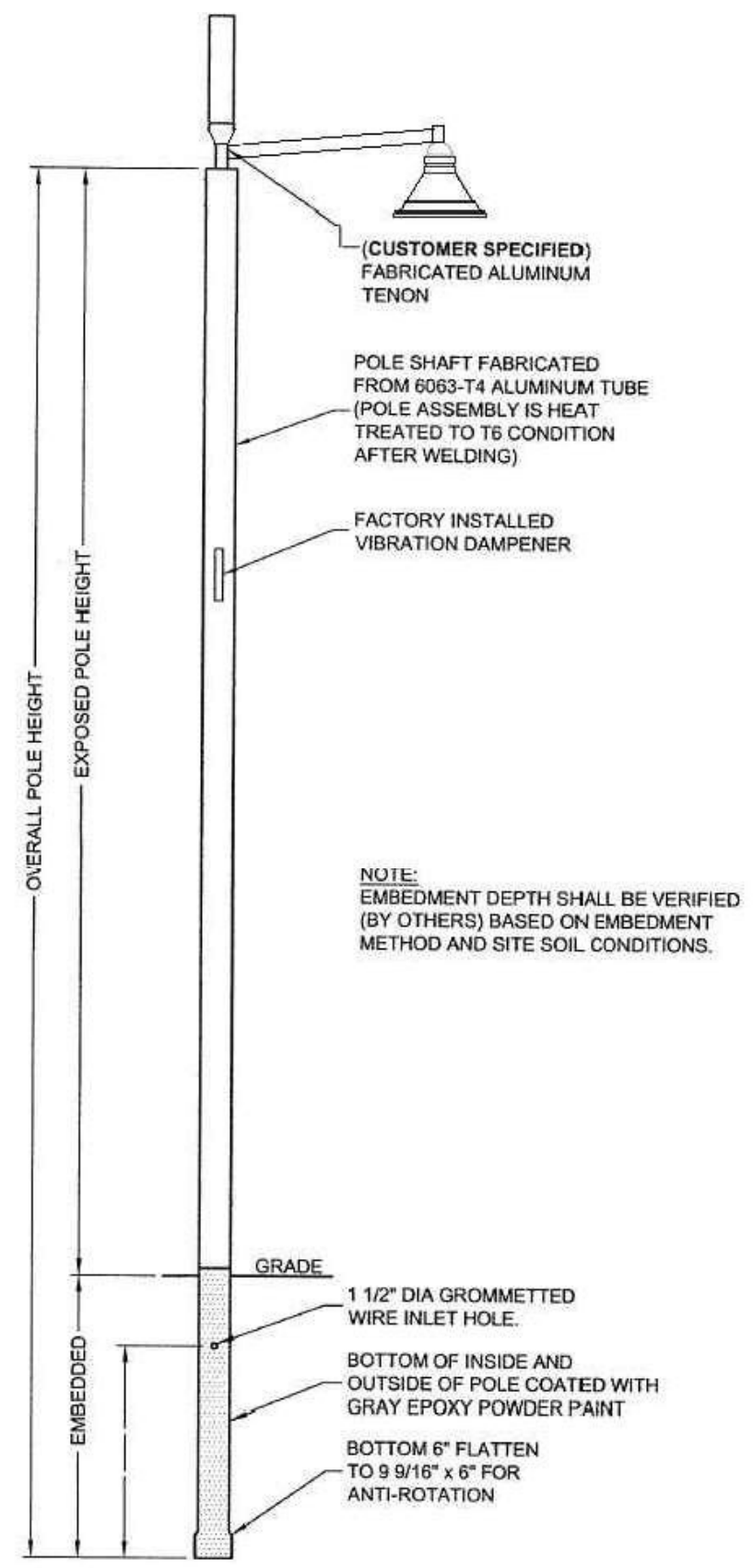


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D2

NEIGHBORHOOD STREET LIGHTS

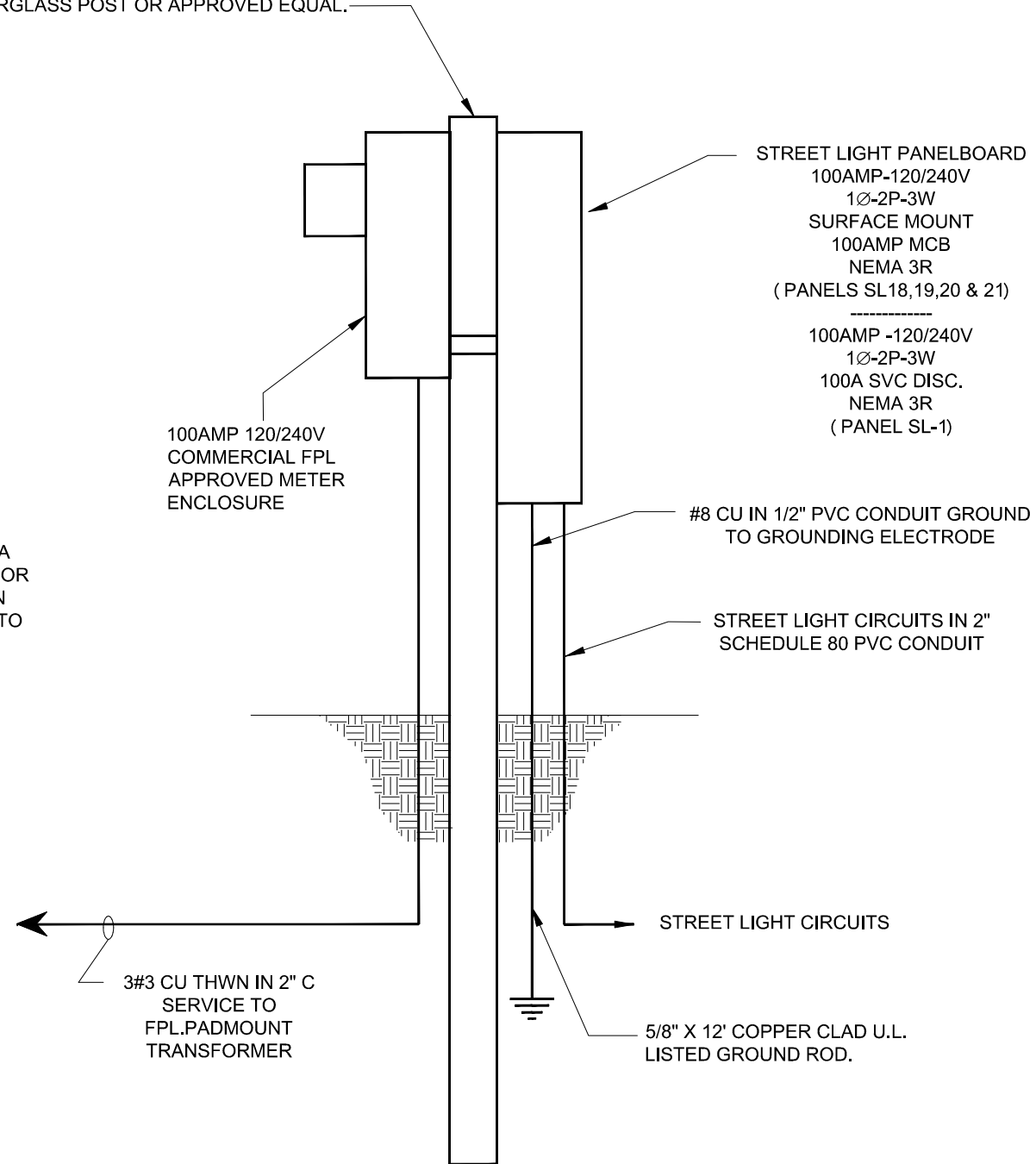
- Pole Material - 6063-T4 Aluminum or approved equal
- Pole Type - Straight round
- Pole Height - 22.5' maximum
- Pole Color - Black
- Base Type - Direct Bury
- Breakaway Option - No
- Arm Length - 5'
- Arm Style - Visionaire TNS-101 S-1
- Arm Height - Tenon Mount at top of pole.
- Arm Type - Single
- 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.
- Minimum conduit size shall be 1" for tap to pole, and 2" for feeders.
- Where alternate liminaires are proposed, supplier shall provide compliant photometrics.
- All Luminaires to be equipped with photocell control.



Neighborhood Fixture Detail

TYPICAL POWER CENTER DETAIL

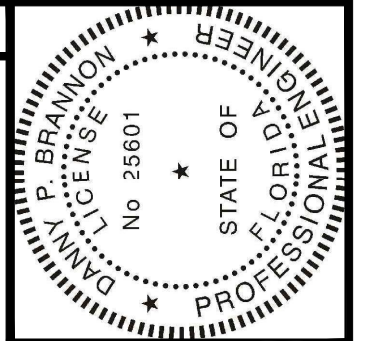
8"X8" CONCRETE POST OR 6"X9" HIGGINS FIBERGLASS POST OR APPROVED EQUAL.



NOTE: ONLY ONE EG CONDUCTOR IS REQUIRED IN A MULTI-CIRCUIT RUN AS LONG AS THE EG IS SIZED FOR THE LARGEST CURRENT CARRYING CONDUCTOR IN THE CONDUIT. EG WIRE WILL NOT BE CONNECTED TO STREET LIGHT POLE GROUNDING OR BONDING.

TYPICAL POST MOUNTED SERVICE RISER

N.T.S.



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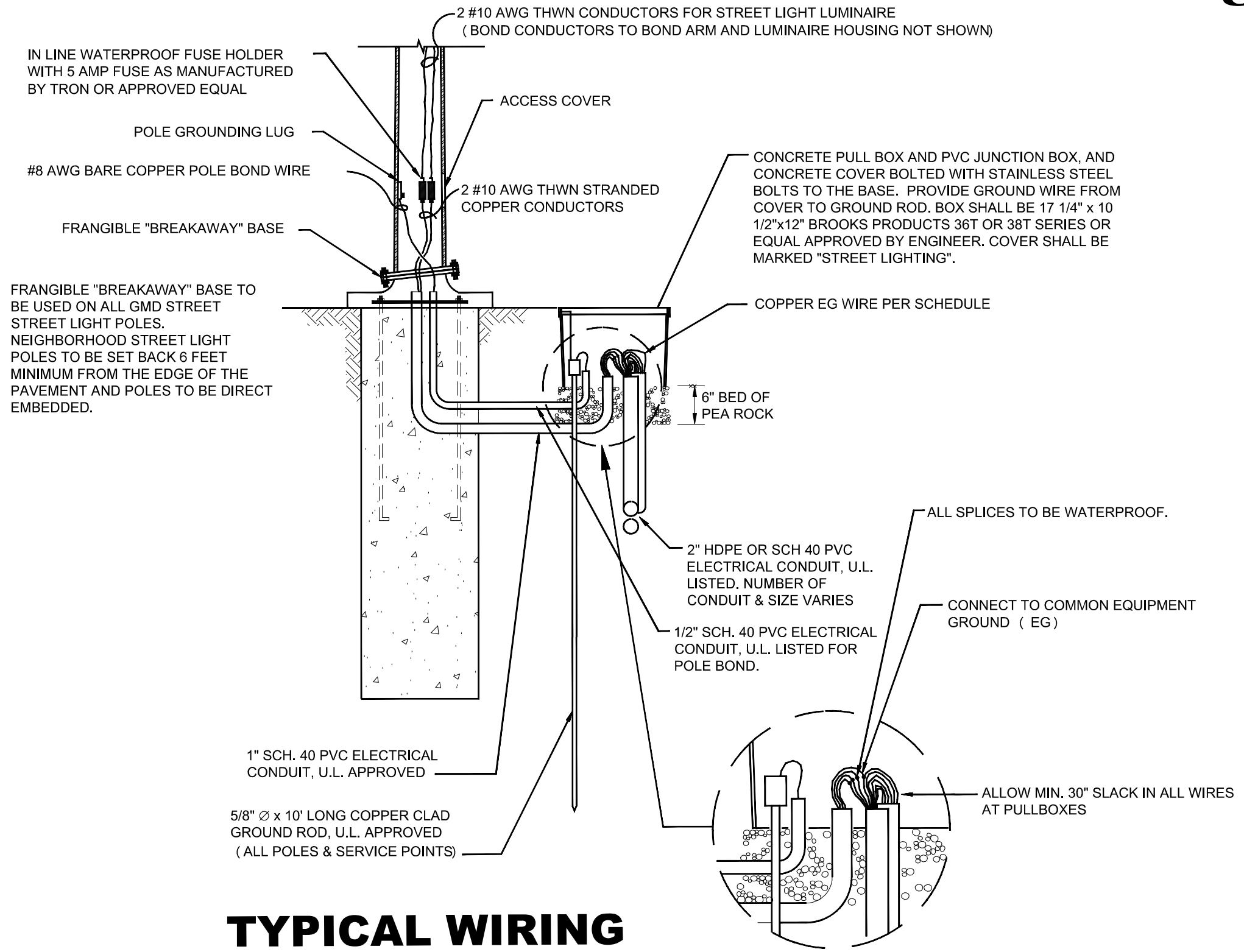
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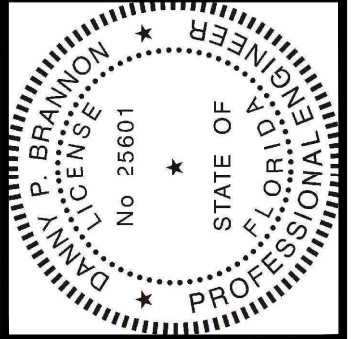
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D3

Fixture Wiring Detail



TYPICAL WIRING DETAIL



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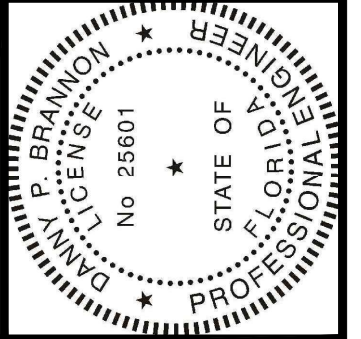
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Electrical Load Calculations



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PANEL	CIRCUITS	VA Load	Amps	% VD	Circuit
Panel SL20	1 GMD WHITNEY BCH CENTER	2425	10.10	4.58%	#6 CU THWN,
	2 GMD BROADWAY INTERSECTION	3317.5	13.82	4.00%	#6 CU THWN,
	3 LONGBOAT DRIVE SOUTH	2387.5	9.95	4.28%	#4 CU THWN,
	4 LONGBOAT DRIVE NORTH	1552.5	6.47	4.36%	#6 CU THWN,
	5 POINSETTA DRIVE	1450	6.04	3.68%	#8 CU THWN,
	6 BAYSIDE-LOIS-LONGBOAT DR E	1552.5	6.47	4.19%	#6 CU THWN,
	7	0		0.00%	
Panel SL21	8 N.SHORE RD	205	0.85	0.18%	#10 CU THWN
	9 FIREHOUSE CT	1142.5	4.76	2.63%	#8 CU THWN,
	10 GMD - N SHORE INTERSECTION	1625	6.77	1.21%	#10 CU THWN
Panel SL19	11 JUAN ANASCO DR -RECLINATA DR	2605	10.85	4.83%	#4 CU THWN,
	12 DE NAVAREZ DRIVE	692.5	2.89	3.49%	#10 CU THWN
	13 BAYVIEW DRIVE	2220	9.25	3.42%	#6 CU THWN,
	14 LYON'S LANE	1450	6.04	4.34%	#8 CU THWN,
	15 NORTON STREET	1450	6.04	4.60%	#6 CU THWN,
	16 MARBURY LANE	1450	6.04	3.72%	#6 CU THWN,
	17 PENFIELD STREET	1347.5	5.61	3.76%	#6 CU THWN,
	18 GULFSIDE ROAD	1600	6.67	4.08%	#6 CU THWN,
Panel SL18	19 GMD N/O DREAM ISLAND RD	2225	9.27	4.89%	#8 CU THWN,
	20 DREAM ISLAND ROAD	1040	4.33	1.11%	#10 CU THWN

LOAD CALCULATIONS			
PANEL	VA Load (125% of Connected)	AMP Load	Voltage
Panel SL18	3265.0	13.6	240
Panel SL19	12815.0	53.4	240
Panel SL20	12685.0	52.9	240
Panel SL21	1347.5	5.6	240

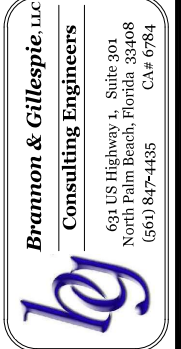
- PROPOSED STREET LIGHT (82W , 160W)
- EXISTING STREET POST LIGHT (100W)
- EXISTING STREET POST LIGHT WITH STREET SIGN (390W)

WIRE LEGEND

- F1 - 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#3 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT
- S6 - 2#6 CU THWN & 1#10CU THWN N IN 2" PVC CONDUIT

NOTE: EQUIPMENT GROUND TO BE SIZED IN EACH CONDUIT RUN TO BE EQUAL TO THE SIZE OF THE LARGEST CURRENT CARRYING CONDUCTOR.

Town of Longboat Key

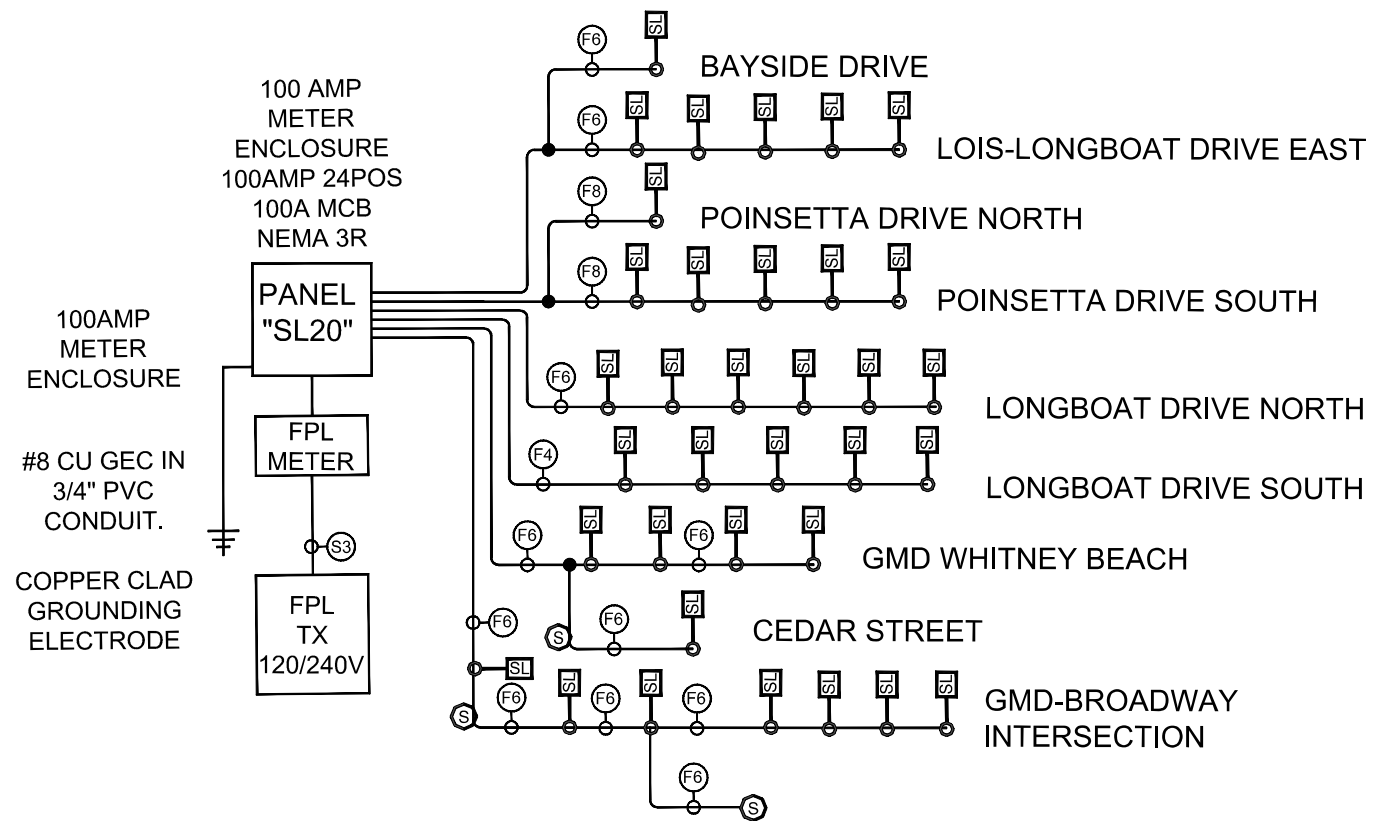


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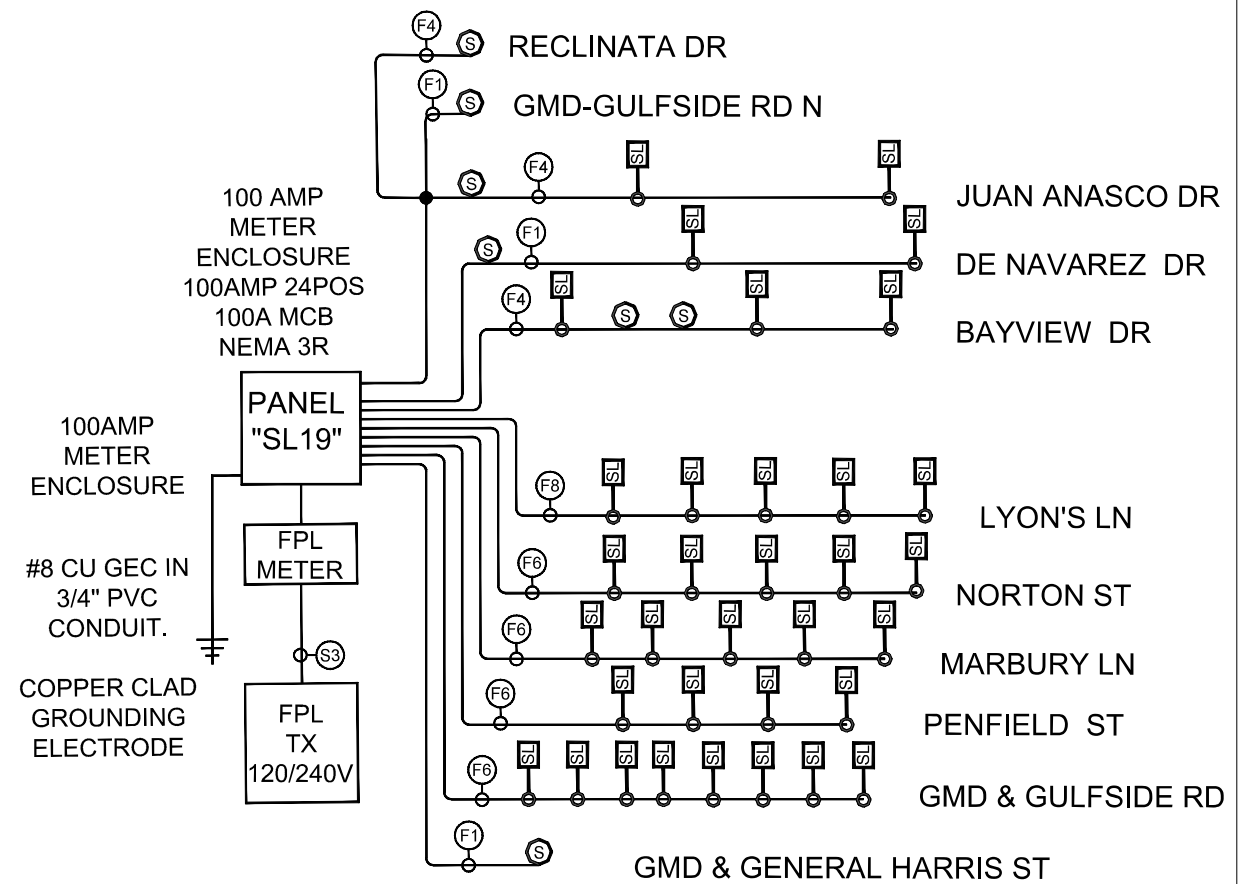


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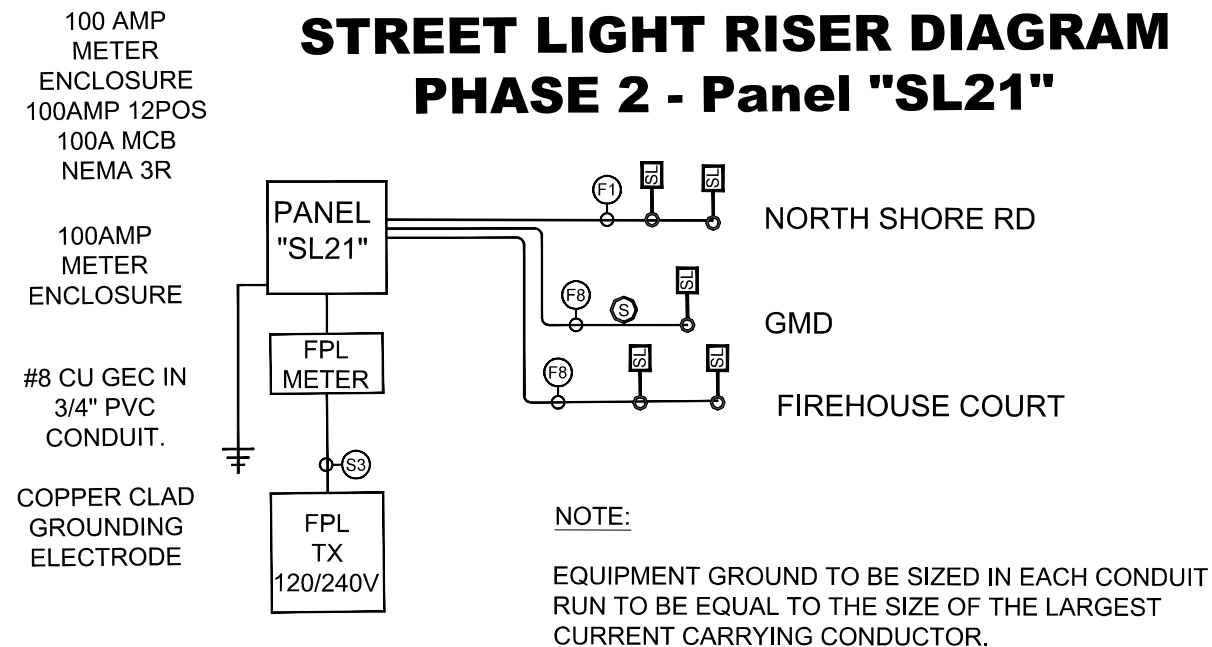
STREET LIGHT RISER DIAGRAM PHASE 2 - Panel "SL20"



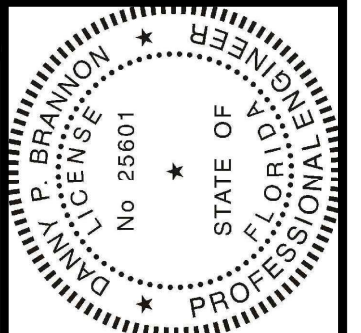
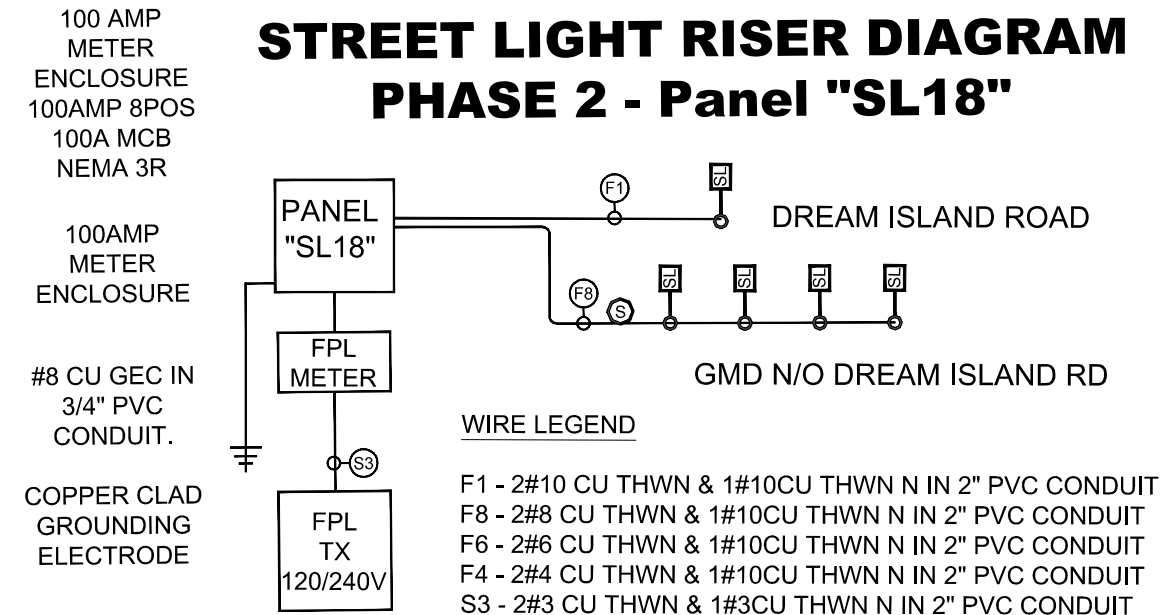
STREET LIGHT RISER DIAGRAM PHASE 2 - Panel "SL19"



STREET LIGHT RISER DIAGRAM PHASE 2 - Panel "SL21"



STREET LIGHT RISER DIAGRAM PHASE 2 - Panel "SL18"



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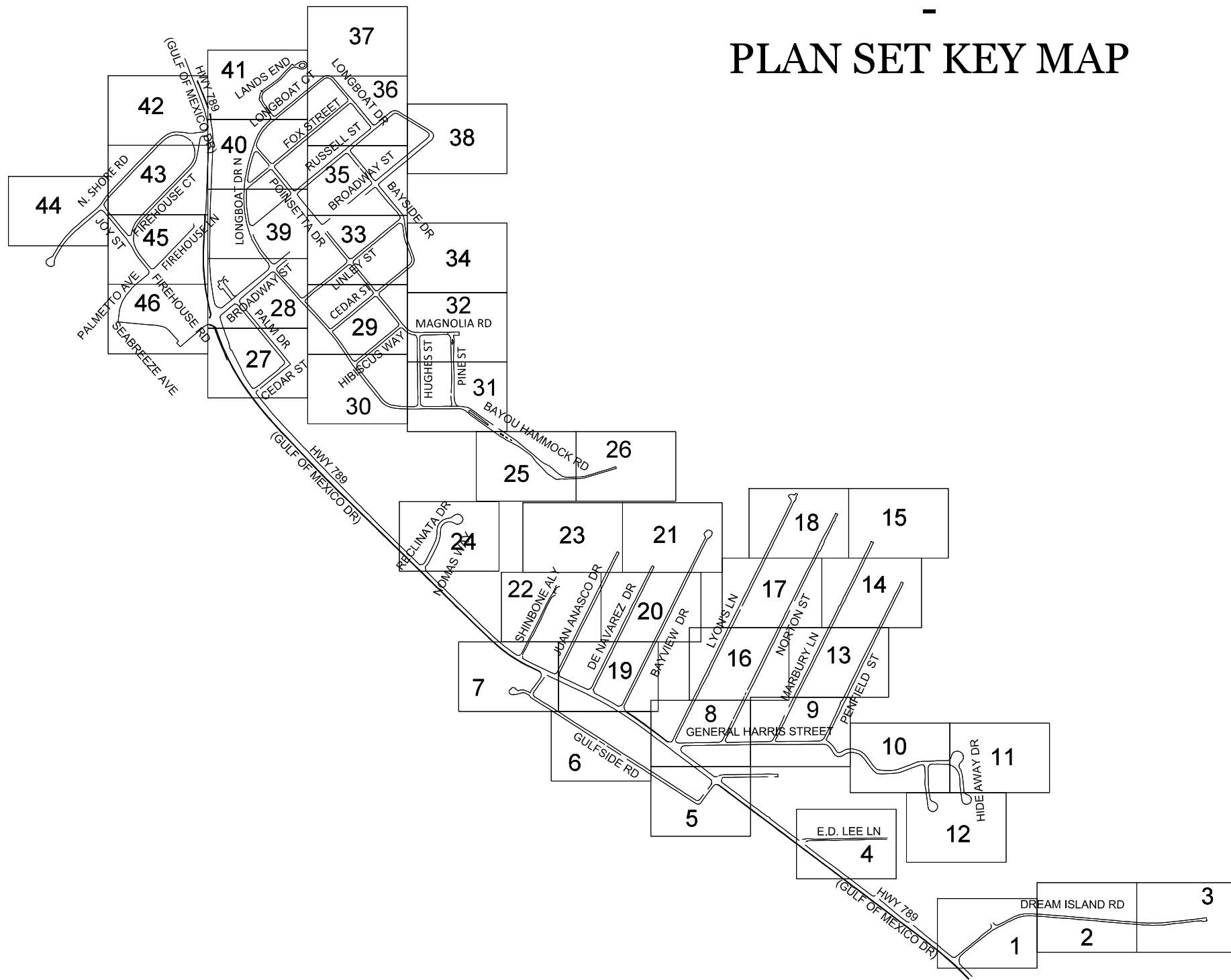
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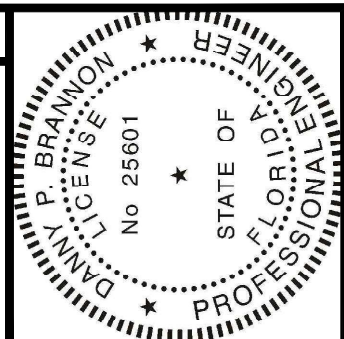
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NEIGHBORHOOD AREAS

- PLAN SET KEY MAP



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



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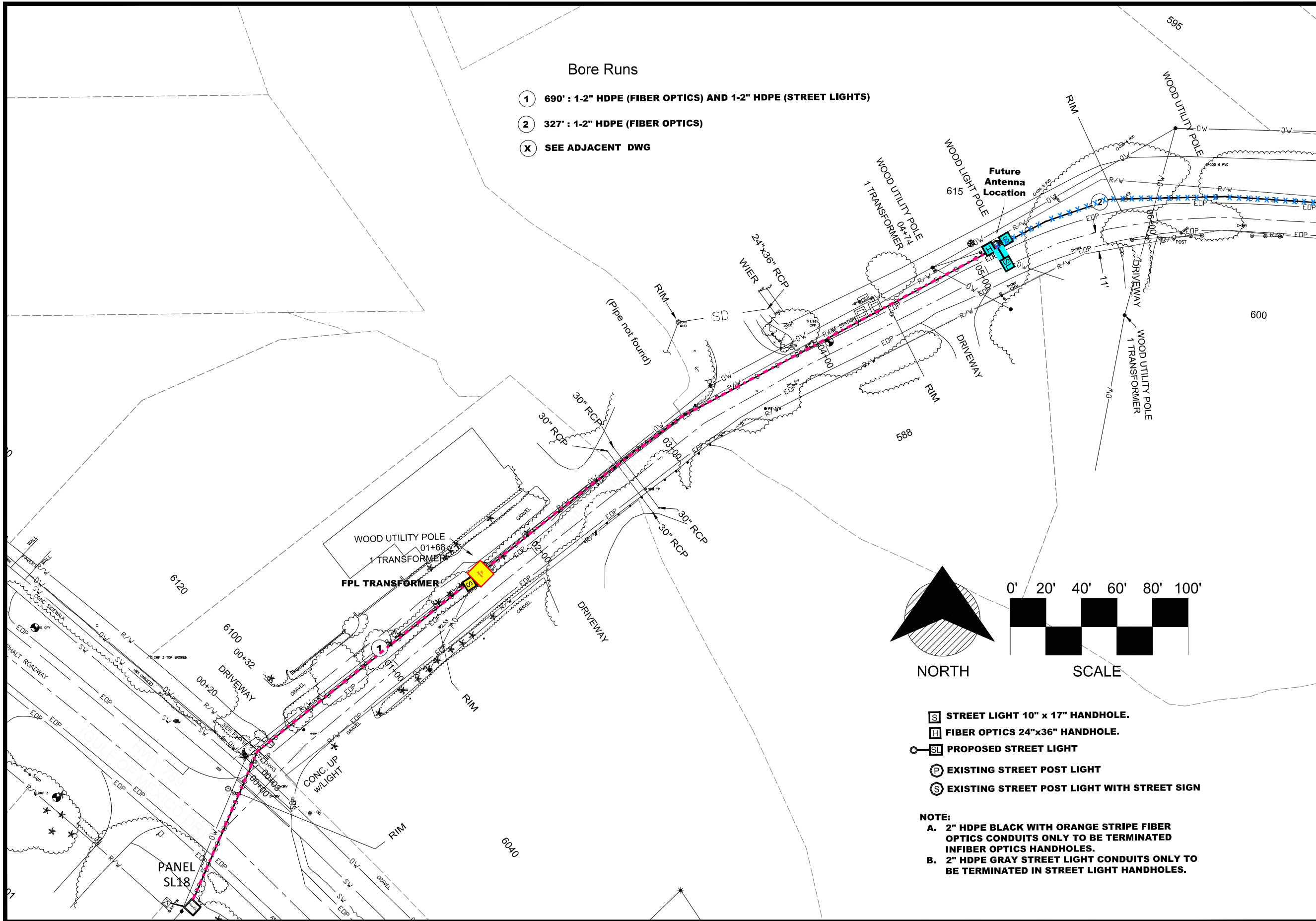
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FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



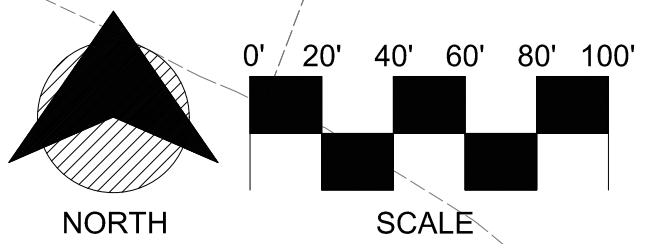
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 Job # 2014-LBK

Sheet
KEY MAP



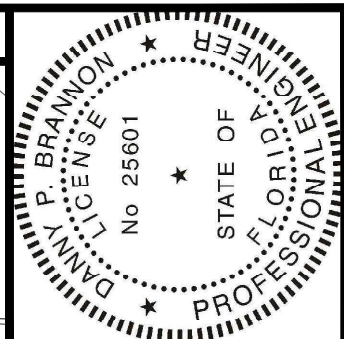
Bore Runs

- ① 690' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 327' : 1-2" HDPE (FIBER OPTICS)
- X SEE ADJACENT DWG



- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 24"x36" HANDHOLE.
- Ⓞ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓠ EXISTING STREET POST LIGHT WITH STREET SIGN

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.



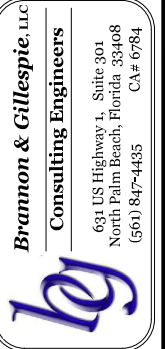
MATCHLINE-STA 06+92
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Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

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 FLORIDA P. E. NO. 25601

DATE 11/16/2020

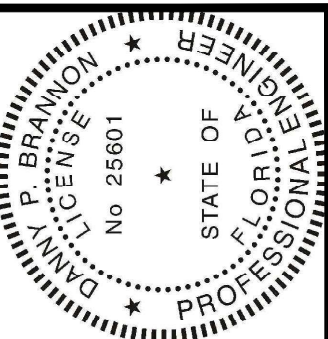
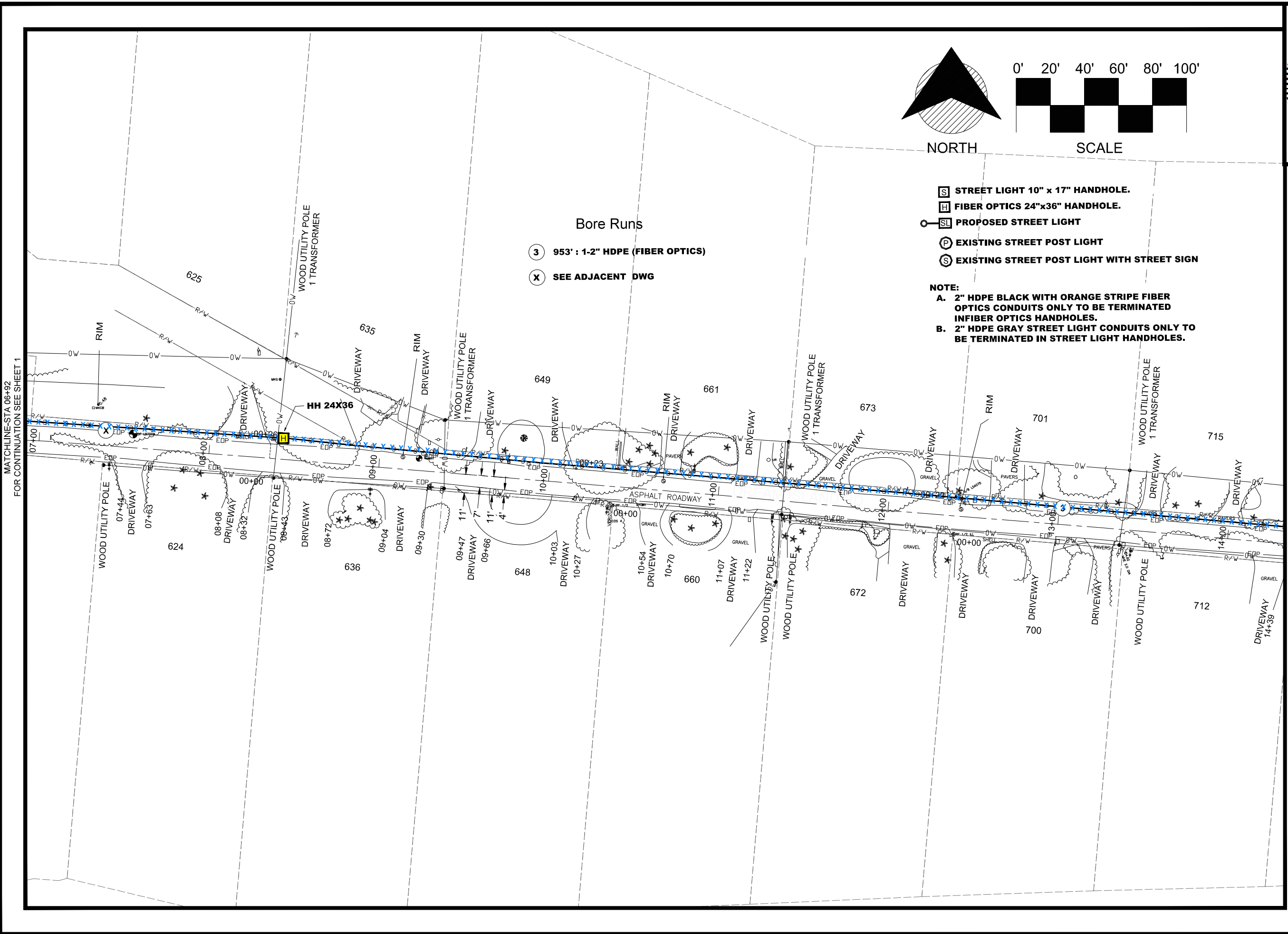
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



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- ☐ STREET LIGHT 10" x 17" HANDHOLE.
- ☐ FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- ⊙ EXISTING STREET POST LIGHT
- ⊙ EXISTING STREET POST LIGHT WITH STREET SIGN

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.

Bore Runs
 (3) 953' : 1-2" HDPE (FIBER OPTICS)
 (X) SEE ADJACENT DWG

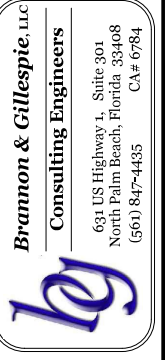
Digitally signed by
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 Date: 2020.11.16
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 FLORIDA P. E. NO. 25601
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MATCHLINE-STA 06+92
FOR CONTINUATION SEE SHEET 1

MATCHLINE-STA 14+34
FOR CONTINUATION SEE SHEET 3

Town of Longboat Key

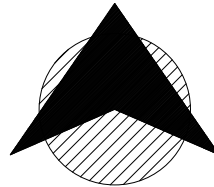
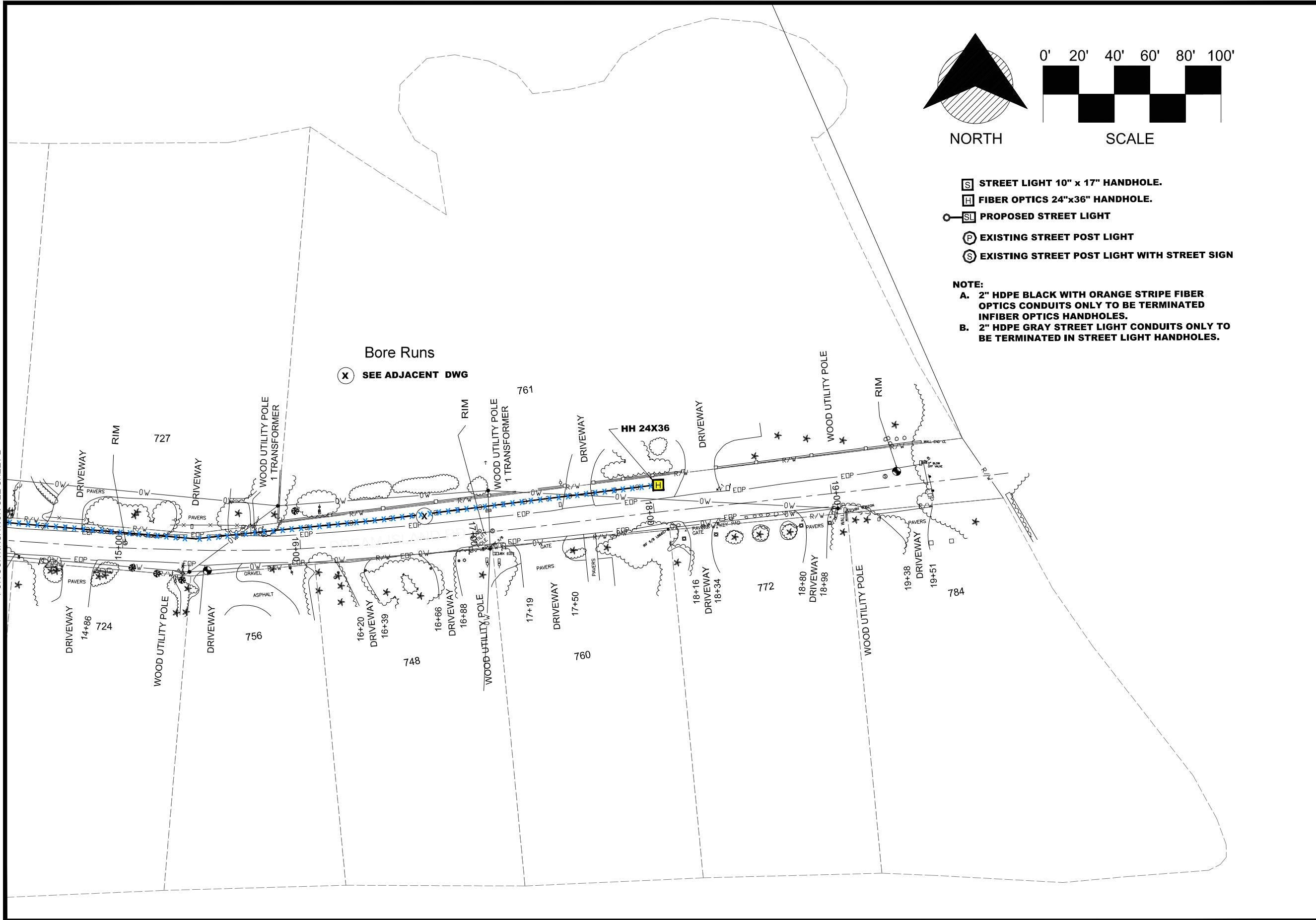
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



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

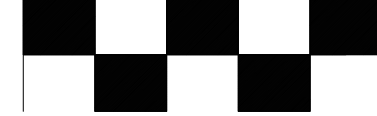
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Scale:	AS NOTED
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Job #	2014-LBK
Sheet	

MATCHLINE-STA. 14+34
FOR CONTINUATION SEE SHEET 2



NORTH

0' 20' 40' 60' 80' 100'



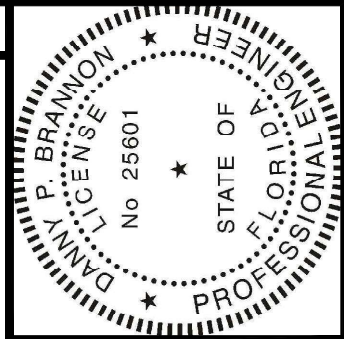
SCALE

- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 24"x36" HANDHOLE.
- Ⓛ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓢ EXISTING STREET POST LIGHT WITH STREET SIGN

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.

Bore Runs
ⓧ SEE ADJACENT DWG

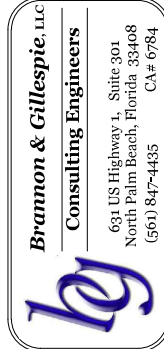


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Town of Longboat Key



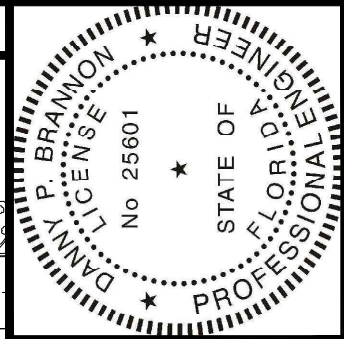
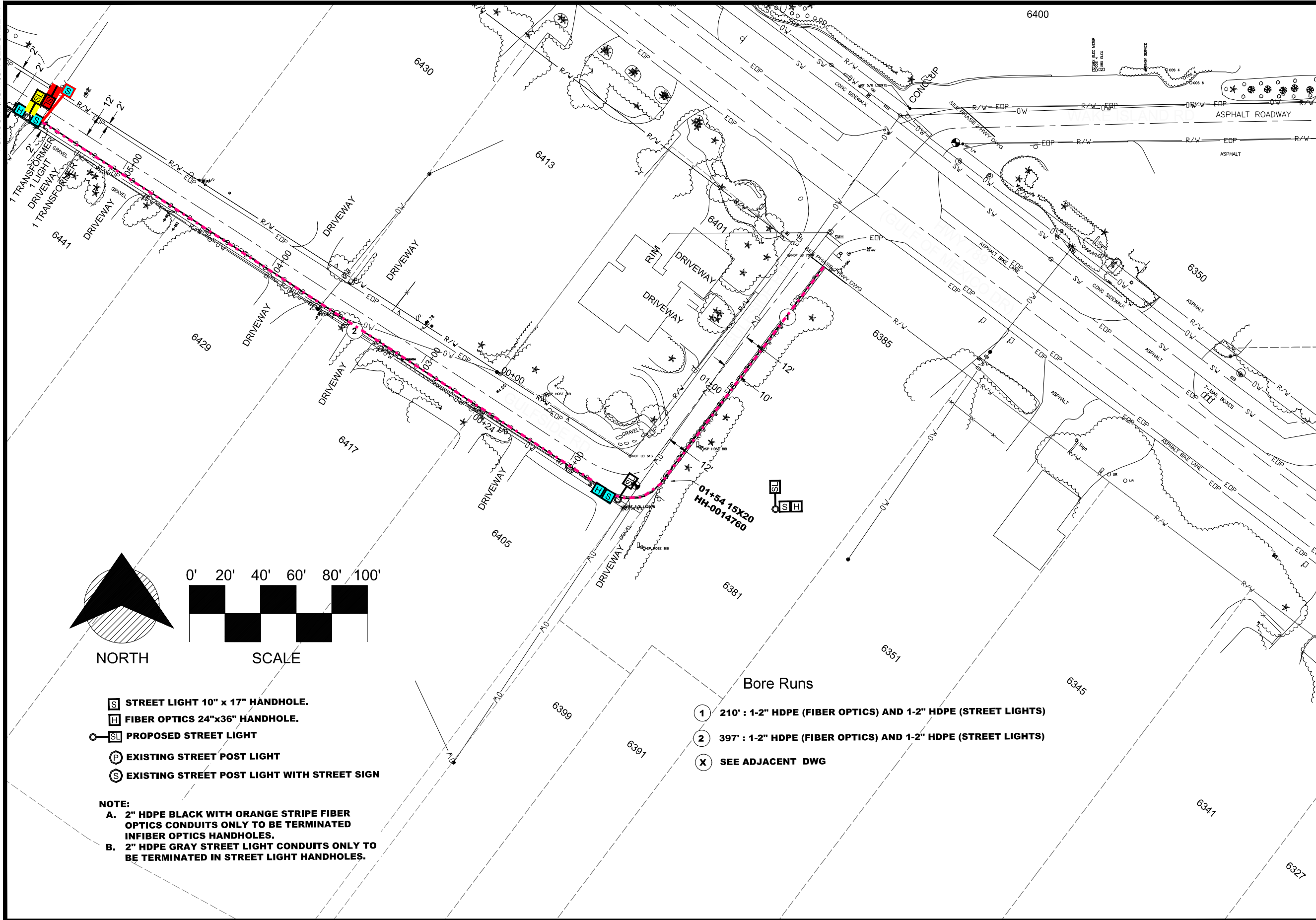
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
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 Job # 2014-LBK

Sheet
C3 OF 46

MATCHLINE-STA 05+82
FOR CONTINUATION SEE SHEET 6



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DATE 11/16/2020

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 Consulting Engineers

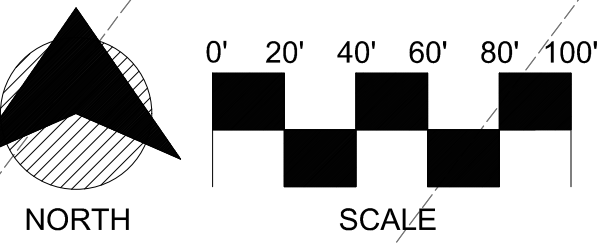
631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4435 CA# 6784

DRAWINGS FOR:
**FIBER OPTIC AND STREET
 LIGHTING UTILITY
 CONSTRUCTION - PHASE 2**
 LONGBOAT KEY, FLORIDA



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 Job # 2014-LBK
 Sheet

C5 OF 46



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

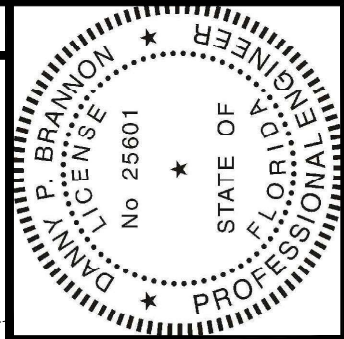
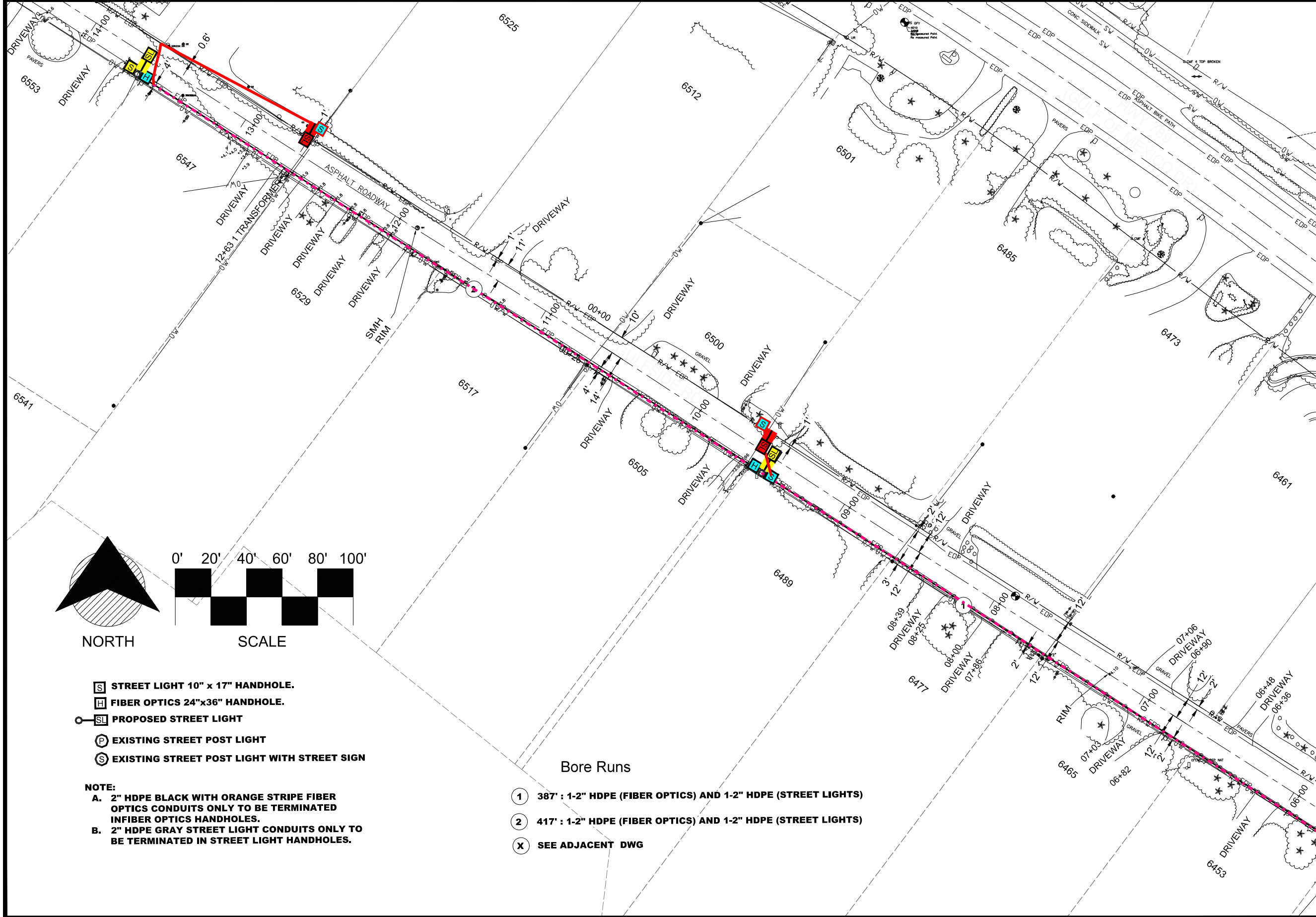
NOTE:

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.

- Bore Runs**
- ① 210' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ② 397' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - X SEE ADJACENT DWG

MATCHLINE-STA 14+24
FOR CONTINUATION SEE SHEET 7



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Danny Brannon

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FLORIDA P. E. NO. 25601

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Consulting Engineers

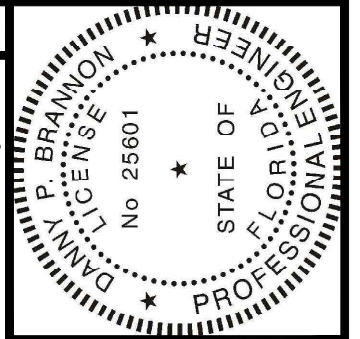
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North Palm Beach, Florida 33408
(561) 847-4435 CA# 6784

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

Matchline-STA 05+82
FOR CONTINUATION SEE SHEET 5

Date:	10/22/2020
Scale:	AS NOTED
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Job #	2014-LBK
Sheet	

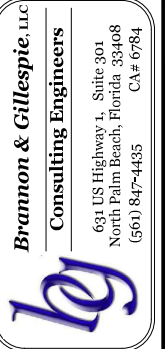
MATCHLINE-STA 00+97
FOR CONTINUATION SEE SHEET 22



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FLORIDA P. E. NO. 25601

DATE 11/16/2020



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

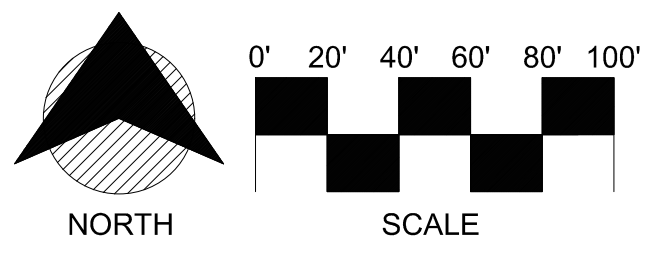


Town of Longboat Key

Drawings for:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK
Sheet

C7 OF 46



- Bore Runs**
- ① 190' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ⊗ SEE ADJACENT DWG

- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 24"x36" HANDHOLE.
- Ⓛ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓞ EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:

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

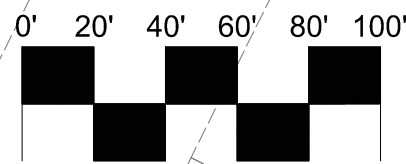
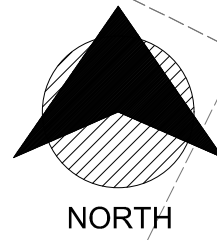
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

On GMD prints (both)

MATCHLINE-STA 14+24
FOR CONTINUATION SEE SHEET 6

MATCHLINE-STA 03+23
FOR CONTINUATION SEE SHEET 16

MATCHLINE-STA 03+34
FOR CONTINUATION SEE SHEET 16



SCALE

- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24" x 36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

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.

HH's on GMD print

CONNECT STREET LIGHT PANEL TO EXISTING LIFT STATION ELEC. SERVICE. VERIFY CAPACITY.

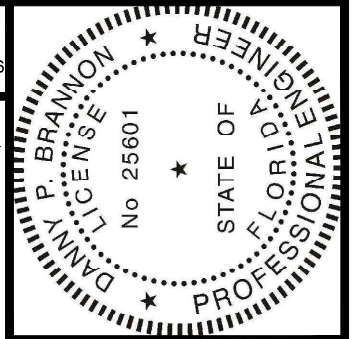
Existing Elec. Svc.

PROPOSED FIBER OPTIC TRANSFORMERS

- 24" RCP
Inv. = -0.18'
- 8" PIPE
Inv. = 1.74'
- 8" PIPE
Inv. = 1.74'
- 8" PIPE
Inv. = 1.74'
- 8" PIPE
Inv. = 2.21'
- 8" PIPE
Inv. = 2.20'

Bore Runs

- ① 380' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 387' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ③ 307' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ④ 100' : 2-2" HDPE (STREET LIGHTS)
- ⑤ 460' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG

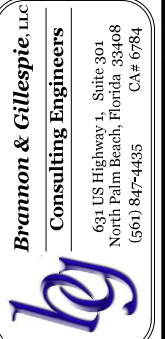


Digitally signed by
Danny P Brannon
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11:03:13 -05'00'

Danny Brannon

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

DATE 11/16/2020



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Consulting Engineers

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North Palm Beach, Florida 33408
(561) 847-4485 CA# 6784

Town of Longboat Key

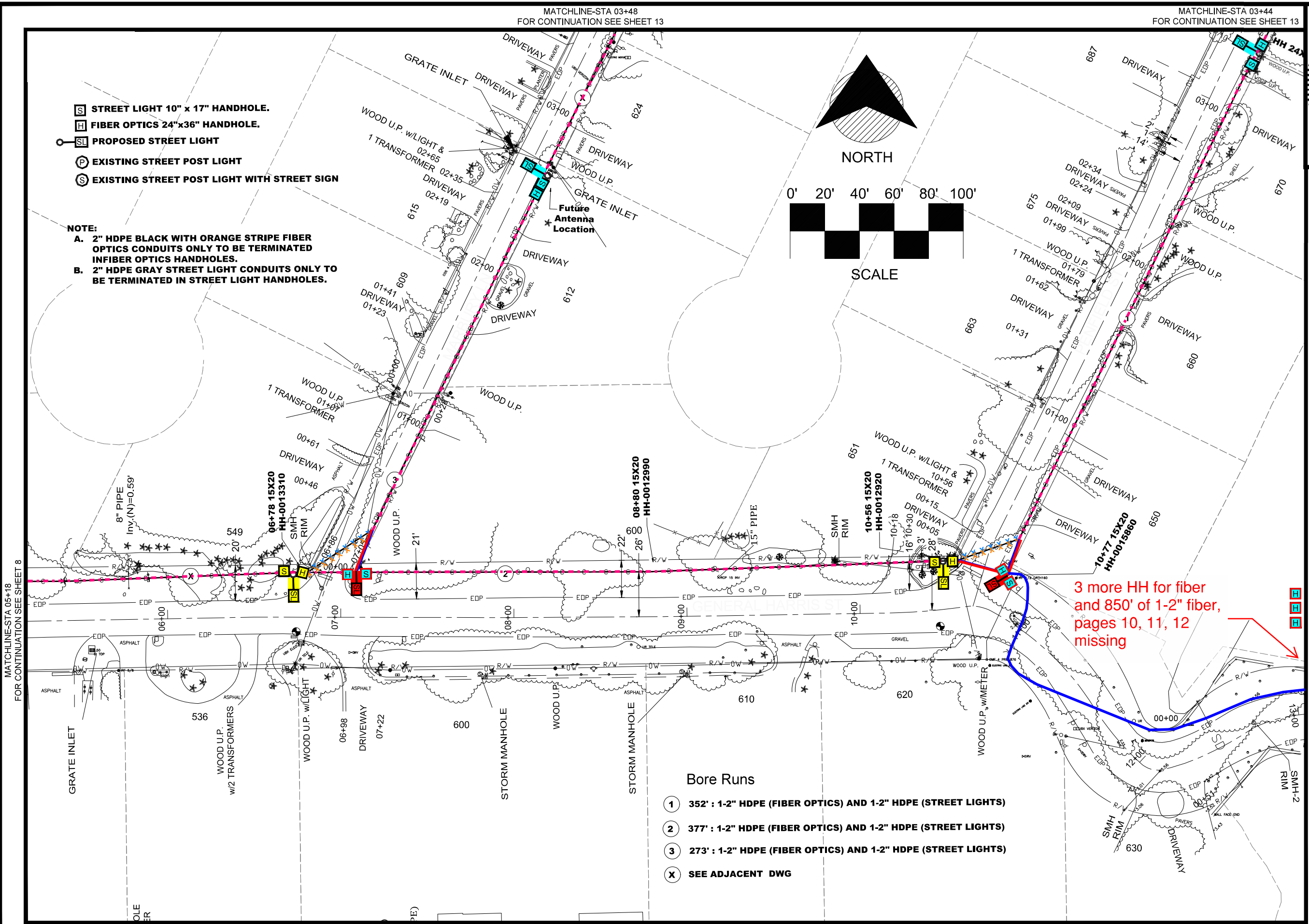
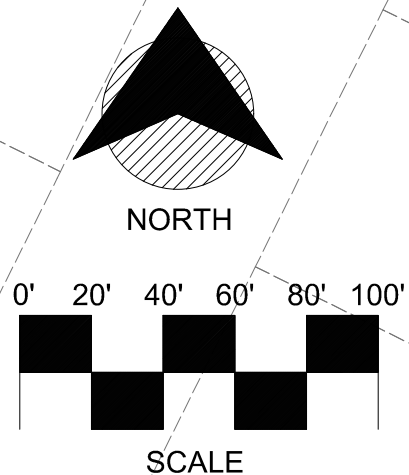


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

Date: 10/22/2020
Scale: AS NOTED
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Checked: DPB
Job # 2014-LBK
Sheet

- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

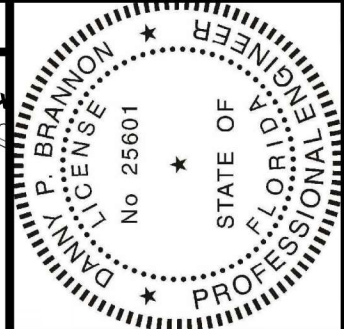
NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.



3 more HH for fiber and 850' of 1-2" fiber, pages 10, 11, 12 missing

Bore Runs

- ① 352' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 377' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ③ 273' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⓧ SEE ADJACENT DWG

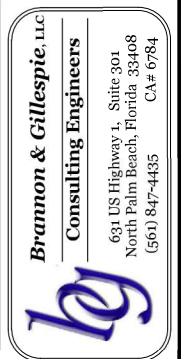


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Town of Longboat Key

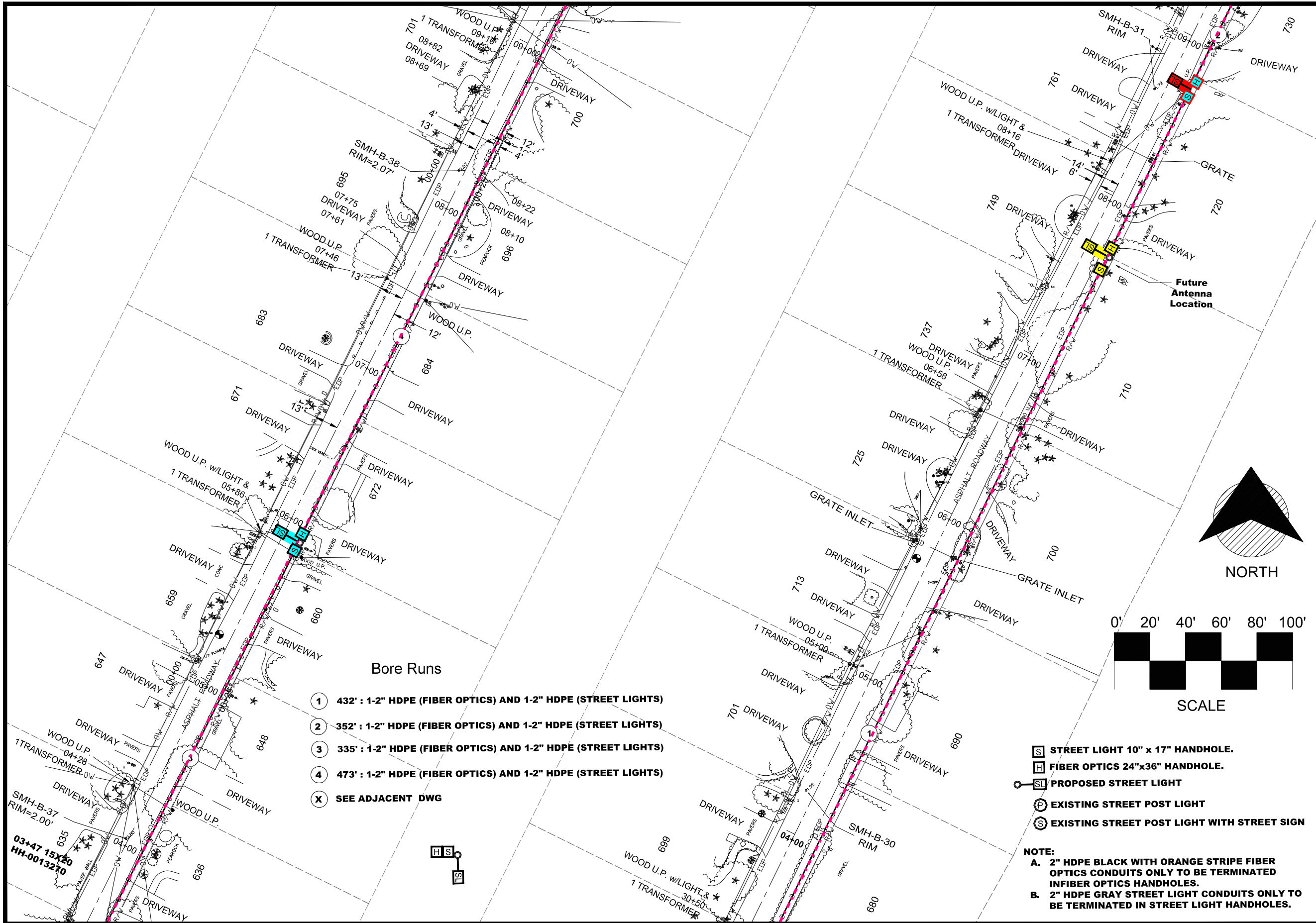
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
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 Job #: 2014-LBK

MATCHLINE-STA 09+25
FOR CONTINUATION SEE SHEET 14

MATCHLINE-STA 09+20
FOR CONTINUATION SEE SHEET 14

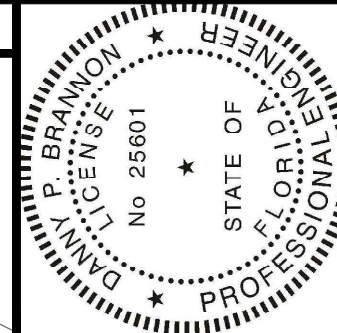


Bore Runs

- ① 432' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 352' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ③ 335' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ④ 473' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG

- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 24"x36" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

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.

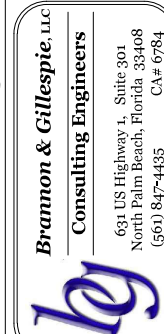


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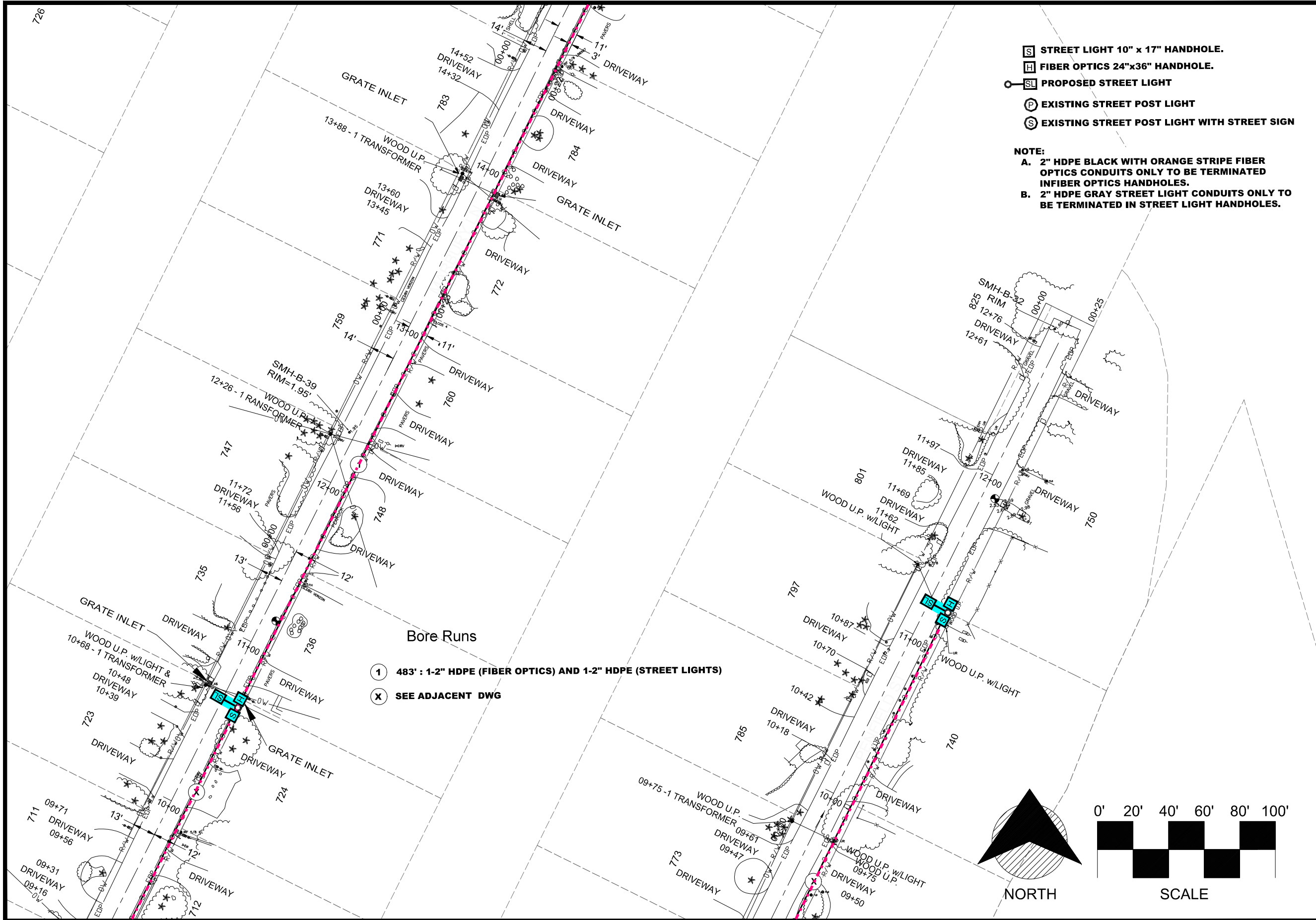
Drawings for:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

Date:	10/22/2020
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Job #	2014-LBK
Sheet	

MATCHLINE-STA 03+48
FOR CONTINUATION SEE SHEET 9

MATCHLINE-STA 03+44
FOR CONTINUATION SEE SHEET 9

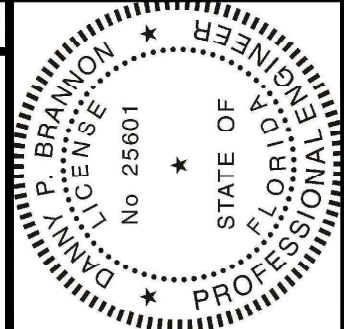
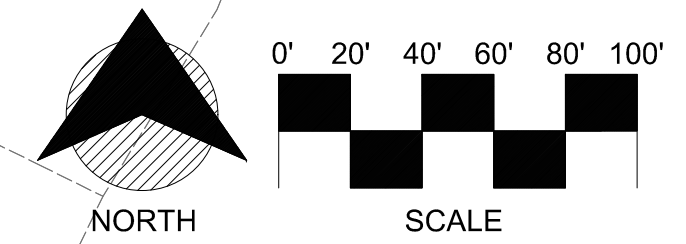
MATCHLINE-STA 15+01
FOR CONTINUATION SEE SHEET 15



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

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.

- Bore Runs**
- 483' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - SEE ADJACENT DWG



Digitally signed by
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 Date: 2020.11.16
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Danny P. Brannon

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DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

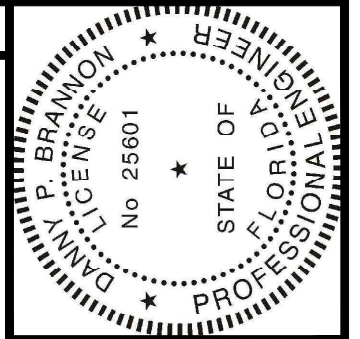


Date:	10/22/2020
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Checked:	DPB
Job #	2014-LBK
Sheet	

C14 OF 46

MATCHLINE-STA 09+25
FOR CONTINUATION SEE SHEET 13

MATCHLINE-STA 09+20
FOR CONTINUATION SEE SHEET 13

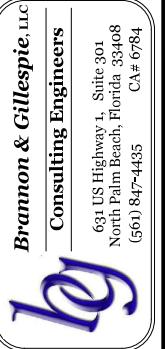


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 North Palm Beach, Florida 33408
 (561) 847-4435 CA# 6784

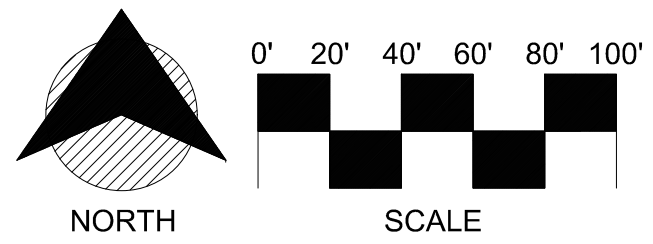


Town of Longboat Key

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job #: 2014-LBK

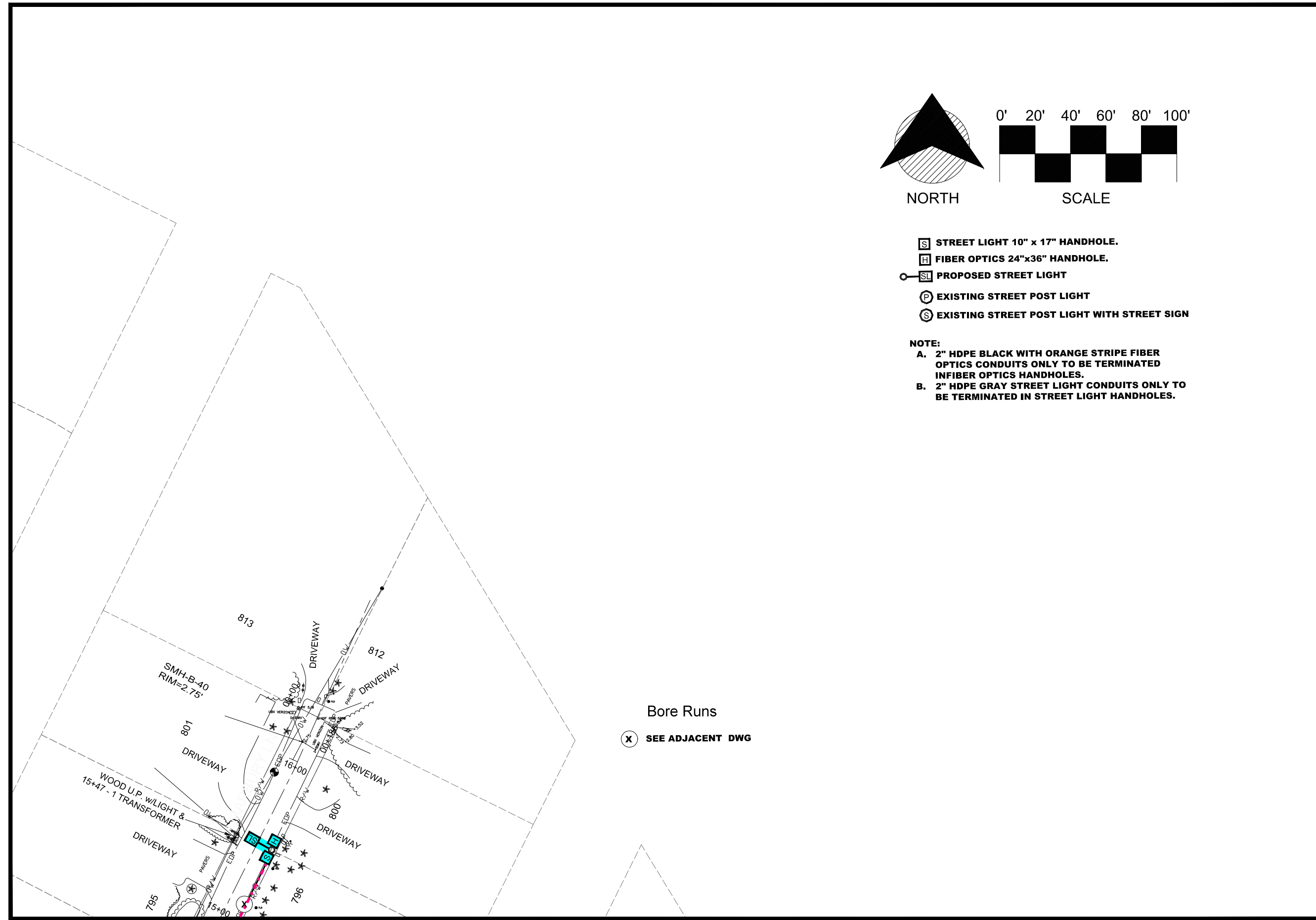
Sheet
C15 OF 46



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

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.

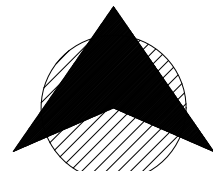
Bore Runs
 SEE ADJACENT DWG



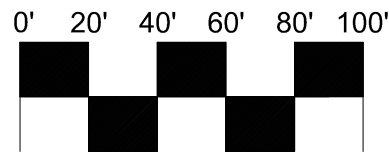
MATCHLINE-STA 15+01
 FOR CONTINUATION SEE SHEET 14

MATCHLINE-STA 09+25
FOR CONTINUATION SEE SHEET 17

MATCHLINE-STA 09+36
FOR CONTINUATION SEE SHEET 17

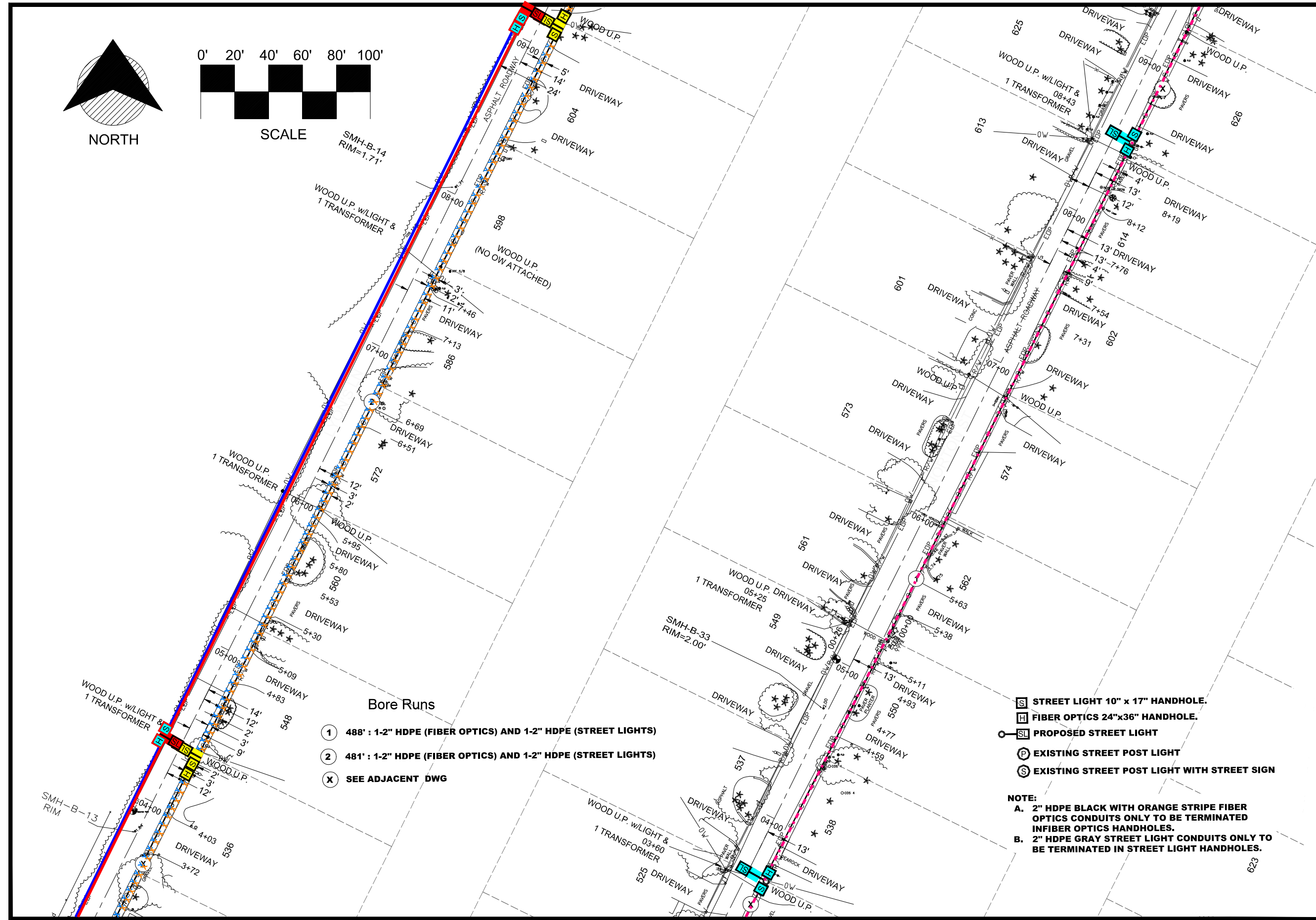


NORTH



SCALE

SMH-B-14
RIM=1.71'



Bore Runs

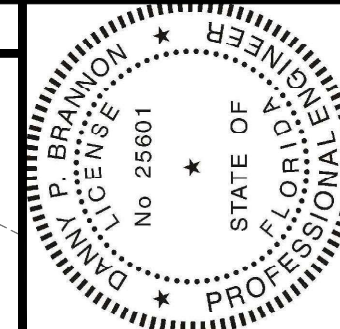
- ① 488' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 481' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG

- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 24"x36" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN

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.

MATCHLINE-STA 03+23
FOR CONTINUATION SEE SHEET 8

MATCHLINE-STA 03+34
FOR CONTINUATION SEE SHEET 8



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

Danny P. Brannon

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

DATE 11/16/2020

Town of Longboat Key

Brammon & Gillespie, LLC
 Consulting Engineers



631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4485 CA# 6784

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

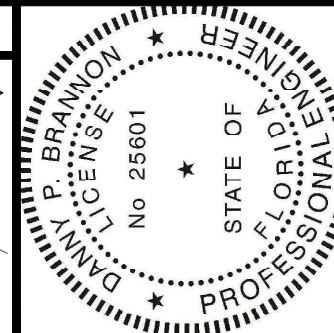
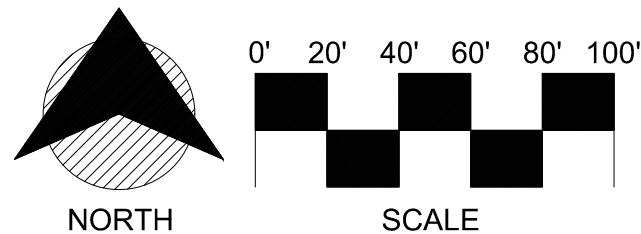


Date:	10/22/2020
Scale:	AS NOTED
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Checked:	DPB
Job #	2014-LBK
Sheet	

C16 OF 46

MATCHLINE-STA 15+02
FOR CONTINUATION SEE SHEET 18

MATCHLINE-STA 15+12
FOR CONTINUATION SEE SHEET 18

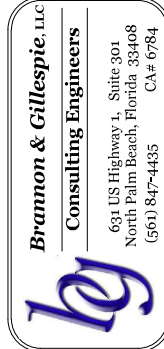


Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

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



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631 US Highway 1, Suite 301
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(561) 847-4435 CA# 6784



Drawings for:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

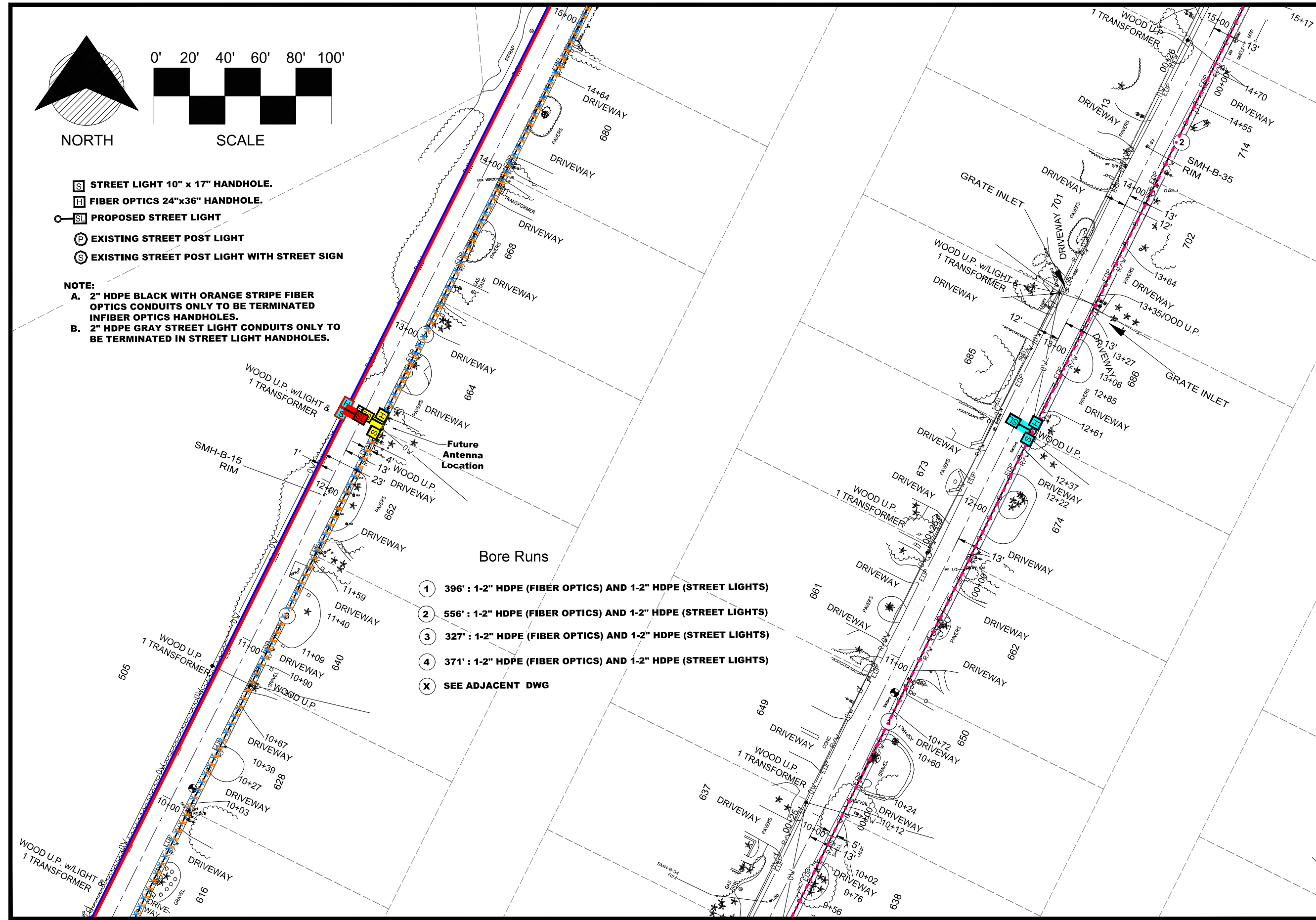
Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK
Sheet

C17 OF 46

- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

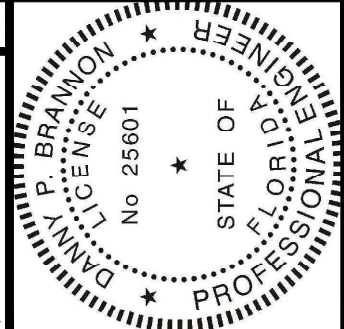
NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

- Bore Runs**
- 1** 396' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - 2** 556' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - 3** 327' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - 4** 371' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - X** SEE ADJACENT DWG



MATCHLINE-STA 09+25
FOR CONTINUATION SEE SHEET 16

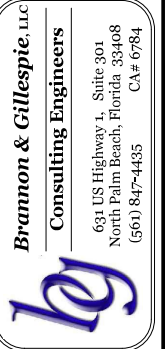
MATCHLINE-STA 09+36
FOR CONTINUATION SEE SHEET 16



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 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

Town of Longboat Key



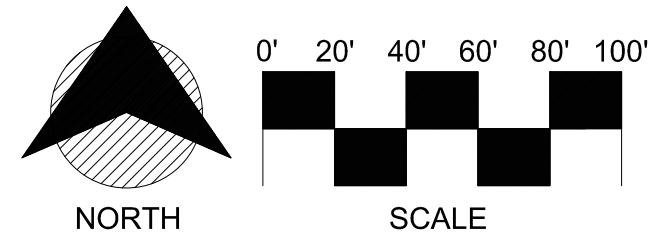
BRANNON & GILLESPIE, LLC
 CONSULTING ENGINEERS
 631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4485 CA# 6784



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

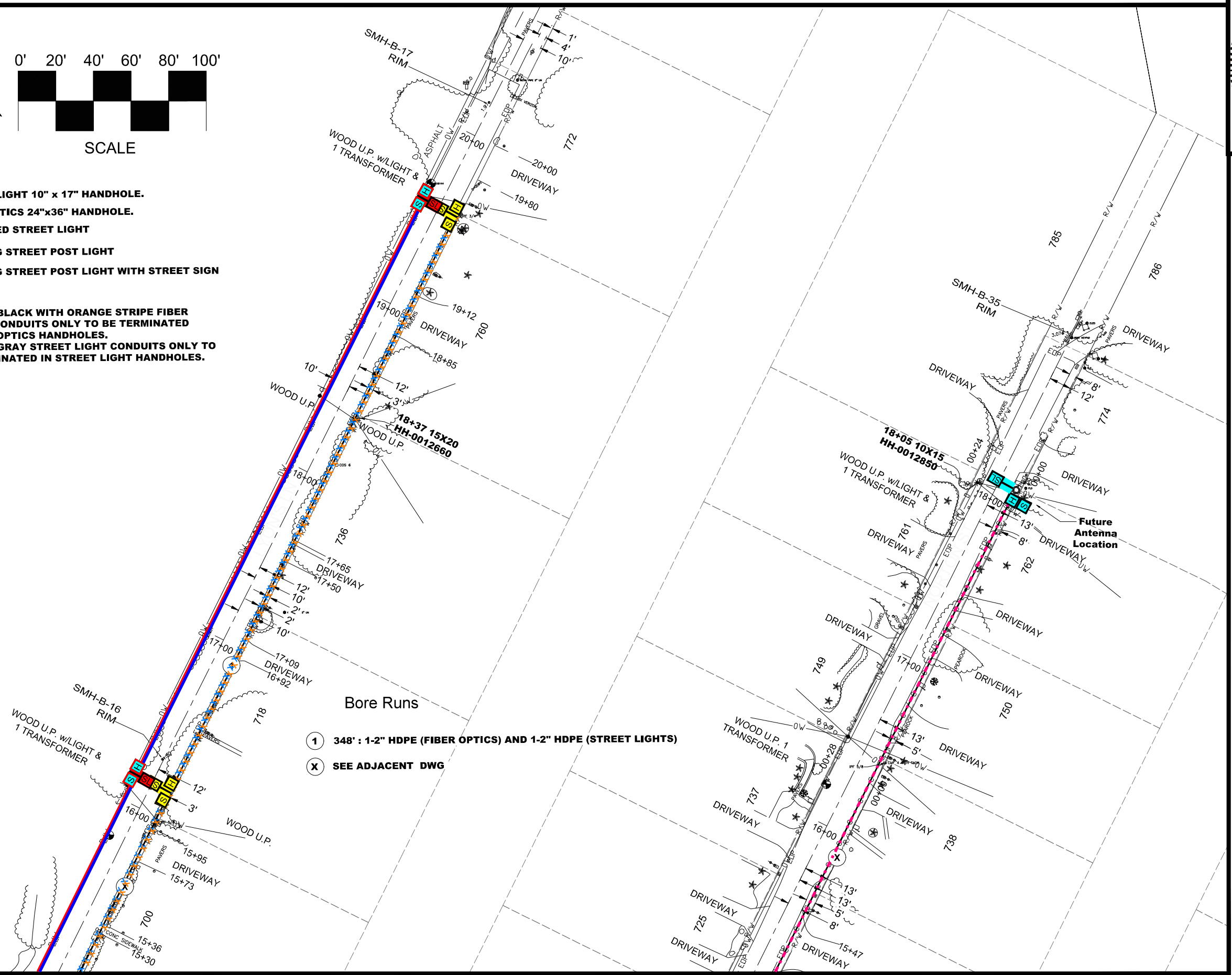
Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

C18 OF 46



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24" x 36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

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.



- Bore Runs**
- 348' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - SEE ADJACENT DWG

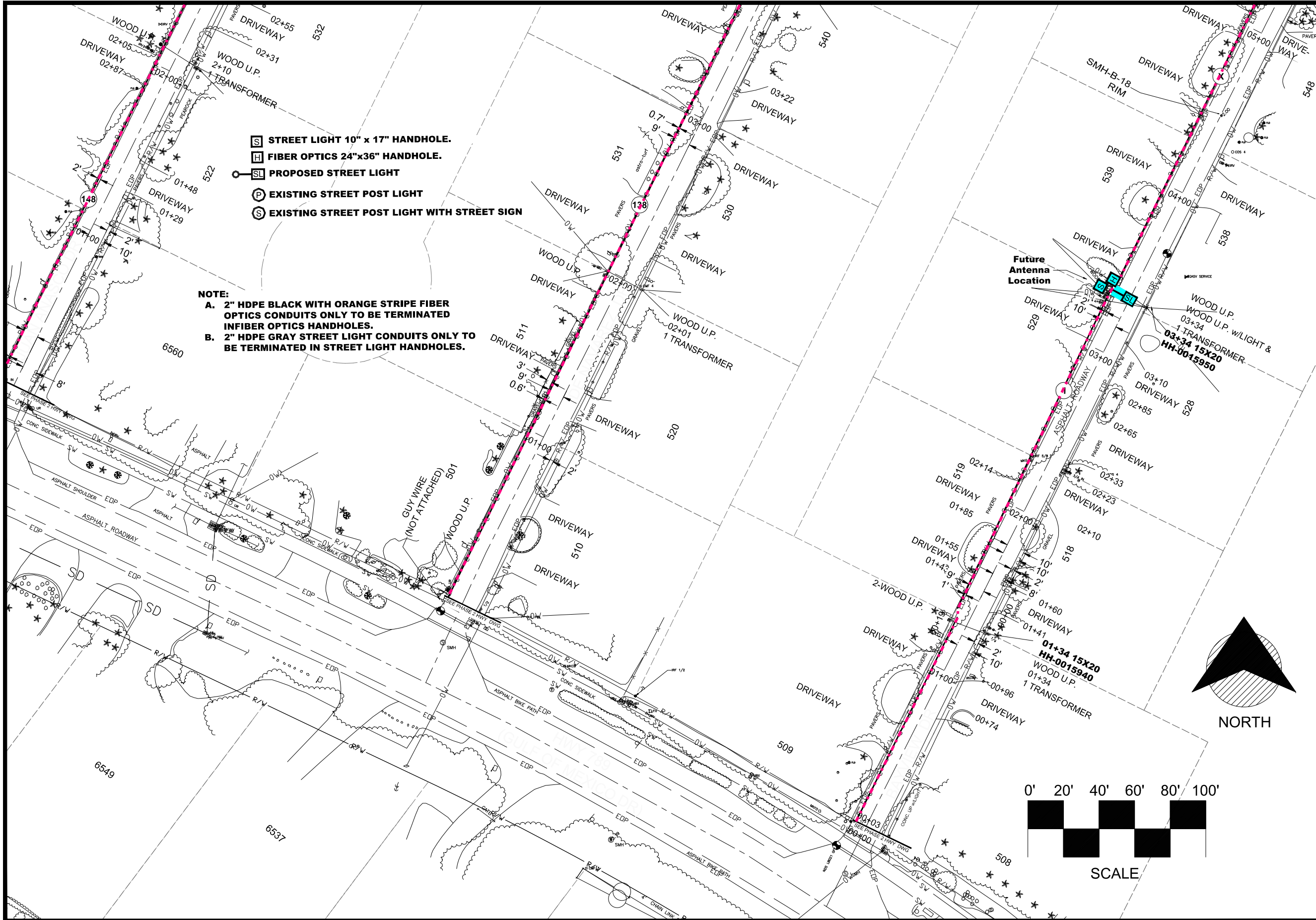
MATCHLINE-STA 15+02
 FOR CONTINUATION SEE SHEET 17

MATCHLINE-STA 15+12
 FOR CONTINUATION SEE SHEET 17

MATCHLINE-STA 02+43
FOR CONTINUATION SEE SHEET 22

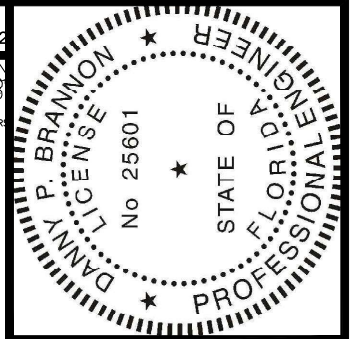
MATCHLINE-STA 03+73
FOR CONTINUATION SEE SHEET 20

MATCHLINE-STA 05+19
FOR CONTINUATION SEE SHEET 2



- S** STREET LIGHT 10" x 17" HANDHOLE.
- H** FIBER OPTICS 24"x36" HANDHOLE.
- SL** PROPOSED STREET LIGHT
- P** EXISTING STREET POST LIGHT
- S** EXISTING STREET POST LIGHT WITH STREET SIGN

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.

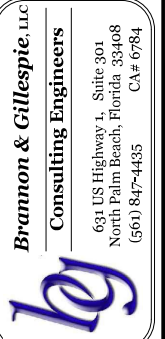


Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

Danny P. Brannon

DANNY P. BRANNON, P. E.
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DATE 11/16/2020



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 631 US Highway 1, Suite 301
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 (561) 847-4485 CA# 6784

Town of Longboat Key

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

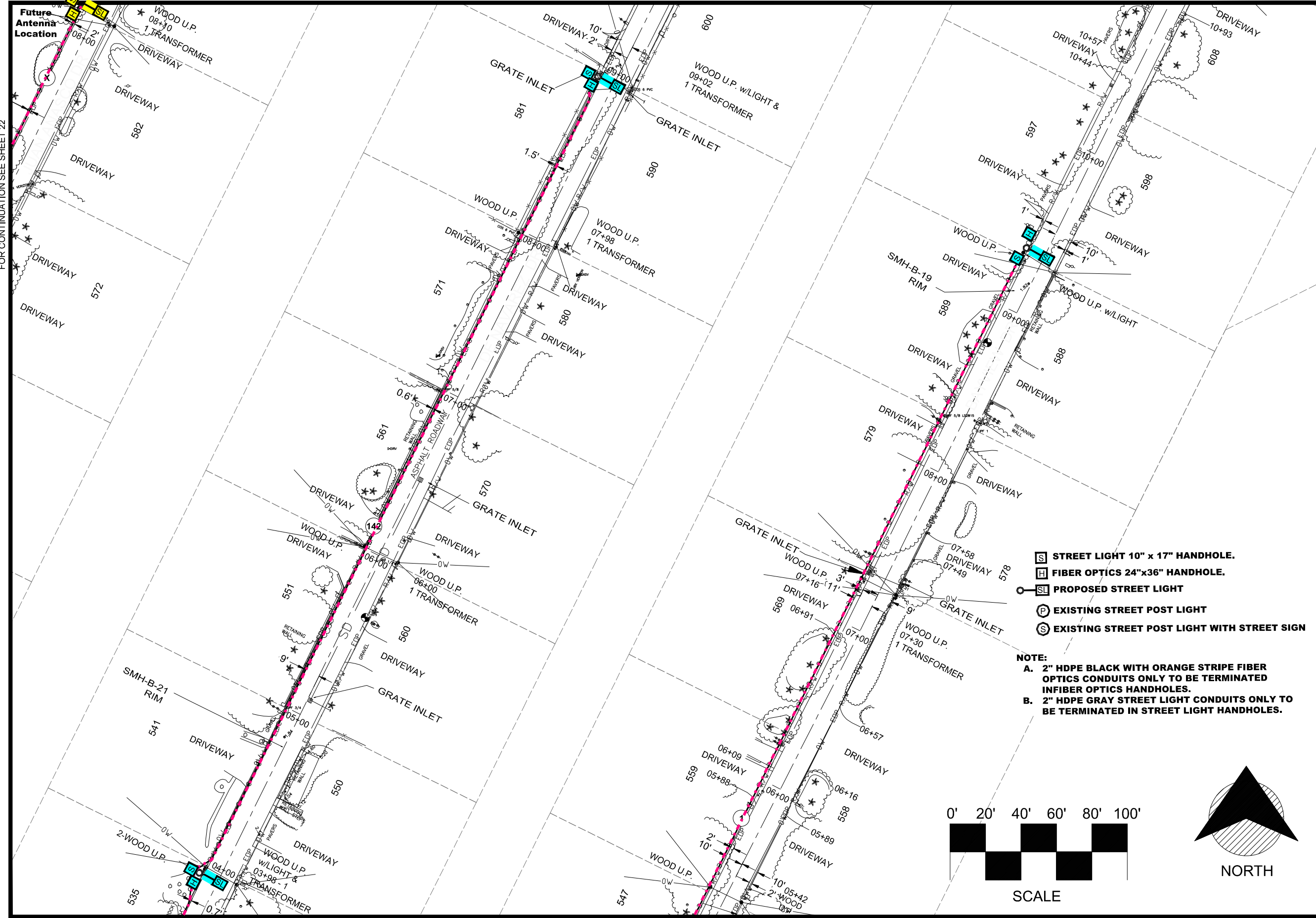
MATCHLINE-STA 08+19
FOR CONTINUATION SEE SHEET 23

On pg 21, 592-602

MATCHLINE-STA 09+49
FOR CONTINUATION SEE SHEET 21

MATCHLINE-STA 10+95
FOR CONTINUATION SEE SHEET 21

MATCHLINE-STA 07+04
FOR CONTINUATION SEE SHEET 22

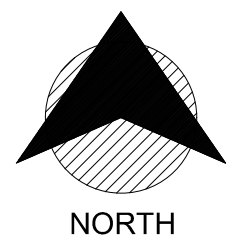
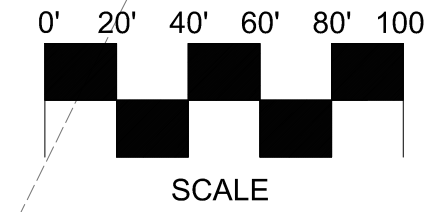


- S STREET LIGHT 10" x 17" HANDHOLE.
- F FIBER OPTICS 24"x36" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:

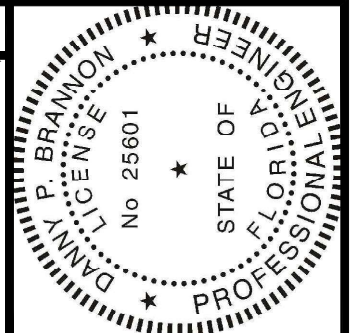
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.

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



MATCHLINE-STA 03+73
FOR CONTINUATION SEE SHEET 19

MATCHLINE-STA 05+19
FOR CONTINUATION SEE SHEET 19



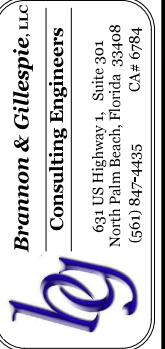
Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

Danny Brannon

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

DATE 11/16/2020

Town of Longboat Key



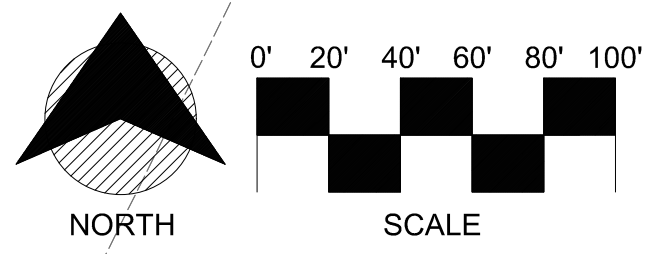
BRANNON & GILLESPIE, LLC
 Consulting Engineers

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



Drawings for:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

Date: 10/22/2020
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 Job #: 2014-LBK
 Sheet

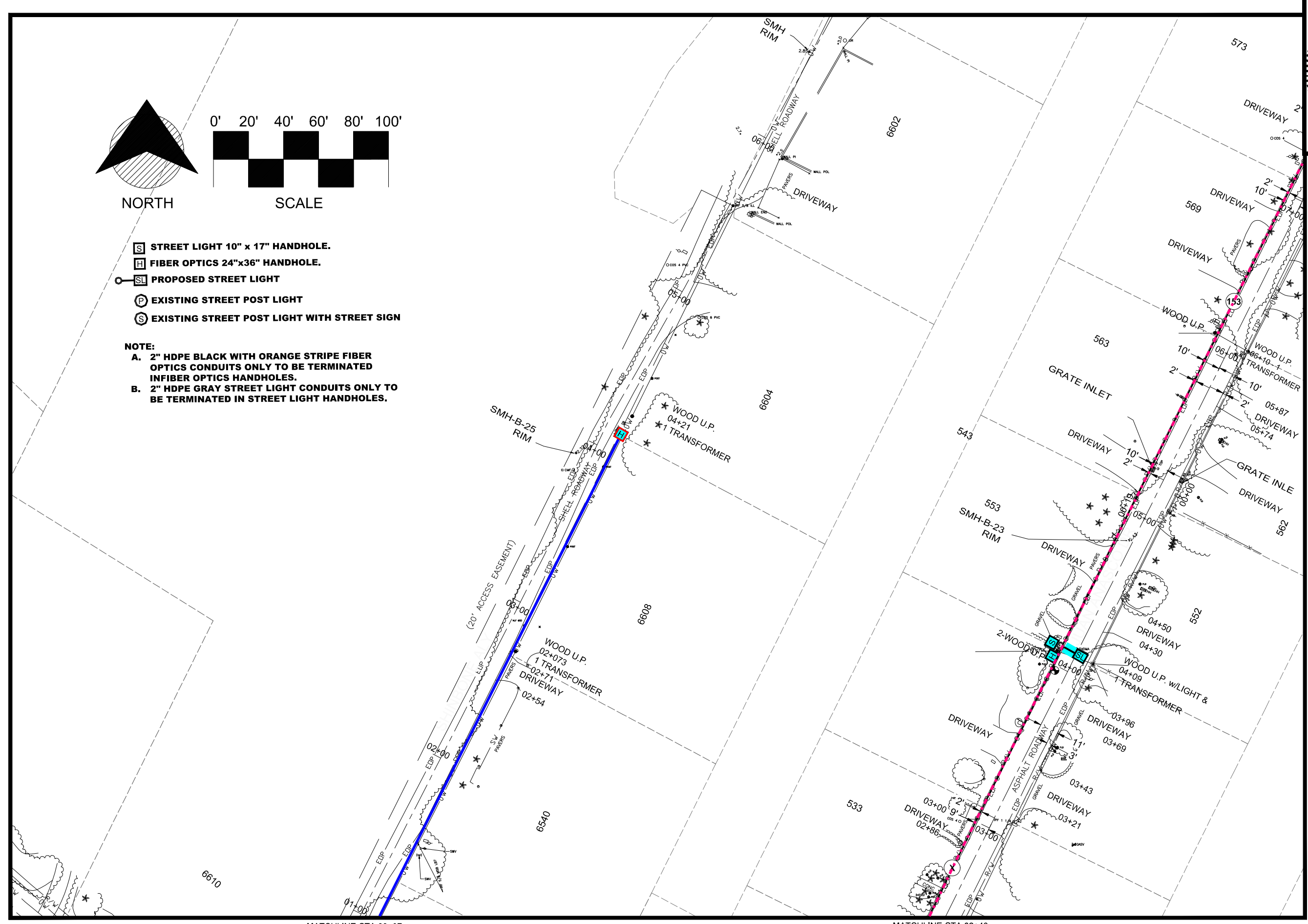


- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

NOTE:

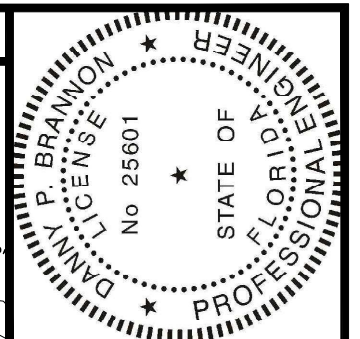
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.

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



MATCHLINE-STA 00+97
FOR CONTINUATION SEE SHEET 7

MATCHLINE-STA 02+43
FOR CONTINUATION SEE SHEET 19



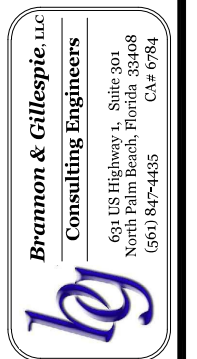
MATCHLINE-STA 07+00
FOR CONTINUATION SEE SHEET 20

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Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

Danny Brannon

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

DATE 11/16/2020



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(561) 847-4435 CA# 6784

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

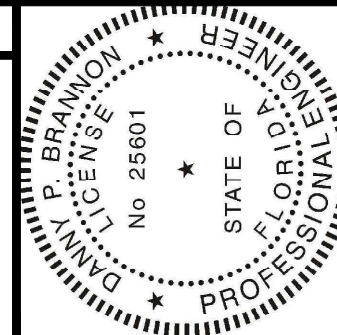
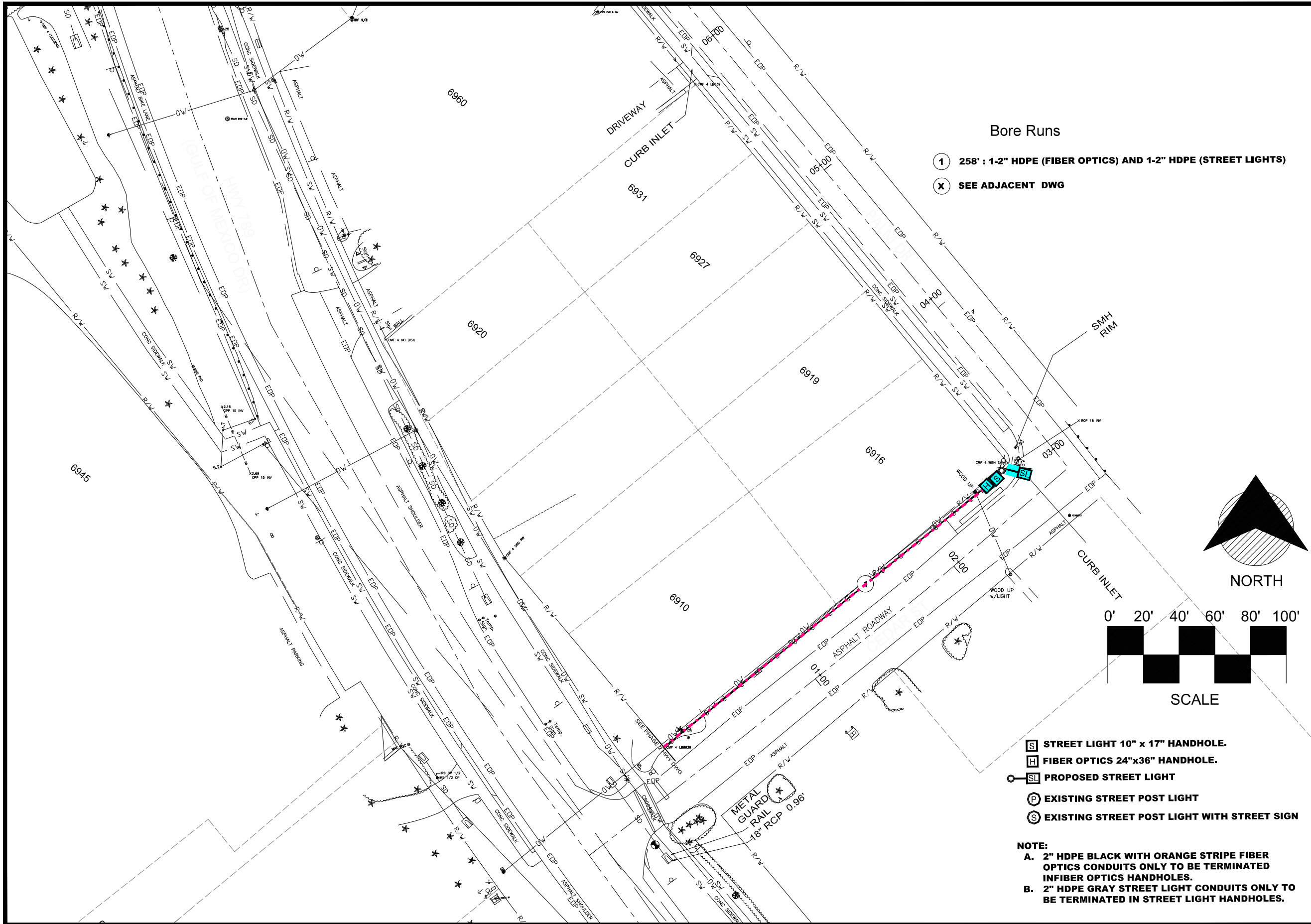


Town of Longboat Key

Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

C22 OF 46

MATCHLINE-STA 06+21
FOR CONTINUATION SEE SHEET 28



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Date: 2020.11.16
11:03:13 -05'00'

Danny P. Brannon

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

DATE 11/16/2020

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

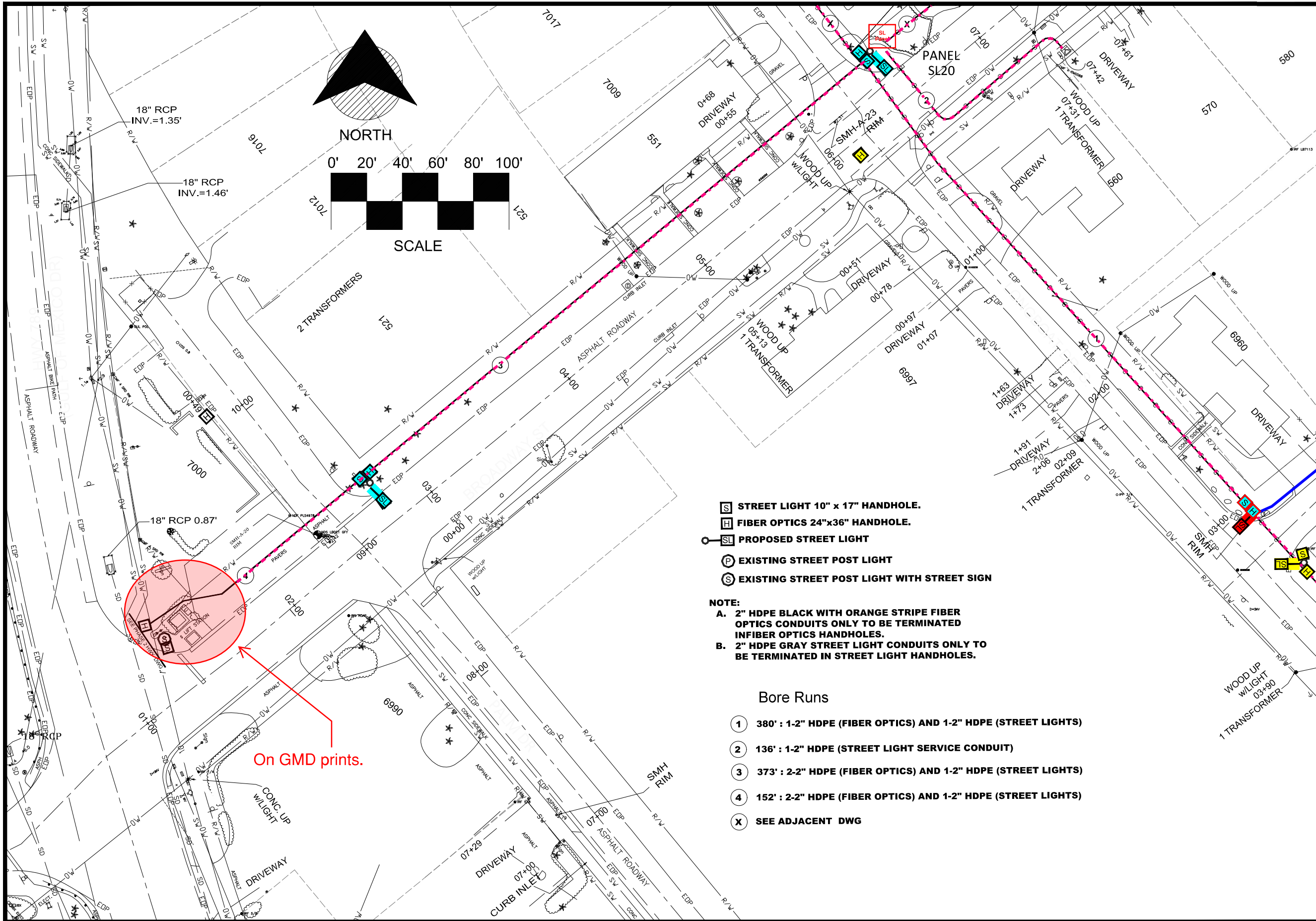


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
CONSTRUCTION - PHASE 2**
LONGBOAT KEY, FLORIDA



Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

Sheet
C27 OF 46



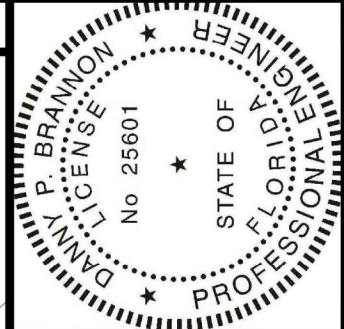
- STREET LIGHT 10' x 17' HANDHOLE.
- FIBER OPTICS 24' x 36' HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

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.

Bore Runs

- 380' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 136' : 1-2" HDPE (STREET LIGHT SERVICE CONDUIT)
- 373' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 152' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- SEE ADJACENT DWG

On GMD prints.

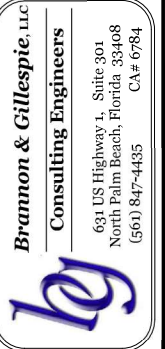


Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'
 DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

MATCHLINE-STA 00+76
FOR CONTINUATION SEE SHEET 29

MATCHLINE-STA 03+81
FOR CONTINUATION SEE SHEET 29

Town of Longboat Key



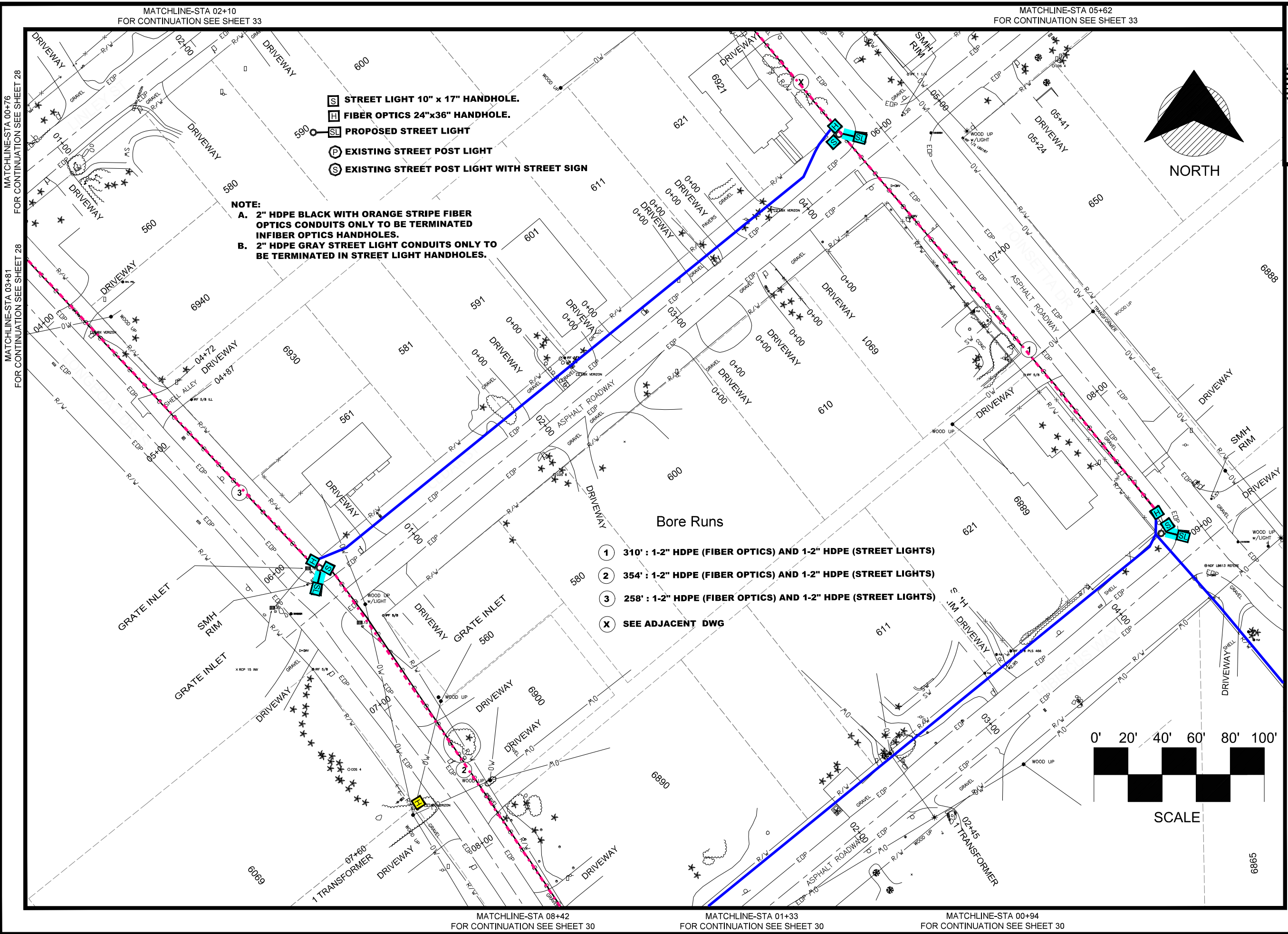
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

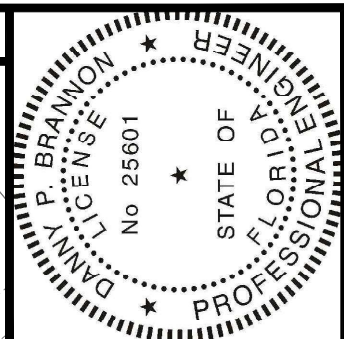
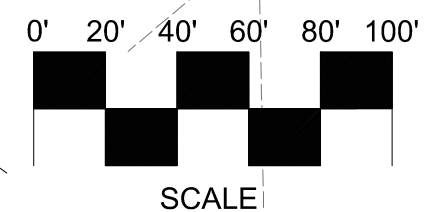
MATCHLINE-STA 02+10
FOR CONTINUATION SEE SHEET 33

MATCHLINE-STA 05+62
FOR CONTINUATION SEE SHEET 33



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.

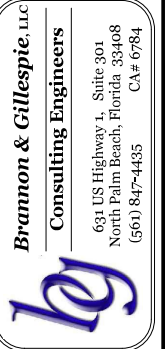
- Bore Runs**
- ① 310' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ② 354' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ③ 258' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - X SEE ADJACENT DWG



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

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

DATE 11/16/2020



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 Consulting Engineers

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DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
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 Sheet

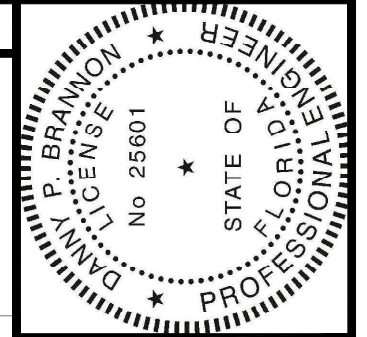
MATCHLINE-STA 08+42
FOR CONTINUATION SEE SHEET 29

MATCHLINE-STA 01+33
FOR CONTINUATION SEE SHEET 29

MATCHLINE-STA 00+94
FOR CONTINUATION SEE SHEET 29

Bore Runs

- ① 250' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 336' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⓧ SEE ADJACENT DWG

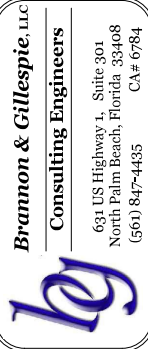


Digitally signed by
 Danny P Brannon
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Danny Brannon

DANNY P. BRANNON, P. E.,
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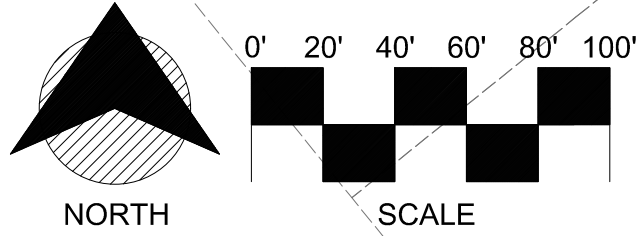
BRANNON & GILLESPIE, LLC
 CONSULTING ENGINEERS
 631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4435 CA# 6784
 LONGBOAT KEY, FLORIDA



MATCHLINE-STA 14+73
 FOR CONTINUATION SEE SHEET 31

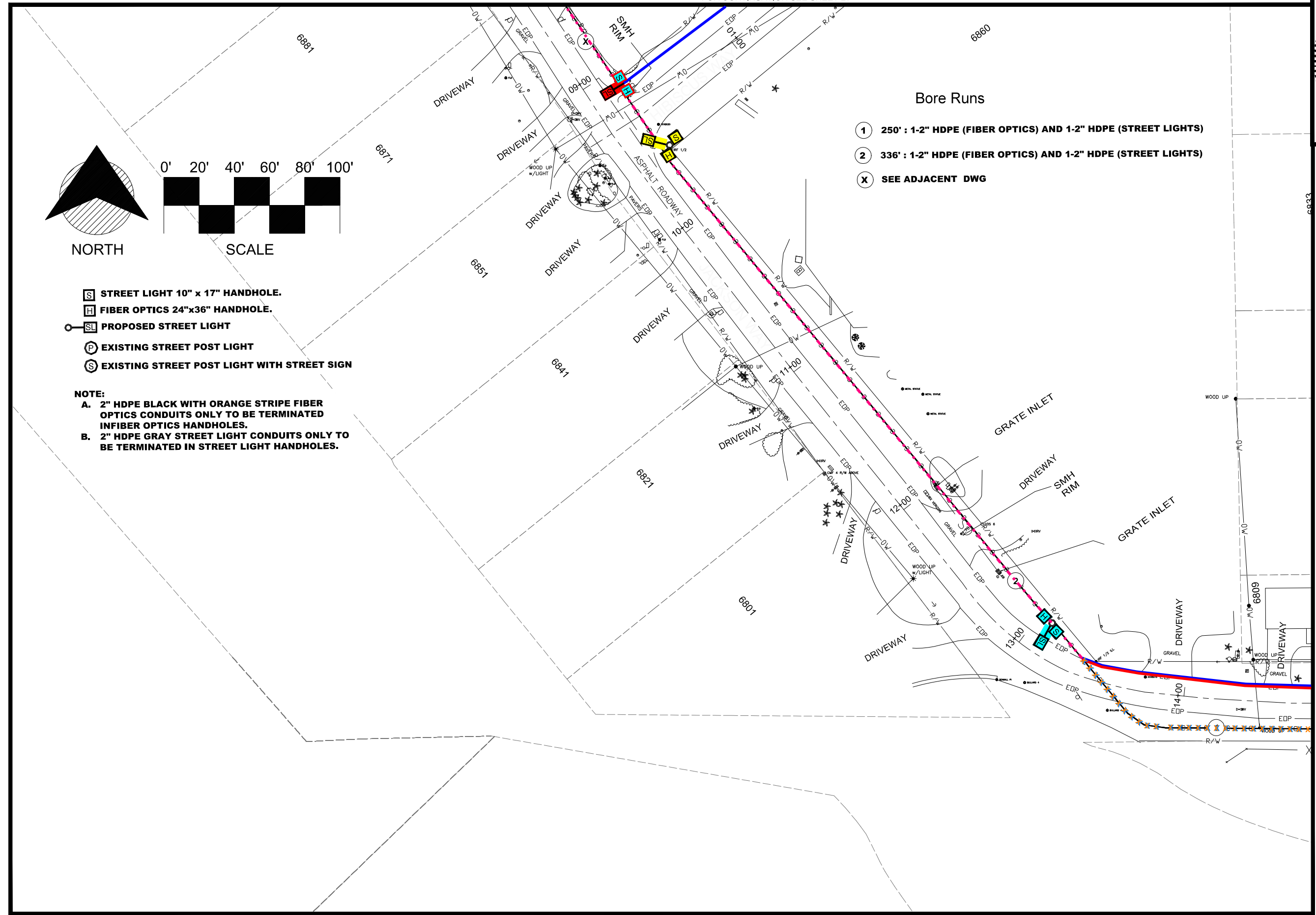
Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job #: 2014-LBK

Sheet
C30 OF 46



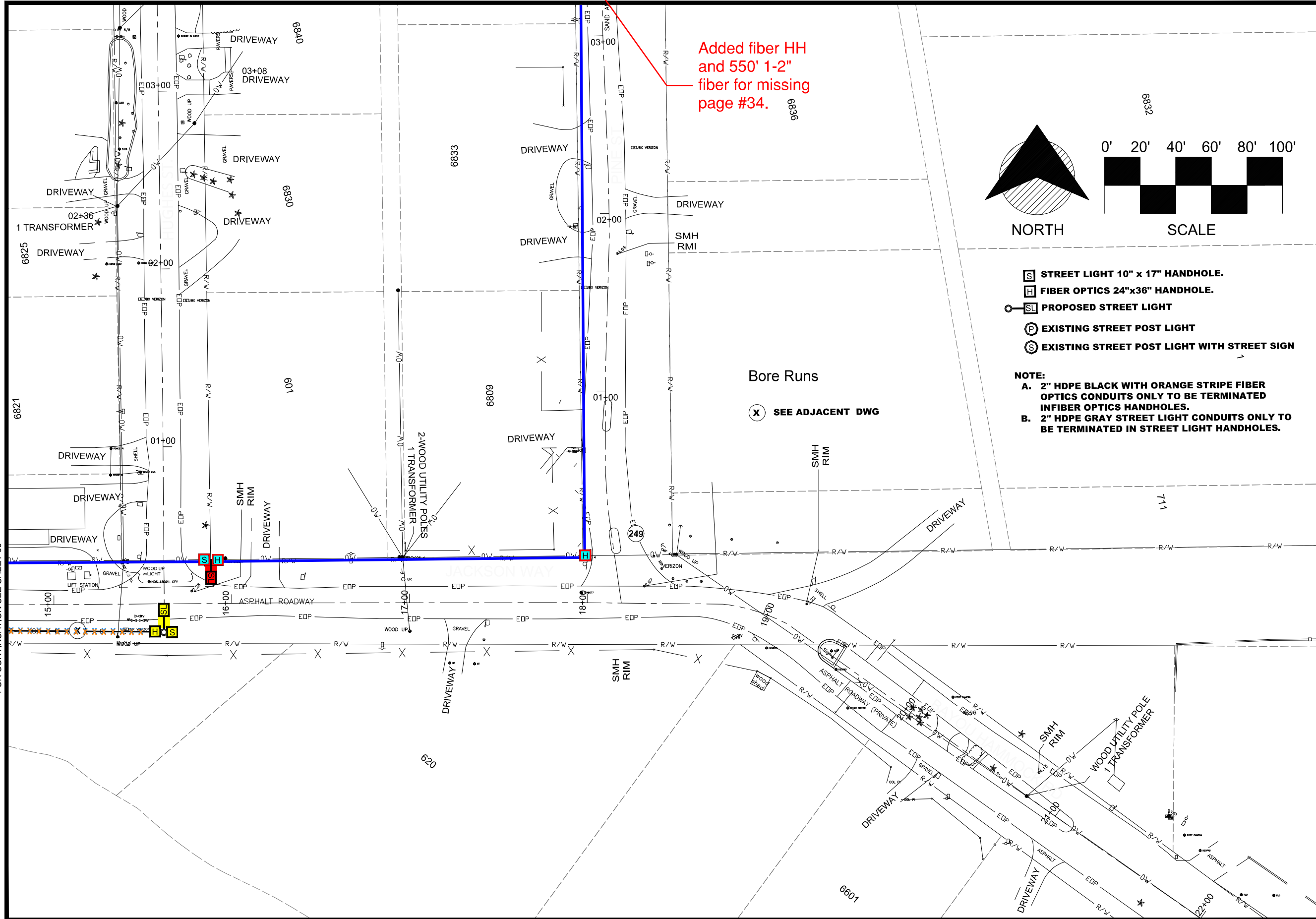
- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 24"x36" HANDHOLE.
- Ⓛ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓞ EXISTING STREET POST LIGHT WITH STREET SIGN

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.

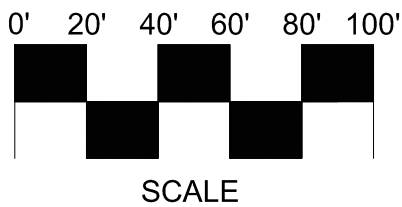
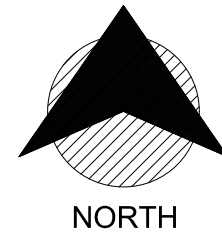


MATCHLINE-STA 03+50
FOR CONTINUATION SEE SHEET 32

MATCHLINE-STA 03+19
FOR CONTINUATION SEE SHEET 32



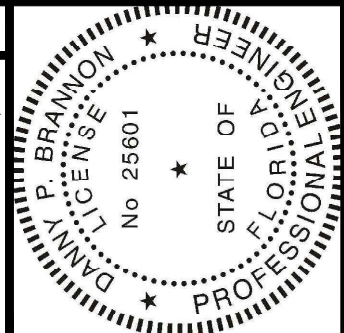
Added fiber HH
and 550' 1-2"
fiber for missing
page #34.



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

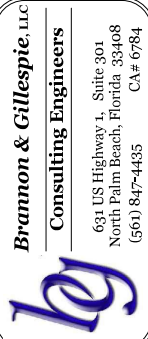
NOTE:
A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED INFIBER OPTICS HANDHOLES.
B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.

Bore Runs
 SEE ADJACENT DWG



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'
 DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

Town of Longboat Key



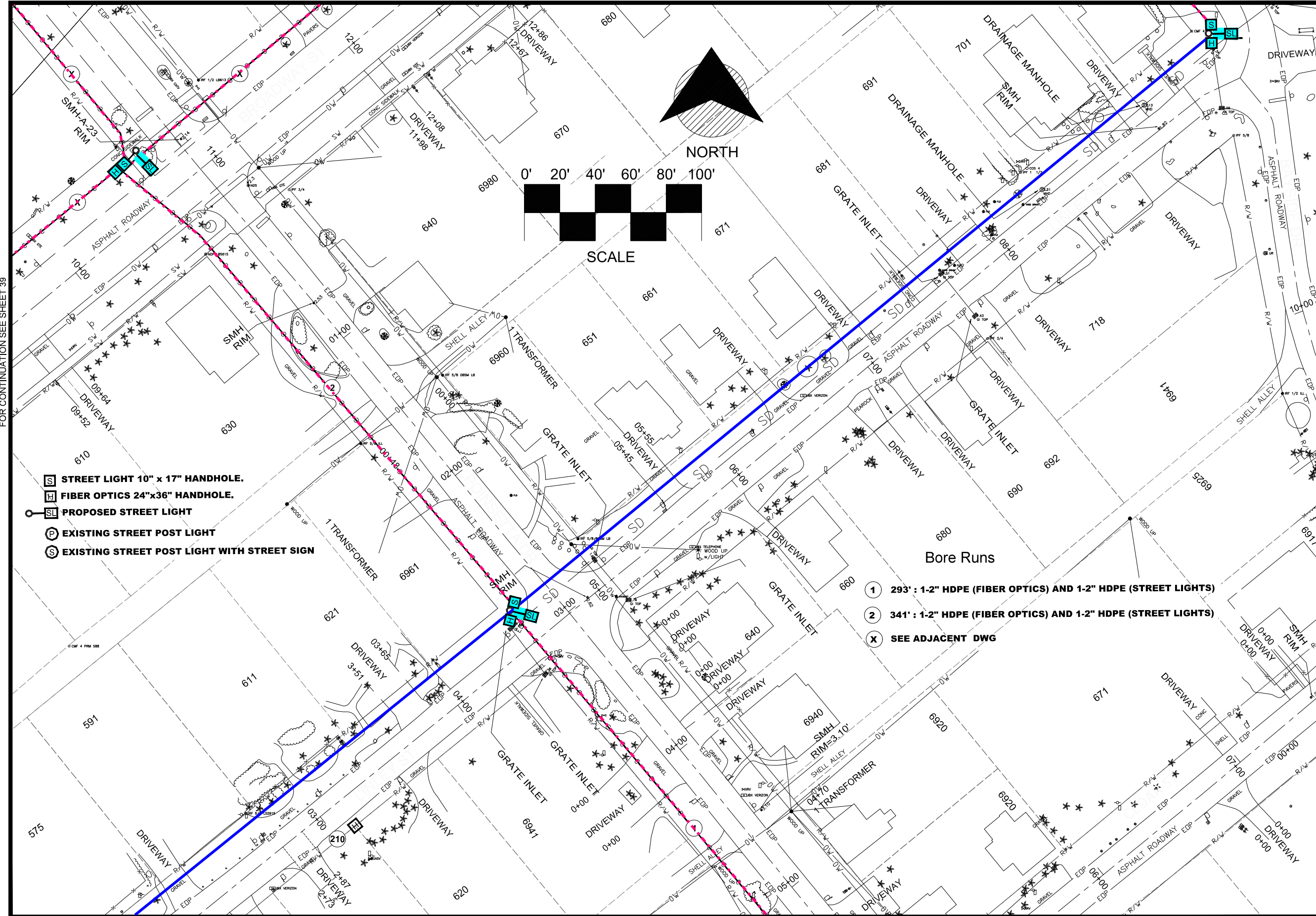
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job #: 2014-LBK
 Sheet

MATCHLINE-STA 22+01
FOR CONTINUATION SEE SHEET 25

MATCHLINE-STA 12+39
FOR CONTINUATION SEE SHEET 35



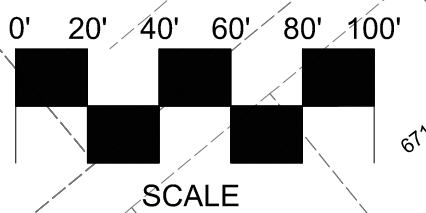
MATCHLINE-STA 09+52
FOR CONTINUATION SEE SHEET 39

MATCHLINE-STA 09+66
FOR CONTINUATION SEE SHEET 34

MATCHLINE-STA 07+59
FOR CONTINUATION SEE SHEET 34

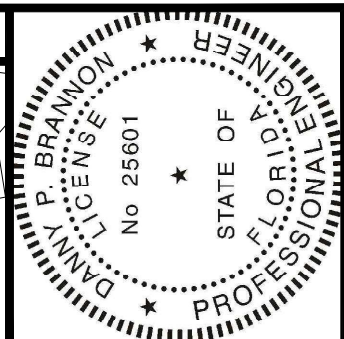
MATCHLINE-STA 02+10
FOR CONTINUATION SEE SHEET 29

MATCHLINE-STA 05+62
FOR CONTINUATION SEE SHEET 29



- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 24"x36" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

- ① 293' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 341' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⓧ SEE ADJACENT DWG

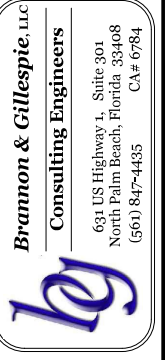


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 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

Danny P. Brannon

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

DATE 11/16/2020

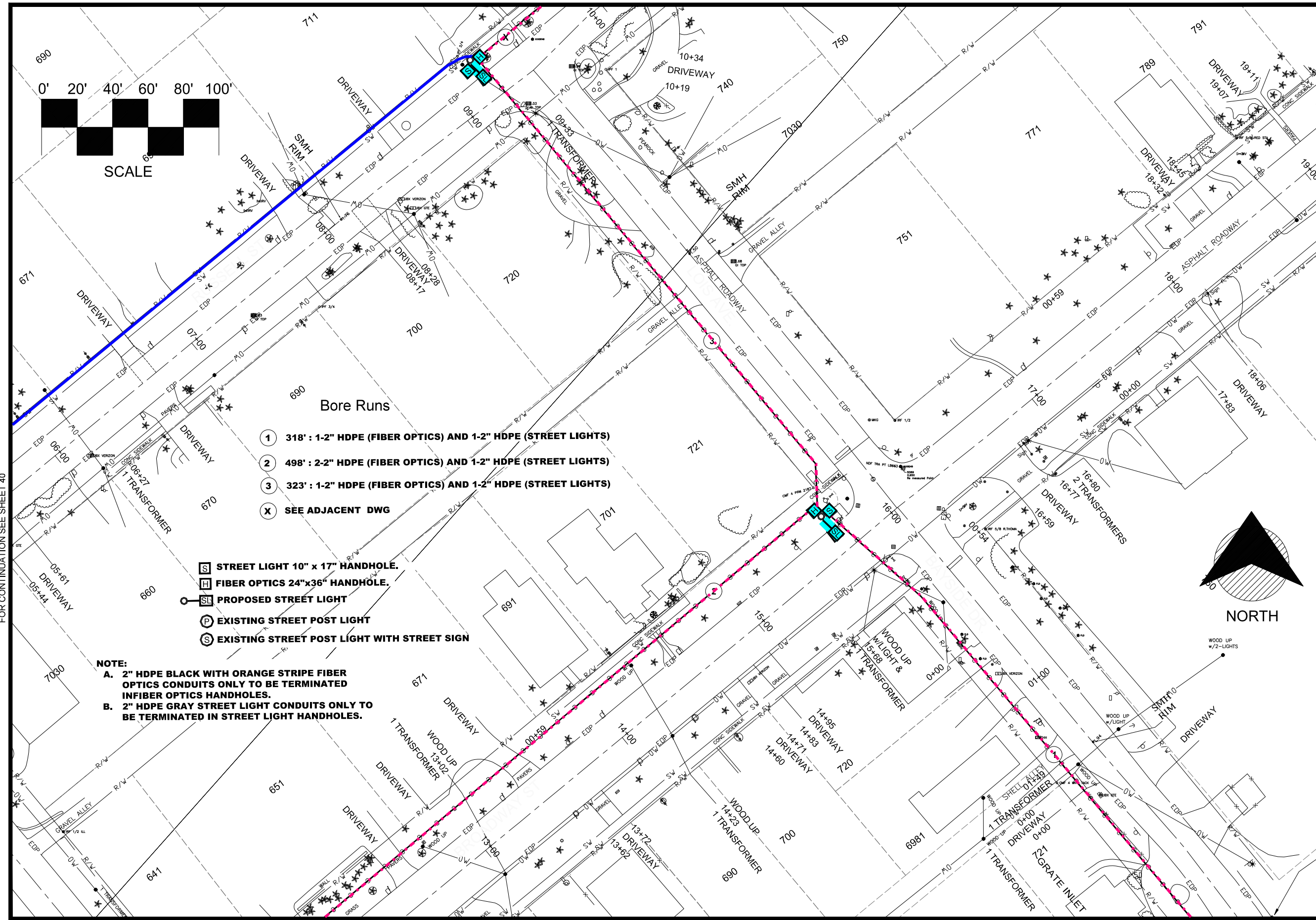
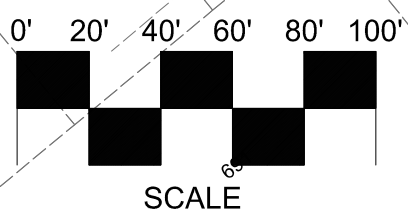


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
 Scale: AS NOTED
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 Checked: DPB
 Job #: 2014-LBK
 Sheet

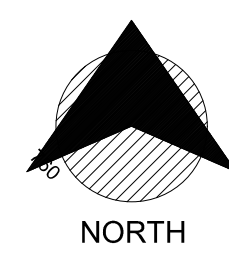
MATCHLINE-STA 10+00
FOR CONTINUATION SEE SHEET 36



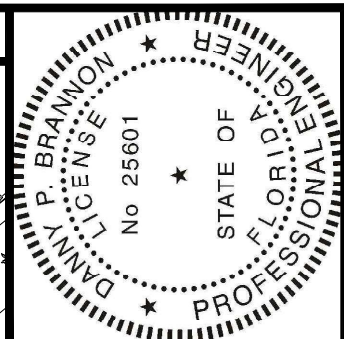
- 1 318' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 2 498' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 3 323' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- X SEE ADJACENT DWG

- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 24"x36" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN

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.



MATCHLINE-STA 12+39
FOR CONTINUATION SEE SHEET 33



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13-05'00'

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

DATE 11/16/2020

Bramon & Gillespie, LLC
 Consulting Engineers

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

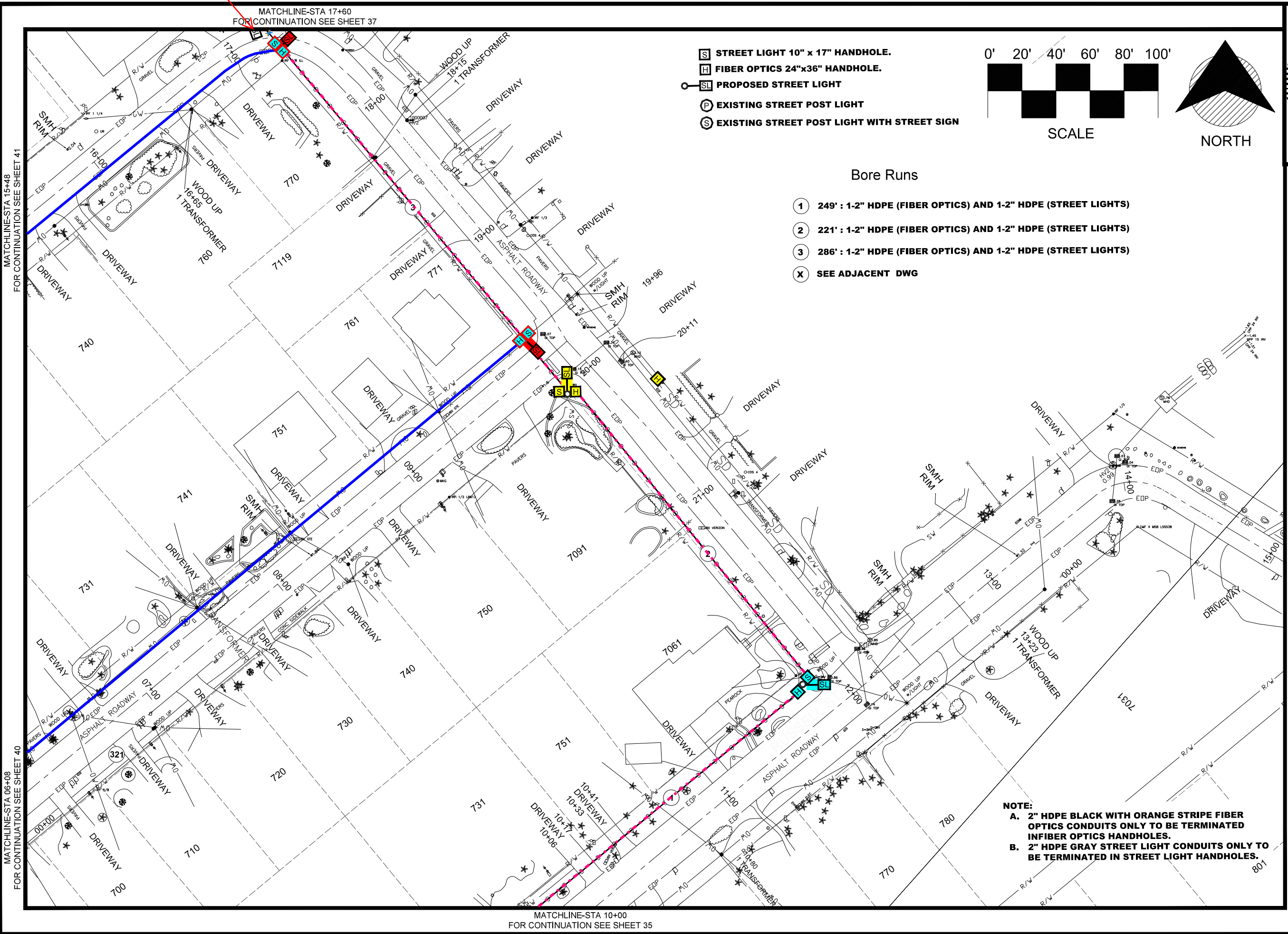
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



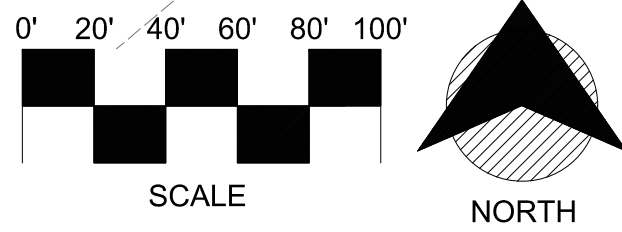
Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job # 2014-LBK
 Sheet

C35 OF 46

See page 37



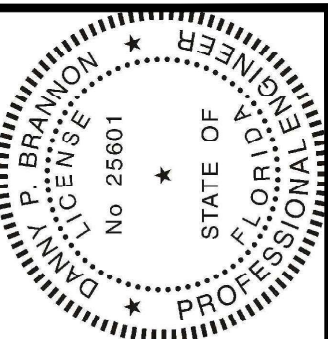
- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN



Bore Runs

- 249' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 221' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- 286' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- SEE ADJACENT DWG

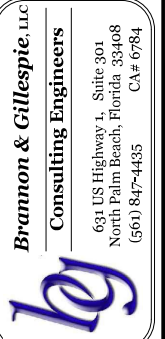
NOTE:
 A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
 B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'
 DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

MATCHLINE-STA 15+07
 FOR CONTINUATION SEE SHEET 38

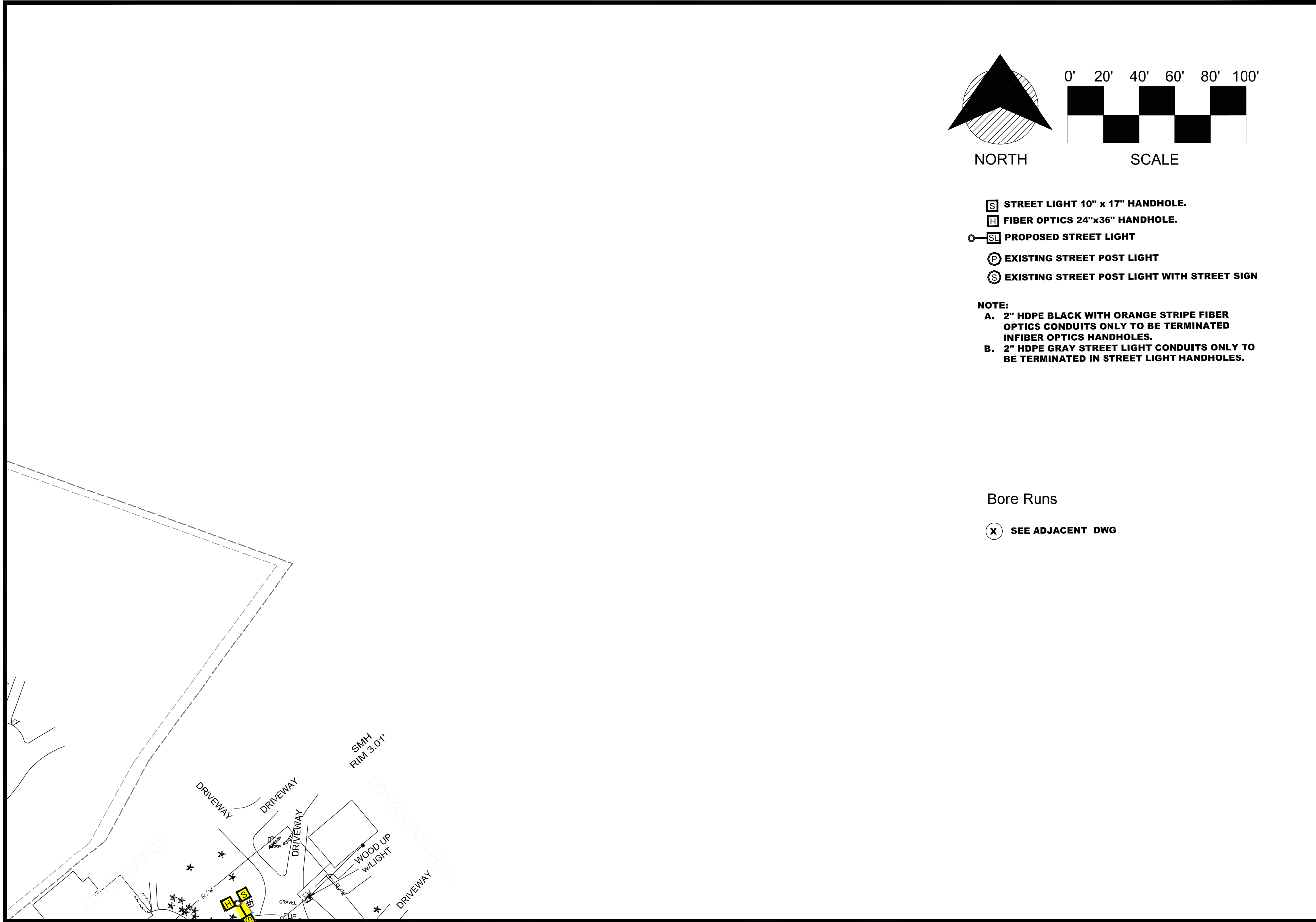
Town of Longboat Key



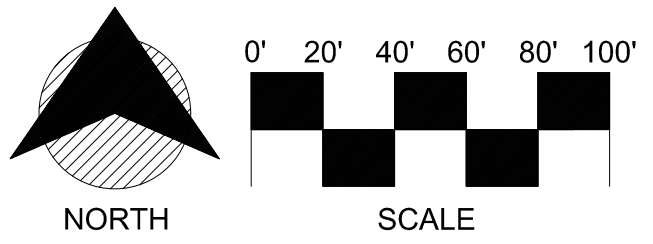
DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	



MATCHLINE-STA 17+60
FOR CONTINUATION SEE SHEET 36

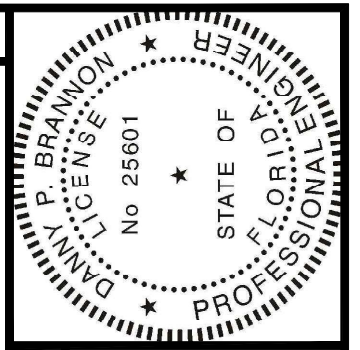


- [S]** STREET LIGHT 10" x 17" HANDHOLE.
- [H]** FIBER OPTICS 24"x36" HANDHOLE.
- [SL]** PROPOSED STREET LIGHT
- [P]** EXISTING STREET POST LIGHT
- [S]** EXISTING STREET POST LIGHT WITH STREET SIGN

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.

Bore Runs

- (X)** SEE ADJACENT DWG



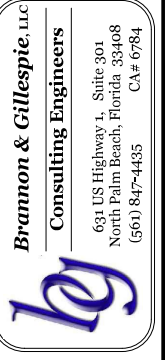
Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

Danny Brannon

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

DATE 11/16/2020

Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA

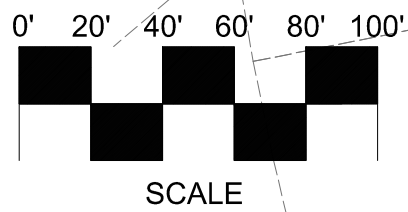
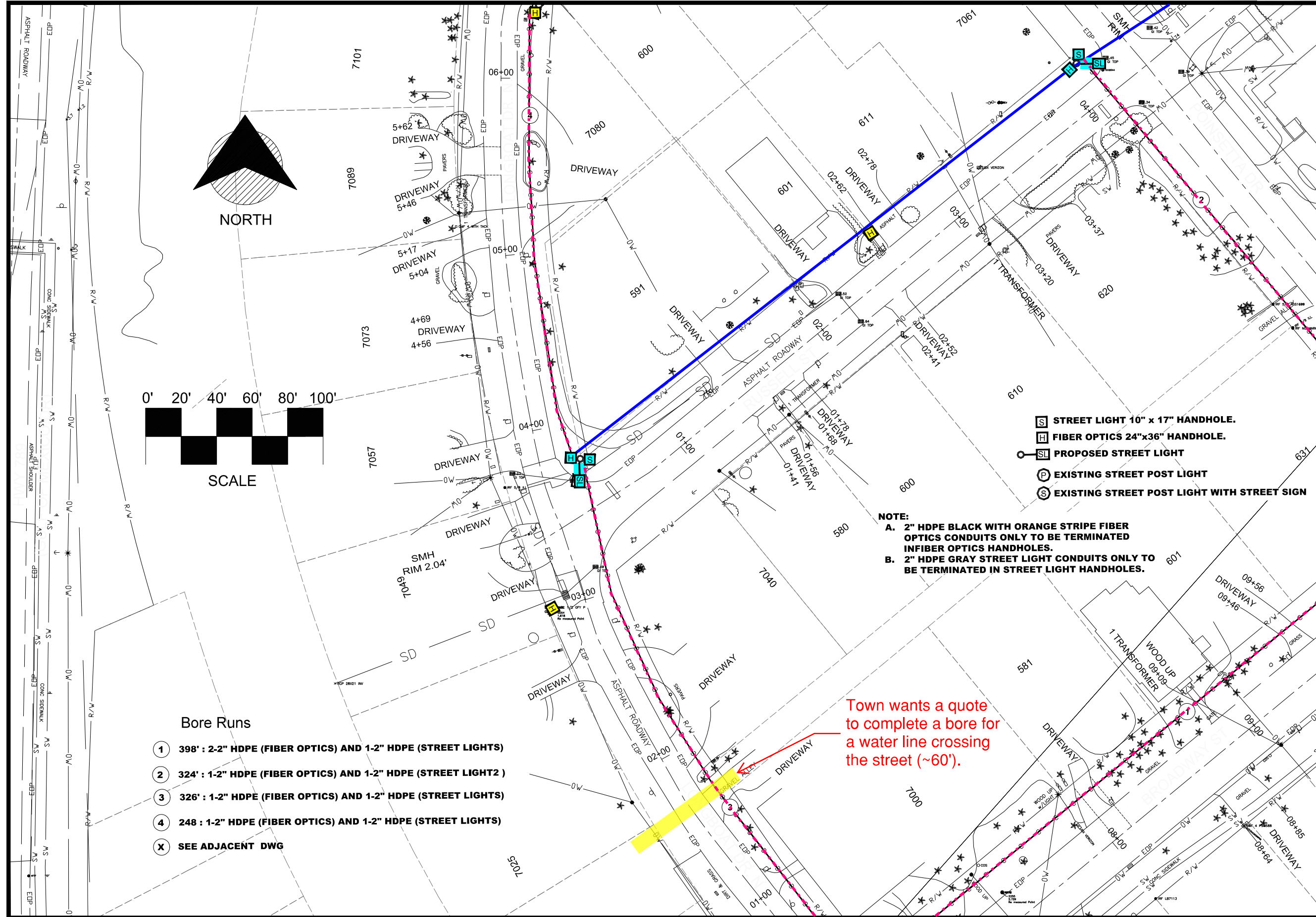


Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job #: 2014-LBK
 Sheet

C37 OF 46

MATCHLINE-STA 06+43
FOR CONTINUATION SEE SHEET 40

MATCHLINE-STA 04+94
FOR CONTINUATION SEE SHEET



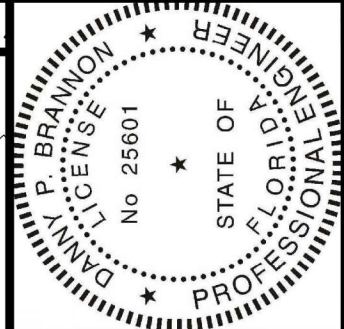
- Bore Runs**
- ① 398' : 2-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ② 324' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHT 2)
 - ③ 326' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ④ 248' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ⓧ SEE ADJACENT DWG

- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 24"x36" HANDHOLE.
- Ⓛ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓞ EXISTING STREET POST LIGHT WITH STREET SIGN

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.

Town wants a quote to complete a bore for a water line crossing the street (~60').



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

Danny Brannon

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

DATE 11/16/2020

Brannon & Gillespie, LLC
 Consulting Engineers

631 US Highway 1, Suite 301
 North Palm Beach, Florida 33408
 (561) 847-4485 CA# 6784

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



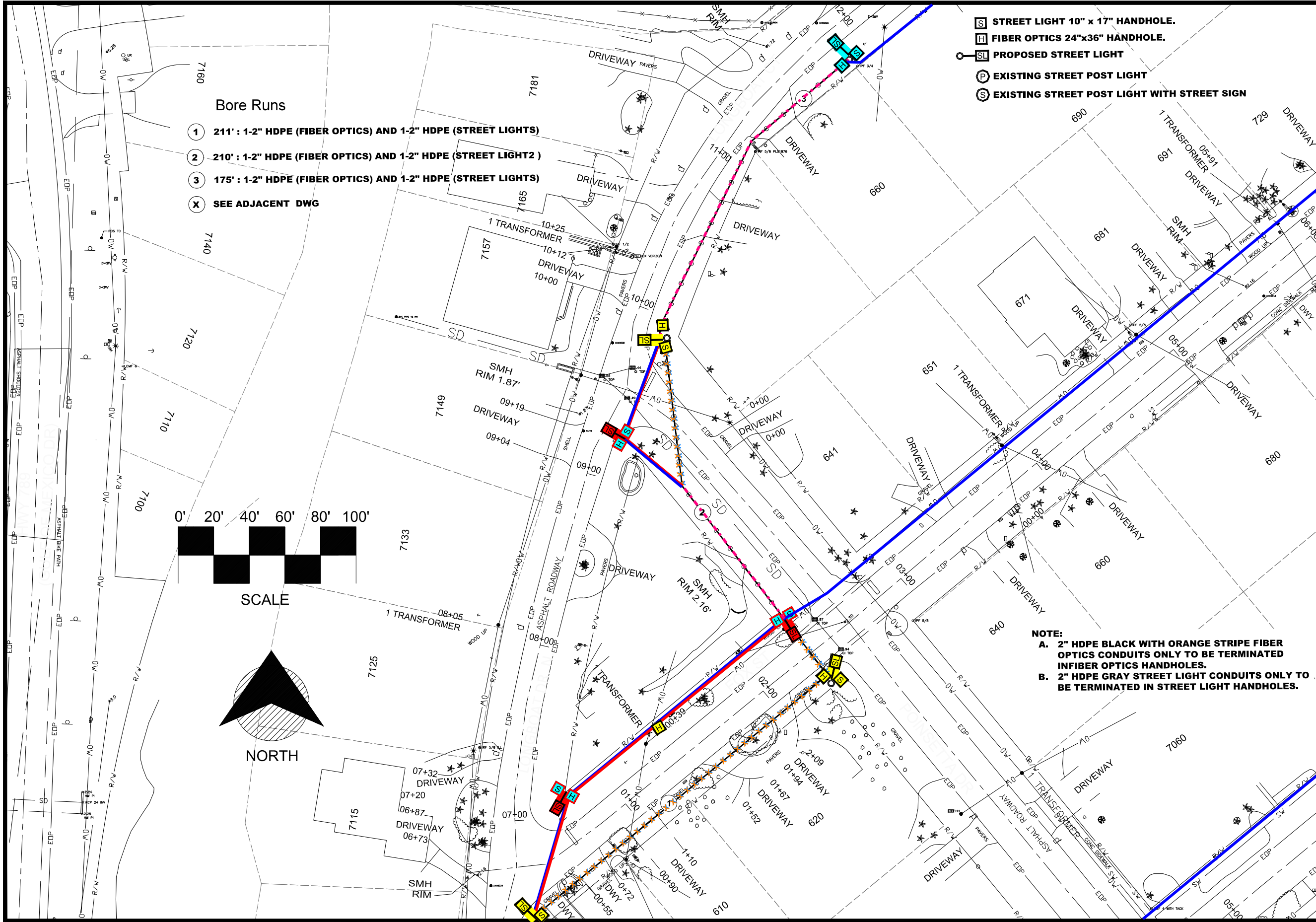
MATCHLINE-STA 09+52
 FOR CONTINUATION SEE SHEET 33

Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job # 2014-LBK
 Sheet

MATCHLINE-STA 00+90
 FOR CONTINUATION SEE SHEET 28

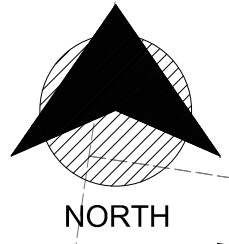
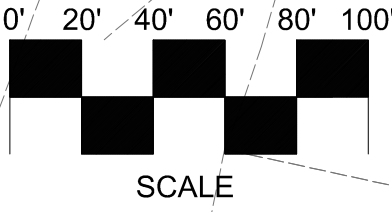
MATCHLINE-STA 07+33
 FOR CONTINUATION SEE SHEET 28

MATCHLINE-STA 12+15
FOR CONTINUATION SEE SHEET 41



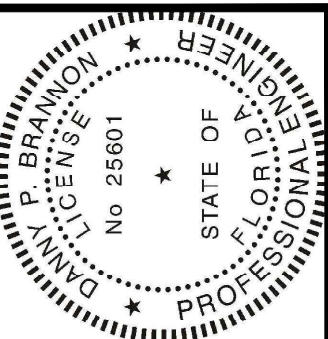
- Bore Runs**
- ① 211' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ② 210' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHT 2)
 - ③ 175' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - X SEE ADJACENT DWG

- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN



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.



MATCHLINE-STA 06+08
FOR CONTINUATION SEE SHEET 38

Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

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

DATE 11/16/2020

Bramon & Gillespie, LLC
Consulting Engineers

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

DRAWINGS FOR:

Town of Longboat Key

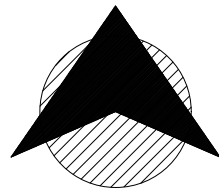
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2

LONGBOAT KEY, FLORIDA

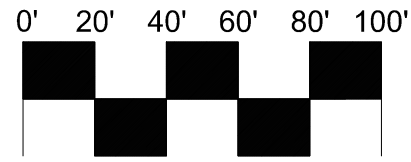
Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	C40 OF 46

MATCHLINE-STA 06+43
FOR CONTINUATION SEE SHEET 39

MATCHLINE-STA 04+94
FOR CONTINUATION SEE SHEET 39



NORTH



SCALE

S STREET LIGHT 10" x 17" HANDHOLE.

H FIBER OPTICS 24"x36" HANDHOLE.

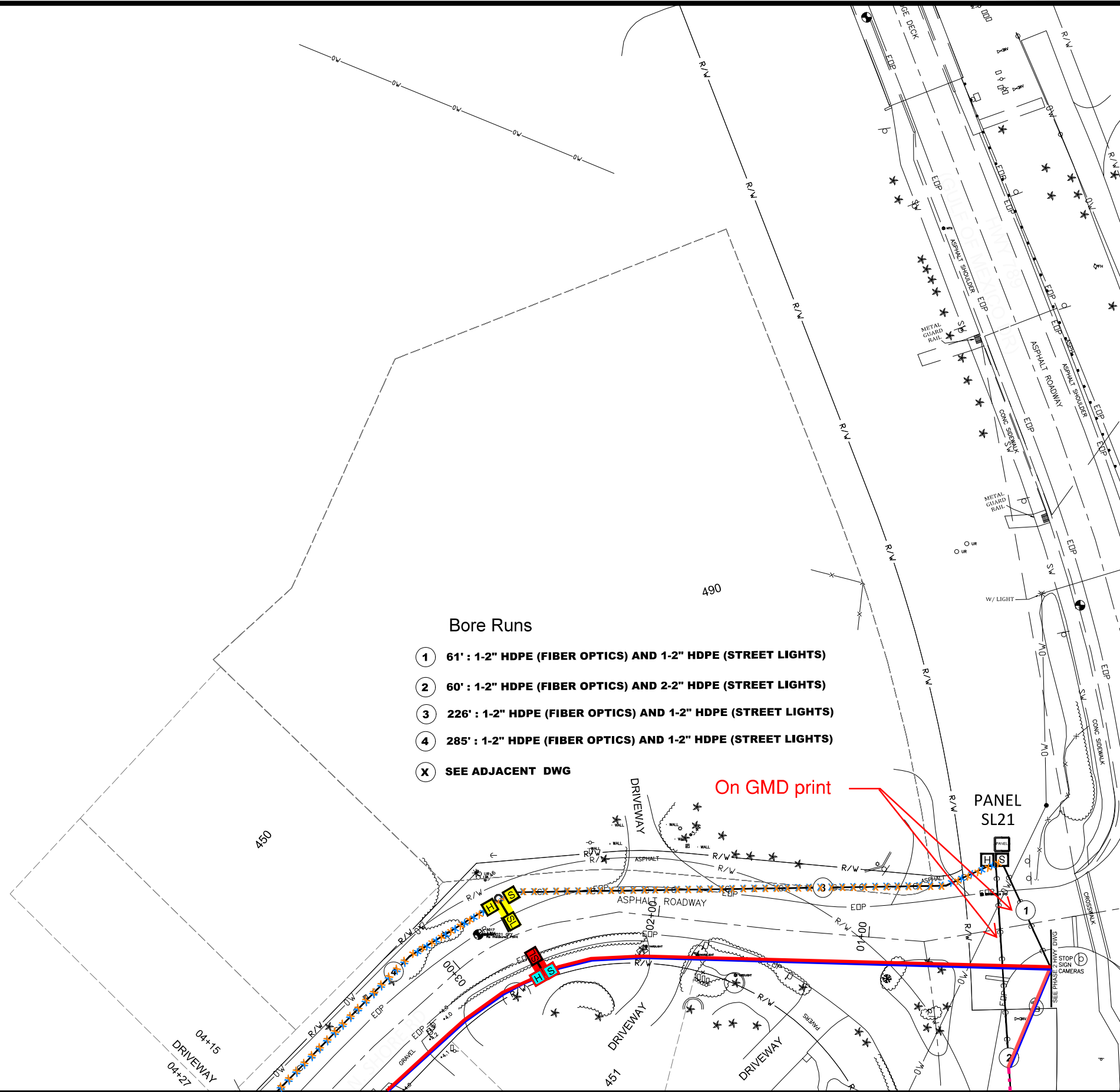
SL PROPOSED STREET LIGHT

P EXISTING STREET POST LIGHT

S EXISTING STREET POST LIGHT WITH STREET SIGN

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.

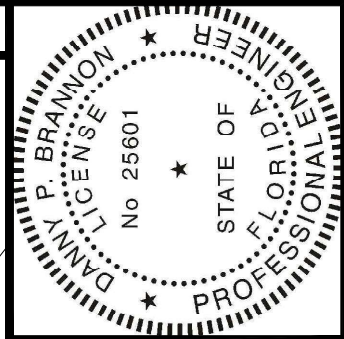


Bore Runs

- ① 61' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ② 60' : 1-2" HDPE (FIBER OPTICS) AND 2-2" HDPE (STREET LIGHTS)
- ③ 226' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ④ 285' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
- ⓧ SEE ADJACENT DWG

MATCHLINE-STA 03+86
FOR CONTINUATION SEE SHEET 43

MATCHLINE-STA 01+38
FOR CONTINUATION SEE SHEET 43

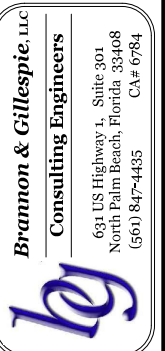


Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

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

DATE 11/16/2020

Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

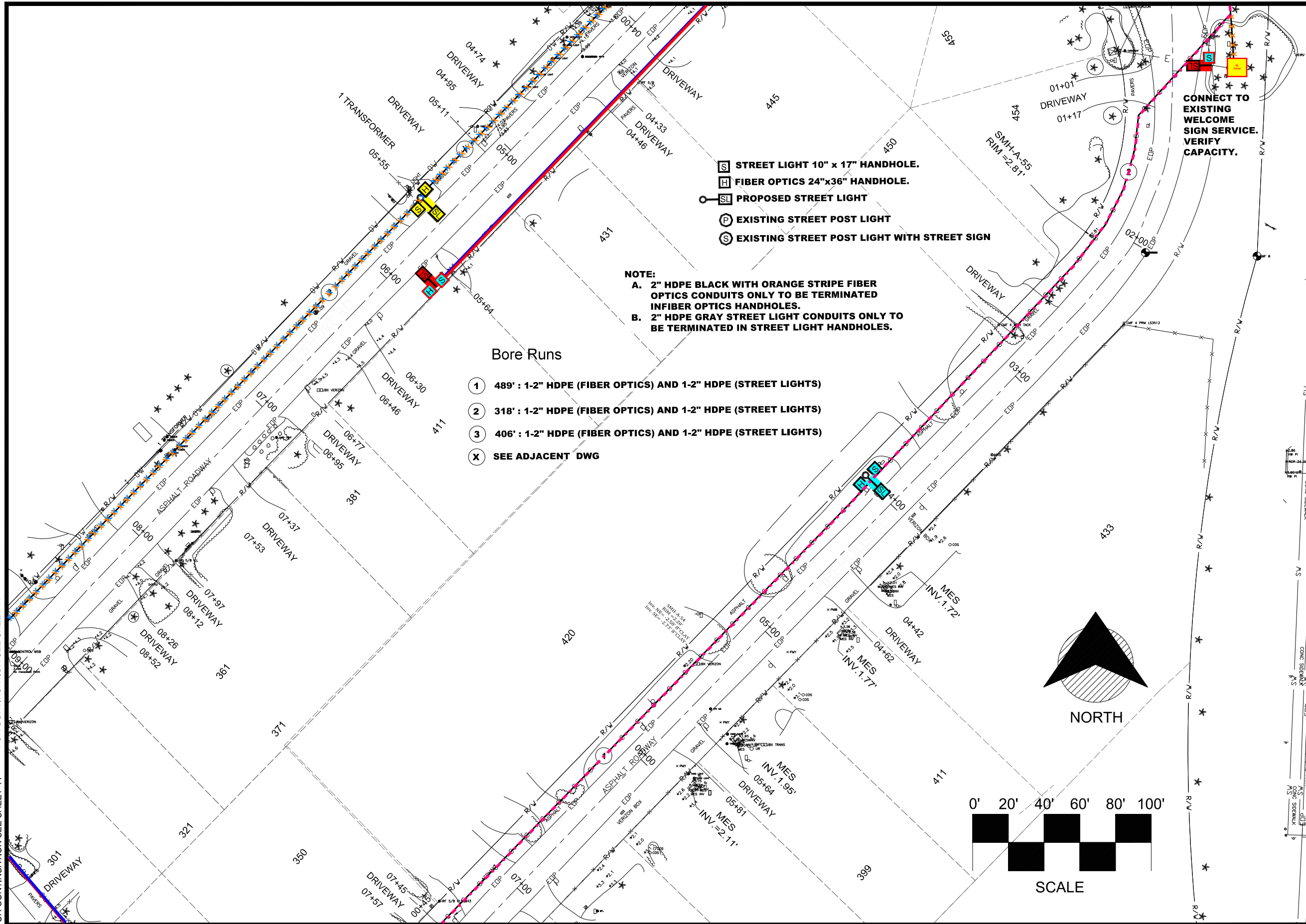


Date:	10/22/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK

Sheet
C42 OF 46

MATCHLINE-STA 03+86
FOR CONTINUATION SEE SHEET 42

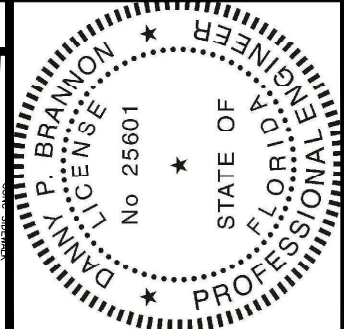
MATCHLINE-STA 01+38
FOR CONTINUATION SEE SHEET 42



- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 24"x36" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN

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.

- Bore Runs**
- ① 489' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ② 318' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - ③ 406' : 1-2" HDPE (FIBER OPTICS) AND 1-2" HDPE (STREET LIGHTS)
 - X SEE ADJACENT DWG



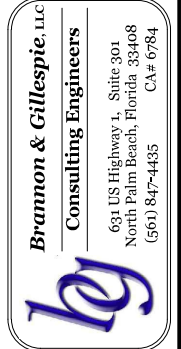
Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'

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

DATE 11/16/2020

MATCHLINE-STA 00+00
 FOR CONTINUATION SEE SHEET 2

Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



Date: 10/22/2020
 Scale: AS NOTED
 Drawn: DPB
 Checked: DPB
 Job #: 2014-LBK
 Sheet

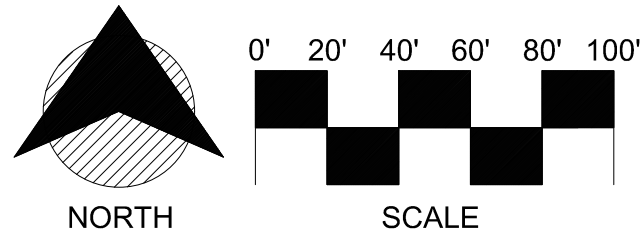
MATCHLINE-STA 09+10 FOR CONTINUATION SEE SHEET 44

MATCHLINE-STA 01+19 FOR CONTINUATION SEE SHEET 44

MATCHLINE-STA 01+21 FOR CONTINUATION SEE SHEET 44

MATCHLINE-STA 01+21 FOR CONTINUATION SEE SHEET 45

MATCHLINE-STA 07+28 FOR CONTINUATION SEE SHEET 45



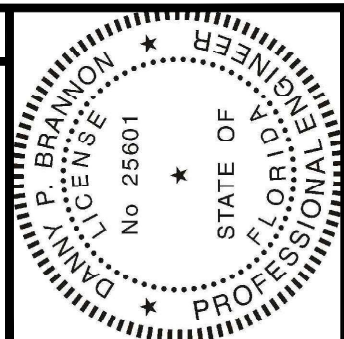
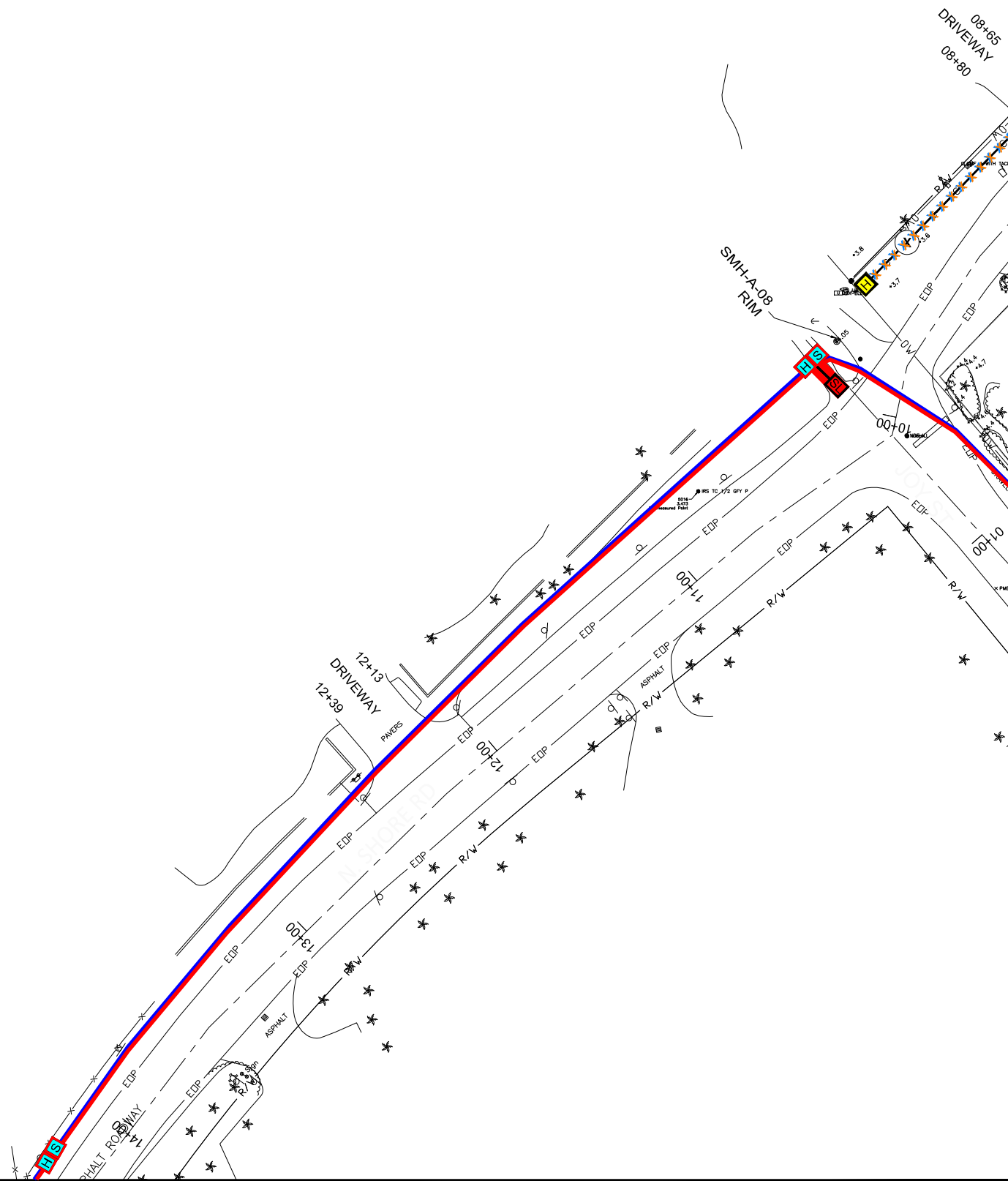
- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 24"x36" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

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.

Bore Runs

- X SEE ADJACENT DWG



MATCHLINE-STA 09+10
FOR CONTINUATION SEE SHEET 43

Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

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

DATE 11/16/2020

MATCHLINE-STA 01+19
FOR CONTINUATION SEE SHEET 43

Brammon & Gillespie, LLC
Consulting Engineers

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

Town of Longboat Key

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA

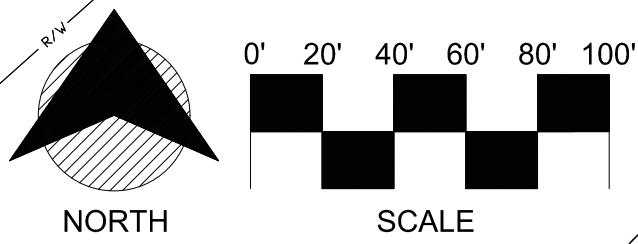
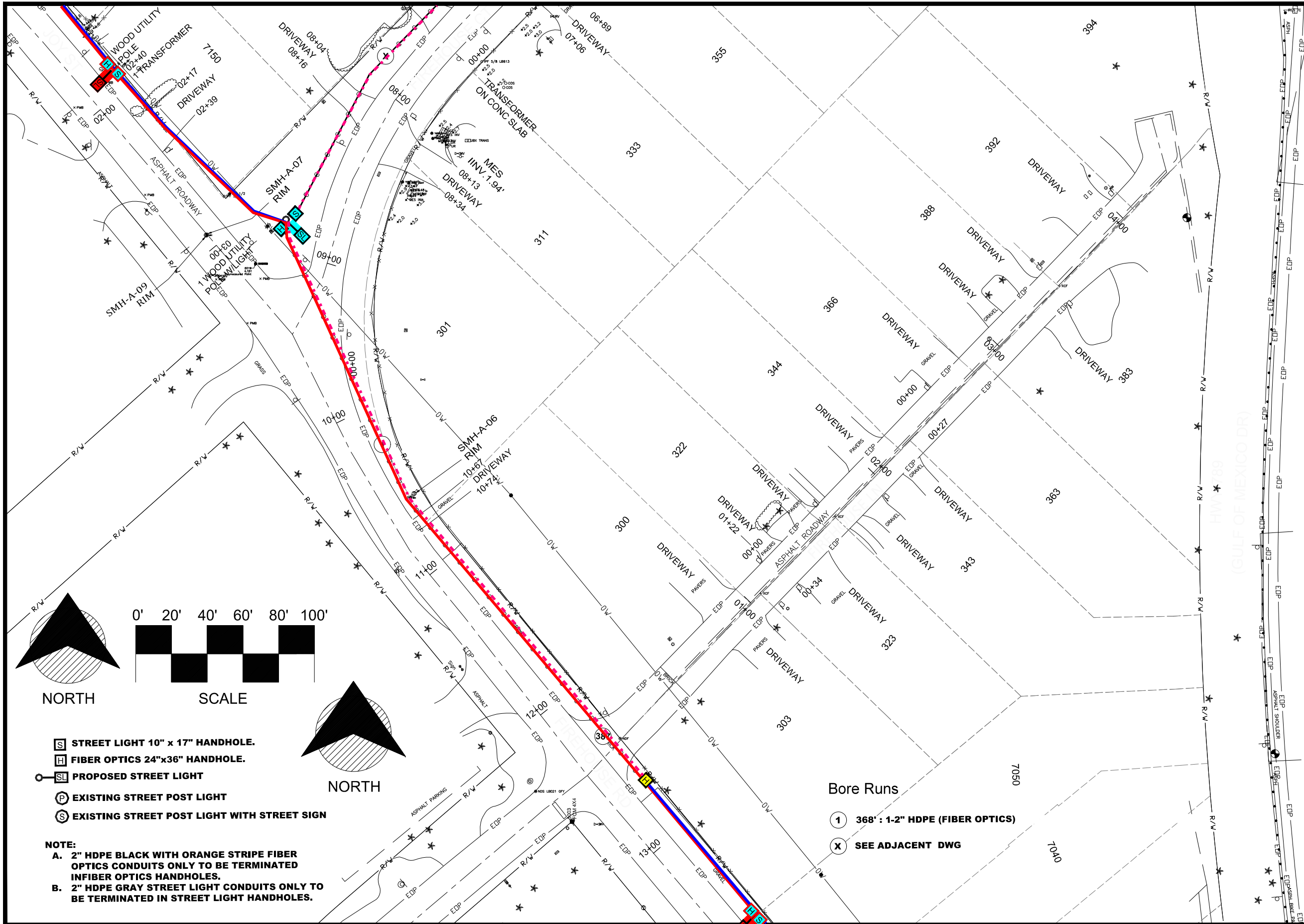


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Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

Sheet
C44 OF 46

MATCHLINE-STA 01+21
FOR CONTINUATION SEE SHEET 43

MATCHLINE-STA 07+28
FOR CONTINUATION SEE SHEET 43

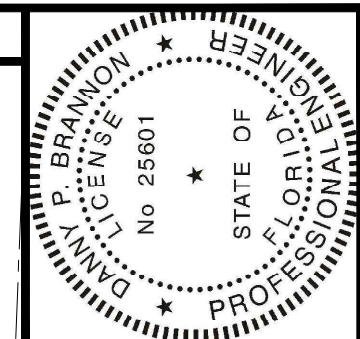


- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 24"x36" HANDHOLE.
- S PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

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.

- Bore Runs**
- 1 368' : 1-2" HDPE (FIBER OPTICS)
 - X SEE ADJACENT DWG

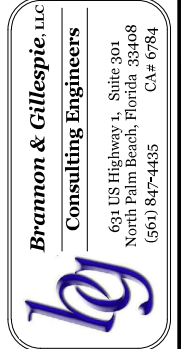
MATCHLINE-STA 13+53
FOR CONTINUATION SEE SHEET 46



Digitally signed by
 Danny P Brannon
 Date: 2020.11.16
 11:03:13 -05'00'
 DANNY P. BRANNON, P. E.
 FLORIDA P. E. NO. 25601
 DATE 11/16/2020

MATCHLINE-STA 00+00
FOR CONTINUATION SEE SHEET 2

Town of Longboat Key

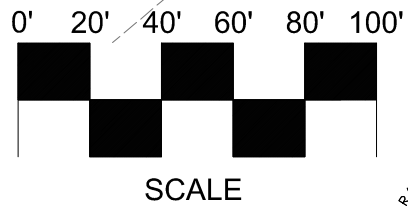


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
 LONGBOAT KEY, FLORIDA



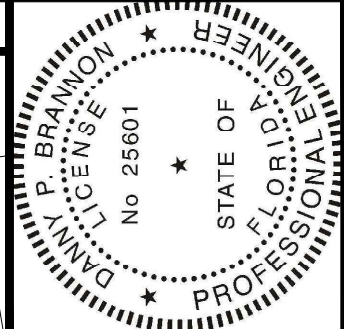
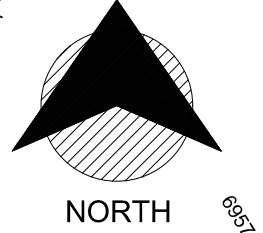
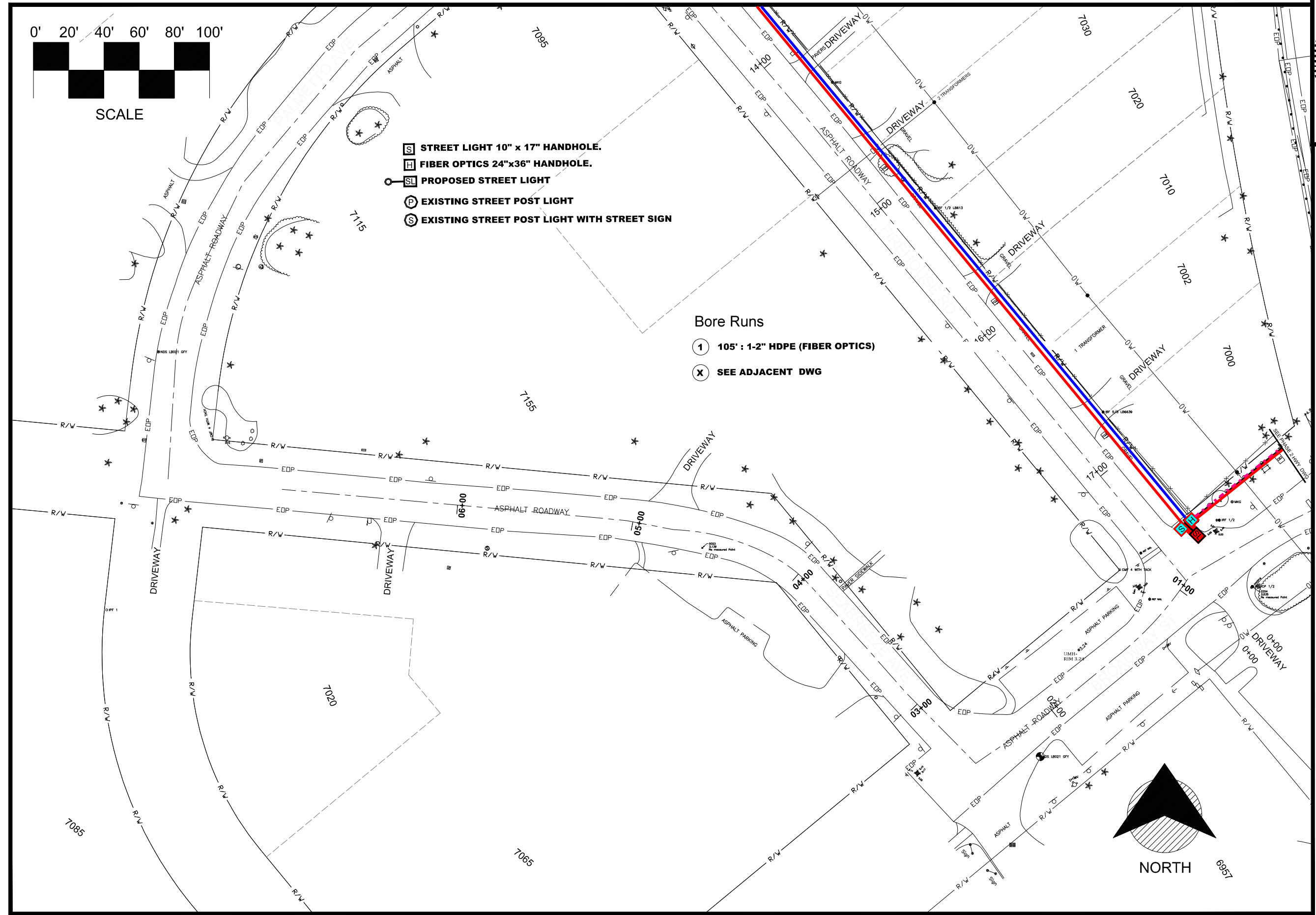
Date: 10/22/2020
 Scale: AS NOTED
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 Checked: DPB
 Job #: 2014-LBK
 Sheet

MATCHLINE-STA 13+53
FOR CONTINUATION SEE SHEET 45



- STREET LIGHT 10" x 17" HANDHOLE.
- FIBER OPTICS 24"x36" HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN

- Bore Runs
- 105' : 1-2" HDPE (FIBER OPTICS)
 - SEE ADJACENT DWG

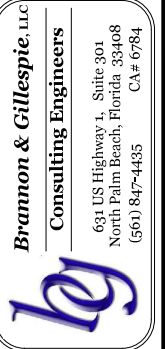


Digitally signed by
Danny P Brannon
Date: 2020.11.16
11:03:13 -05'00'

Danny Brannon

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

DATE 11/16/2020



Town of Longboat Key

DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY CONSTRUCTION - PHASE 2
LONGBOAT KEY, FLORIDA



Date: 10/22/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK