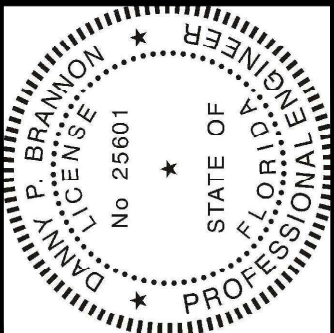


INSTALLATION OF TOWN OWNED
FIBER OPTIC AND STREET LIGHTING

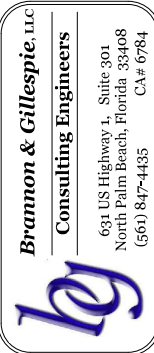


Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

Town of Longboat Key

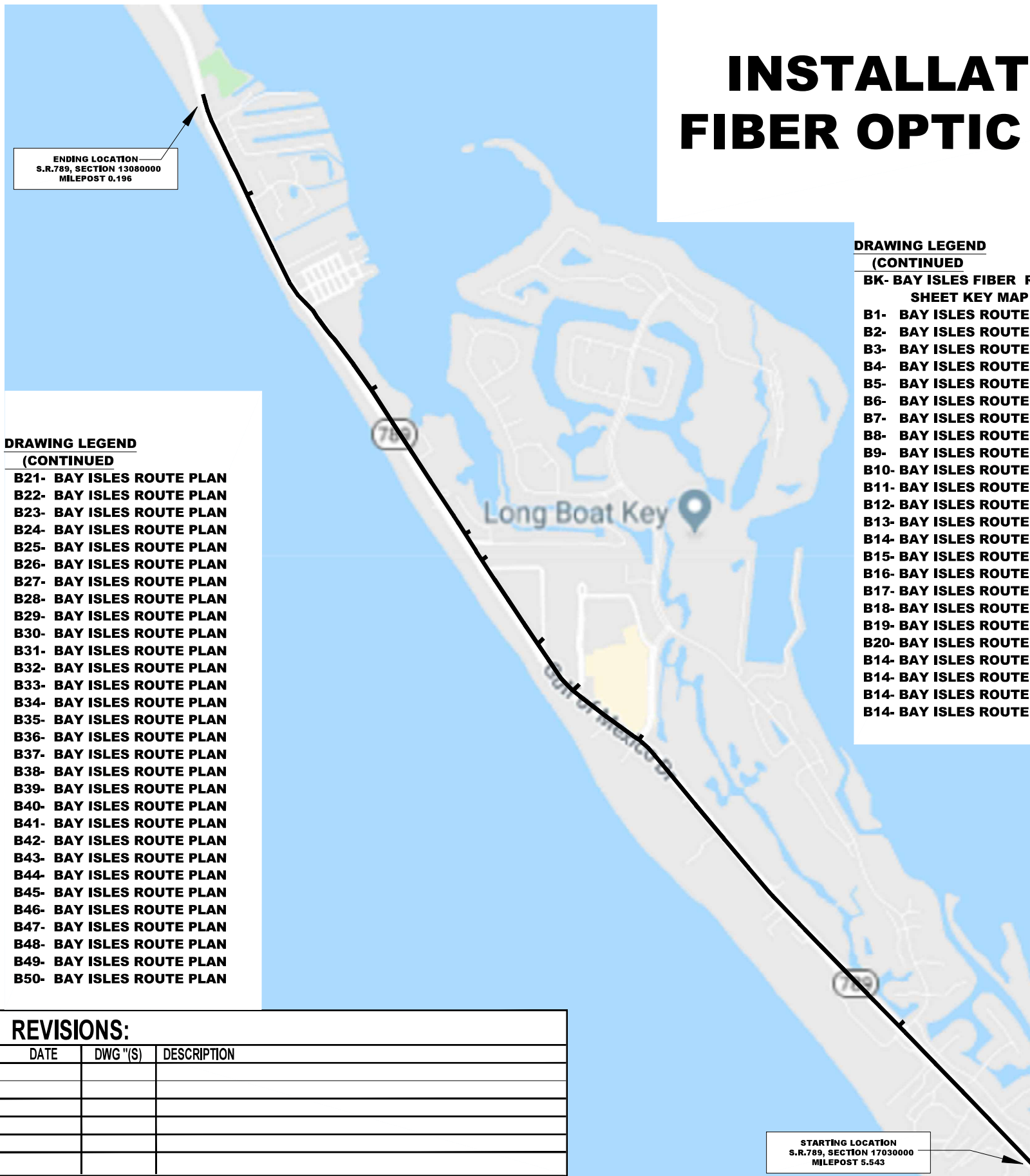


DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK
Sheet

COVER SHEET
of Sheets



- DRAWING LEGEND
(CONTINUED)**
- B21- BAY ISLES ROUTE PLAN
 - B22- BAY ISLES ROUTE PLAN
 - B23- BAY ISLES ROUTE PLAN
 - B24- BAY ISLES ROUTE PLAN
 - B25- BAY ISLES ROUTE PLAN
 - B26- BAY ISLES ROUTE PLAN
 - B27- BAY ISLES ROUTE PLAN
 - B28- BAY ISLES ROUTE PLAN
 - B29- BAY ISLES ROUTE PLAN
 - B30- BAY ISLES ROUTE PLAN
 - B31- BAY ISLES ROUTE PLAN
 - B32- BAY ISLES ROUTE PLAN
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 - B35- BAY ISLES ROUTE PLAN
 - B36- BAY ISLES ROUTE PLAN
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 - B40- BAY ISLES ROUTE PLAN
 - B41- BAY ISLES ROUTE PLAN
 - B42- BAY ISLES ROUTE PLAN
 - B43- BAY ISLES ROUTE PLAN
 - B44- BAY ISLES ROUTE PLAN
 - B45- BAY ISLES ROUTE PLAN
 - B46- BAY ISLES ROUTE PLAN
 - B47- BAY ISLES ROUTE PLAN
 - B48- BAY ISLES ROUTE PLAN
 - B49- BAY ISLES ROUTE PLAN
 - B50- BAY ISLES ROUTE PLAN

- DRAWING LEGEND
(CONTINUED)**
- BK- BAY ISLES FIBER ROUTE
SHEET KEY MAP**
- B1- BAY ISLES ROUTE PLAN
 - B2- BAY ISLES ROUTE PLAN
 - B3- BAY ISLES ROUTE PLAN
 - B4- BAY ISLES ROUTE PLAN
 - B5- BAY ISLES ROUTE PLAN
 - B6- BAY ISLES ROUTE PLAN
 - B7- BAY ISLES ROUTE PLAN
 - B8- BAY ISLES ROUTE PLAN
 - B9- BAY ISLES ROUTE PLAN
 - B10- BAY ISLES ROUTE PLAN
 - B12- BAY ISLES ROUTE PLAN
 - B13- BAY ISLES ROUTE PLAN
 - B14- BAY ISLES ROUTE PLAN
 - B15- BAY ISLES ROUTE PLAN
 - B16- BAY ISLES ROUTE PLAN
 - B17- BAY ISLES ROUTE PLAN
 - B18- BAY ISLES ROUTE PLAN
 - B19- BAY ISLES ROUTE PLAN
 - B20- BAY ISLES ROUTE PLAN
 - B14- BAY ISLES ROUTE PLAN
 - B14- BAY ISLES ROUTE PLAN
 - B14- BAY ISLES ROUTE PLAN

- DRAWING LEGEND
(CONTINUED)**
- P1- PHOTOMETRICS
 - P2- PHOTOMETRICS
 - P3- PHOTOMETRICS
 - P4- PHOTOMETRICS
 - P5- PHOTOMETRICS
 - S1- BORE CROSS SECTIONS
 - S2- BORE CROSS SECTIONS
 - S3- BORE CROSS SECTIONS
 - CK- NEIGHBORHOOD KEY MAP
 - C1- NEIGHBORHOOD PLAN
 - C2- NEIGHBORHOOD PLAN
 - C3- NEIGHBORHOOD PLAN
 - C4- NEIGHBORHOOD PLAN
 - C5- NEIGHBORHOOD PLAN
 - C6- NEIGHBORHOOD PLAN
 - C7- NEIGHBORHOOD PLAN
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 - C9- NEIGHBORHOOD PLAN
 - C10- NEIGHBORHOOD PLAN
 - C11- NEIGHBORHOOD PLAN
 - C12- NEIGHBORHOOD PLAN
 - C13- NEIGHBORHOOD PLAN
 - C14- NEIGHBORHOOD PLAN
 - C15- NEIGHBORHOOD PLAN
 - C16- NEIGHBORHOOD PLAN
 - C17- NEIGHBORHOOD PLAN
 - C18- NEIGHBORHOOD PLAN
 - C19- NEIGHBORHOOD PLAN
 - C20- NEIGHBORHOOD PLAN

- DRAWING LEGEND
COVER**
- GMD SHEET KEY MAP**
- G1- GMD PLAN DRAWING
 - G2- GMD PLAN DRAWING
 - G3- GMD PLAN DRAWING
 - G4- GMD PLAN DRAWING
 - G5- GMD PLAN DRAWING
 - G6- GMD PLAN DRAWING
 - G7- GMD PLAN DRAWING
 - G8- GMD PLAN DRAWING
 - G9- GMD PLAN DRAWING
 - G10- GMD PLAN DRAWING
 - G11- GMD PLAN DRAWING
 - G12- GMD PLAN DRAWING
 - G13- GMD PLAN DRAWING
 - G14- GMD PLAN DRAWING
 - G15- GMD PLAN DRAWING
 - G16- GMD PLAN DRAWING
 - G17- GMD PLAN DRAWING
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 - G25- GMD PLAN DRAWING
 - G26- GMD PLAN DRAWING
 - G27- GMD PLAN DRAWING
 - G28- GMD PLAN DRAWING
 - G29- GMD PLAN DRAWING
 - C1- CIRCUIT MAP
 - D1- POLE DETAILS
 - D2- POLE DETAILS
 - D3- POLE DETAILS
 - D4- POLE DETAILS
 - D5- RISER DIAGRAMS
 - D6- LOAD CALCULATIONS
 - D7- PANEL SCHEDULES

REVISIONS:		
DATE	DWG "(S)"	DESCRIPTION

CALL BEFORE YOU DIG

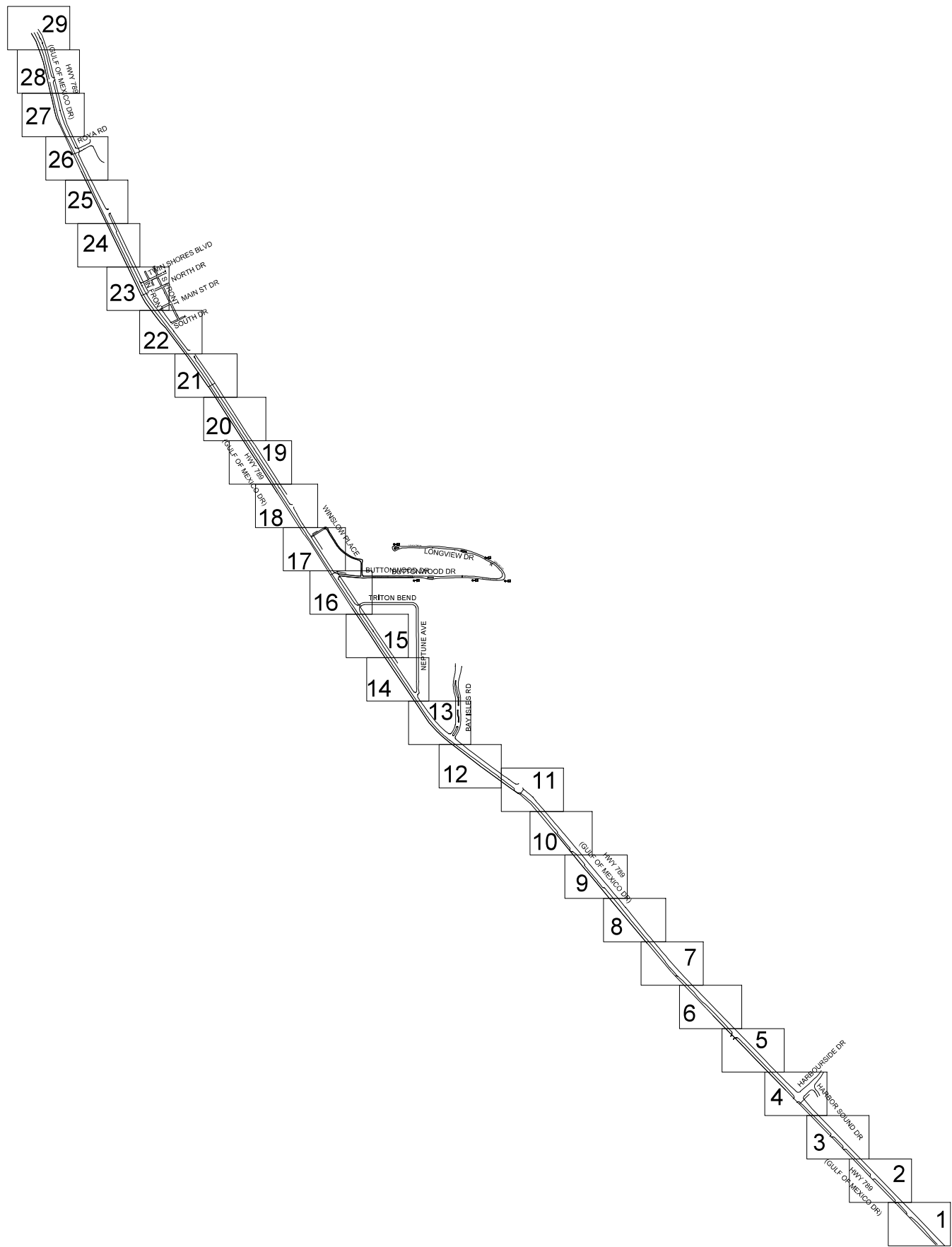
 **DIAL 811 or
1-800-292-8525**
www.call811.com

TWO FULL BUS. DAYS BEFORE YOU DIG

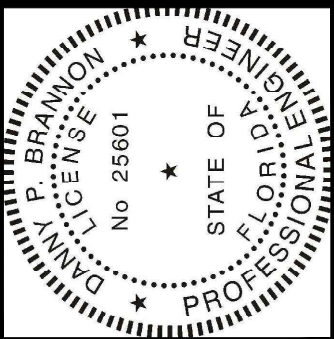
IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT
UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION AS
THE LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE
APPROXIMATE AND POSSIBLY INCOMPLETE. THEREFORE
CERTIFICATION TO THE LOCATION OF ALL UNDERGROUND
UTILITIES IS WITH HELD.

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

Legend	
	Description
	1 Fiber (original)
	1 Fiber+1 SL (original)
	1 SL (original)
	2 Fiber (original)
	2 Fiber+1 SL (original)
	2 Fiber+2 SL (original)
	2 Fiber+3 SL (original)
	Backlit Sign 1-2" (added)
	Fiber 1-2" (added)
	Fiber 1-2" (removed)
	Fiber 2-2" (added)
	Fiber 2-2" (removed)
	Fiber HH (added)
	Fiber HH (original)
	LED Head
	New Backlit Sign
	SL (added)
	SL (original)
	SL 1-2" (added)
	SL 1-2" (removed)
	SL Base CC (original)
	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

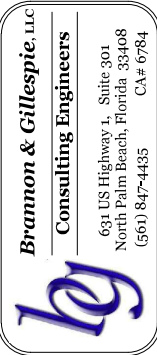


Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

Town of Longboat Key



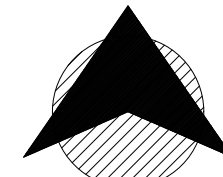
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



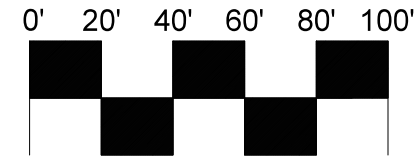
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Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	

KEY MAP
of Sheets

MATCHLINE-STA 105+20
FOR CONTINUATION SEE SHEET 2



NORTH



SCALE

BORE RUNS:

- 1 155' (2) 2" HDPE FIBER OPTICS CONDUITS
- 2 1024' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 30"x48" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

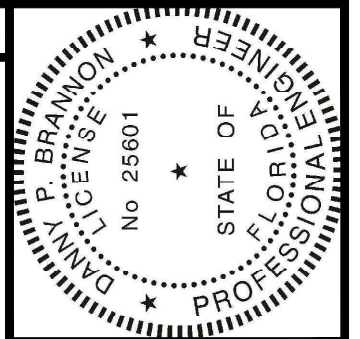
100+00 30X48 HH

Phase 1

ELECTRONIC CONDUIT MARKER
CONNECT TO EXISTING 2-2" FIBER CONDUITS

S.R. 789
SECTION 17030000
MILEPOST 5.543

SEE PHASE 1 HWY DWG



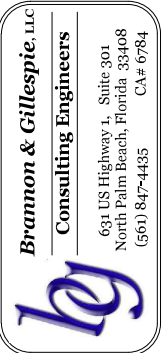
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny Brannon

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

DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA

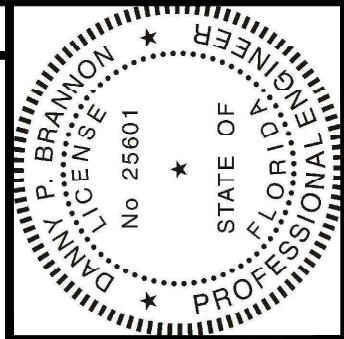


Date: 12/01/2020
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Job # 2014-LBK

Sheet

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of Sheets

MATCHLINE-STA 112+33
FOR CONTINUATION SEE SHEET 3



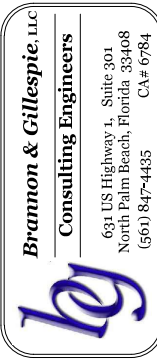
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
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Town of Longboat Key

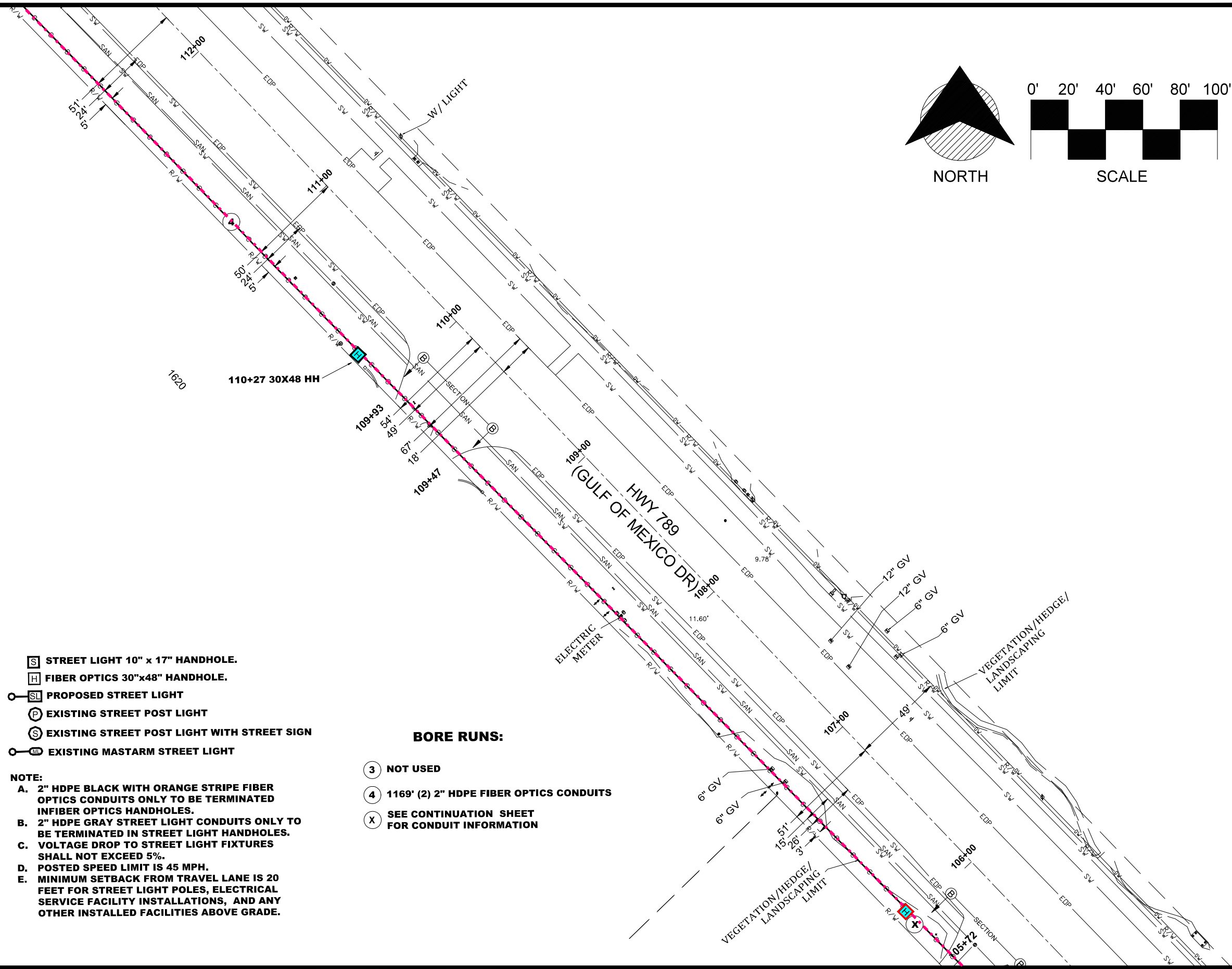
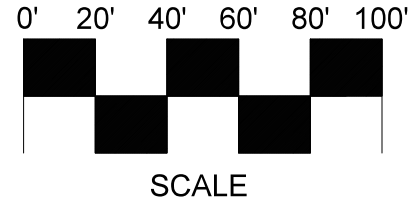
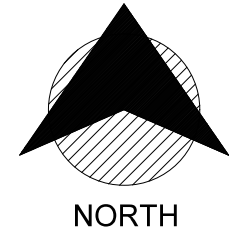


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
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Job #: 2014-LBK
Sheet

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of Sheets



- S** STREET LIGHT 10" x 17" HANDHOLE.
- H** FIBER OPTICS 30"x48" HANDHOLE.
- SL** PROPOSED STREET LIGHT
- P** EXISTING STREET POST LIGHT
- S** EXISTING STREET POST LIGHT WITH STREET SIGN
- MS** EXISTING MASTARM STREET LIGHT

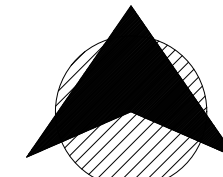
NOTE:

- 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

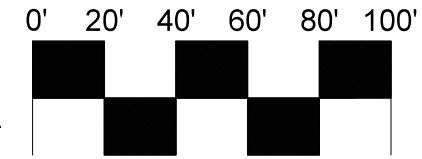
- BORE RUNS:**
- 3** NOT USED
 - 4** 1169' (2) 2" HDPE FIBER OPTICS CONDUITS
 - X** SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

MATCHLINE-STA 105+20
FOR CONTINUATION SEE SHEET 1

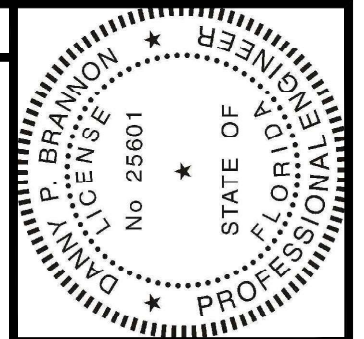
MATCHLINE-STA 119+46
FOR CONTINUATION SEE SHEET 4



NORTH



SCALE



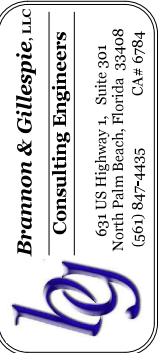
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny Brannon

DANNY P. BRANNON, P.E.
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DATE

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
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
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Job # 2014-LBK

Sheet

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of Sheets

- STREET LIGHT 10' x 17' HANDHOLE.
- FIBER OPTICS 30'x48' HANDHOLE.
- PROPOSED STREET LIGHT
- EXISTING STREET POST LIGHT
- EXISTING STREET POST LIGHT WITH STREET SIGN
- EXISTING MASTARM STREET LIGHT

NOTE:

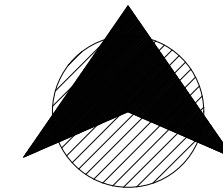
- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
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- C. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
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- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

BORE RUNS:

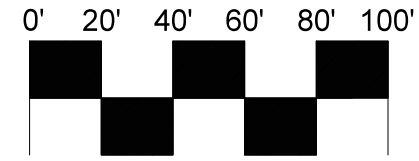
(X) SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

MATCHLINE-STA 112+33
FOR CONTINUATION SEE SHEET 2

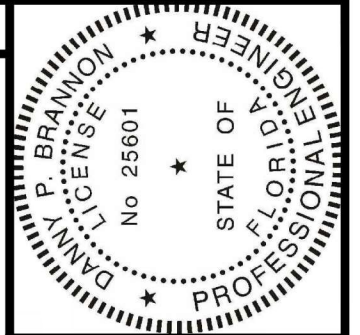
MATCHLINE-STA 126+82
FOR CONTINUATION SEE SHEET 5



NORTH



SCALE



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Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

BORE RUNS:

- 5 NOT USED
- 6 108' (2) 2" HDPE FIBER OPTICS CONDUITS
- 7 1262' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

S STREET LIGHT 10" x 17" HANDHOLE.

H FIBER OPTICS 30"x48" HANDHOLE.

SL PROPOSED STREET LIGHT

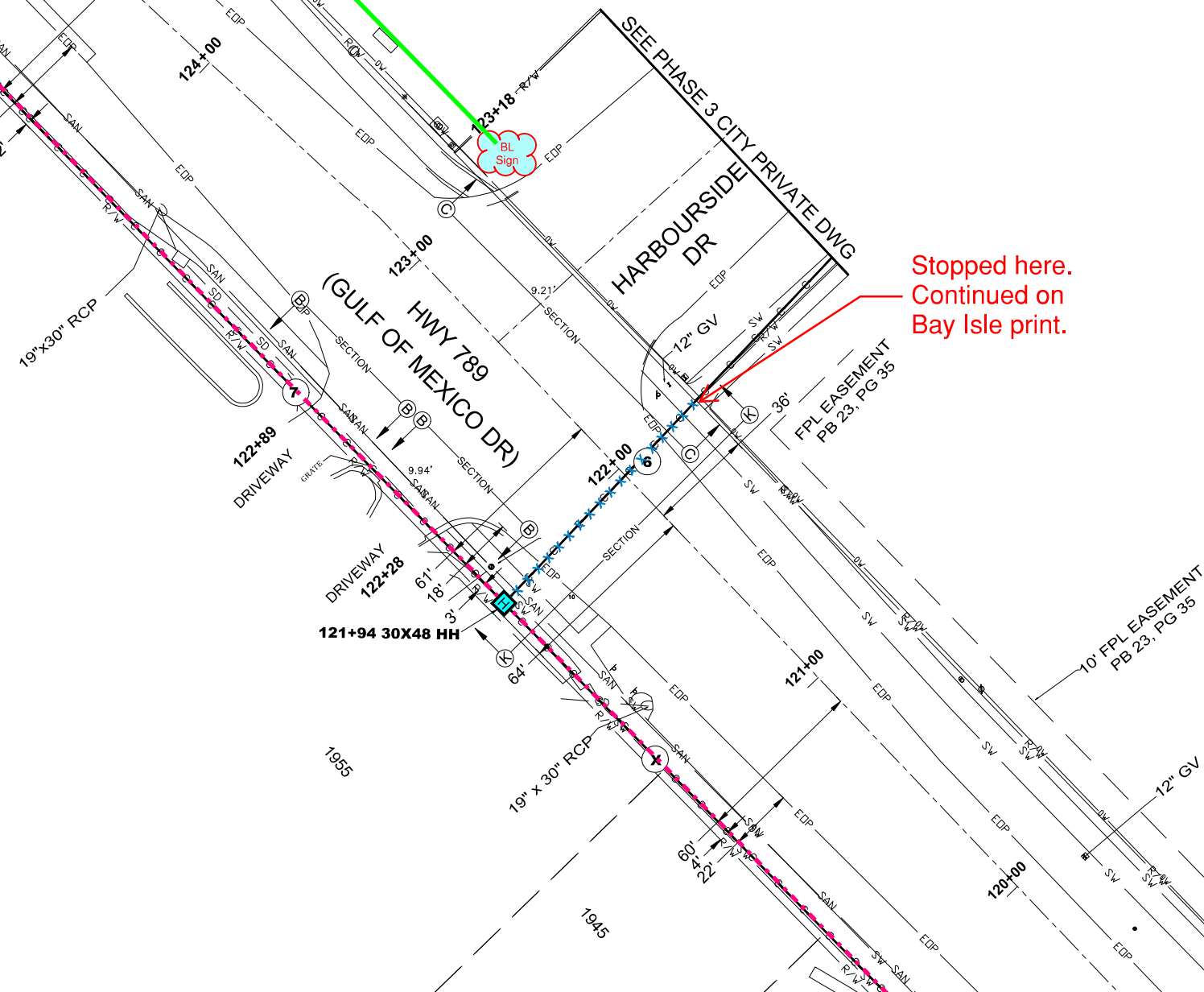
P EXISTING STREET POST LIGHT

S EXISTING STREET POST LIGHT WITH STREET SIGN

ML EXISTING MASTARM STREET LIGHT

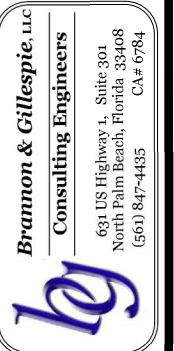
NOTE:

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MATCHLINE-STA 119+46
FOR CONTINUATION SEE SHEET 3

Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA

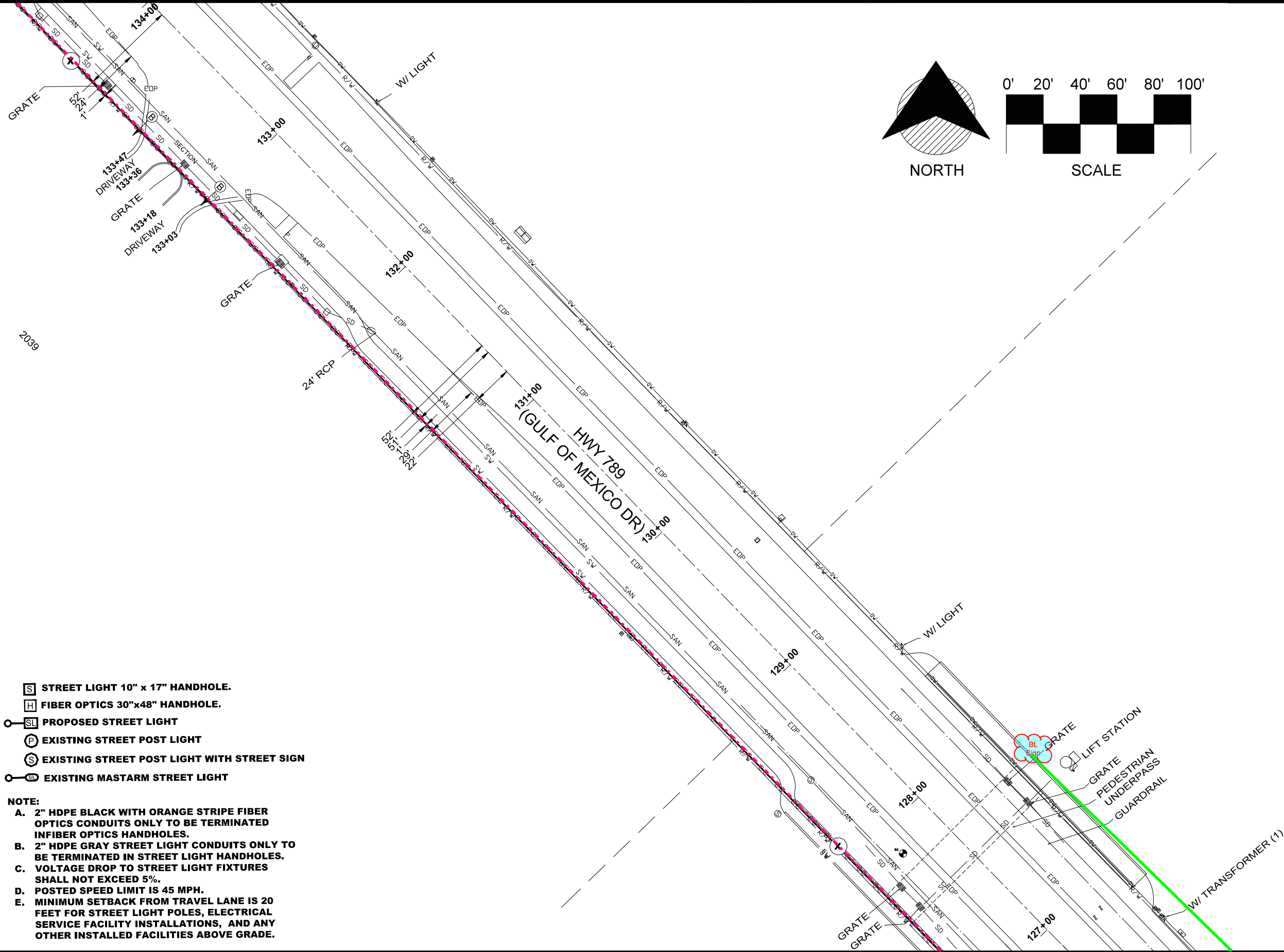


Date: 12/01/2020
Scale: AS NOTED
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Job # 2014-LBK

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of Sheets

MATCHLINE-STA 134+00
FOR CONTINUATION SEE SHEET 6

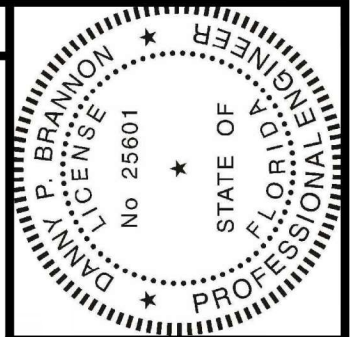


- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 30"x48" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT

NOTE:

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MATCHLINE-STA 126+82
FOR CONTINUATION SEE SHEET 4

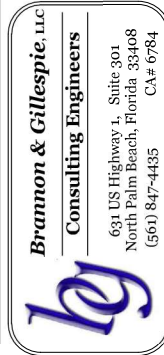


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Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA

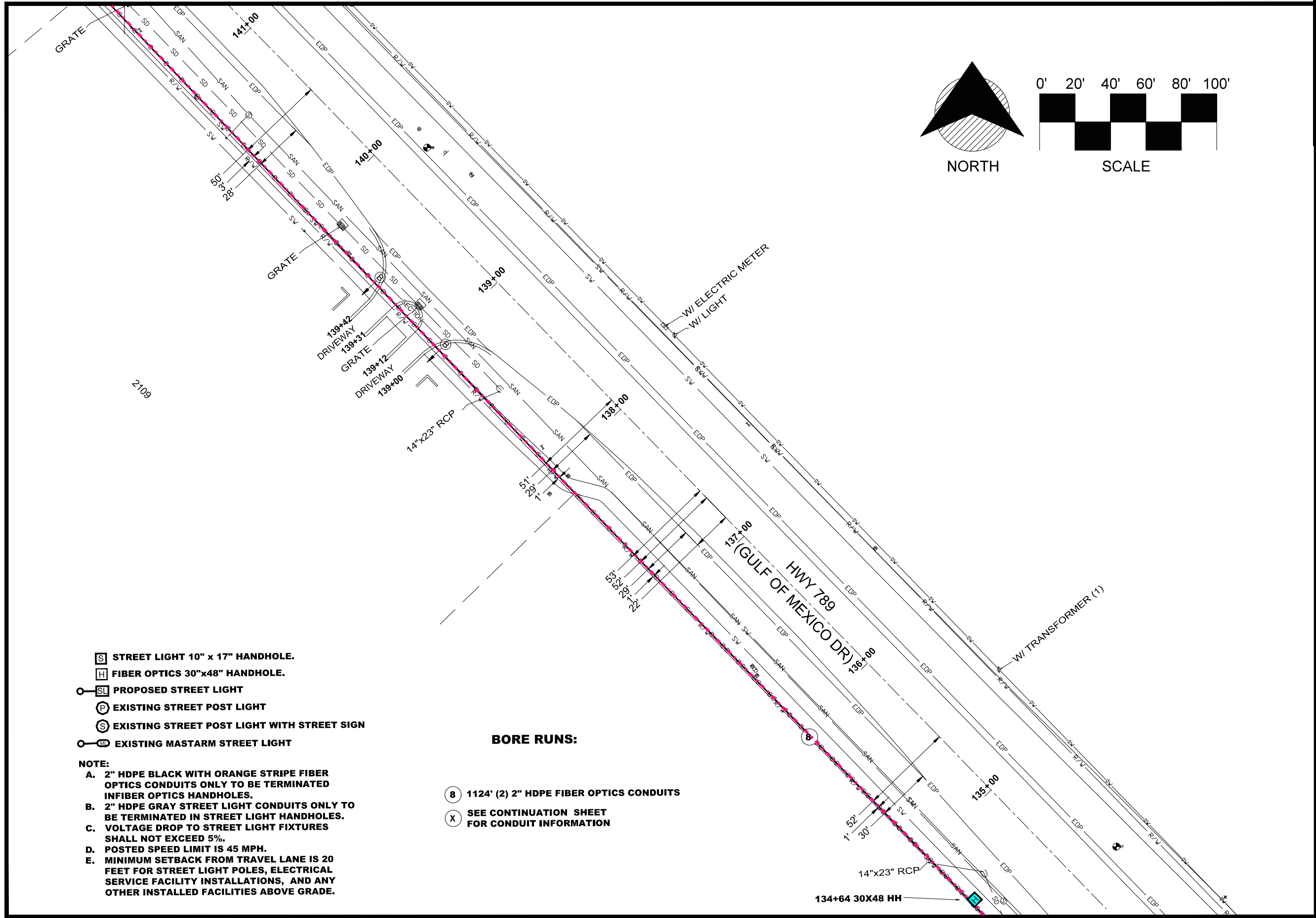


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Checked: DPB
Job # 2014-LBK

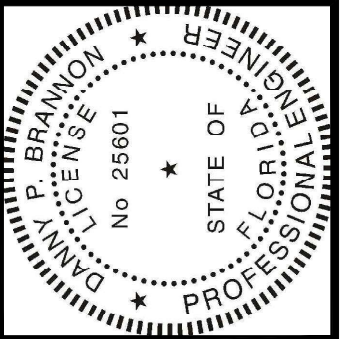
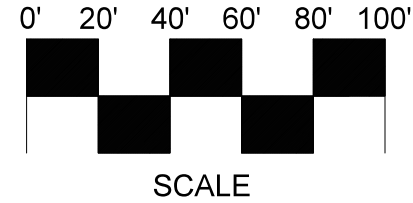
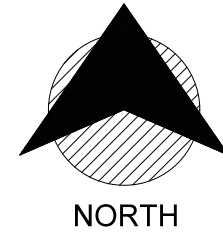
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of Sheets

MATCHLINE-STA 141+19
FOR CONTINUATION SEE SHEET 7



MATCHLINE-STA 134+00
FOR CONTINUATION SEE SHEET 5



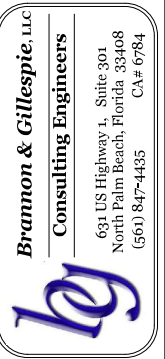
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny Brannon

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

DATE

Town of Longboat Key

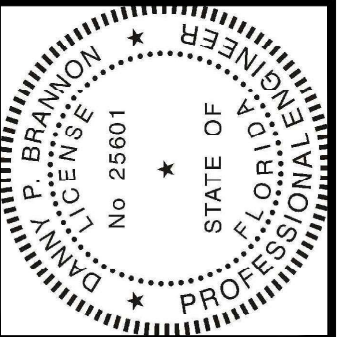
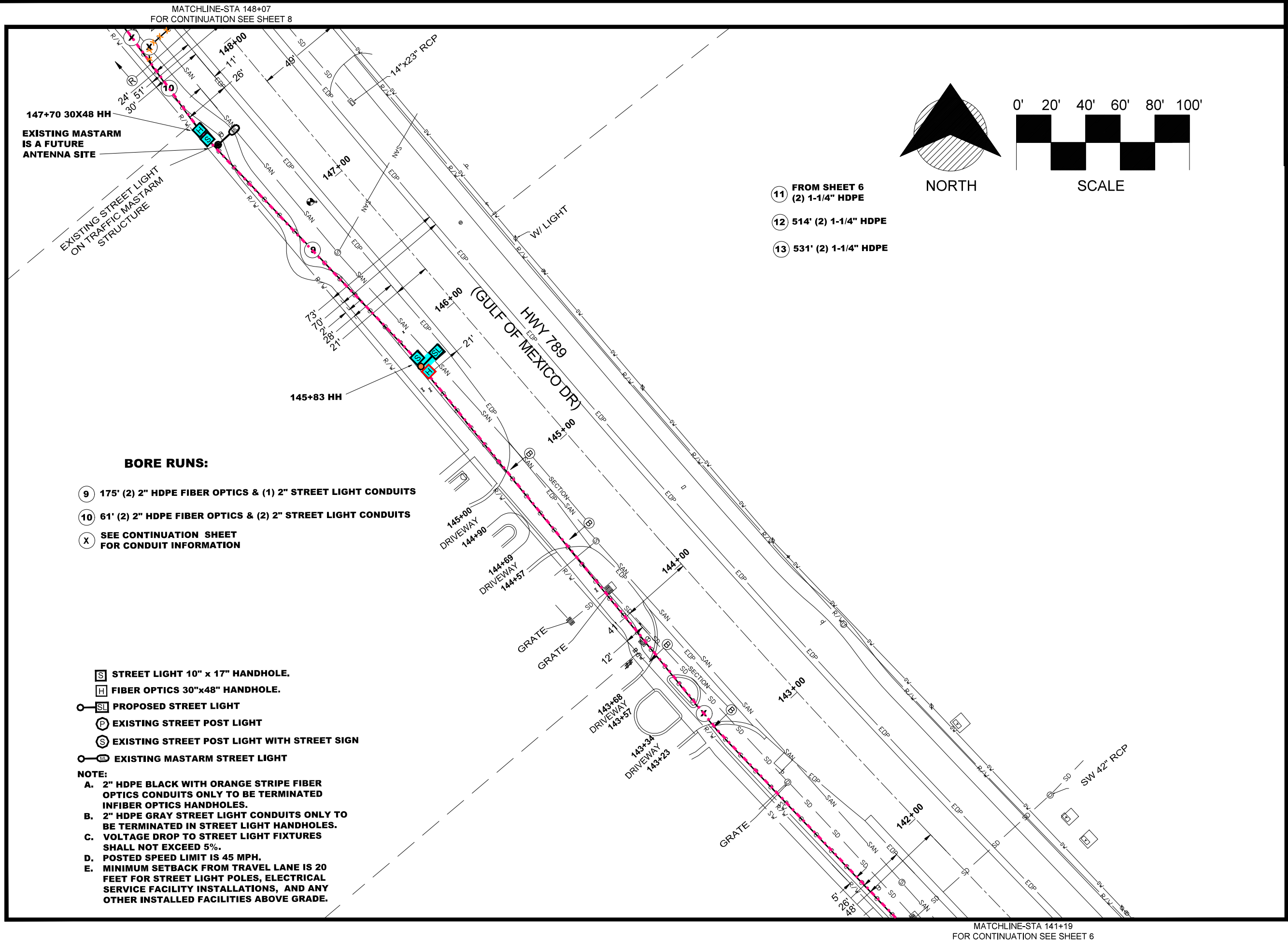


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date:	12/01/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
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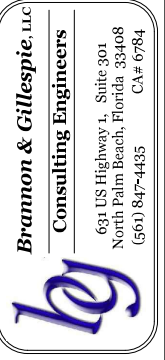


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Danny P. Brannon
Date: 2021.05.06
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DANNY P. BRANNON, P.E.
FLORIDA P.E. NO. 25601

DATE

Town of Longboat Key

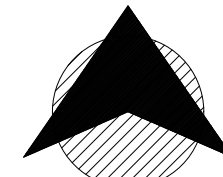


DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA

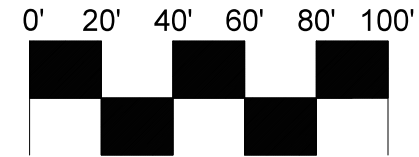


Date:	12/01/2020
Scale:	AS NOTED
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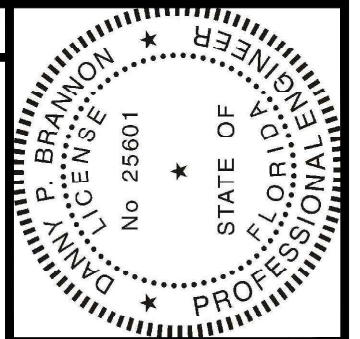
MATCHLINE-STA 154+75
FOR CONTINUATION SEE SHEET 9



NORTH



SCALE

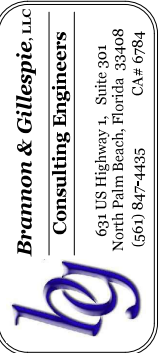


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Date: 2021.05.06
17:22:09 -04'00'

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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
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Checked: DPB
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of Sheets

BORE RUNS:

- 11 106' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 12 125' (1) 2" STREET LIGHT CONDUIT
- X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- MS EXISTING MASTARM STREET 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

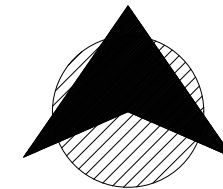
2165

149+33 HH

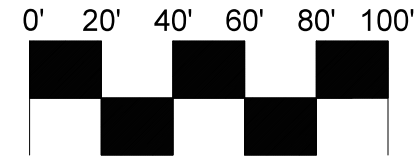
CONNECT STREET
LIGHT CIRCUIT TO
EXISTING TOWN
UTILITY SERVICE.

MATCHLINE-STA 148+07
FOR CONTINUATION SEE SHEET 7

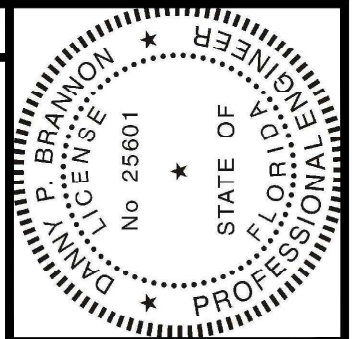
MATCHLINE-STA 161+56
FOR CONTINUATION SEE SHEET 10



NORTH



SCALE



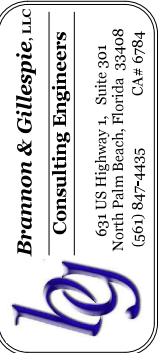
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny Brannon

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

DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

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of Sheets

-  STREET LIGHT 10" x 17" HANDHOLE.
-  FIBER OPTICS 30" x 48" HANDHOLE.
-  PROPOSED STREET LIGHT
-  EXISTING STREET POST LIGHT
-  EXISTING STREET POST LIGHT WITH STREET SIGN
-  EXISTING MASTARM STREET 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

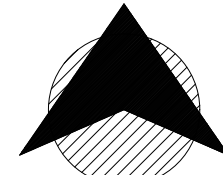
BORE RUNS:

-  1060' (2) 2" HDPE FIBER OPTICS CONDUITS
-  SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

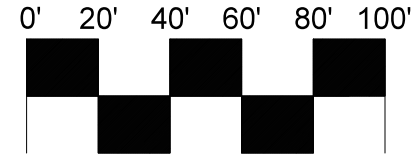
HWY 789
(GULF OF MEXICO DR)

MATCHLINE-STA 154+75
FOR CONTINUATION SEE SHEET 8

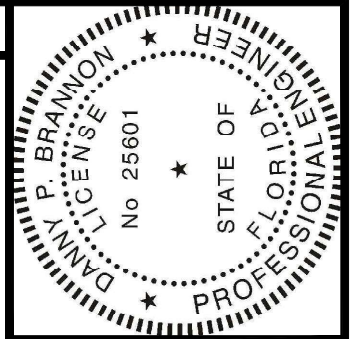
MATCHLINE-STA 168+24
FOR CONTINUATION SEE SHEET 11



NORTH



SCALE

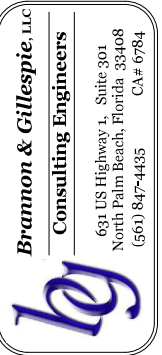


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Danny P. Brannon
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17:22:09 -04'00'

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FLORIDA P. E. NO. 25601

DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

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of Sheets

BORE RUNS:

- ⑭ 990' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

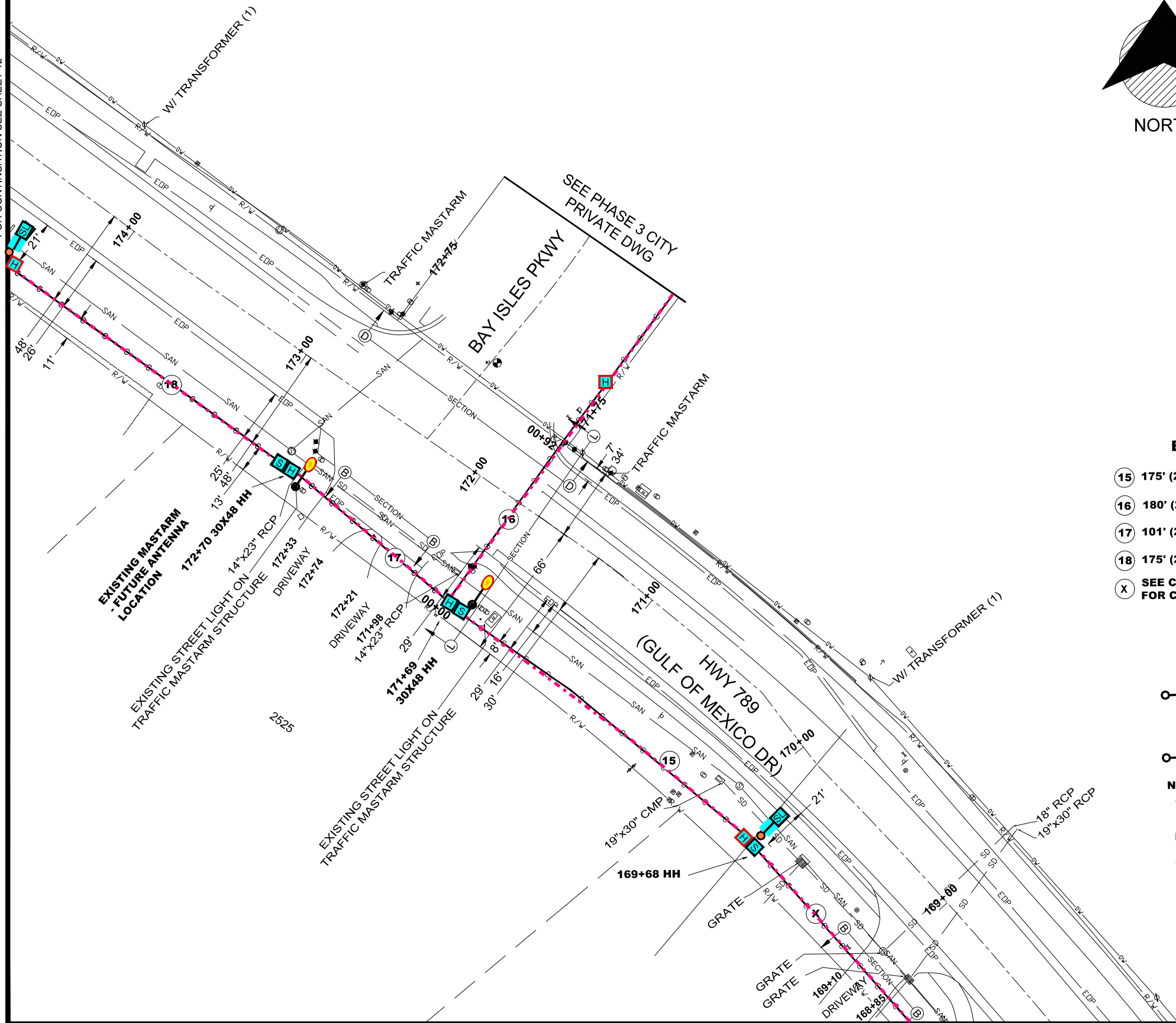
- Ⓢ STREET LIGHT 10" x 17" HANDHOLE.
- Ⓜ FIBER OPTICS 30"x48" HANDHOLE.
- Ⓛ PROPOSED STREET LIGHT
- Ⓟ EXISTING STREET POST LIGHT
- Ⓢ EXISTING STREET POST LIGHT WITH STREET SIGN
- Ⓜ EXISTING MASTARM STREET LIGHT

NOTE:

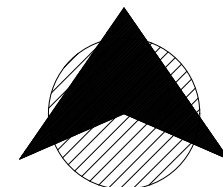
- A. 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- B. 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
- C. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 161+58
FOR CONTINUATION SEE SHEET 9

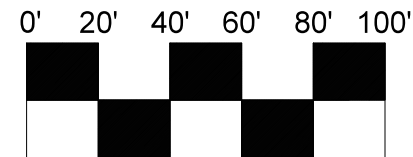
MATCHLINE-STA 174+73
FOR CONTINUATION SEE SHEET 12



MATCHLINE-STA 168+24
FOR CONTINUATION SEE SHEET 10



NORTH



SCALE

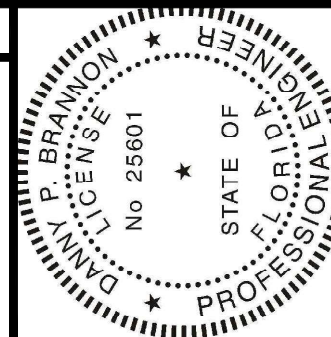
BORE RUNS:

- 15 175' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 16 180' (2) 2" HDPE FIBER OPTICS CONDUITS
- 17 101' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 18 175' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 30"x48" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [ML] EXISTING MASTARM STREET 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.



Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny Brannon

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

DATE

Town of Longboat Key

DRAWINGS FOR:

FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA

Brannon & Gillespie, LLC
Consulting Engineers

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



Date: 12/01/2020

Scale: AS NOTED

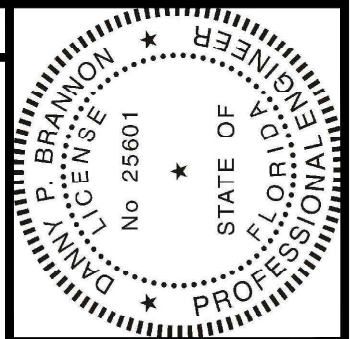
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Job # 2014-LBK

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of Sheets

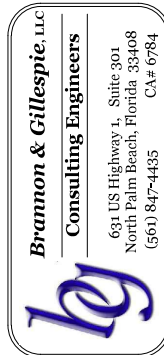


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Date: 2021.05.06
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DANNY P. BRANNON, P.E.
FLORIDA P.E. NO. 25601

DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA

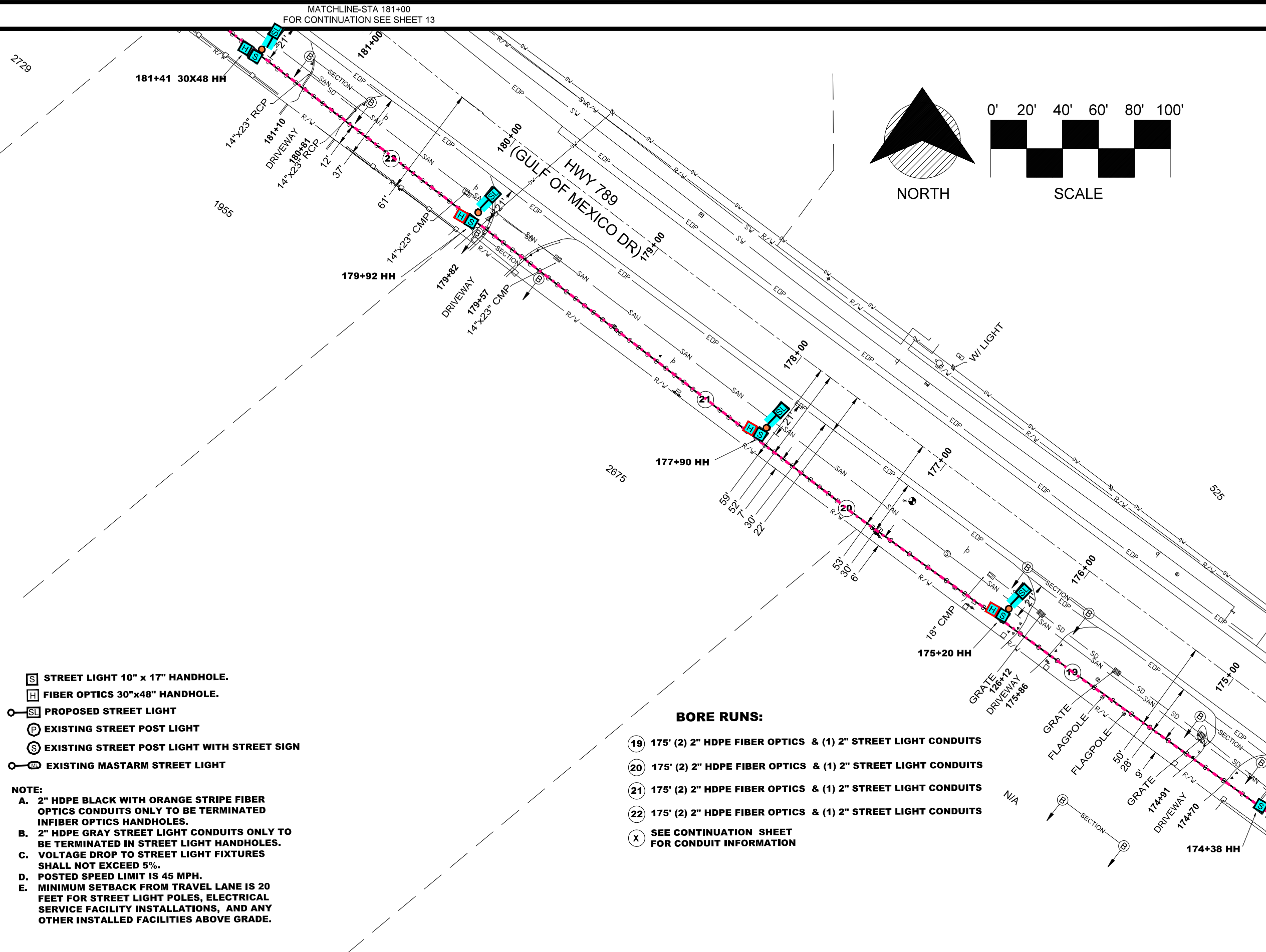


Date: 12/01/2020
Scale: AS NOTED
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Job # 2014-LBK

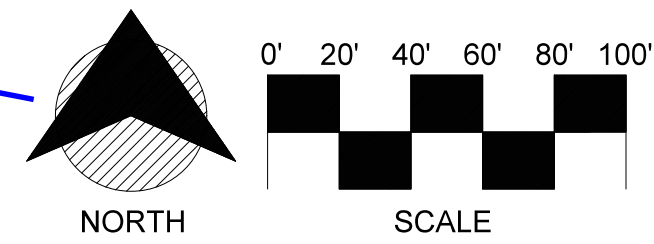
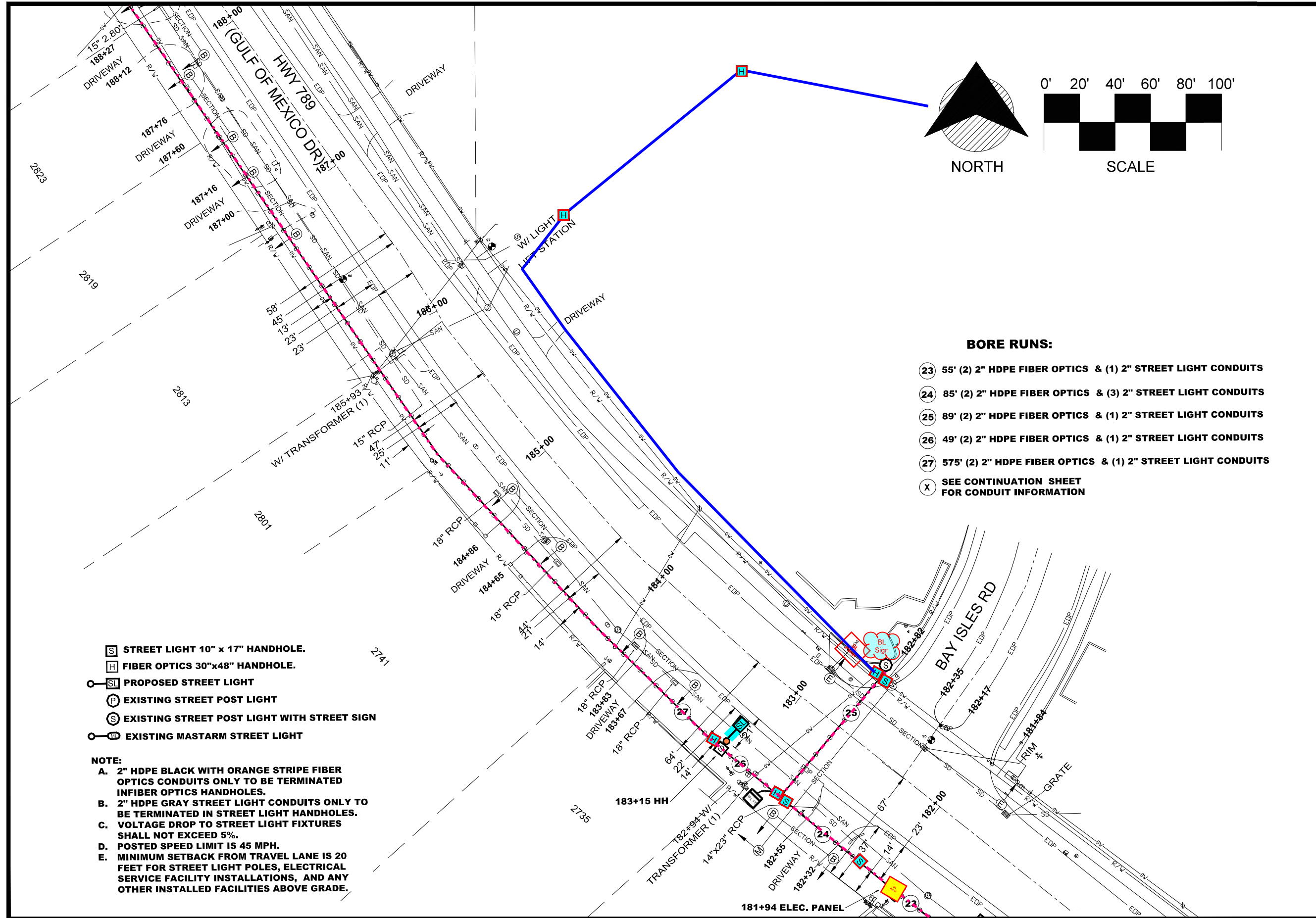
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of Sheets

MATCHLINE-STA 174+73
FOR CONTINUATION SEE SHEET 11



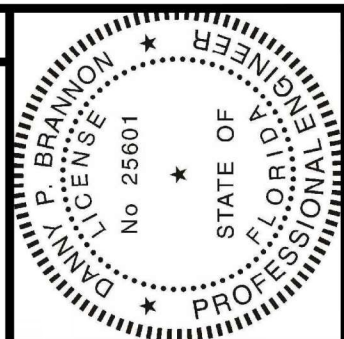
MATCHLINE-STA 188+11
FOR CONTINUATION SEE SHEET 14



- BORE RUNS:**
- 23 55' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
 - 24 85' (2) 2" HDPE FIBER OPTICS & (3) 2" STREET LIGHT CONDUITS
 - 25 89' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
 - 26 49' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
 - 27 575' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
 - X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- LEGEND:**
- [S] STREET LIGHT 10" x 17" HANDHOLE.
 - [H] FIBER OPTICS 30"x48" HANDHOLE.
 - [SL] PROPOSED STREET LIGHT
 - [P] EXISTING STREET POST LIGHT
 - [S] EXISTING STREET POST LIGHT WITH STREET SIGN
 - [M] EXISTING MASTARM STREET 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
 - D. POSTED SPEED LIMIT IS 45 MPH.
 - E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 181+00
FOR CONTINUATION SEE SHEET 12



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Date: 2021.05.06
17:22:09 -04'00'

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

DATE

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
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK
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MATCHLINE-STA 194+35
FOR CONTINUATION SEE SHEET 15

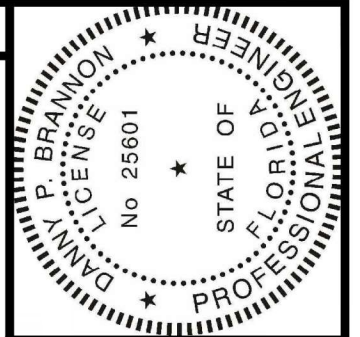
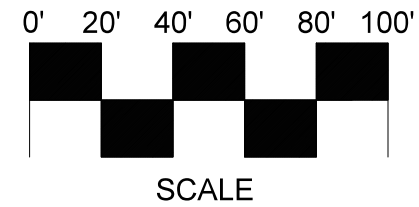
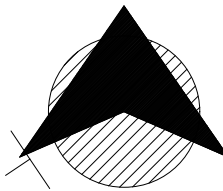
BORE RUNS:

- 28 58' (2) 2" HDPE FIBER OPTICS & (2) 2" STREET LIGHT CONDUITS
- 29 90' (1) 2" STREET LIGHT CONDUIT
- 30 1225' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- ML EXISTING MASTARM STREET LIGHT

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.



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17:22:09 -04'00'

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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA

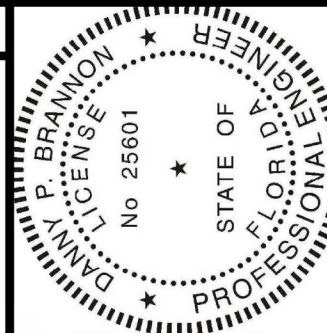


Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

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MATCHLINE-STA 188+11
FOR CONTINUATION SEE SHEET 13

MATCHLINE-STA 200+56
FOR CONTINUATION SEE SHEET 16



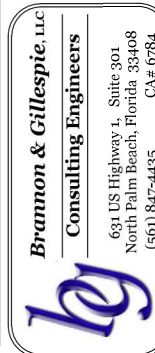
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
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DANNY P. BRANNON, P.E.
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Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



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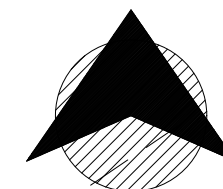
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of Sheets

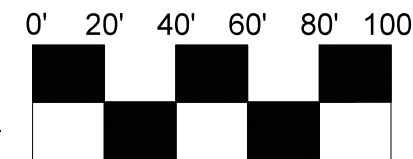
- STREET LIGHT 10" x 17" HANDHOLE.**
- FIBER OPTICS 30" x 48" HANDHOLE.**
- PROPOSED STREET LIGHT**
- EXISTING STREET POST LIGHT**
- EXISTING STREET POST LIGHT WITH STREET SIGN**
- EXISTING MASTARM STREET LIGHT**

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.



NORTH

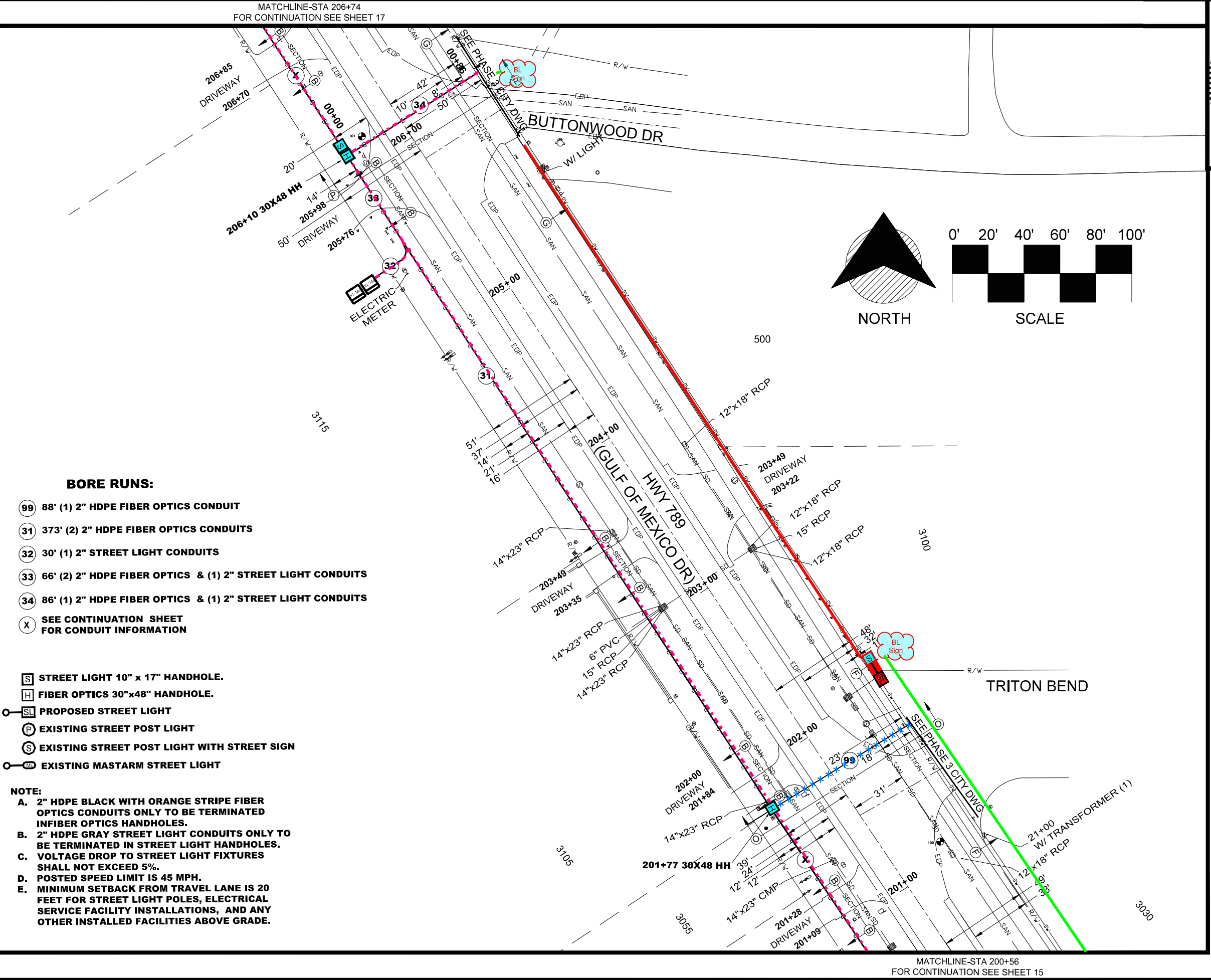


SCALE

BORE RUNS:

(X) **SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION**

MATCHLINE-STA 194+35
FOR CONTINUATION SEE SHEET 14

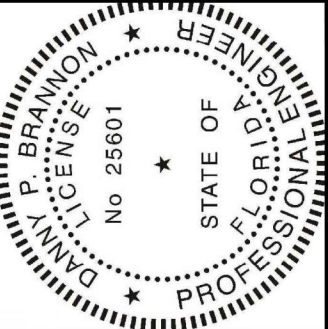


BORE RUNS:

- 99 88' (1) 2" HDPE FIBER OPTICS CONDUIT
- 31 373' (2) 2" HDPE FIBER OPTICS CONDUITS
- 32 30' (1) 2" STREET LIGHT CONDUITS
- 33 66' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 34 86' (1) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 30"x48" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT

- 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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
 - D. POSTED SPEED LIMIT IS 45 MPH.
 - E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

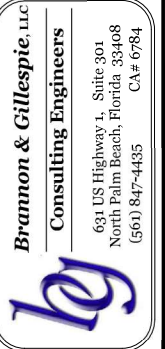


Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

Town of Longboat Key

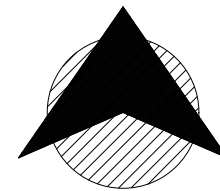


DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



Date:	12/01/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK
Sheet	
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of	Sheets

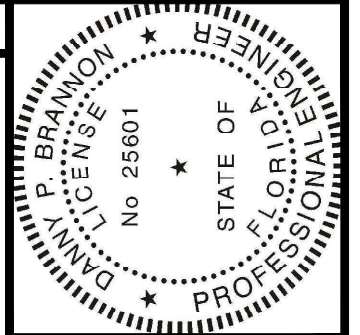
MATCHLINE-STA 212+89
FOR CONTINUATION SEE SHEET 18



NORTH

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

SCALE



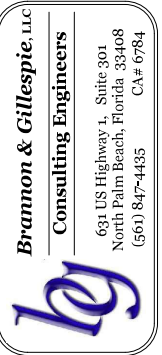
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny P. Brannon

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DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

Sheet

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of Sheets

BORE RUNS:

- 35 598' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 36 87' (1) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 37 877' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

[S] STREET LIGHT 10" x 17" HANDHOLE.

[H] FIBER OPTICS 30"x48" HANDHOLE.

[SL] PROPOSED STREET LIGHT

[P] EXISTING STREET POST LIGHT

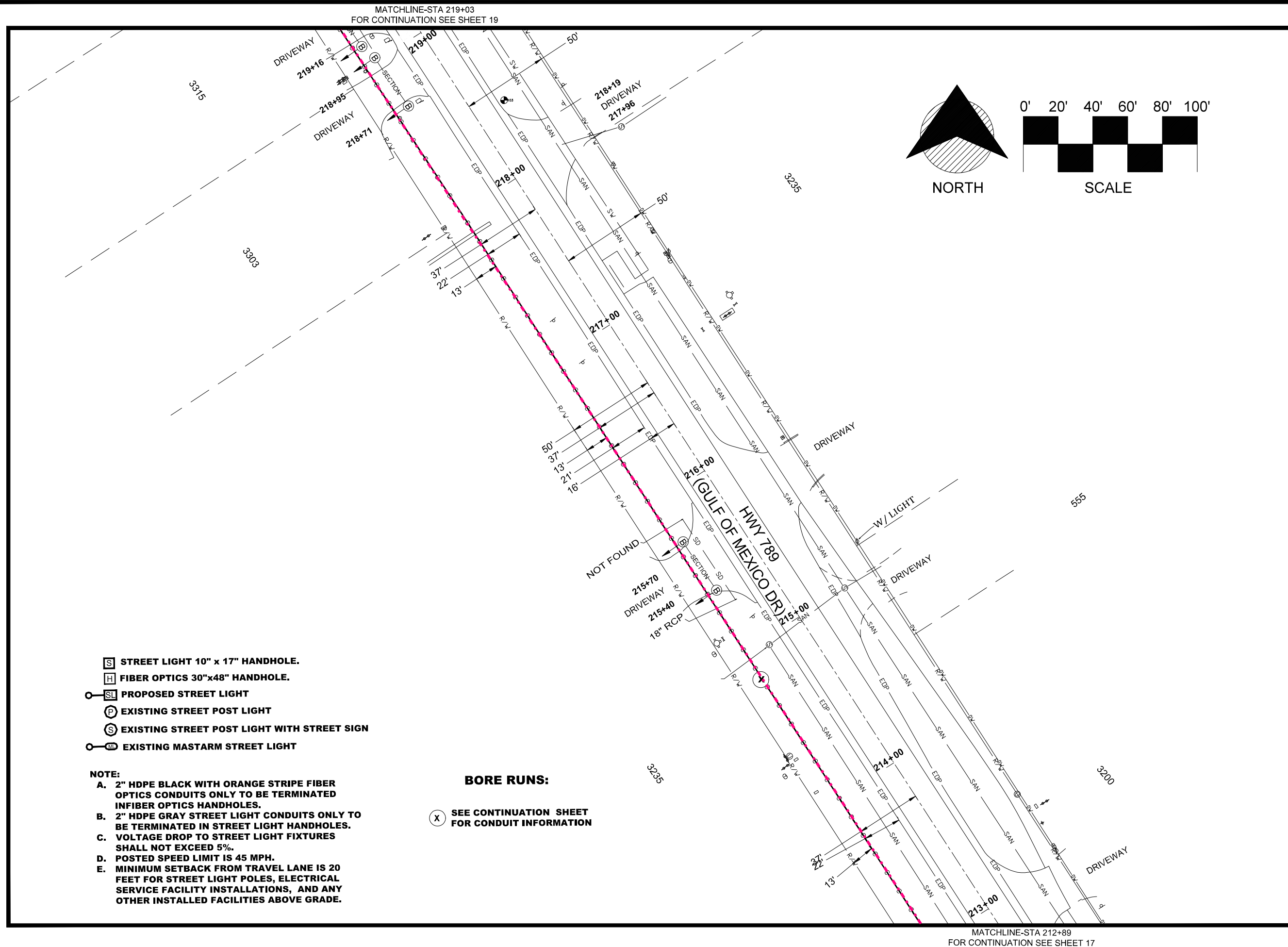
[S] EXISTING STREET POST LIGHT WITH STREET SIGN

[M] EXISTING MASTARM STREET LIGHT

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 206+74
FOR CONTINUATION SEE SHEET 16



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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

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DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



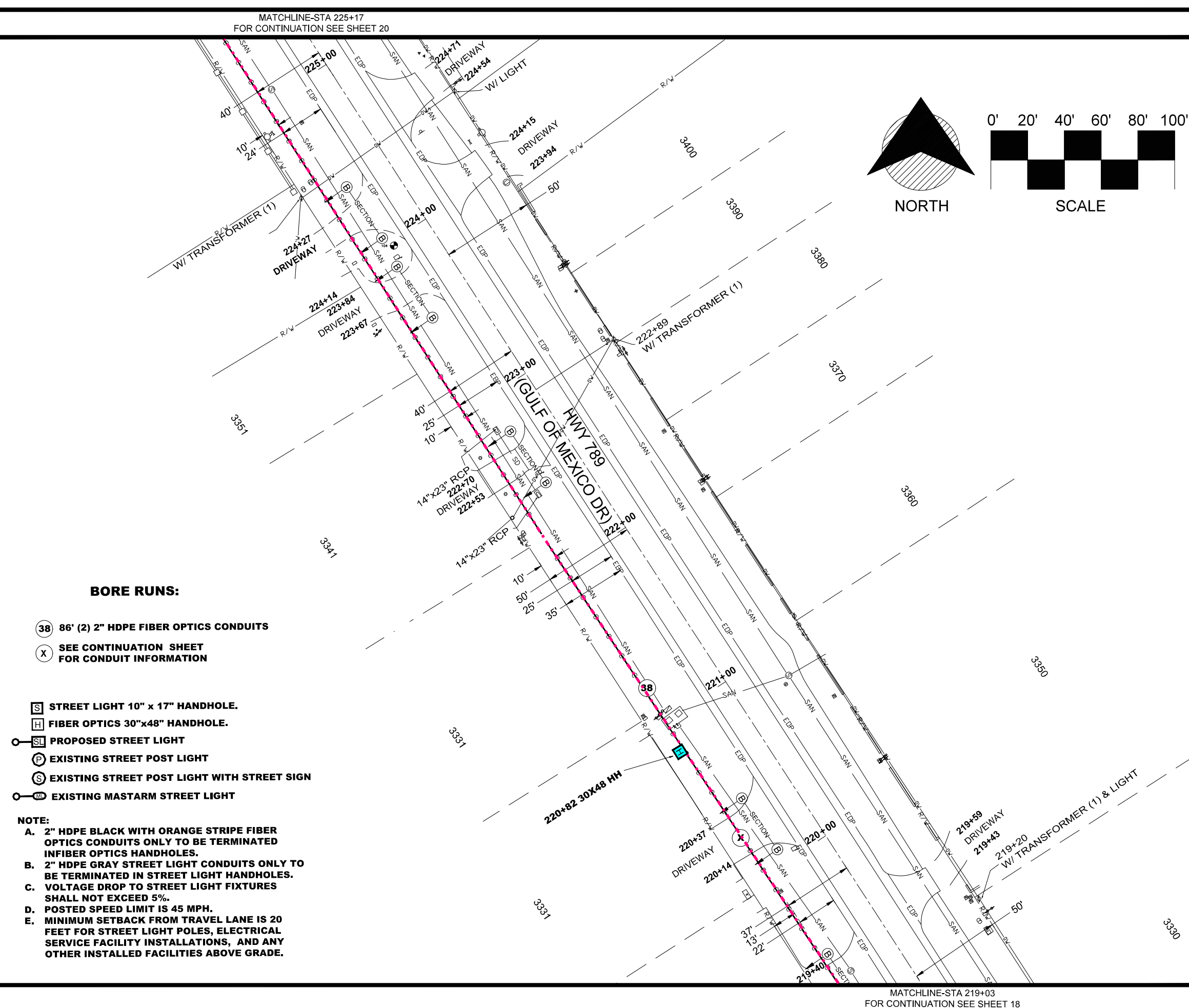
Date: 12/01/2020

Drawn: DPB

Job # 2014-LBK

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of Sheets

Sheets



BORE RUNS:

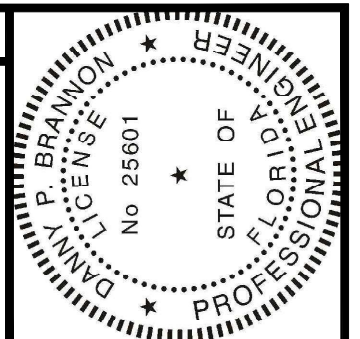
- 38 86' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- ML EXISTING MASTARM STREET LIGHT

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 219+03
FOR CONTINUATION SEE SHEET 18

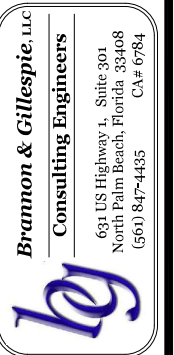


Digitally signed by
Danny P Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

Town of Longboat Key



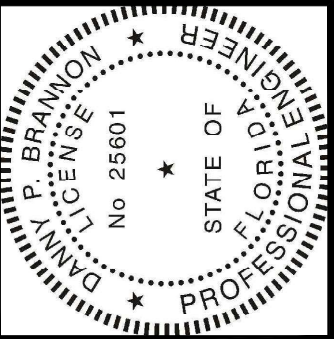
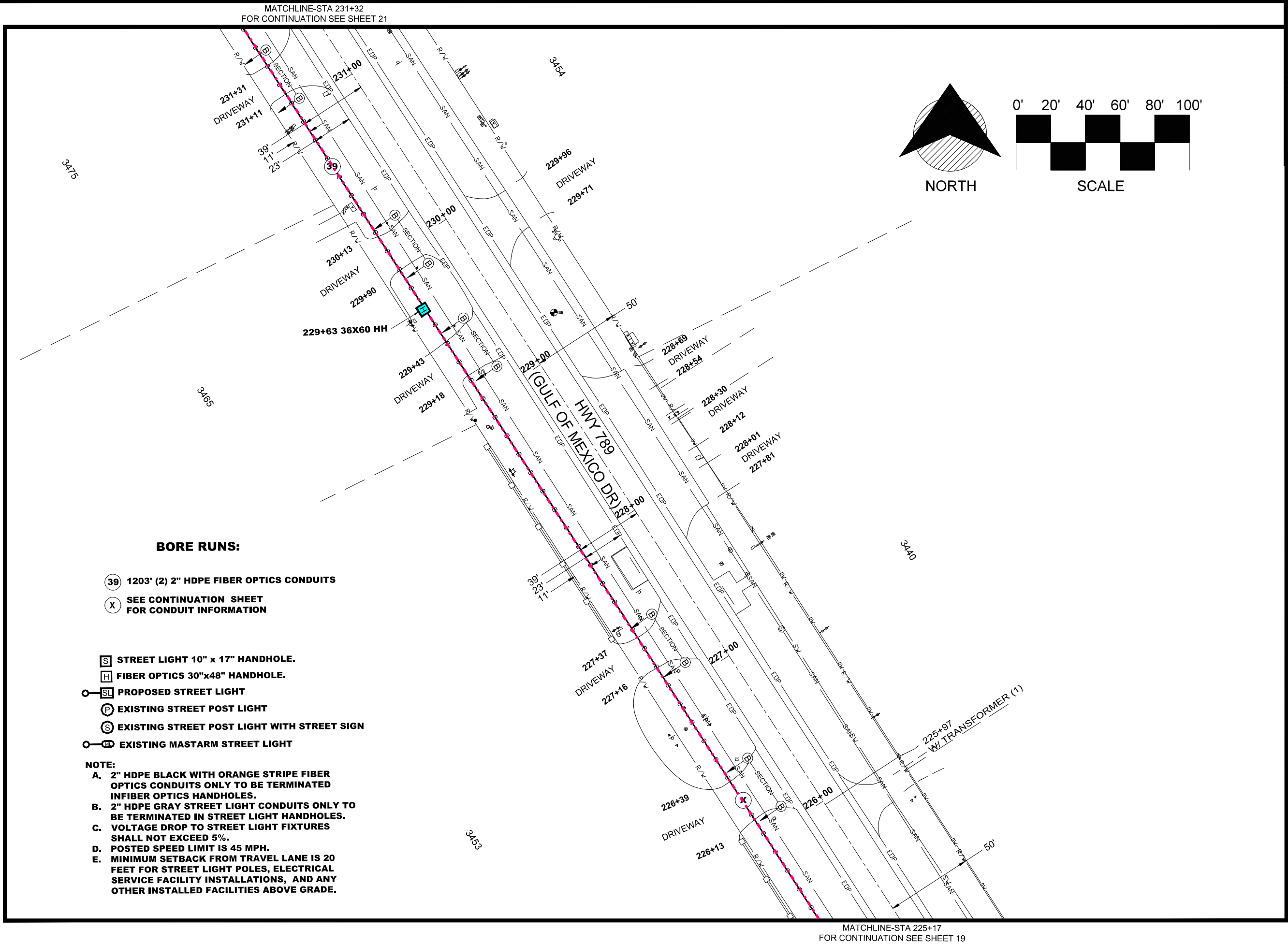
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date:	12/01/2020
Scale:	AS NOTED
Drawn:	DPB
Checked:	DPB
Job #	2014-LBK

Sheet

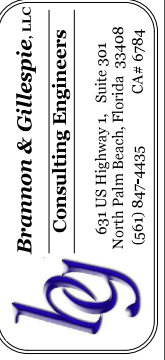
G19 OF 29
of Sheets



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Date: 2021.05.06
17:22:09 -04'00'

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

Town of Longboat Key

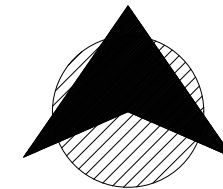


DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA

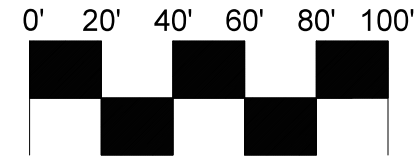


Date:	12/01/2020
Scale:	AS NOTED
Drawn:	DPB
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Job #	2014-LBK
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of	Sheets

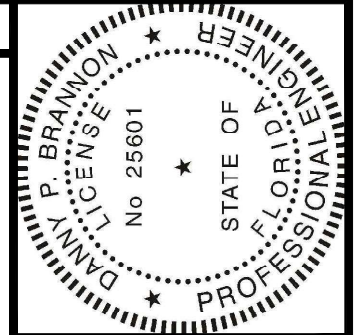
MATCHLINE-STA 237+58
FOR CONTINUATION SEE SHEET 22



NORTH



SCALE



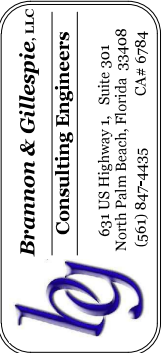
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

Danny Brannon

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

DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK
Sheet

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of Sheets

BORE RUNS:

(X) SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

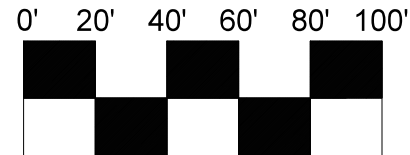
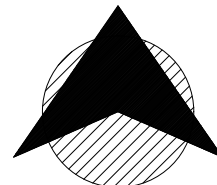
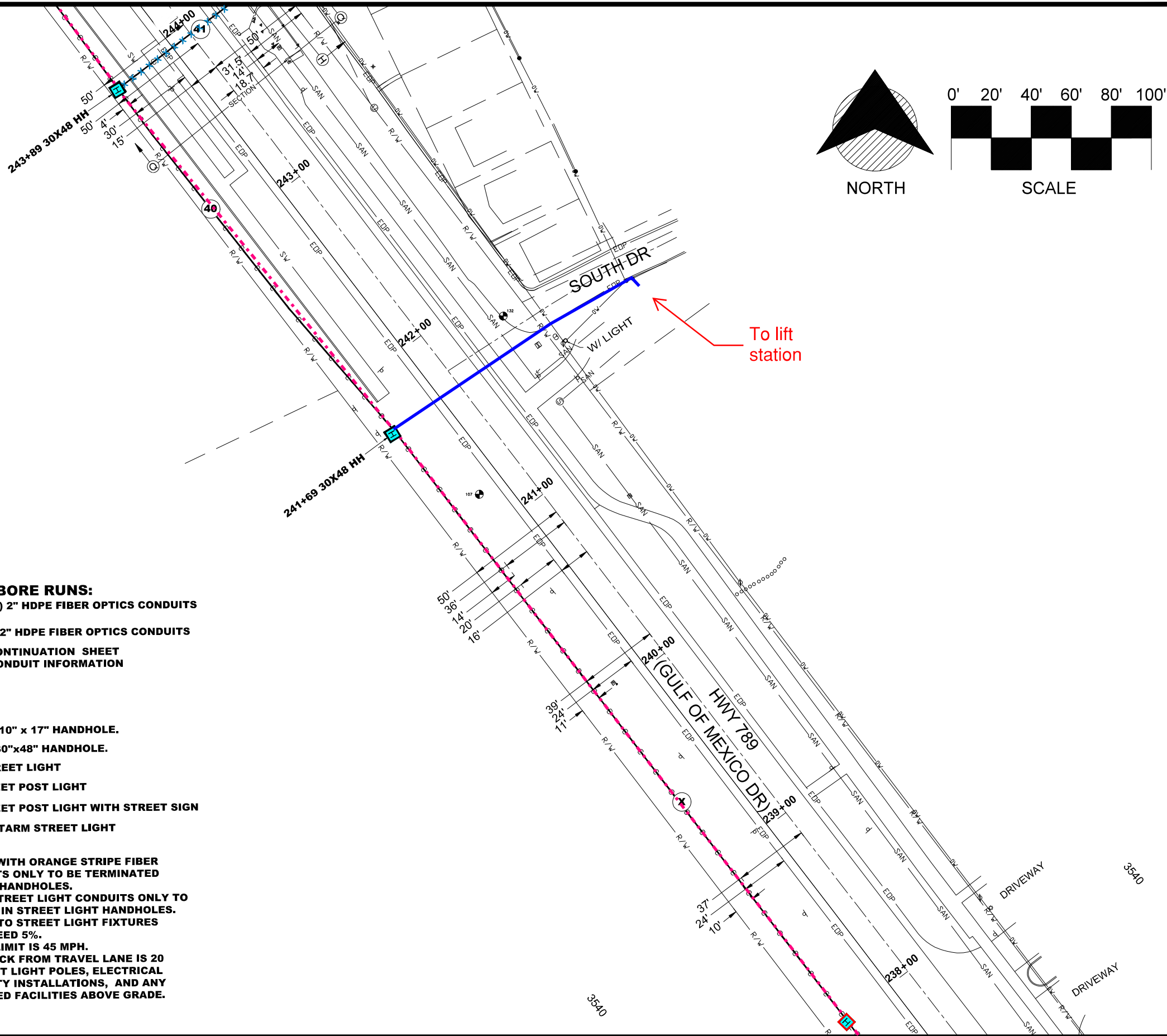
- [S] STREET LIGHT 10" x 17" HANDHOLE.
- [H] FIBER OPTICS 30"x48" HANDHOLE.
- [SL] PROPOSED STREET LIGHT
- [P] EXISTING STREET POST LIGHT
- [S] EXISTING STREET POST LIGHT WITH STREET SIGN
- [M] EXISTING MASTARM STREET LIGHT

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 231+32
FOR CONTINUATION SEE SHEET 20

MATCHLINE-STA 244+08
FOR CONTINUATION SEE SHEET 23



NORTH

SCALE

To lift
station

BORE RUNS:

- ④0 221' (2) 2" HDPE FIBER OPTICS CONDUITS
- ④1 95' (3) 2" HDPE FIBER OPTICS CONDUITS
- (X) SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

[S] STREET LIGHT 10" x 17" HANDHOLE.

[H] FIBER OPTICS 30"x48" HANDHOLE.

[SL] PROPOSED STREET LIGHT

[P] EXISTING STREET POST LIGHT

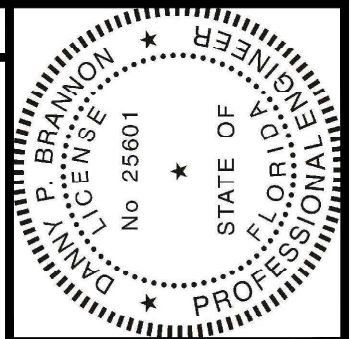
[S] EXISTING STREET POST LIGHT WITH STREET SIGN

[ML] EXISTING MASTARM STREET 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.
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- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 237+58
FOR CONTINUATION SEE SHEET 21



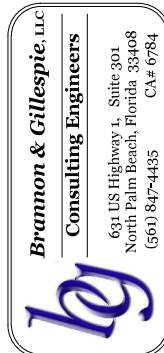
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020

Scale: AS NOTED

Drawn: DPB

Checked: DPB

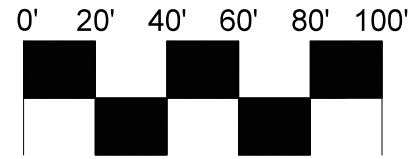
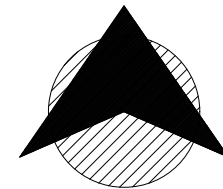
Job # 2014-LBK

Sheet

G22 OF 29
of Sheets

MATCHLINE-STA 250+00
FOR CONTINUATION SEE SHEET 24

3802



NORTH

SCALE

BORE RUNS:

- (42) NOT USED
- (43) 397' (2) 2" HDPE FIBER OPTICS CONDUITS
- (44) 88' (1) 2" HDPE FIBER OPTICS CONDUITS
- (45) 904' (2) 2" HDPE FIBER OPTICS CONDUITS
- (X) SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

[S] STREET LIGHT 10" x 17" HANDHOLE.

[H] FIBER OPTICS 30"x48" HANDHOLE.

[SL] PROPOSED STREET LIGHT

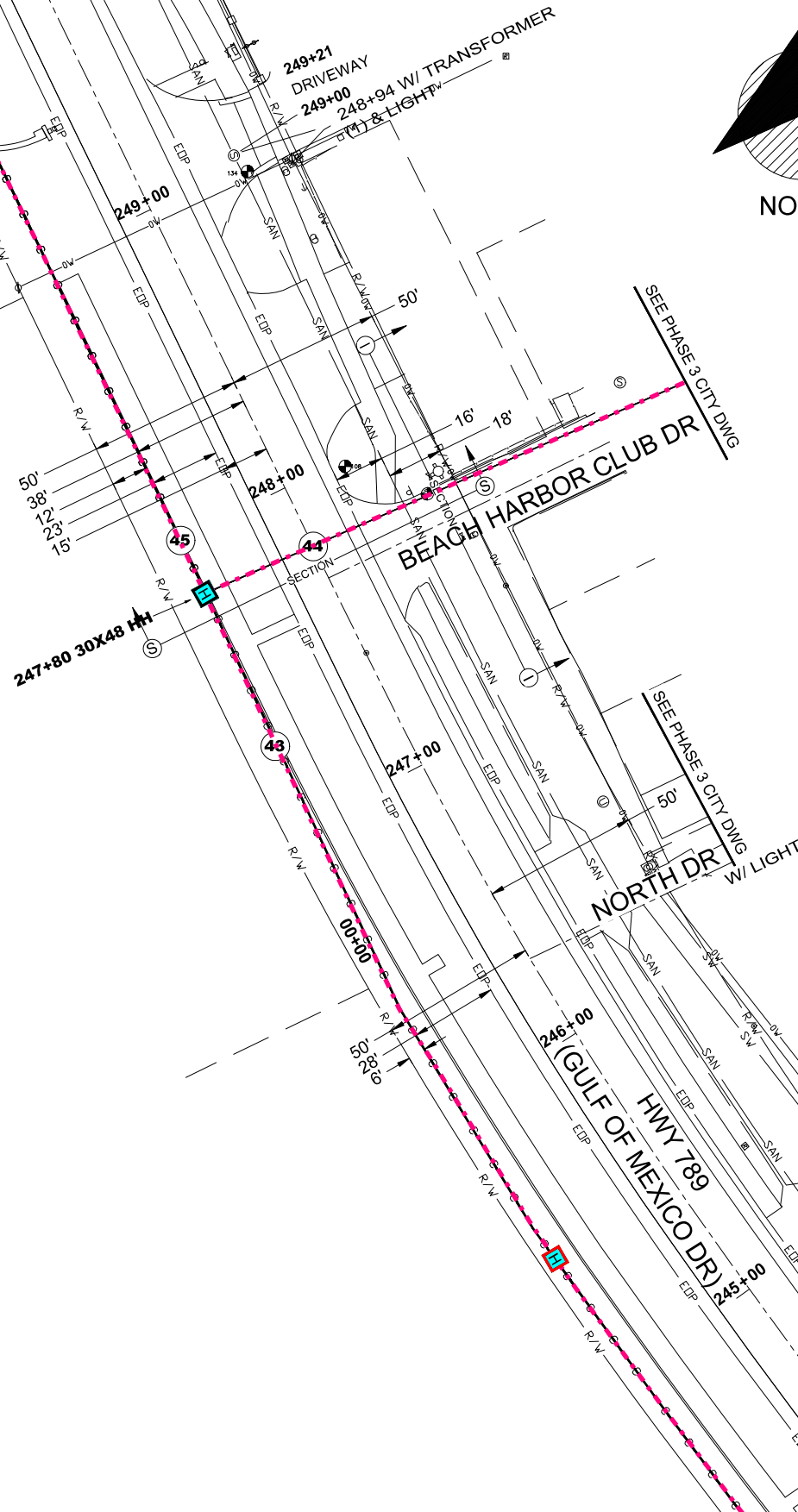
[P] EXISTING STREET POST LIGHT

[S] EXISTING STREET POST LIGHT WITH STREET SIGN

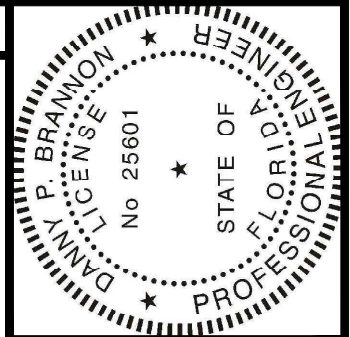
[M] EXISTING MASTARM STREET LIGHT

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
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MATCHLINE-STA 237+58
FOR CONTINUATION SEE SHEET 22

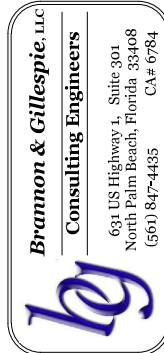


Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

Town of Longboat Key



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020

Scale: AS NOTED

Drawn: DPB

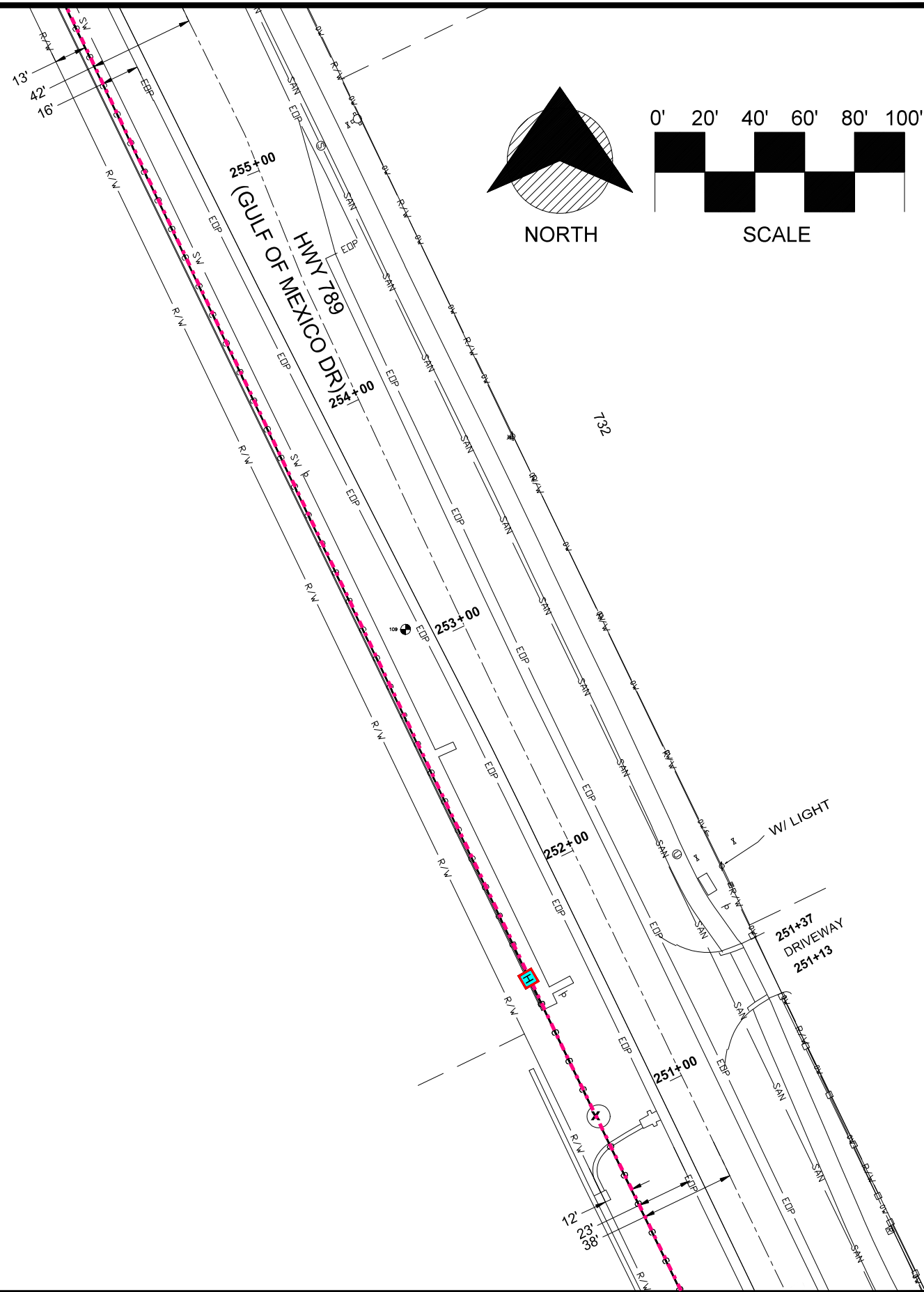
Checked: DPB

Job # 2014-LBK

Sheet

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of Sheets

MATCHLINE-STA 255+73
FOR CONTINUATION SEE SHEET 25



BORE RUNS:

(X) SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

(S) STREET LIGHT 10" x 17" HANDHOLE.

(H) FIBER OPTICS 30"x48" HANDHOLE.

(SL) PROPOSED STREET LIGHT

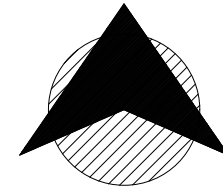
(P) EXISTING STREET POST LIGHT

(S) EXISTING STREET POST LIGHT WITH STREET SIGN

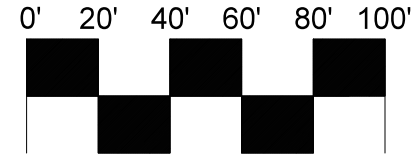
(MA) EXISTING MASTARM STREET LIGHT

NOTE:

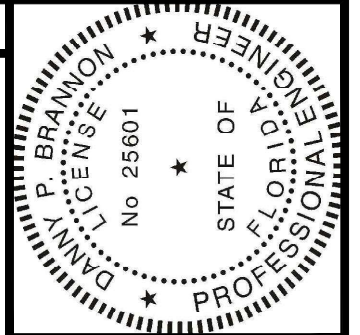
- 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
- 2" HDPE GRAY STREET LIGHT CONDUITS ONLY TO BE TERMINATED IN STREET LIGHT HANDHOLES.
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NORTH



SCALE



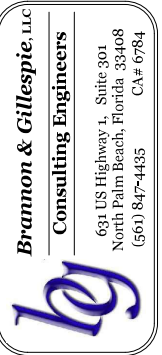
Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020

Scale: AS NOTED

Drawn: DPB

Checked: DPB

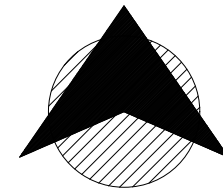
Job # 2014-LBK

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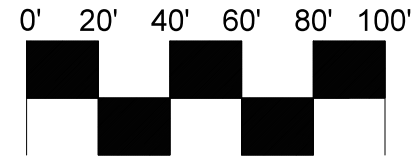
G24 OF 29
of Sheets

MATCHLINE-STA 250+00
FOR CONTINUATION SEE SHEET 23

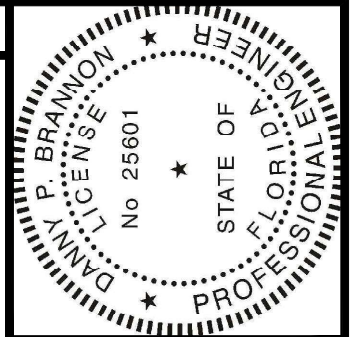
MATCHLINE-STA 261+50
FOR CONTINUATION SEE SHEET 26



NORTH



SCALE

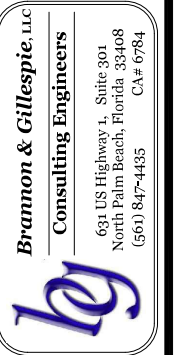


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Date: 2021.05.06
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Town of Longboat Key



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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
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

Sheet

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of Sheets

BORE RUNS:

46 862' (2) 2" HDPE FIBER OPTICS CONDUITS

X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

S STREET LIGHT 10" x 17" HANDHOLE.

H FIBER OPTICS 30"x48" HANDHOLE.

SL PROPOSED STREET LIGHT

P EXISTING STREET POST LIGHT

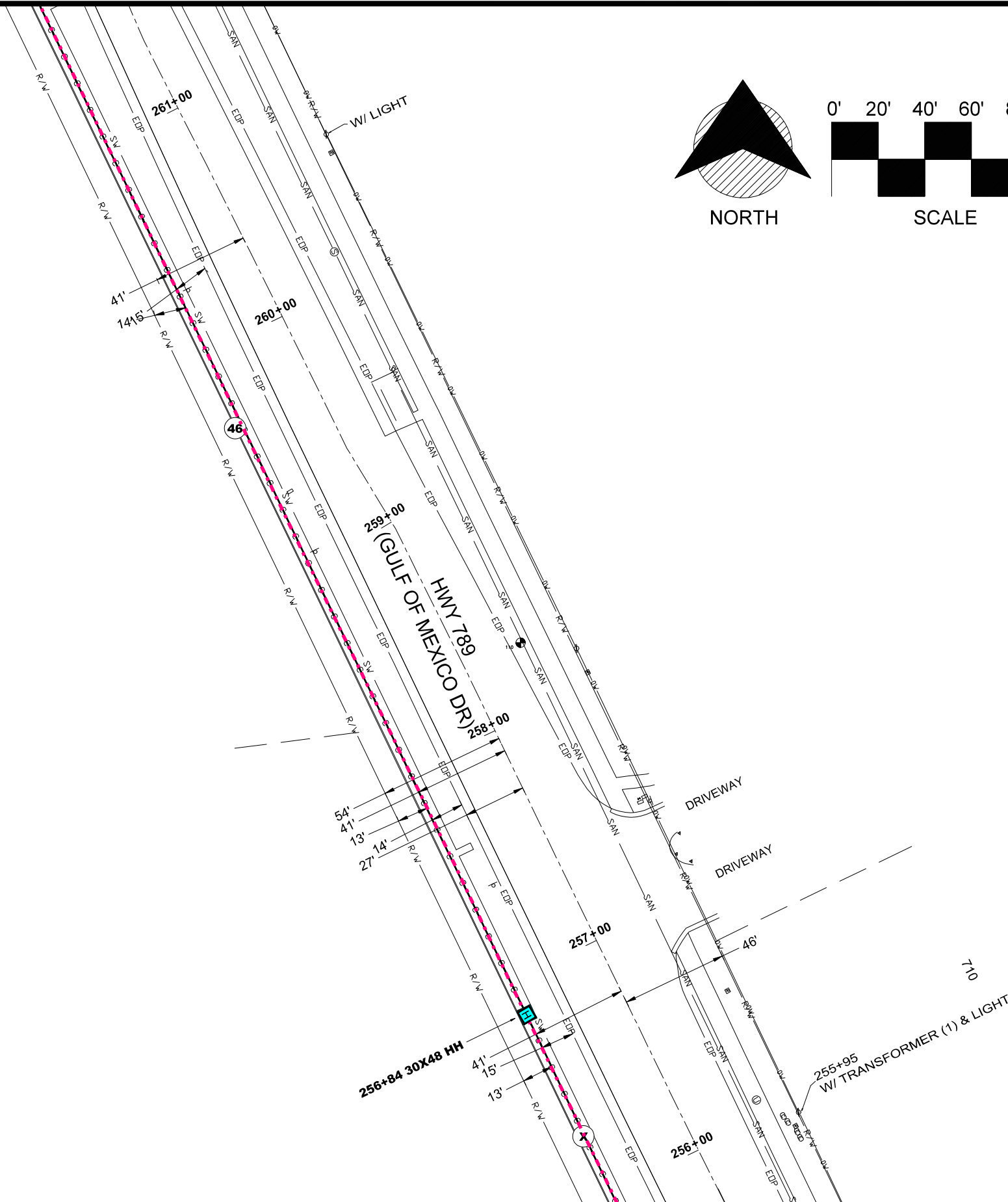
S EXISTING STREET POST LIGHT WITH STREET SIGN

MA EXISTING MASTARM STREET LIGHT

NOTE:

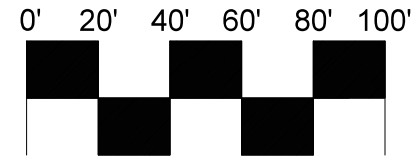
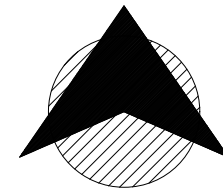
- 2" HDPE BLACK WITH ORANGE STRIPE FIBER OPTICS CONDUITS ONLY TO BE TERMINATED IN FIBER OPTICS HANDHOLES.
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507



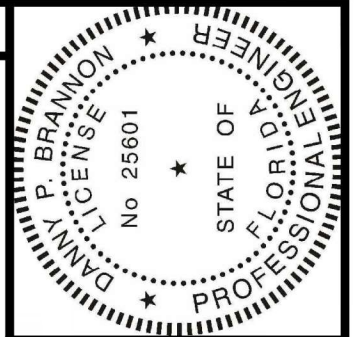
MATCHLINE-STA 255+73
FOR CONTINUATION SEE SHEET 24

MATCHLINE-STA 267+21
FOR CONTINUATION SEE SHEET 27



NORTH

SCALE

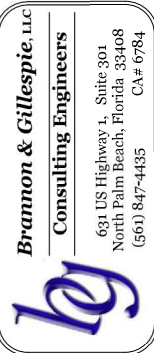


Digitally signed by
Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

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
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

Sheet
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of Sheets

BORE RUNS:

- ④⑦ 87' (1) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- ④⑧ 332' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- X SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

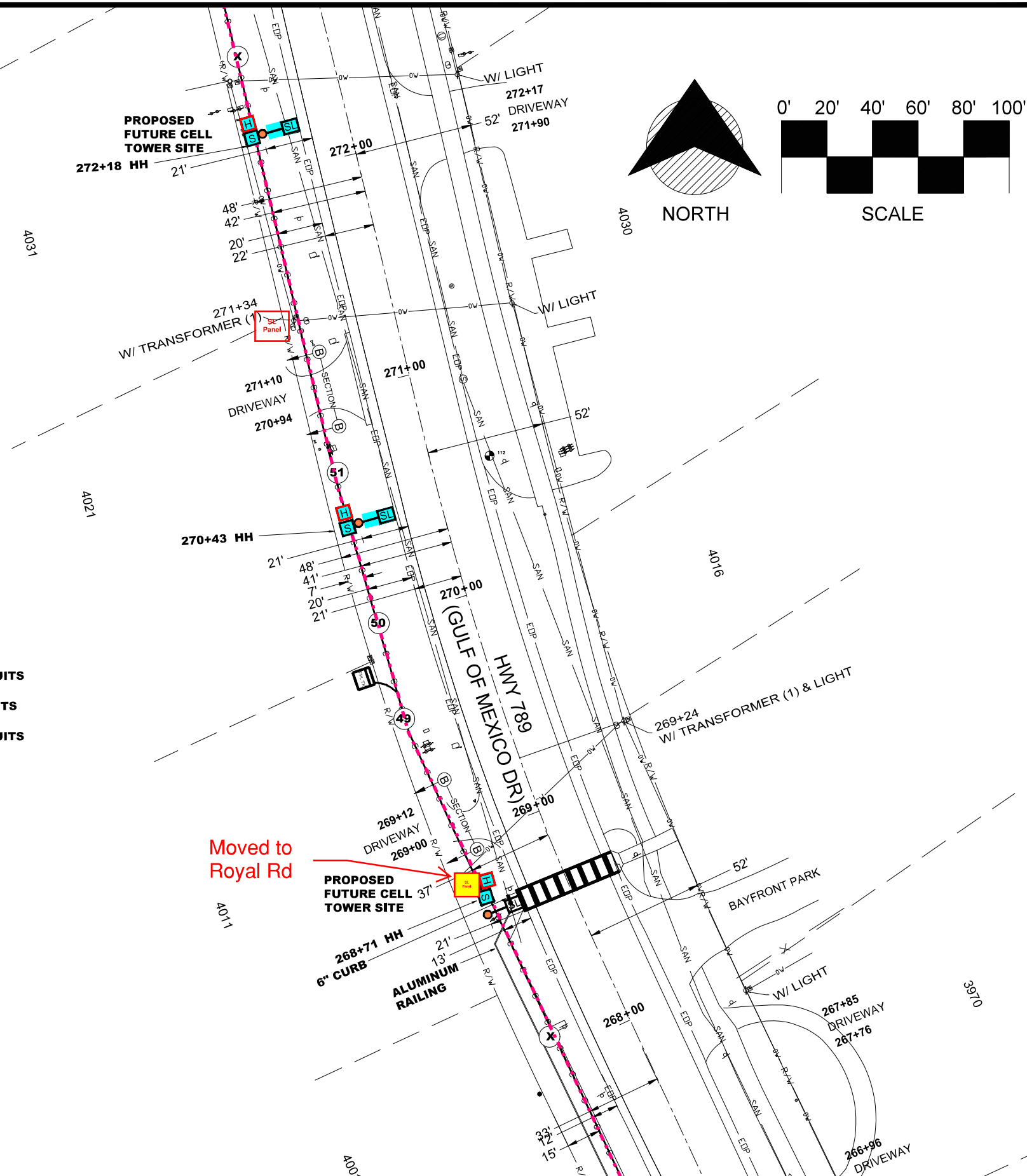
- SL STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- SL EXISTING MASTARM STREET LIGHT

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. VOLTAGE DROP TO STREET LIGHT FIXTURES SHALL NOT EXCEED 5%.
- D. POSTED SPEED LIMIT IS 45 MPH.
- E. MINIMUM SETBACK FROM TRAVEL LANE IS 20 FEET FOR STREET LIGHT POLES, ELECTRICAL SERVICE FACILITY INSTALLATIONS, AND ANY OTHER INSTALLED FACILITIES ABOVE GRADE.

MATCHLINE-STA 261+50
FOR CONTINUATION SEE SHEET 25

MATCHLINE-STA 272+67
FOR CONTINUATION SEE SHEET 28



BORE RUNS:

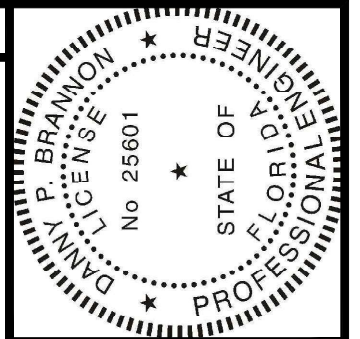
- 49 105' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 50 70' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 51 175' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
- M EXISTING MASTARM STREET LIGHT

NOTE:

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MATCHLINE-STA 261+67
FOR CONTINUATION SEE SHEET 26

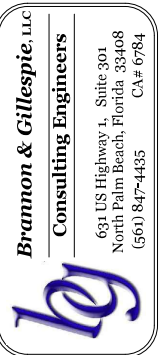


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DRAWINGS FOR:
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LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



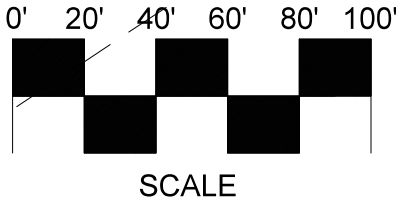
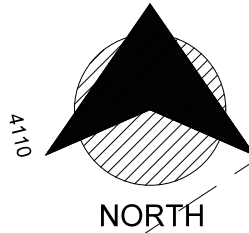
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Scale: AS NOTED
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Checked: DPB
Job # 2014-LBK
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of Sheets

MATCHLINE-STA 277+98
FOR CONTINUATION SEE SHEET 29

277+56 30X48 HH

GRATE
GRATE
270+41
DRIVEWAY
270+06



4131

277+00
(GULF OF MEXICO DR)
HWY 789
276+00

4052

274+90
W/ TRANSFORMER (1)
274+46
DRIVEWAY
274+17

4040

BORE RUNS:

- 52 175' (2) 2" HDPE FIBER OPTICS & (1) 2" STREET LIGHT CONDUITS
- 53 351' (2) 2" HDPE FIBER OPTICS CONDUITS
- X SEE CONTINUATION SHEET FOR CONDUIT INFORMATION

- S STREET LIGHT 10" x 17" HANDHOLE.
- H FIBER OPTICS 30"x48" HANDHOLE.
- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN
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NOTE:

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4101

275+00
DRIVEWAY
274+85

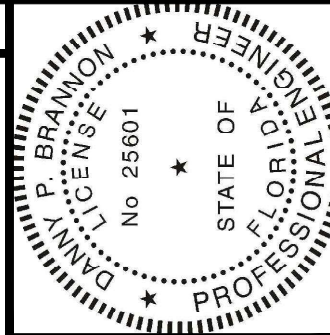
274+32
DRIVEWAY
274+17

273+95 HH

273+00

273+28
DRIVEWAY
273+12

MATCHLINE-STA 272+67
FOR CONTINUATION SEE SHEET 27



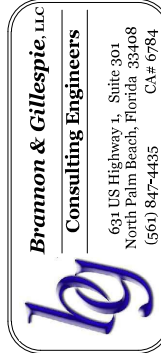
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FLORIDA P. E. NO. 25601

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Town of Longboat Key



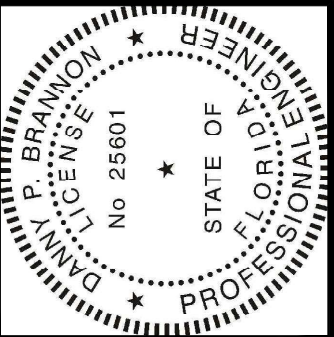
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
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Job # 2014-LBK

Sheet

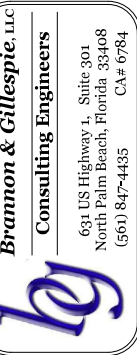
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of Sheets



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DRAWINGS FOR:
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LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job # 2014-LBK

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of Sheets

BORE RUNS:

(X) SEE CONTINUATION SHEET
FOR CONDUIT INFORMATION

[S] STREET LIGHT 10" x 17" HANDHOLE.

[H] FIBER OPTICS 30"x48" HANDHOLE.

[SL] PROPOSED STREET LIGHT

[P] EXISTING STREET POST LIGHT

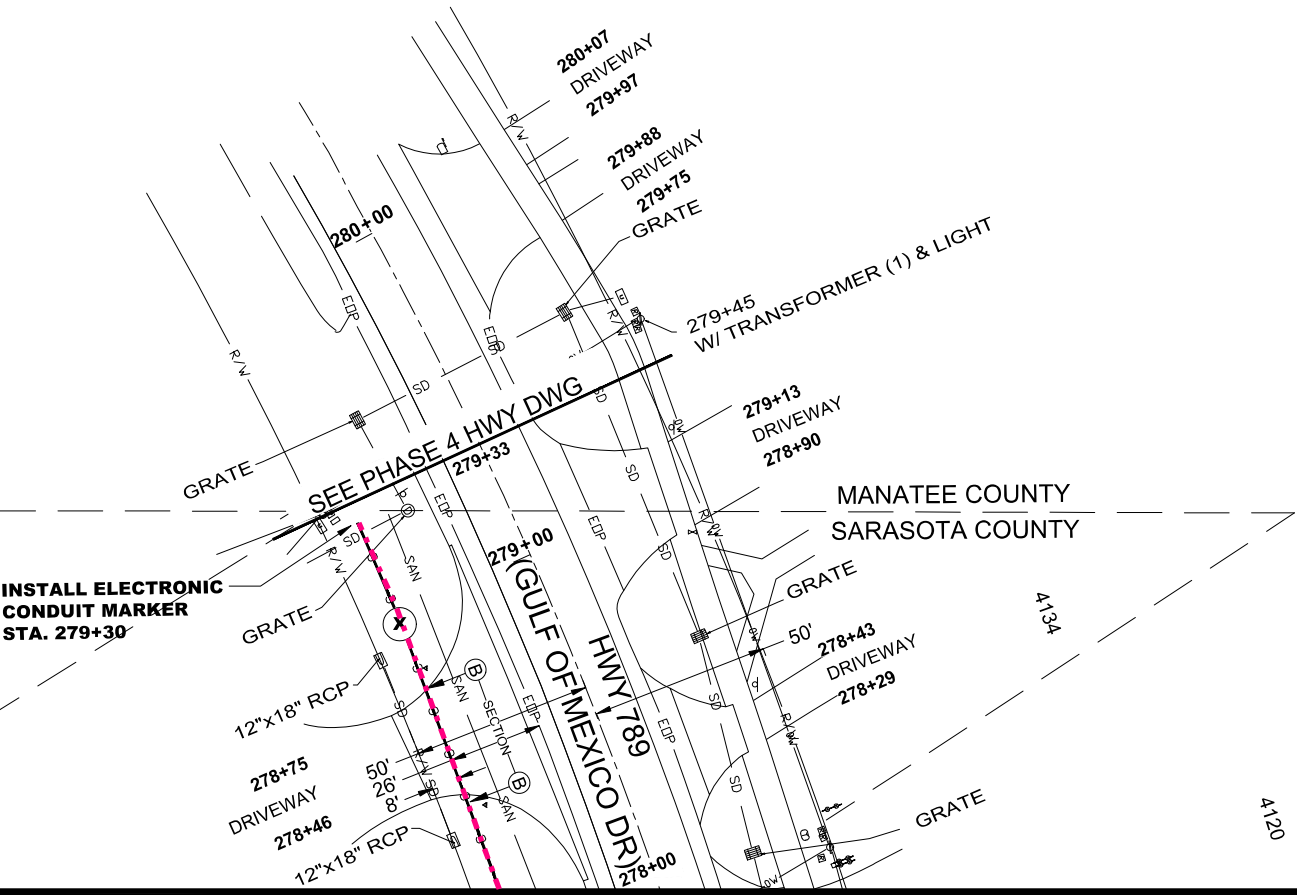
[S] EXISTING STREET POST LIGHT WITH STREET SIGN

[M] EXISTING MASTARM STREET LIGHT

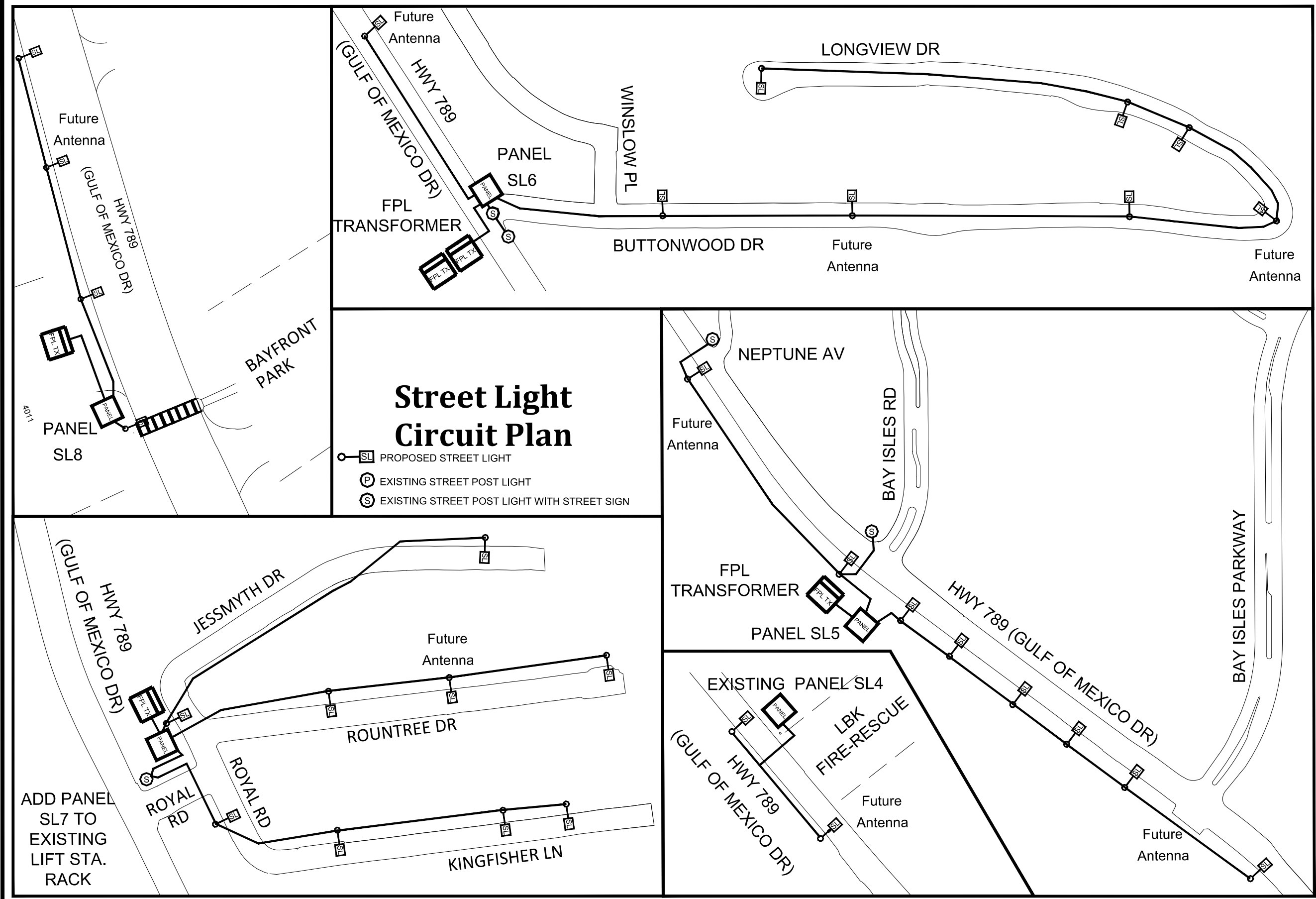
NOTE:

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INSTALL ELECTRONIC
CONDUIT MARKER
STA. 279+30

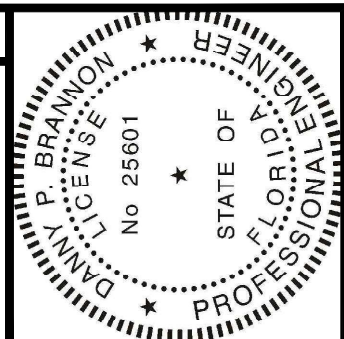


MATCHLINE-STA 277+98
FOR CONTINUATION SEE SHEET 28



Street Light
Circuit Plan

- SL PROPOSED STREET LIGHT
- P EXISTING STREET POST LIGHT
- S EXISTING STREET POST LIGHT WITH STREET SIGN

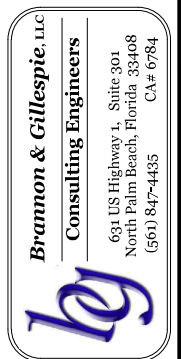


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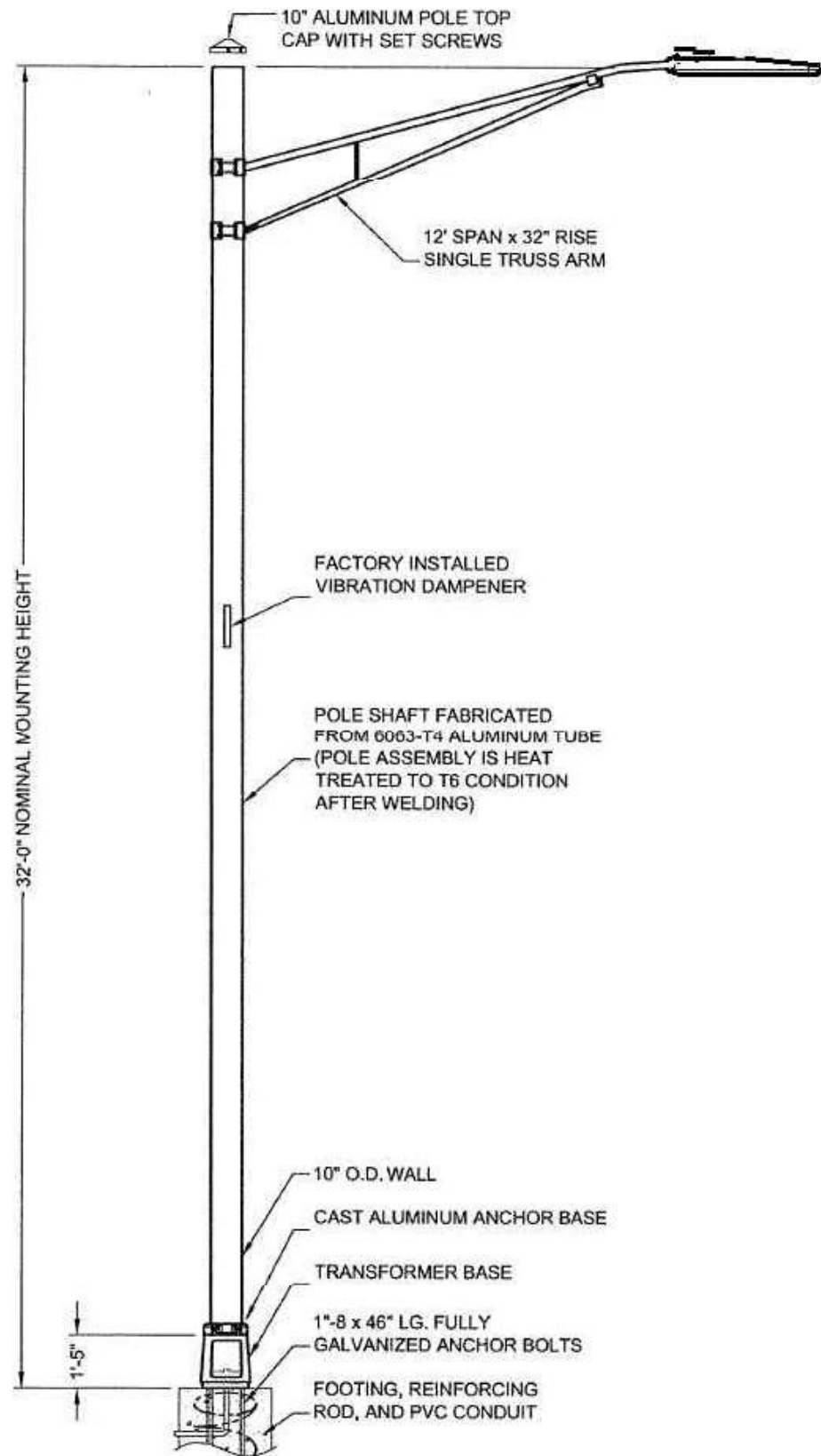
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



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of Sheets



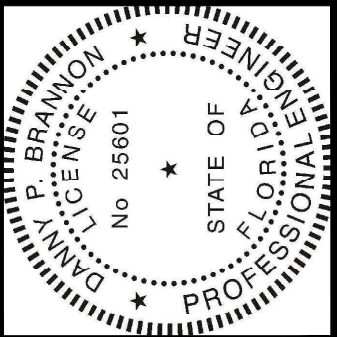
GMD STREET LIGHTS

- 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 FDM 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 FDM 215.2.9 .				
		1.5 feet	4.0 feet	1.5 feet	1.5 feet	Outside Clear Zone



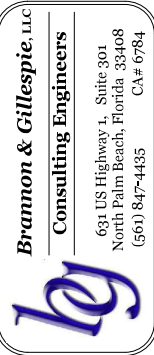
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Danny P. Brannon
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Danny P. Brannon

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

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Town of Longboat Key



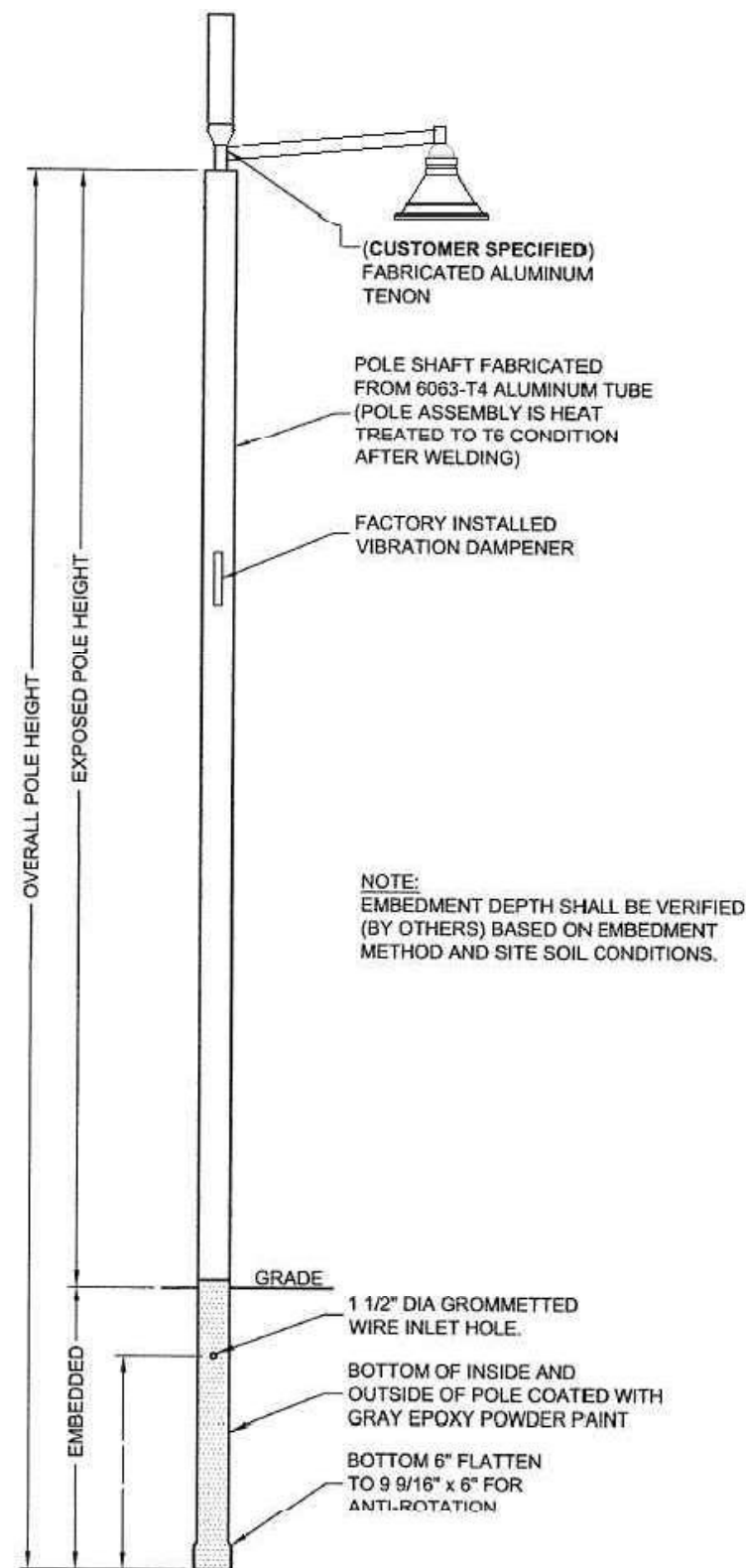
DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



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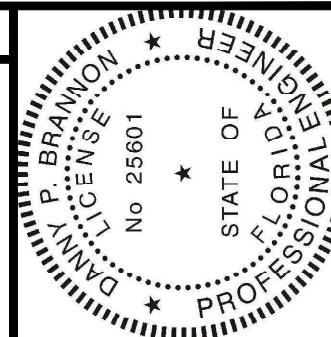
Sheet

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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.
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- All Luminaires to be equipped with photocell control.

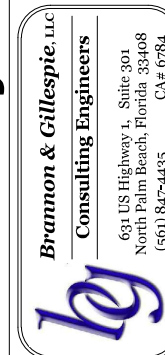


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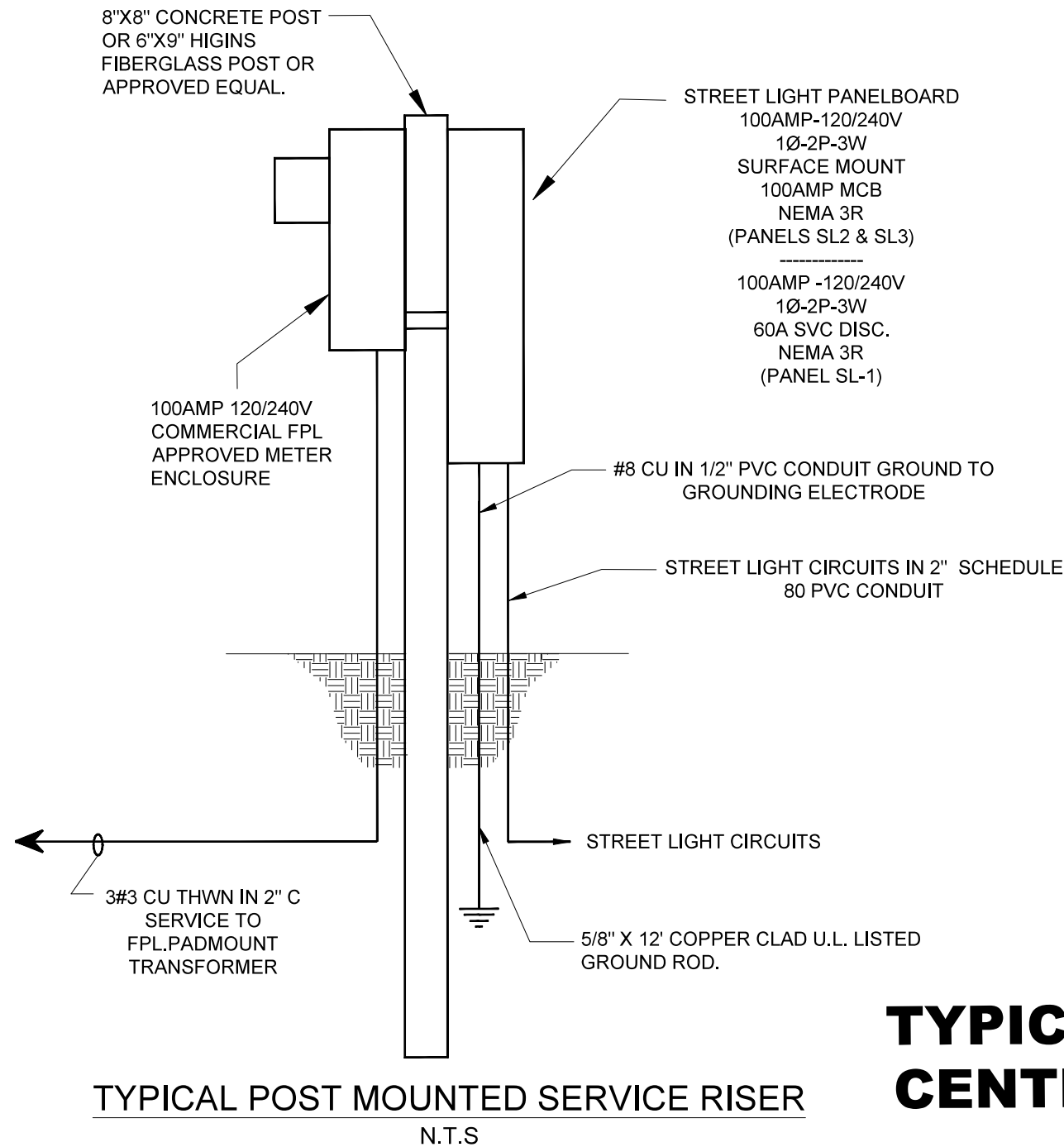
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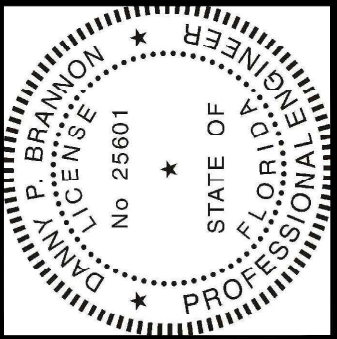
Date: 12/01/2020
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**TYPICAL POWER
CENTER DETAIL**



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Dan Brannon

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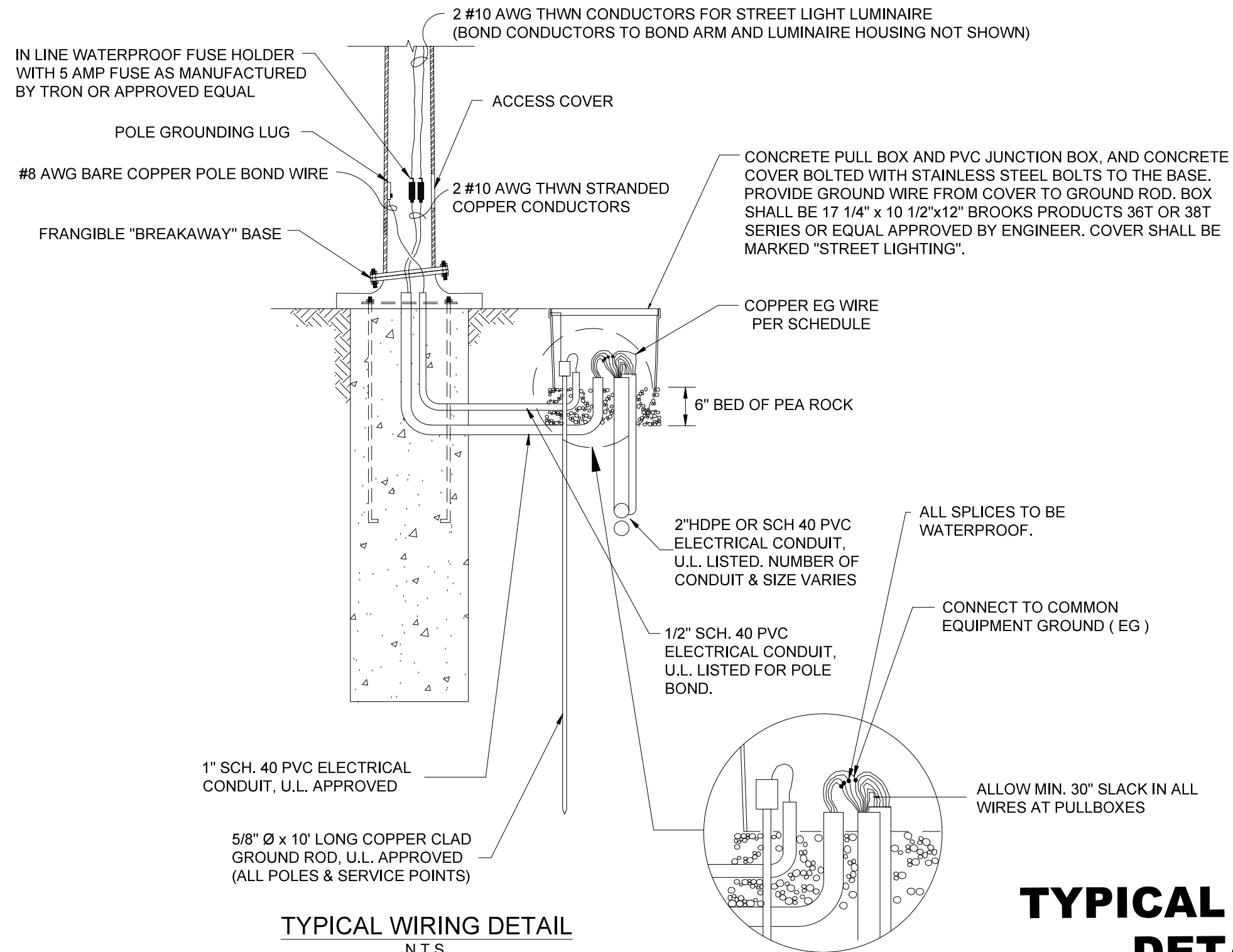
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Town of Longboat Key

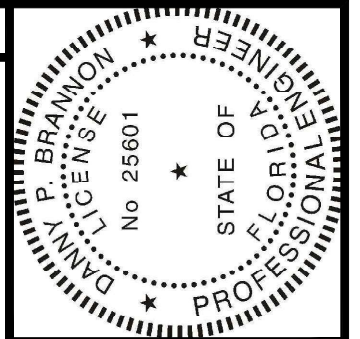
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631 US Highway 1, Suite 301
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TYPICAL WIRING DETAIL



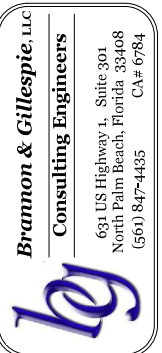
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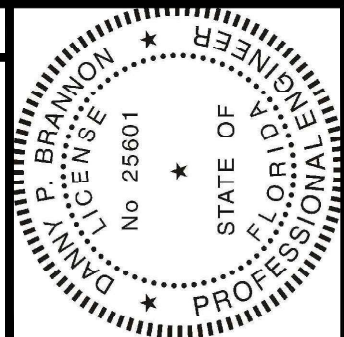
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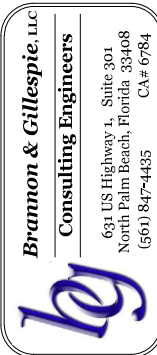


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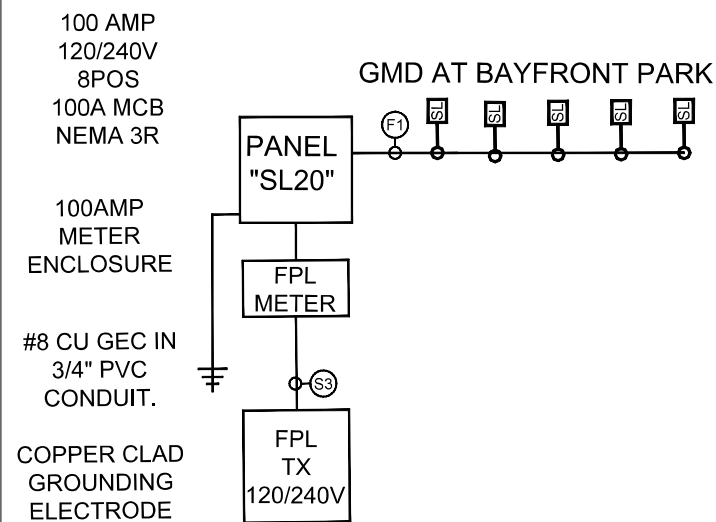


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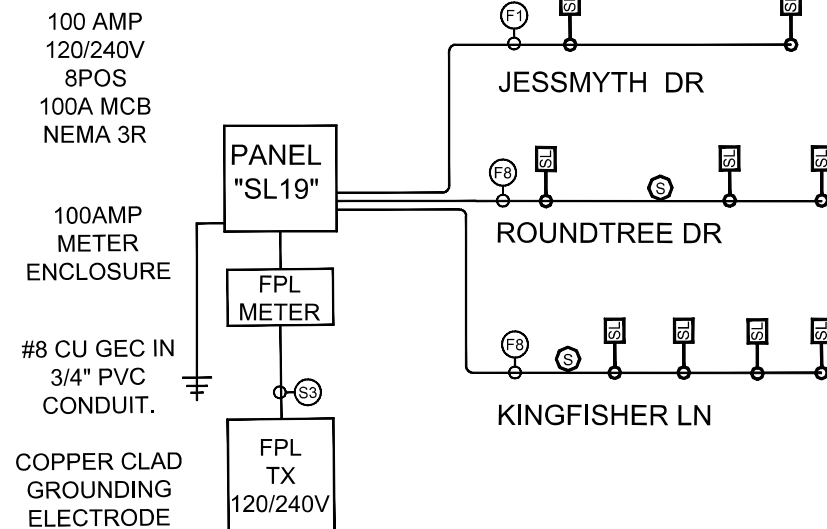


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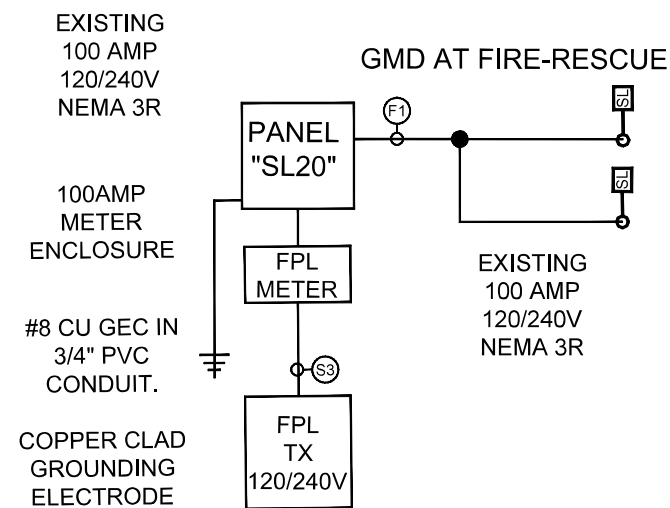
STREET LIGHT RISER DIAGRAM PHASE 3 - PANEL "SL8"



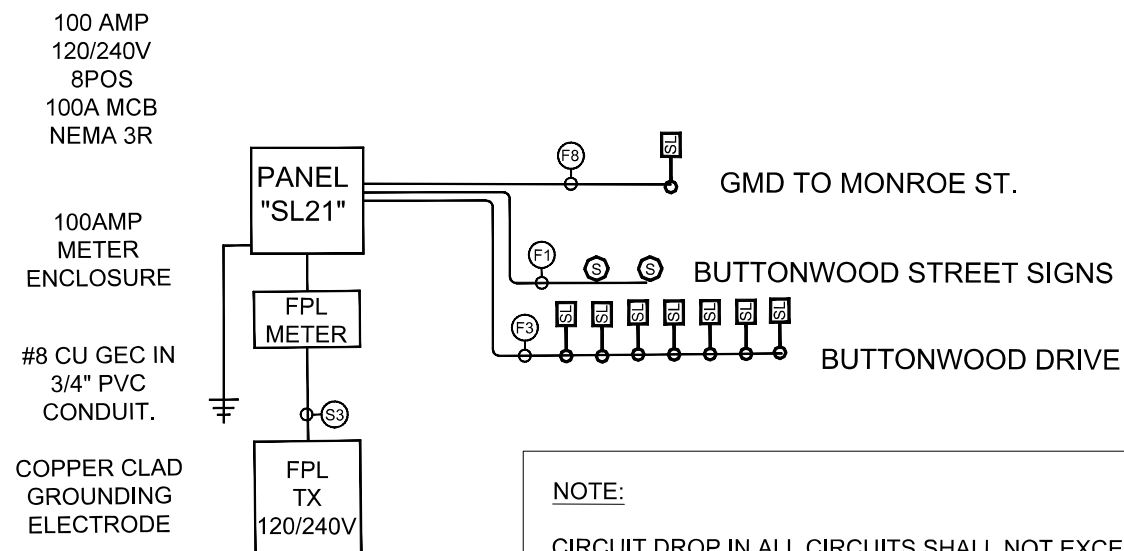
STREET LIGHT RISER DIAGRAM PHASE 3 - PANEL "SL7"



STREET LIGHT RISER DIAGRAM PHASE 3 - PANEL "SL4"

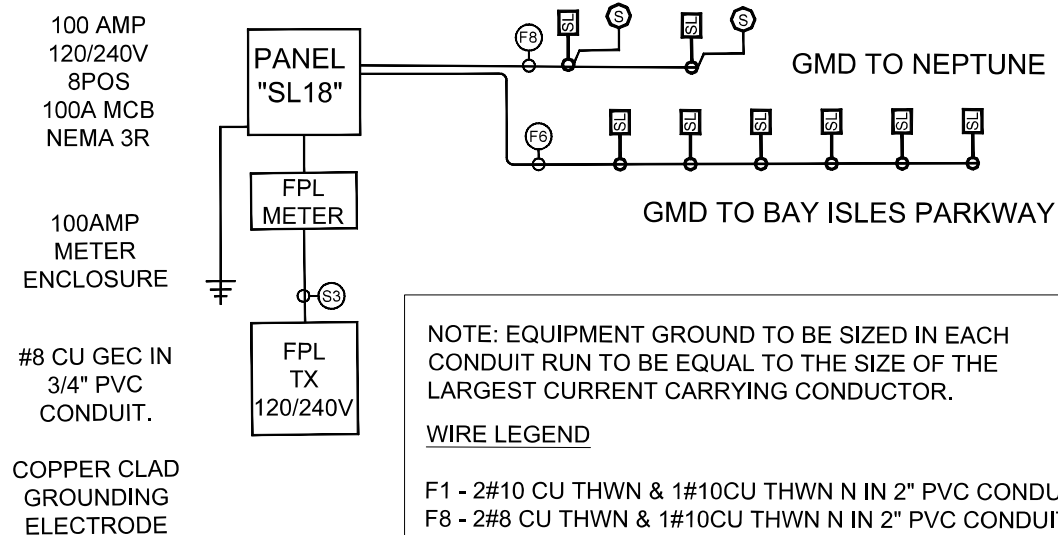


STREET LIGHT RISER DIAGRAM PHASE 3 - PANEL "SL6"



NOTE:
CIRCUIT DROP IN ALL CIRCUITS SHALL NOT EXCEED 5%.

STREET LIGHT RISER DIAGRAM PHASE 3 - PANEL "SL5"



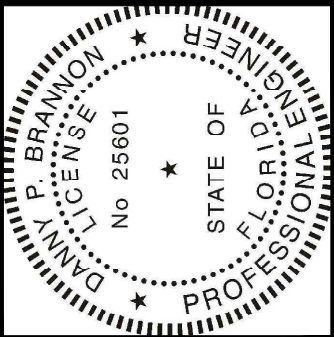
NOTE: EQUIPMENT GROUND TO BE SIZED IN EACH
CONDUIT RUN TO BE EQUAL TO THE SIZE OF THE
LARGEST CURRENT CARRYING CONDUCTOR.

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#3CU THWN N IN 2" PVC CONDUIT

PANEL SCHEDULE - PANEL SL8																	
KVA	BUS AMPS		LOAD	WIRE SIZE	NO. POLES	CB AMPS				CB AMPS	NO. POLES	WIRE SIZE	LOAD	BUS AMPS		KVA	
	A	B					POS	PH	POS					A	B		
1.7	7	7	GMD ST LTS	10	2	20	1	A--	2		2						
			"		"	"	3	--B	4	"	"		"				
			SPARE		1	1	5	A--	6								
							7	--B	8								
							9	A--	10								
							11	--B	12								
							13	A--	14								
							15	--B	16								
							17	A--	18								
							19	--B	20								
							21	A--	22								
							23	--B	24								
							25	A--	26								
							27	--B	28								
							29	A--	30								
							31	--B	32								
							33	A--	34								
							35	--B	36								
							37	A--	38								
							39	--B	40								
							41	A--	42								
TOTAL CONNECTED BUS AMPS: PHASE A: 7 PHASE B: 7 CONN. KVA: 1.7 FULL NEUTRAL BUS: YES																	
RATED VOLTAGE: 120/240V - 1 PHASE RATED AMPS: 100 NUMBER OF BRANCH POLES: 8 GROUND BUS: YES																	
OPERATING VOLTAGE: 120/240V - 1 PHASE KEYED DOOR LATCH: YES																	
BRANCH CIRCUIT DEVICES TO BE CIRCUIT BREAKERS. CIRCUITS ALL TO BE GFI BREAKERS. HINGED DOOR: YES																	
MAIN TO BE: 100 AMP CIRCUIT BREAKER ENCLOSURE TYPE: NEMA 3R, SURFACE MOUNT																	
BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMPS SYMMETRICAL OR BE SERIES RATED WITH MAIN																	
APPROVED MANUFACTURERS: CUTLER-HAMMER, SQUARE-D, SIEMENS, & GE ONLY. PANEL TYPE TO BE BOLTED CKT BREAKER.																	
MAIN LUGS: 1 SET(S) OF 3-#3 THWN CU AND #8 CU EG IN 2 INCH CONDUIT																	

Panel Schedule



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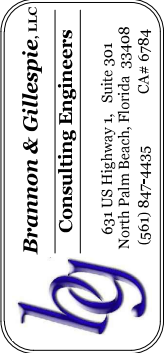
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PANEL	CIRCUITS	VA Load	Amps	% VD	Circuit
Panel SL4	1 GMD - FIRE RESCUE (60 amp 2-Pole Disconnect Switch Subfeed from Klift Station Panel)	1337.5	5.57	1.50%	#10 CU THWN
Panel SL5	2 GMD - BAY ISLES RD TO NEPTUNE	2312.5	9.64	4.41%	#8 CU THWN,
	3 GMD BAY ISLES RD BAY ISLES PKWY	2137.5	8.91	3.82%	#6 CU THWN,
Panel SL6	4 BUTTONWOOD DR	2592.5	10.80	4.01%	#3 CU THWN,
	5 BUTTONWOOD DR STREET SIGNS	975	4.06	3.58%	#10 CU THWN
	6 GMD - MONROE CROSSWALK	1137.5	4.74	1.87%	#8 CU THWN,
Panel SL7	7 ROYAL RD TO JESSMYTH DR	205	0.85	0.90%	#10 CU THWN
	8 ROUNDTREE DR	1245	5.19	3.07%	#8 CU THWN,
	9 ROYAL RD TO KINGFISHER LN	897.5	3.74	2.88%	#8 CU THWN,
Panel SL8	10 GMD CROSSWALK BAYFRONT PARK	1737.5	7.24	3.41%	#10 CU THWN

LOAD CALCULATIONS			
PANEL	VA Load (125% of Connected)	AMP Load	Voltage
Panel SL4	1337.5	5.6	240
Panel SL5	4450.0	18.5	240
Panel SL6	4705.0	19.6	240
Panel SL7	2347.5	9.8	240
Panel SL8	1737.5	7.2	240

Street Light Circuit Loads

Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
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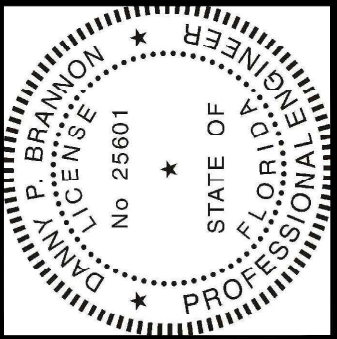
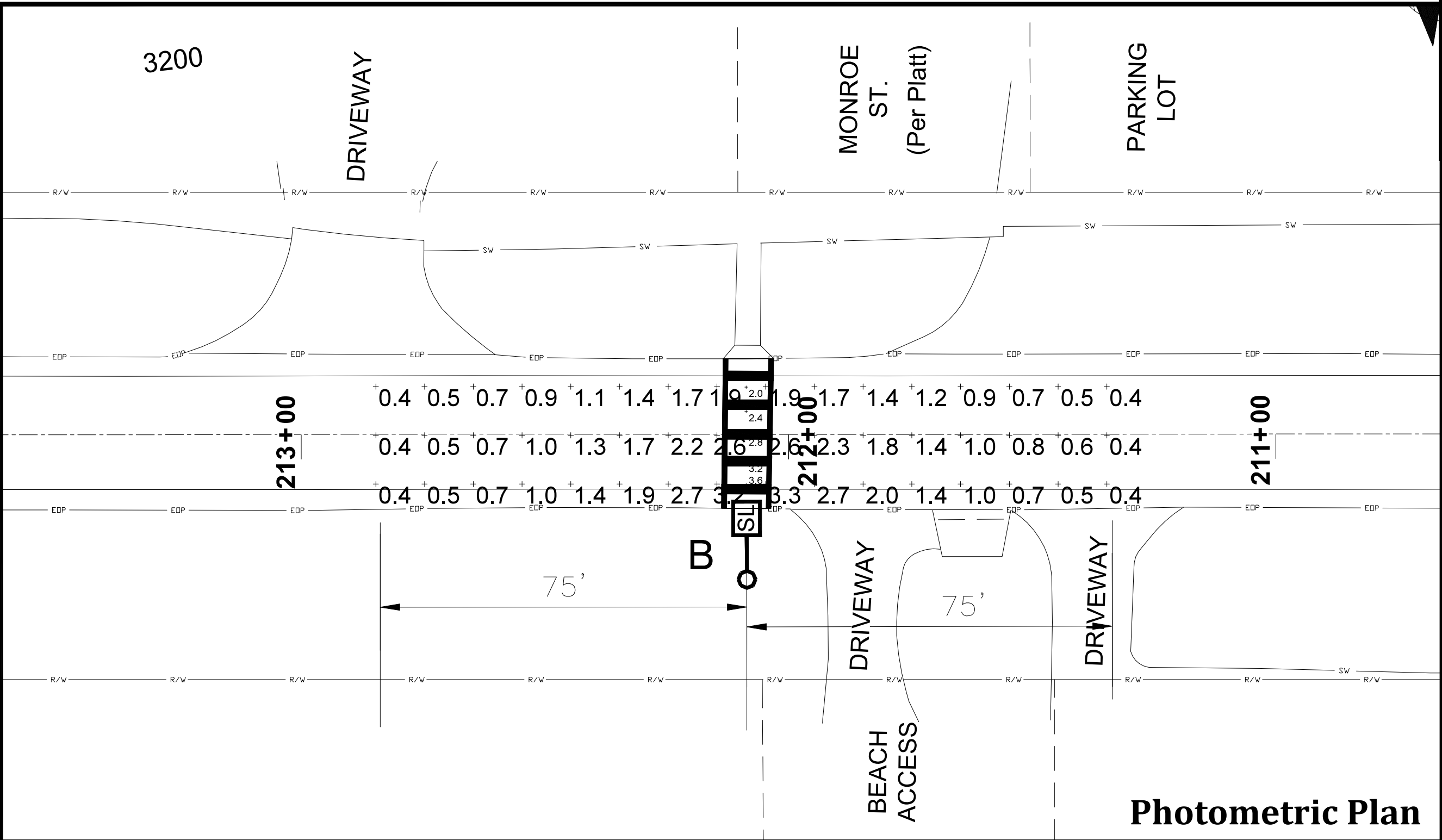
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of Sheets

PANEL SCHEDULE - PANEL SL6																
KVA	BUS AMPS		LOAD	WIRE SIZE	NO. POLES	CB AMPS				CB AMPS	NO. POLES	WIRE SIZE	LOAD	BUS AMPS		KVA
	A	B					POS	PH	POS					A	B	
2.5	11		BUTTONWOOD ST LTS	3	2	20	1	A --	2		1		SPARE			
		11	"		"	"	3	-- B	4	2	2		SPARE			
3.0	13		DECO STREET SIGNS	10	2	20	5	A --	6	"	"		"			
		13	"		"	"	7	-- B	8							
2.4	10		GMD STREET LTS	8	2	20	9	A --	10							
		10	"		"	"	11	-- B	12							
							13	A --	14							
							15	-- B	16							
							17	A --	18							
							19	-- B	20							
							21	A --	22							
							23	-- B	24							
							25	A --	26							
							27	-- B	28							
							29	A --	30							
							31	-- B	32							
							33	A --	34							
							35	-- B	36							
							37	A --	38							
							39	-- B	40							
							41	A --	42							
TOTAL CONNECTED BUS AMPS - PHASE A: 33 PHASE B: 33 CONN. KVA: 7.9 FULL NEUTRAL BUS: YES																
RATED VOLTAGE: 120/240V - 1 PHASE RATED AMPS: 100 NUMBER OF BRANCH POLES: 8 GROUND BUS: YES																
OPERATING VOLTAGE: 120/240V - 1 PHASE																
BRANCH CIRCUIT DEVICES TO BE CIRCUIT BREAKERS. CIRCUITS ALL TO BE GFI BREAKERS.																
MAIN TO BE: 100 AMP CIRCUIT BREAKER ENCLOSURE TYPE: NEMA 3R, SURFACE MOUNT																
BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMPS SYMMETRICAL OR BE SERIES RATED WITH MAIN																
APPROVED MANUFACTURERS: CUTLER-HAMMER, SQUARE-D, SIEMENS, & GE ONLY. PANEL TYPE TO BE BOLTED CKT BREAKER.																
MAIN LUGS: 1 SET(S) OF 3-#3 THWN CU AND #8 CU EG IN 2 INCH CONDUIT																

PANEL SCHEDULE - PANEL SL7																
KVA	BUS AMPS		LOAD	WIRE SIZE	NO. POLES	CB AMPS				CB AMPS	NO. POLES	WIRE SIZE	LOAD	BUS AMPS		KVA
	A	B					POS	PH	POS					A	B	
0.2	1		JESSMITH ST LTS	10	2	20	1	A - -	2	20	2	8	KINGFISHER ST LTS	4		0.9
		1	"		"	"	3	- - B	4	"	"	"	"		4	
1.2	5		ROUNDTREE ST LTS	8	2	20	5	A - -	6							
		5	"		"	"	7	- - B	8							
							9	A - -	10							
							11	- - B	12							
							13	A - -	14							
							15	- - B	16							
							17	A - -	18							
							19	- - B	20							
							21	A - -	22							
							23	- - B	24							
							25	A - -	26							
							27	- - B	28							
							29	A - -	30							
							31	- - B	32							
							33	A - -	34							
							35	- - B	36							
							37	A - -	38							
							39	- - B	40							
							41	A - -	42							
TOTAL CONNECTED BUS AMPS - PHASE A: 10 PHASE B: 10 CONN. KVA: 2.3 FULL NEUTRAL BUS: YES																
RATED VOLTAGE: 120/240V - 1 PHASE RATED AMPS: 100 NUMBER OF BRANCH POLES: 8 GROUND BUS: YES																
OPERATING VOLTAGE: 120/240V - 1 PHASE																
BRANCH CIRCUIT DEVICES TO BE CIRCUIT BREAKERS. CIRCUITS ALL TO BE GFI BREAKERS.																
MAIN TO BE: 100 AMP CIRCUIT BREAKER ENCLOSURE TYPE: NEMA 3R, SURFACE MOUNT																
BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMPS SYMMETRICAL OR BE SERIES RATED WITH MAIN																
APPROVED MANUFACTURERS: CUTLER-HAMMER, SQUARE-D, SIEMENS, & GE ONLY. PANEL TYPE TO BE BOLTED CKT BREAKER.																
MAIN LUGS: 1 SET(S) OF 3-#3 THWN CU AND #8 CU EG IN 2 INCH CONDUIT																

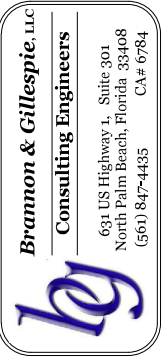
PANEL SCHEDULE - PANEL SL4																
KVA	BUS AMPS		LOAD	WIRE SIZE	NO. POLES	CB AMPS				CB AMPS	NO. POLES	WIRE SIZE	LOAD	BUS AMPS		KVA
	A	B					POS	PH	POS					A	B	
1.3	6		GMD STREET LIGHTS	10	2	20	1	A --	2		2		SPARE			
		6	"		"	"	3	-- B	4		"		"			
							5	A --	6	1	1		SPARE			
							7	-- B	8							
							9	A --	10							
							11	-- B	12							
							13	A --	14							
							15	-- B	16							
							17	A --	18							
							19	-- B	20							
							21	A --	22							
							23	-- B	24							
							25	A --	26							
							27	-- B	28							
							29	A --	30							
							31	-- B	32							
							33	A --	34							
							35	-- B	36							
							37	A --	38							
							39	-- B	40							
							41	A --	42							
TOTAL CONNECTED BUS AMPS - PHASE A: 6 PHASE B: 6 CONN. KVA: 1.3 FULL NEUTRAL BUS: YES																
RATED VOLTAGE: 120/240V - 1 PHASE RATED AMPS: 100 NUMBER OF BRANCH POLES: 8 GROUND BUS: YES																
OPERATING VOLTAGE: 120/240V - 1 PHASE																
BRANCH CIRCUIT DEVICES TO BE CIRCUIT BREAKERS. CIRCUITS ALL TO BE GFI BREAKERS.																
MAIN TO BE: 100 AMP CIRCUIT BREAKER ENCLOSURE TYPE: NEMA 3R, SURFACE MOUNT																
BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMPS SYMMETRICAL OR BE SERIES RATED WITH MAIN																
APPROVED MANUFACTURERS: CUTLER-HAMMER, SQUARE-D, SIEMENS, & GE ONLY. PANEL TYPE TO BE BOLTED CKT BREAKER.																
MAIN LUGS: 1 SET(S) OF 3-#3 THWN CU AND #8 CU EG IN 2 INCH CONDUIT																

PANEL SCHEDULE - PANEL SL5																
A	BUS AMPS		LOAD	WIRE SIZE	NO. POLES	CB AMPS	POS	PH	POS	CB AMPS	NO. POLES	WIRE SIZE	LOAD	BUS AMPS		KVA
	A	B												A	B	
3	10		STREET LTS NORTH	8	2	20	1	A --	2		2		SPARE			
		10	"		"	"	3	-- B	4	"	"		"			
1	9		STREET LTS SOUTH	6	2	20	5	A --	6	1	1		SPARE			
		9	"		"	"	7	-- B	8							
							9	A --	10							
							11	-- B	12							
							13	A --	14							
							15	-- B	16							
							17	A --	18							
							19	-- B	20							
							21	A --	22							
							23	-- B	24							
							25	A --	26							
							27	-- B	28							
							29	A --	30							
							31	-- B	32							
							33	A --	34							
							35	-- B	36							
							37	A --	38							
							39	-- B	40							
							41	A --	42							
TOTAL CONNECTED BUS AMPS - PHASE A: 19 PHASE B: 19 CONN. KVA: 4.4 FULL NEUTRAL BUS: YES																
RATING VOLTAGE: 120/240V - 1 PHASE RATED AMPS: 100 NUMBER OF BRANCH POLES: 8																
RATING VOLTAGE: 120/240V - 1 PHASE																
BRANCH CIRCUIT DEVICES TO BE CIRCUIT BREAKERS. ENCLOSURE TYPE: NEMA 3R, SURFACE MOUNT																
N TO BE: 100 AMP CIRCUIT BREAKER																
CIRCUITS ALL TO BE GFI BREAKERS. HINGED DOOR: YES																
BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 22,000 AMP'S SYMMETRICAL OR BE SERIES RATED WITH MAIN																
IMPROVED MANUFACTURERS: CUTLER-HAMMER, SQUARE-D, SIEMENS, & GE ONLY. PANEL TYPE TO BE BOLTED CKT BREAKER.																
N LUGS: 1 SET(S) OF 3-#3 THWN CU AND #8 CU EG IN 2 INCH CONDUIT																



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



DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020
Scale: AS NOTED
Drawn: DPB
Checked: DPB
Job #: 2014-LBK

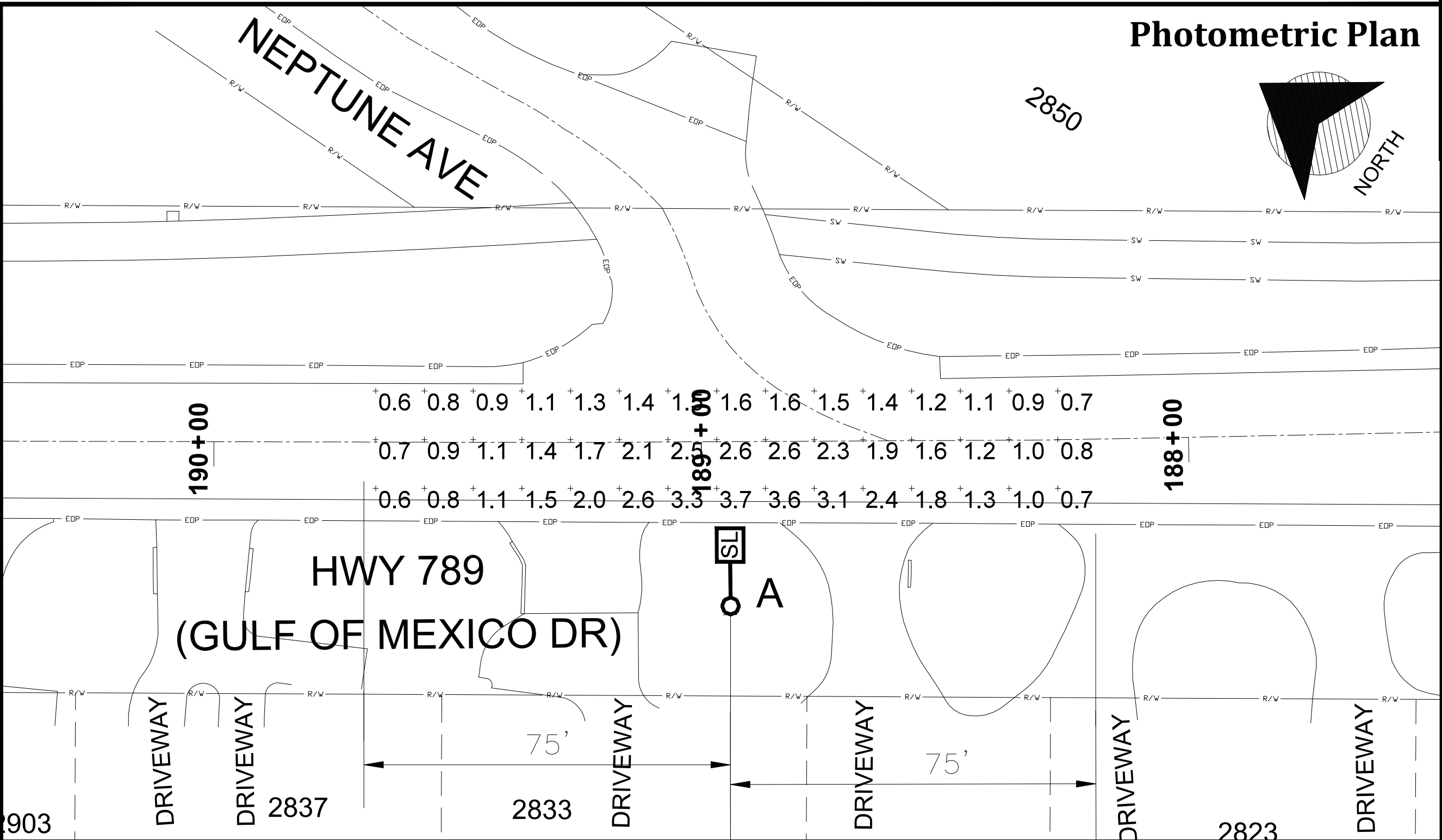
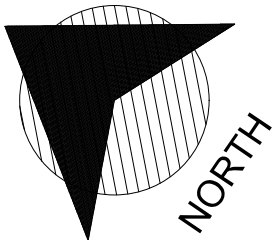
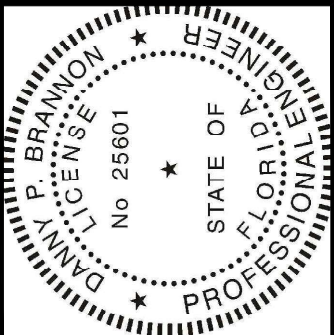
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of Sheets

Fixture Schedule AREA: MONROE STREET ROADWAY TRAVEL LANE ILLUMINATION FOR PLANNED 175 FT LUMINAIRE SPACING MOUNTED AT 32'.

Symbol	Label	QTY	Mfg	Catalog No.	Description	Lumen	LLF	Watts	Statistics						
	B	1	SIGNIFY Lumec	RFM-160W48LED3K-G2-R3M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R3M-HS OPTIC, WITH HOUSE-SIDE SHIELD	15586	0.9	160.74	Desc.	Avg	Max	Min	Max/Min	Avg/Min	MH
									Travel Lane	2.8 fc	3.6 fc	2.0 fc	1.8:1	1.4:1	32 FT.
									Travel Lane	1.3 fc	3.3 fc	0.4 fc	8.3:1	3.3:1	32 FT.

MATCHLINE-STA 105+20
FOR CONTINUATION SEE SHEET 2

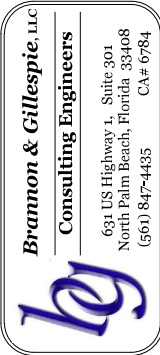
Photometric Plan



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Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA

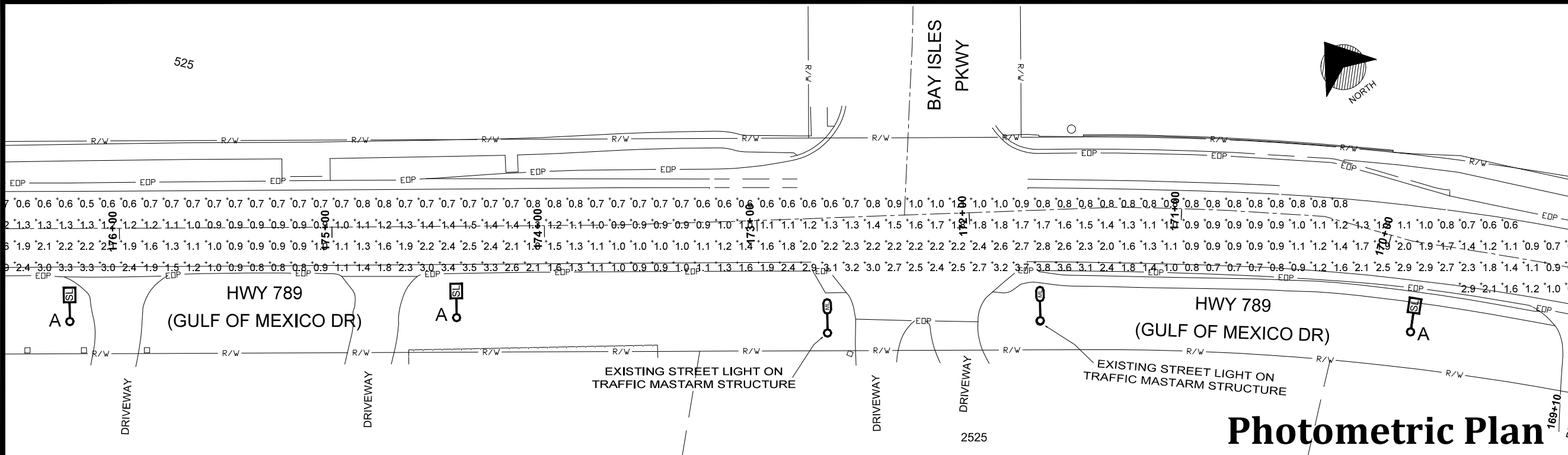
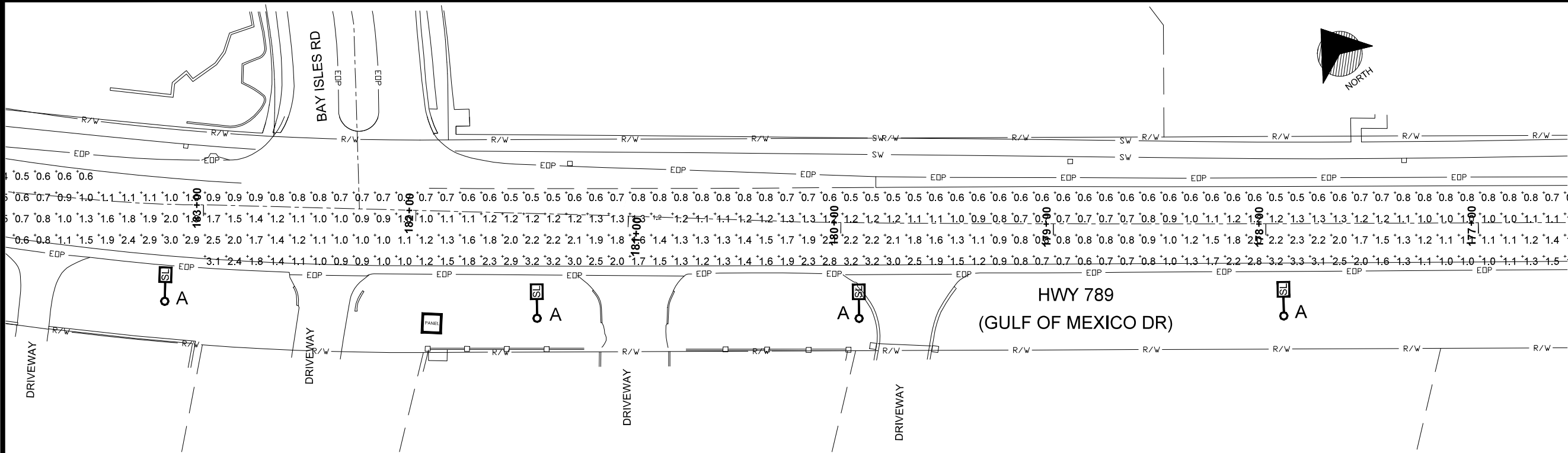


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Job #: 2014-LBK
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Fixture Schedule AREA: NEPTUNE AVE. ROADWAY TRAVEL LANE ILLUMINATION FOR PLANNED 175 FT LUMINAIRE SPACING MOUNTED AT 32'.

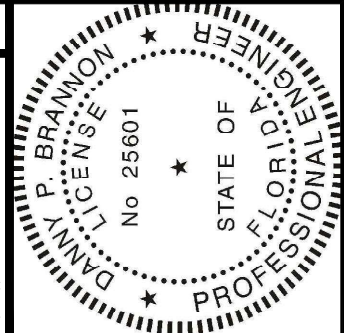
Symbol	Label	QTY	Mfg	Catalog No.	Description	Lumen	LLF	Watts	Statistics						
	A	1	SIGNIFY Lumec	RFM-160W48LED3K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	15586	0.9	160.74	Desc.	Avg	Max	Min	Max/Min	Avg/Min	MH
									Travel Lane	1.6 fc	3.6 fc	0.6 fc	6.0:1	2.7:1	32 FT.

MATCHLINE-STA 105+20
FOR CONTINUATION SEE SHEET 2



Fixture Schedule AREA: BAY ISLES PARKWAY ROADWAY TRAVEL LANE ILLUMINATION FOR PLANNED 175 FT LUMINAIRE SPACING MOUNTED AT 32'

Symbol	Label	QTY	Mfg	Catalog No.	Description	Lumen	LLF	Watts	Statistics						
	A	7	SIGNIFY Lumec	RFM-160W48LED3K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	15586	0.9	160.74	Desc.	Avg	Max	Min	Max/Min	Avg/Min	MH
									Travel Lane	1.3 fc	3.8 fc	0.4 fc	9.5:1	3.3:1	32 FT.

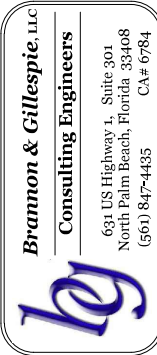


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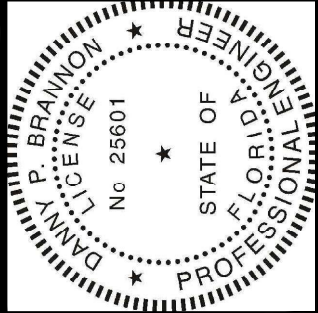
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



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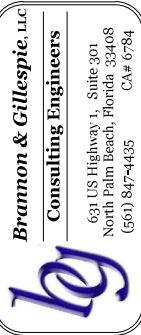


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DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



Date: 12/01/2020

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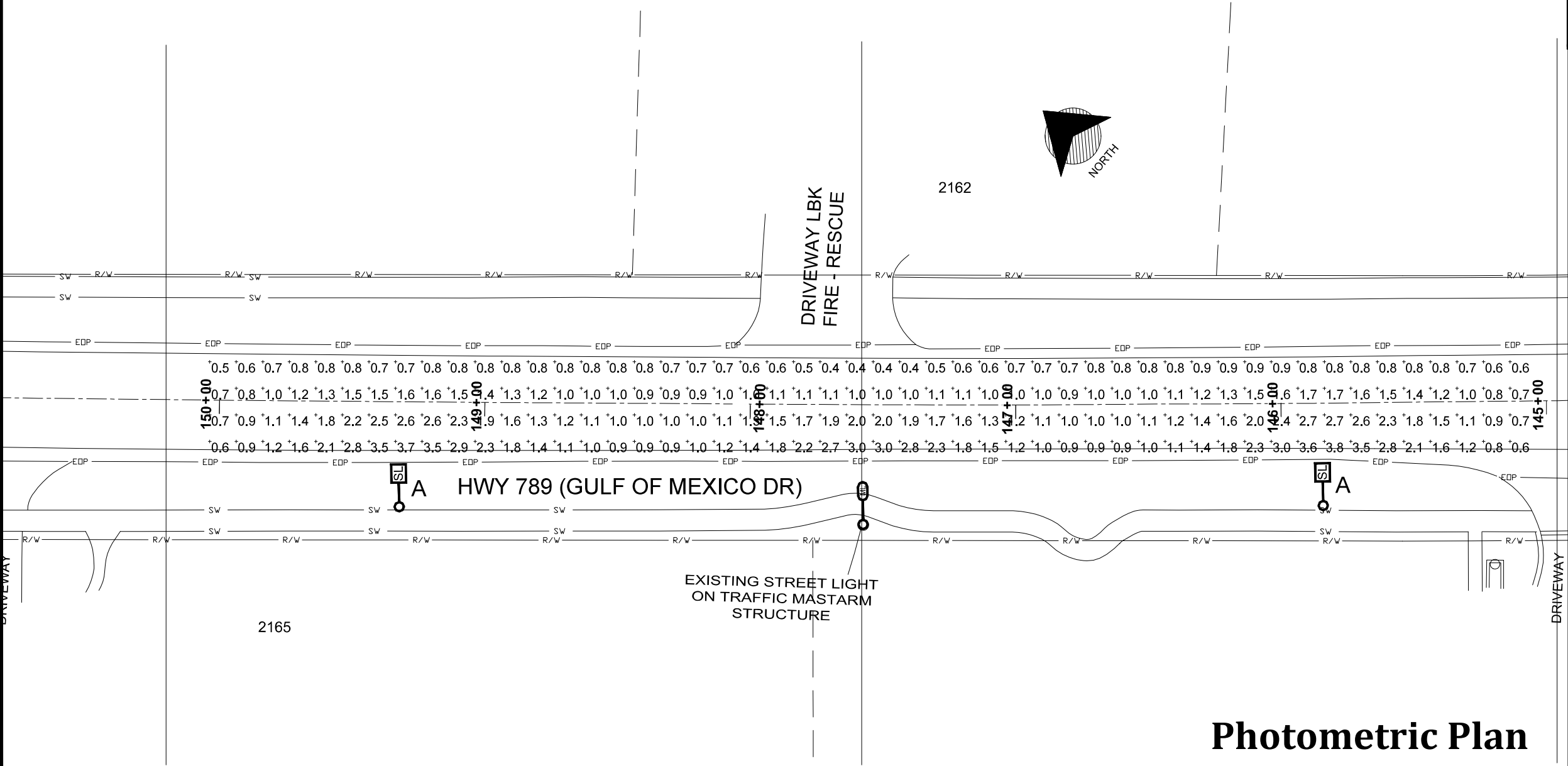
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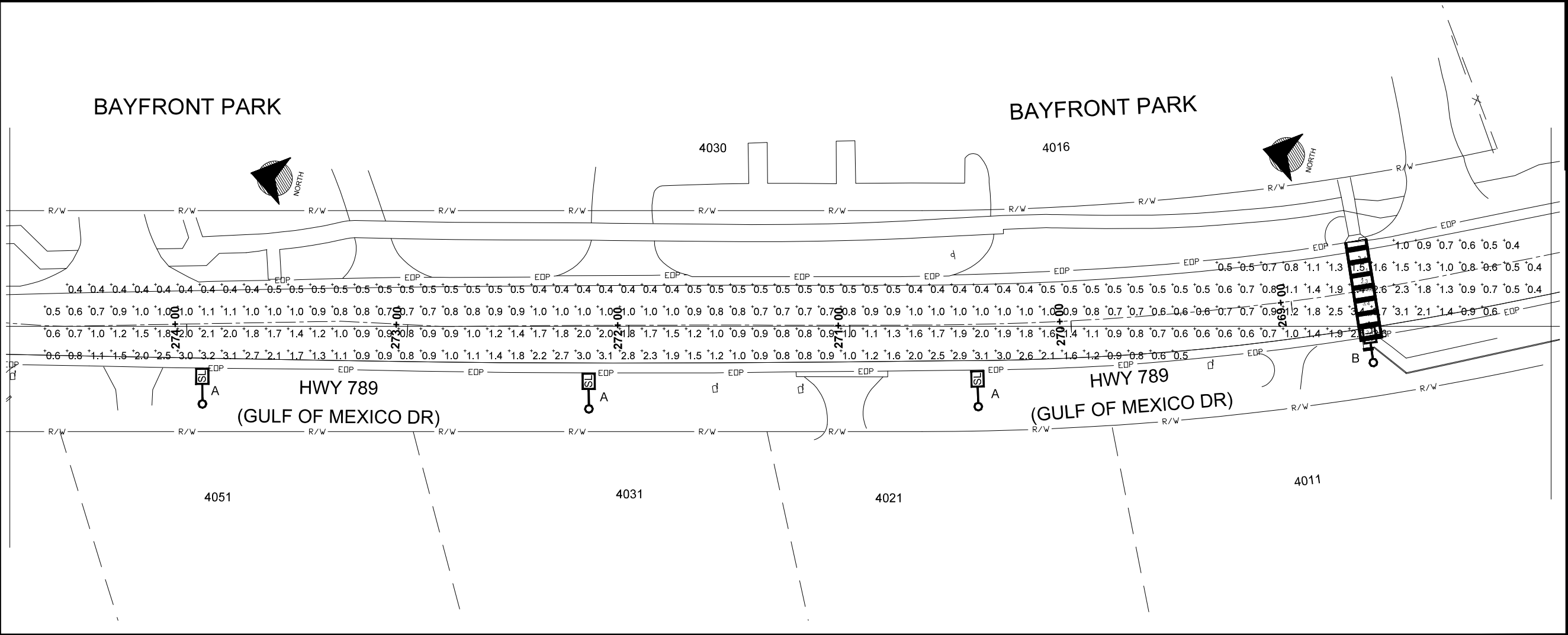
Photometric Plan

Fixture Schedule

AREA: LONGBOAT KEY FIRE-RESCUE

ROADWAY TRAVEL LANE ILLUMINATION FOR PLANNED 175 FOOT LUMINAIRE
SPACING MOUNTED AT 32 Feet.

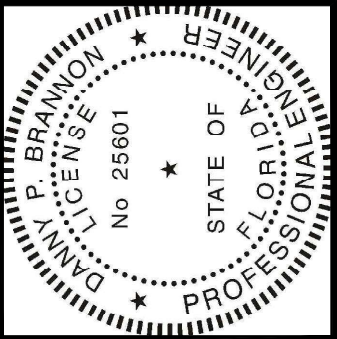
Symbol	Label	QTY	Mfg	Catalog No.	Description	Lumen	LLF	Watts	Statistics						
	A	2	SIGNIFY Lumec	RFM-160W48LED3K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	15586	0.9	160.74	Desc.	Avg	Max	Min	Max/Min	Avg/Min	MH
									Travel Lane	1.3 fc	3.7 fc	0.4 fc	9.3:1	3.3:1	32 FT.



Photometric Plan

Fixture Schedule AREA: BAYFRONT PARK ROADWAY TRAVEL LANE ILLUMINATION FOR PLANNED 175 FT LUMINAIRE SPACING MOUNTED AT 32'.

Symbol	Label	QTY	Mfg	Catalog No.	Description	Lumen	LLF	Watts	Statistics						
	B	1	SIGNIFY Lumec	RFM-160W48LED3K-G2-R3M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R3M-HS OPTIC, WITH HOUSE-SIDE SHIELD	15586	0.9	160.74	Desc.	Avg	Max	Min	Max/Min	Avg/Min	MH
									Travel Lane	1.1 fc	3.7 fc	0.4 fc	9.3:1	2.8:1	32 FT.
	A	3	SIGNIFY Lumec	RFM-160W48LED3K-G2-R2M-HS	RoadFocus LED Cobra Head - Medium (RFM), 48 LED's, 3000K CCT, TYPE R2M-HS OPTIC, WITH HOUSE-SIDE SHIELD	15586	0.9	160.74	Crosswalk	2.6 fc	3.9 fc	1.4 fc	2.8:1	1.9:1	32 FT.



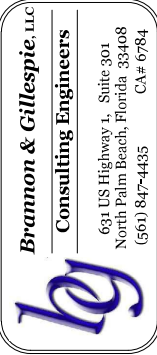
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Danny P Brannon
Date: 2021.05.06
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Danny Brannon

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FLORIDA P. E. NO. 25601

DATE

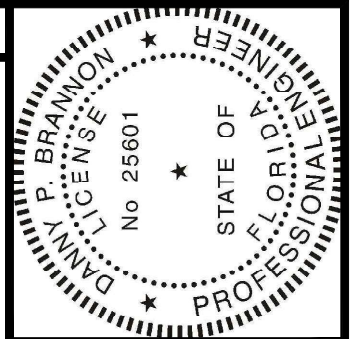
Town of Longboat Key



DRAWINGS FOR:
FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



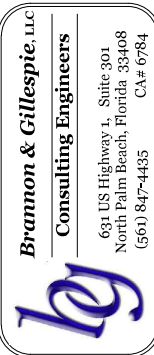
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P5 OF 5
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FLORIDA P. E. NO. 25601

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DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA

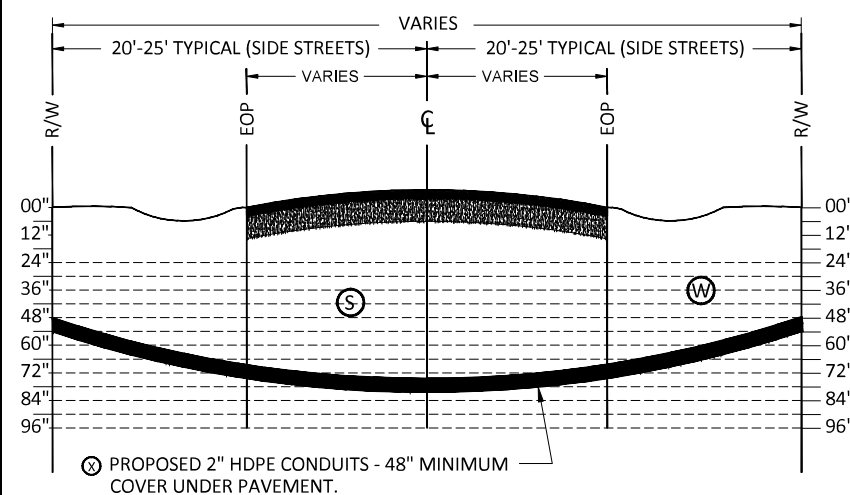


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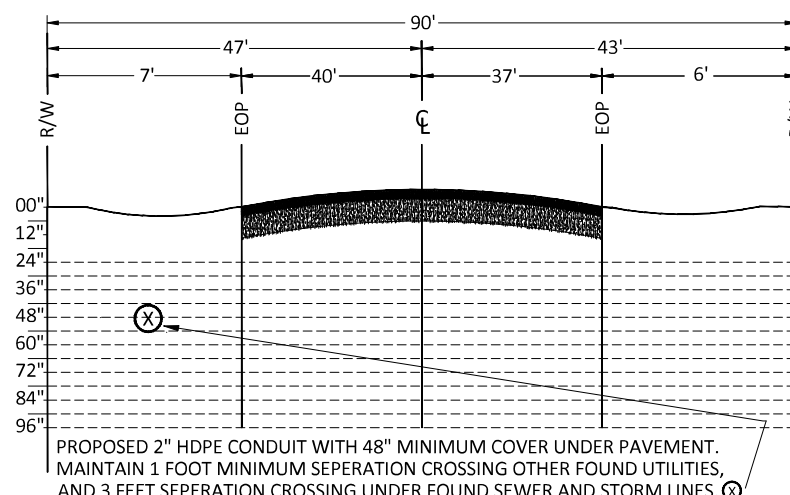
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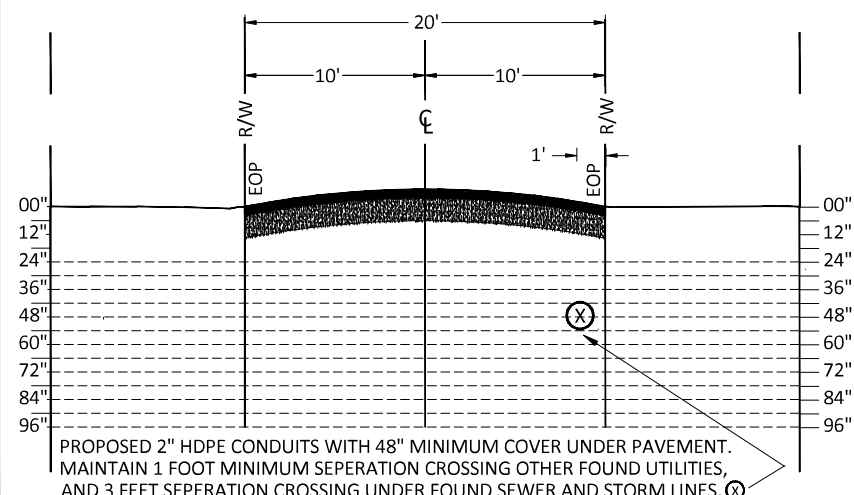
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TYPICAL DRIVEWAY CROSSING
(NTS)**



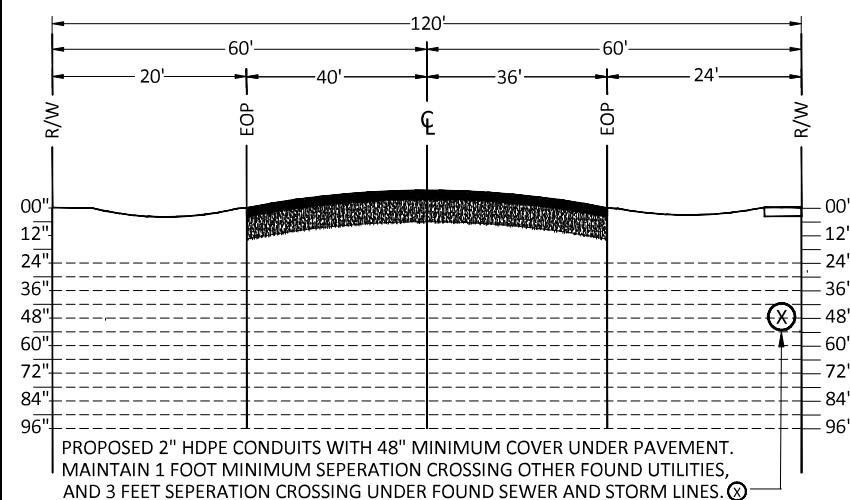
**CROSS SECTION E-E
BAY ISLES ROAD LOOKING EAST(NTS)**



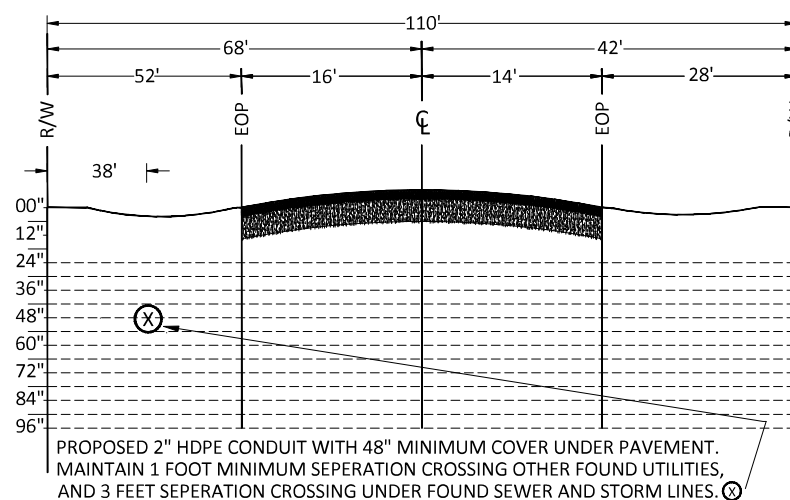
**CROSS SECTION H-H
TWIN SHORES BLVD LOOKING EAST(NTS)**



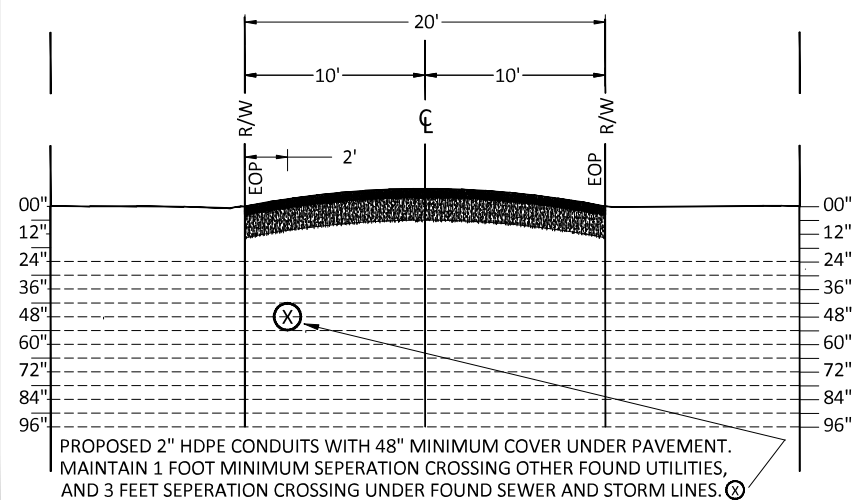
**CROSS SECTION C-C
HARBORSIDE DRIVE LOOKING EAST(NTS)**



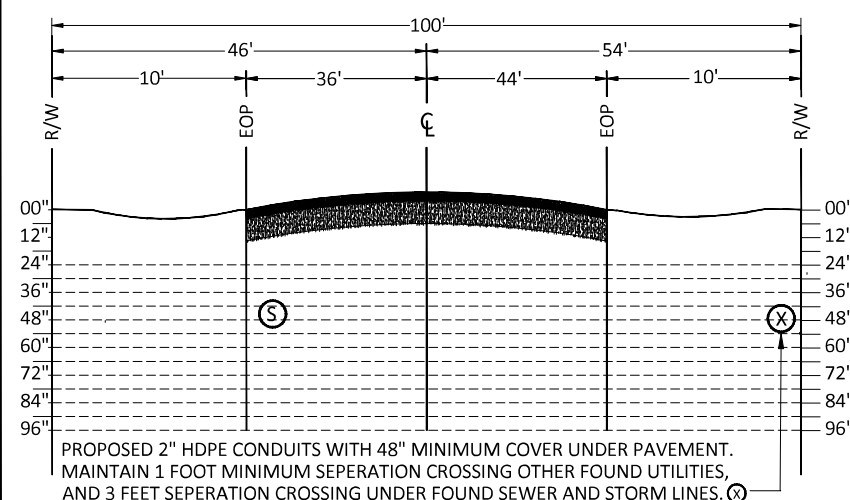
**CROSS SECTION F-F
TRITON BEND LOOKING EAST(NTS)**



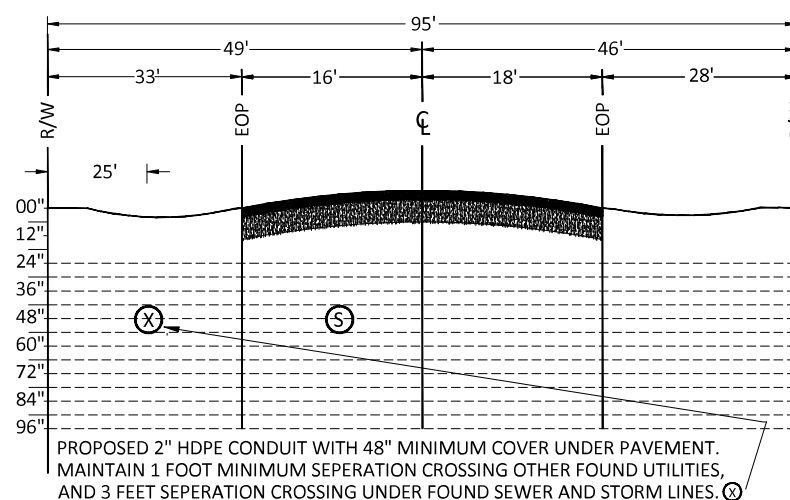
**CROSS SECTION I-I
BEACH HARBOR CLUB DRIVE LOOKING EAST(NTS)**



**CROSS SECTION D-D
BAY ISLES PARKWAY LOOKING EAST(NTS)**



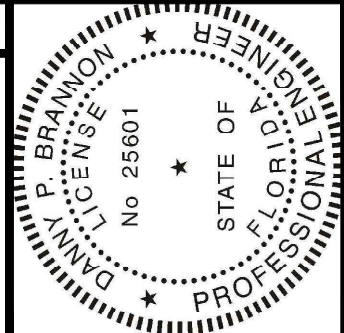
**CROSS SECTION G-G
BUTTONWOOD DRIVE LOOKING EAST(NTS)**



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

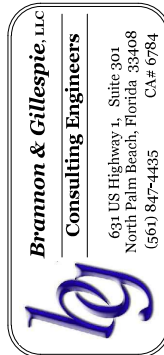


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Danny P. Brannon
Date: 2021.05.06
17:22:09 -04'00'

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

DATE

Town of Longboat Key



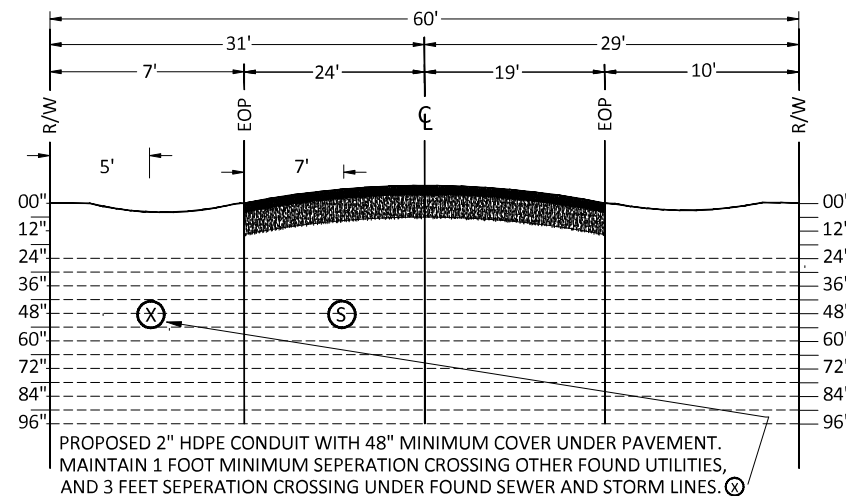
DRAWINGS FOR:
**FIBER OPTIC AND STREET
LIGHTING UTILITY
PHASE 3 CONSTRUCTION**
LONGBOAT KEY, FLORIDA



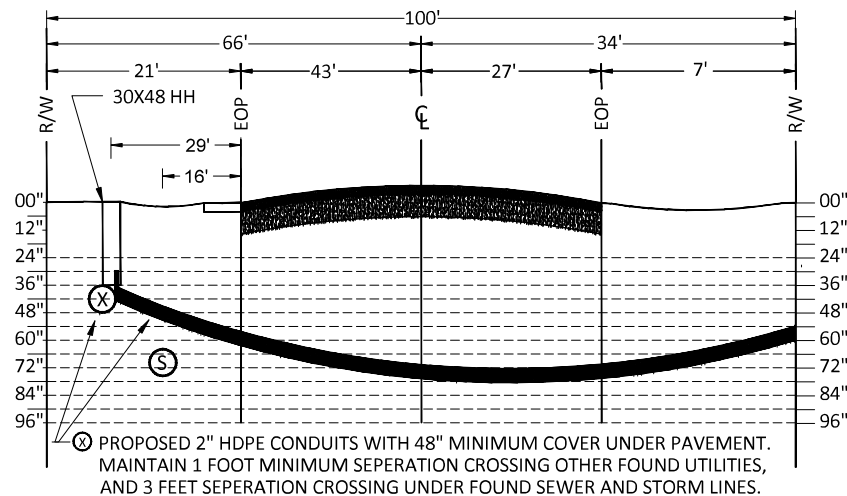
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of Sheets

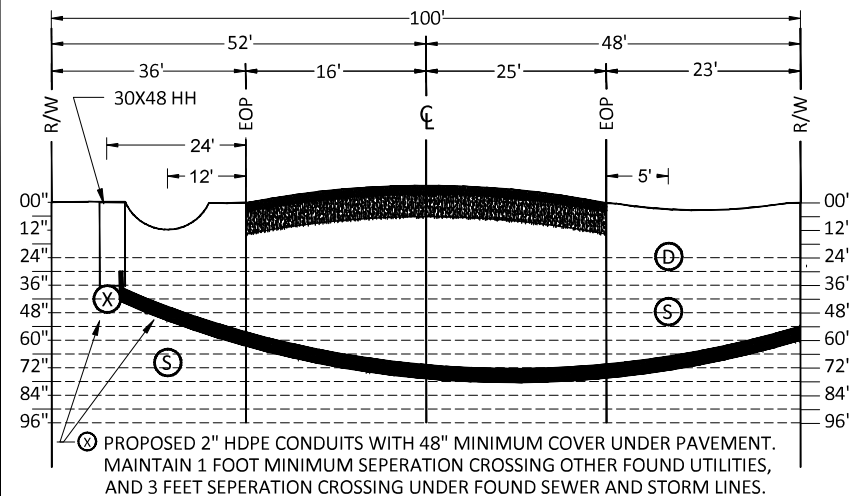
**CROSS SECTION J-J
ROYAL ROAD LOOKING EAST(NTS)**



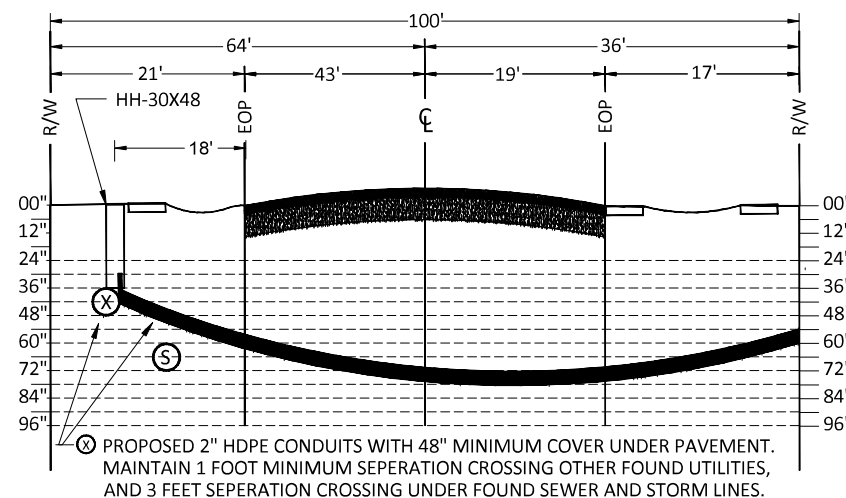
**CROSS SECTION L-L
GULF OF MEXICO DRIVE AT BAY ISLES PKWY LOOKING NORTH
(NTS)**



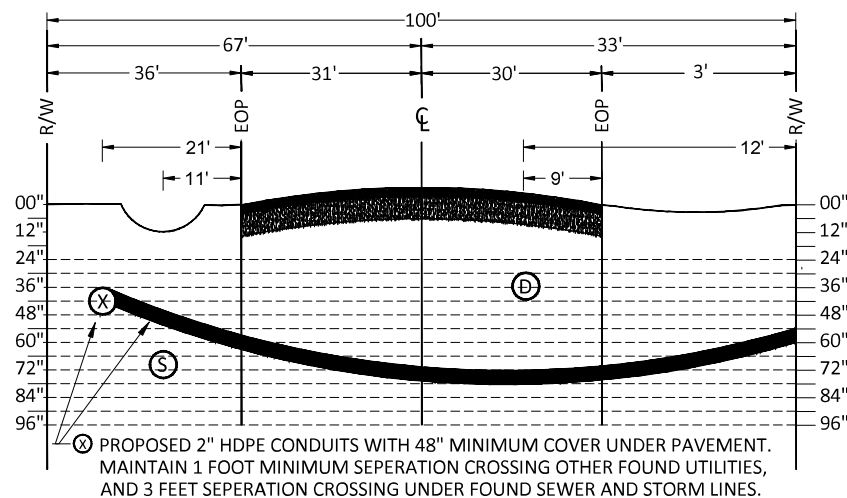
**CROSS SECTION O-O
GULF OF MEXICO DRIVE AT TRITON BEND LOOKING NORTH
(NTS)**



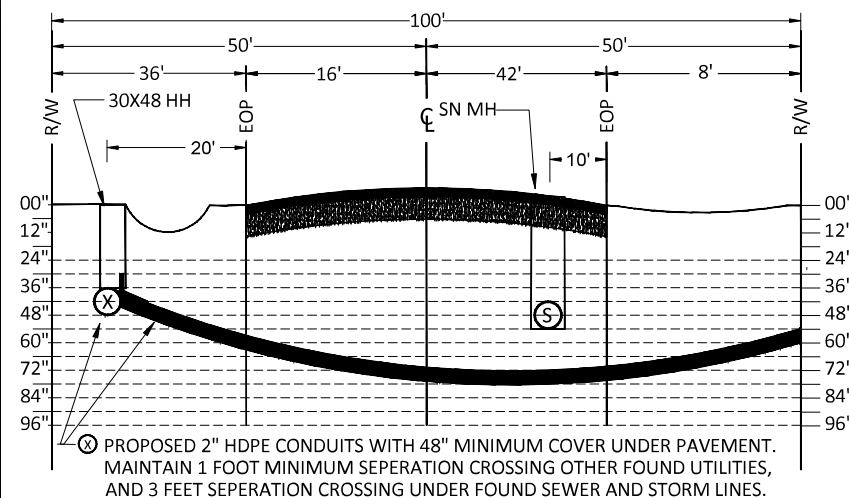
**CROSS SECTION K-K
GULF OF MEXICO DRIVE LOOKING NORTH
(NTS)**



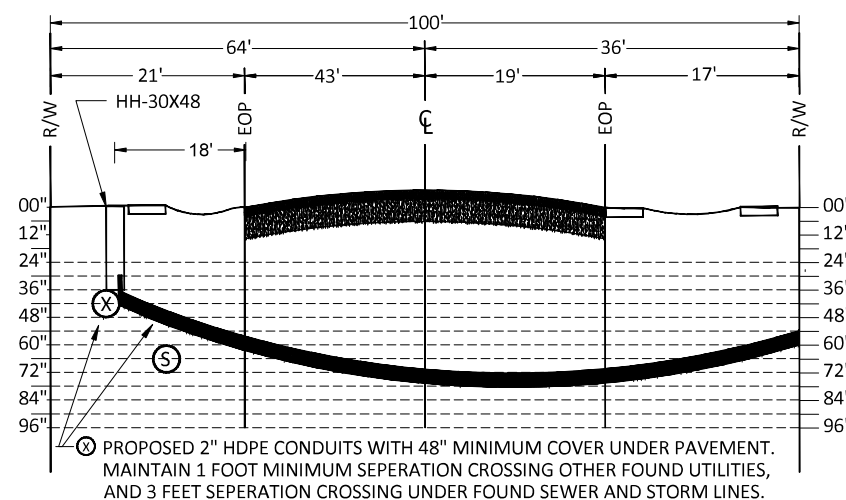
**CROSS SECTION M-M
GULF OF MEXICO DRIVE AT BAY ISLES ROAD LOOKING NORTH
(NTS)**



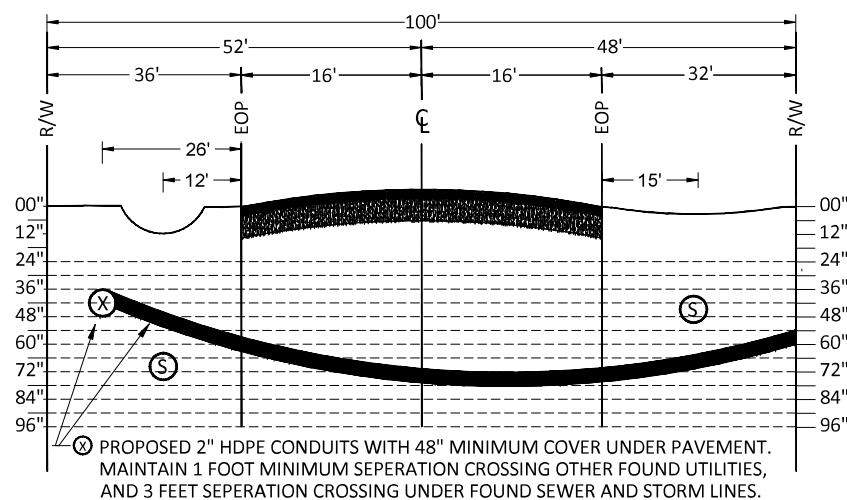
**CROSS SECTION P-P
GULF OF MEXICO DRIVE AT BUTONWOOD DRIVE LOOKING NORTH
(NTS)**



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



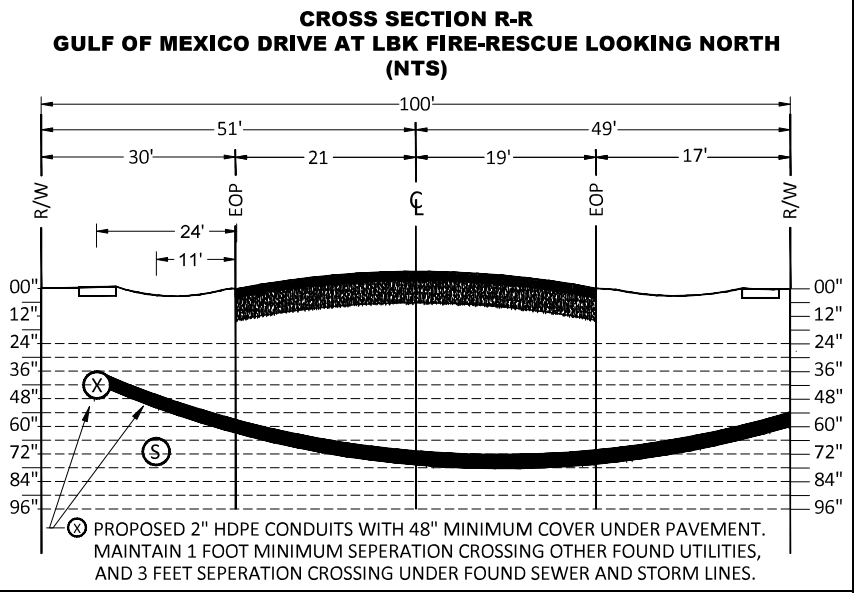
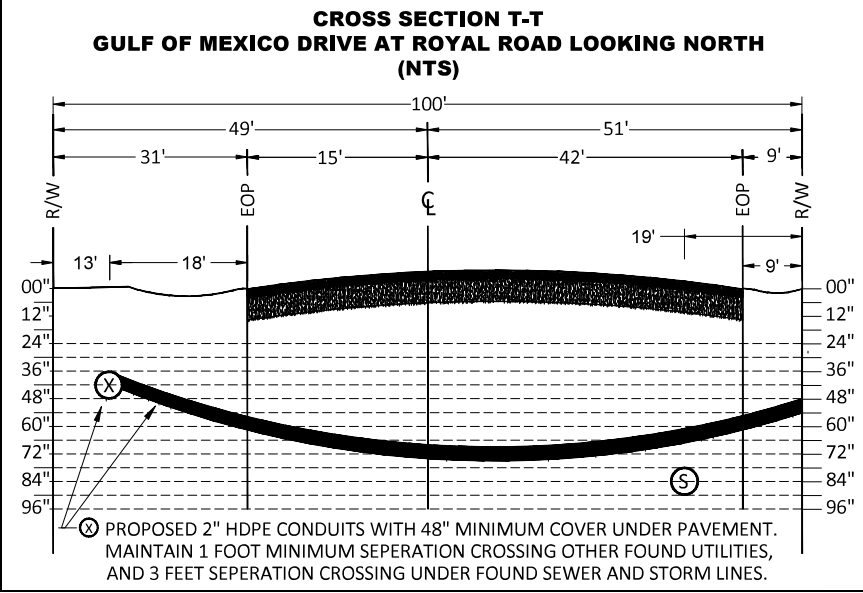
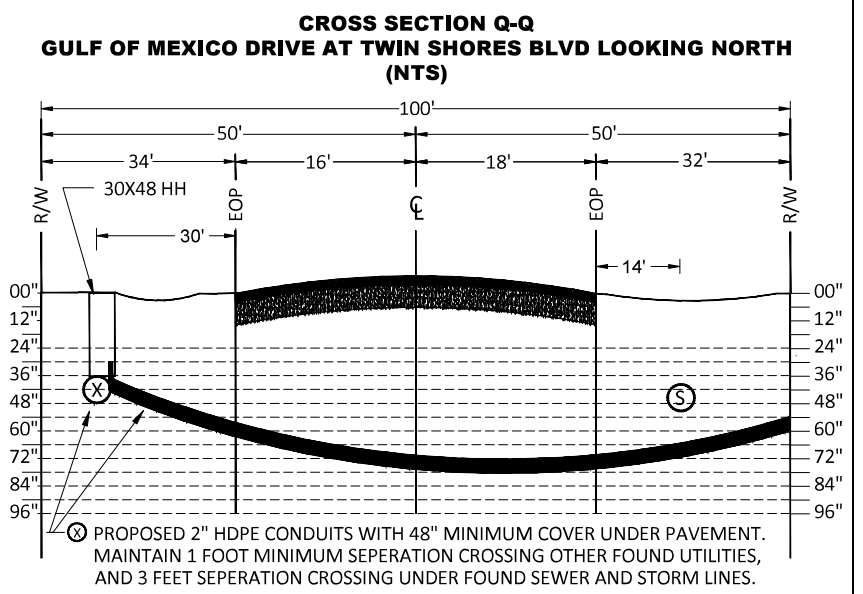
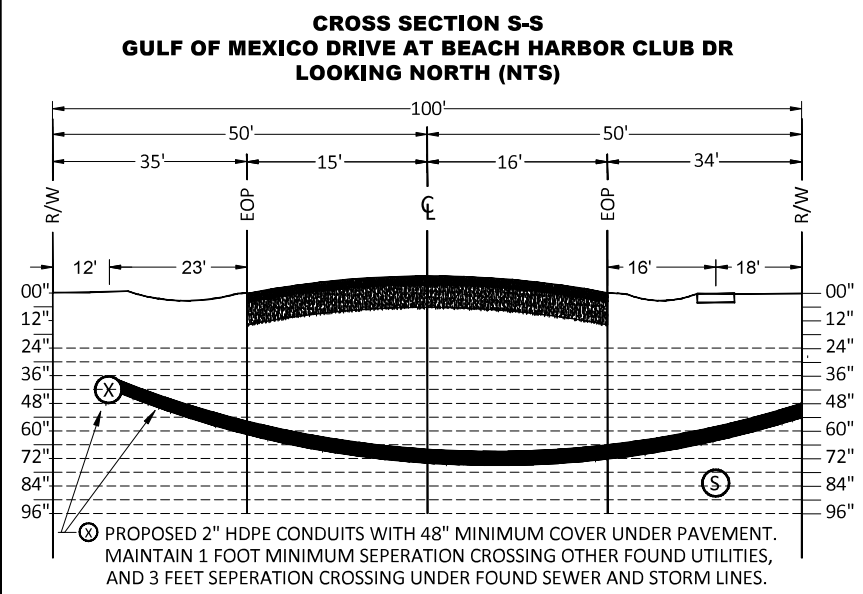
**CROSS SECTION N-N
GULF OF MEXICO DRIVE AT NEPTUNE AVE LOOKING NORTH
(NTS)**



SYMBOL LEGEND

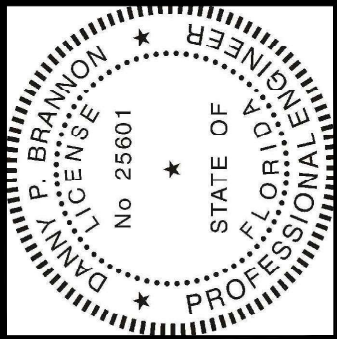
- | | |
|---|--------------------|
| (T) TELEPHONE/CABLE TV | (D) STORM DRAIN |
| (W) WATER | (E) ELECTRIC POWER |
| (X) PROPOSED TOWN STREET LIGHT & FIBER OPTIC FACILITIES (2" CONDUITS) | (G) GAS |
| | (S) SEWER |

Cross Sections



- 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 |

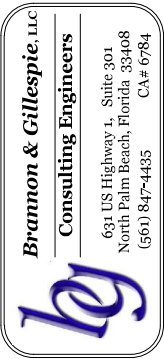
Cross Sections



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DRAWINGS FOR:
FIBER OPTIC AND STREET LIGHTING UTILITY
PHASE 3 CONSTRUCTION
LONGBOAT KEY, FLORIDA



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