U.S. Department of Homeland Security
United States Coast Guard

Commander
Seventh Coast Guard District

909 SE 1st Avenue
Miami, Florida 33131
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16591/3910
June 24, 2014

PUBLIC NOTICE (08-14)

All interested parties are notified that the Commander, Seventh Coast Guard District has received an application from the Florida Department of Transportation, District Two, requesting approval of the location and plans for a proposed new bridge over a navigable waterway of the United States.

WATERWAY AND LOCATION: Atlantic Intracoastal Waterway (AICW), mile 739.2, also known as Sister's Creek approximately 0.3 miles north of the confluence with the St. Johns River, at Jacksonville, FL. The proposed fixed bridge will replace a bascule lift bridge on Heckscher Drive (SR105) between Pine Island and Fanning Island, Duval County, FL., Latitude 30° 23' 37.824"N, Longitude -81° 27' 34.9194" W, (Lat 30.39384, Long -81.4597).

CHARACTER OF WORK: The proposed project consists of replacement of the existing bascule bridge, built in 1952, with a new high-level fixed-span bridge. The proposed new bridge will provide two 12 ft travel lanes, two 10 ft outside shoulders, and two 6 ft outside sidewalks. The out-to-out width of the proposed bridge will vary from approximately 60' 5" to approximately 71' 11".

MINIMUM NAVIGATIONAL CLEARANCES:

Existing
Horizontal: 90 ft between face of fenders

Vertical:
22.5 ft above Mean High Water (bascule closed)
Unlimited vertical clearance (bascule open)

Proposed
Horizontal: 125 ft between face of fenders

Vertical:
65ft above Mean High Water

ENVIRONMENTAL CONSIDERATIONS:
The Federal Highway Administration, the lead federal agency, has determined that the proposed action is a categorical exclusion (CE) for the purposes of the National Environmental Policy Act. The CE was most recently evaluated on 12 August 2013. The documents are available for review at the above address, Monday through Friday, 7:30 a.m. to 4:00 p.m. The bridge is located in the floodplain. The 100-year flood elevation is 10.4 ft, while elevation of the low chord of the bridge is approximately 31 ft at the abutments; elevations are reference to NAVD 88 datum. Approximately 1486 cubic yards of fill will be placed below mean high water elevation for the construction of the bridge and approaches. The project will result in permanent impacts to 1.64 acres of saltmarsh wetlands and temporary impact to 0.78 acres of saltmarsh wetlands. Wetland impacts will be offset by the purchase of mitigation credits from the North Florida Saltmarsh Mitigation Bank and the Longleaf and Loblolly Mitigation Banks. Water Quality

Certification (WQC) pursuant to public law 92-500, 33 USC Section 1341, as amended was issued by the St. Johns River Water Management District in an Environmental Resource Permit # 4-031-131976-1 dated 24 March 2014. No parklands, wildlife refuges, or historic properties will be affected by the project. Temporary impacts to navigation during construction are anticipated. Navigational impacts include crane barges working in and around the navigation channel and intermittent reoccurring blockage of the navigation channel. Mariners will be notified of the details of in water construction activities which will impact the navigation channel at and around the bridge site. Details of navigational impacts include dates and durations of full and partial channel blockage will be disseminated to mariners via the Coast Guard's Local Notice to Mariners (LNM).

SOLICITATION OF COMMENTS:

Mariners are requested to comment on the proposed vertical and horizontal navigational clearances and other navigational safety issues, including but not limited to impacts due to construction activities.

Interested parties are requested to express their views, in writing, on the proposed bridge project including its possible impact on minority and/or low income population, if any, giving sufficient detail to establish a clear understanding of their reasons for support of, or opposition to, the proposed work. Comments will be received for the record at the office of: Commander (dpb), Seventh Coast Guard District, 909 SE 1st Ave., Ste 432, Miami, Florida 33131-3028, for a 30-day period from the date of this public notice. Our project manager for this application is Mr. Randall Overton. He can be contacted by telephone at (305) 415-6736, by mail at the above address, or e-mail at randall.d.overton@uscg.mil. Comments received will be made part of the case record.

Map of location and plans attached.

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"This is a web-searchable copy and is not the official, signed version; however, other than the signature being omitted, it is a duplicate of the official version."

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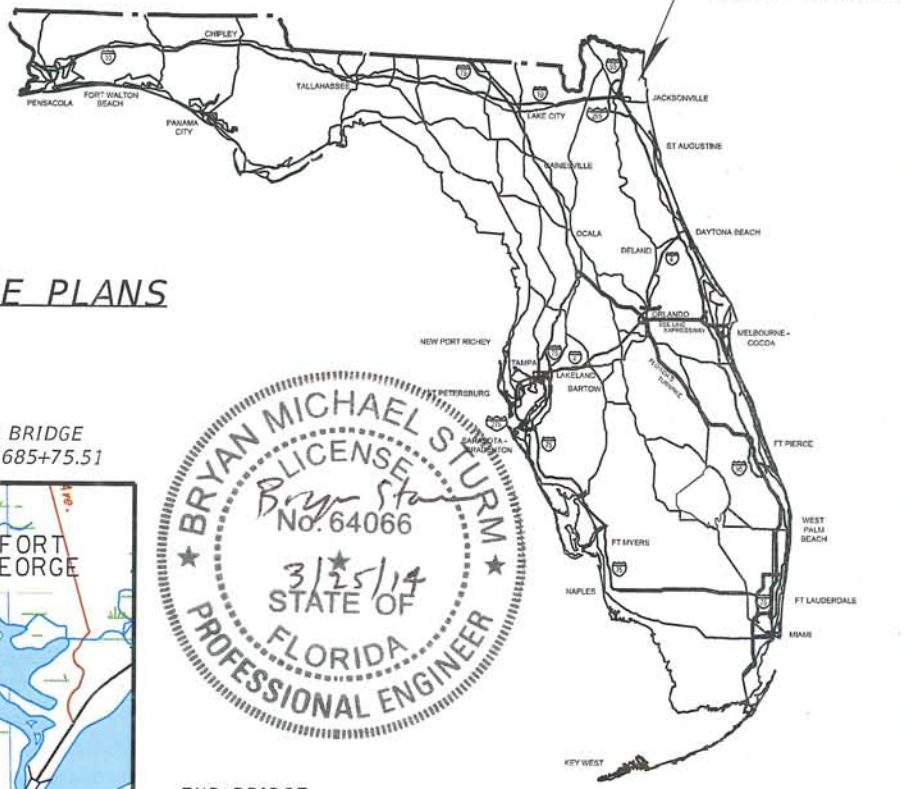
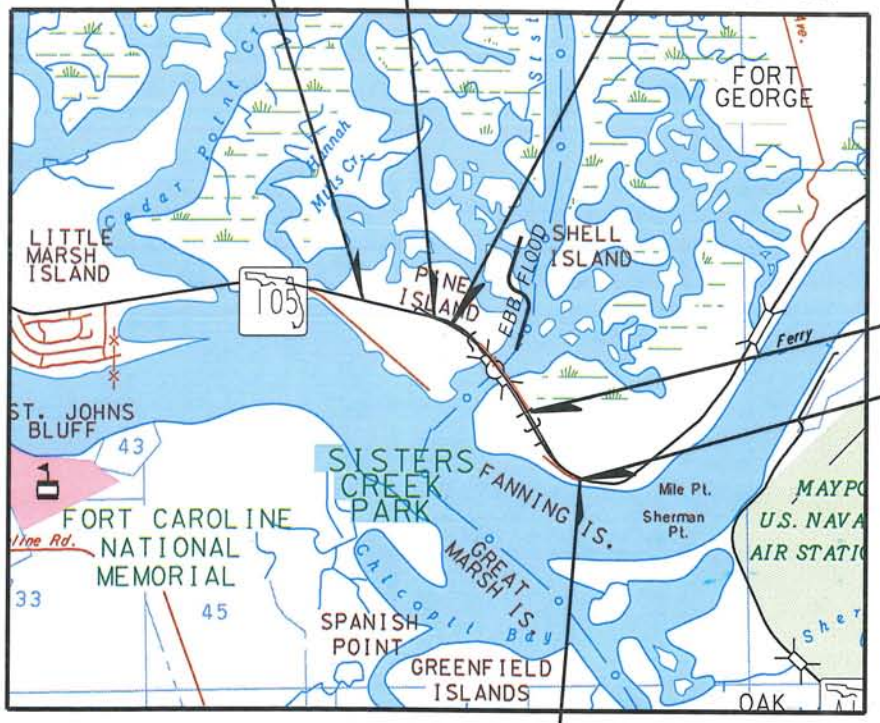
BRIDGE PLANS



STATION EQUATION:
STA. 677+06.00 ℄ SURVEY SR105 (BK)
STA. 1677+06.00 ℄ CONST. SR 105 (AH)

BEGIN PROJECT
STA. 660+30.00

BEGIN BRIDGE
STA. 1685+75.51



END BRIDGE
STA. 1718+63.93

END PROJECT
STA. 743+60.00

STATION EQUATION:
STA. 1739+90.76 ℄ CONST. SR 105 (BK)
STA. 740+13.94 ℄ SURVEY SR105 (AH)

LOCATION MAP

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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0 ½ 1
Mile

VESSEL COLLISION NOTES:

This bridge has been designed to withstand vessel impact per AASHTO LRFD Method II. The following static loads were used in design.

Pier Number	Transverse Ship Impact Load (Kips)	Longitudinal Ship Impact Load (Kips)
11-12	1900	950
13	1700	850

APPLICANT:
FLORIDA DEPARTMENT OF TRANSPORTATION

CONSULTANT:
REYNOLDS, SMITH AND HILLS, INC.

EXISTING BRIDGE NO.: 720061
PROPOSED BRIDGE NO.: 720699
SR 105 OVER SISTERS CREEK (AICW)
M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK
CITY OF JACKSONVILLE, DUVAL COUNTY, FL

LOCATION MAP

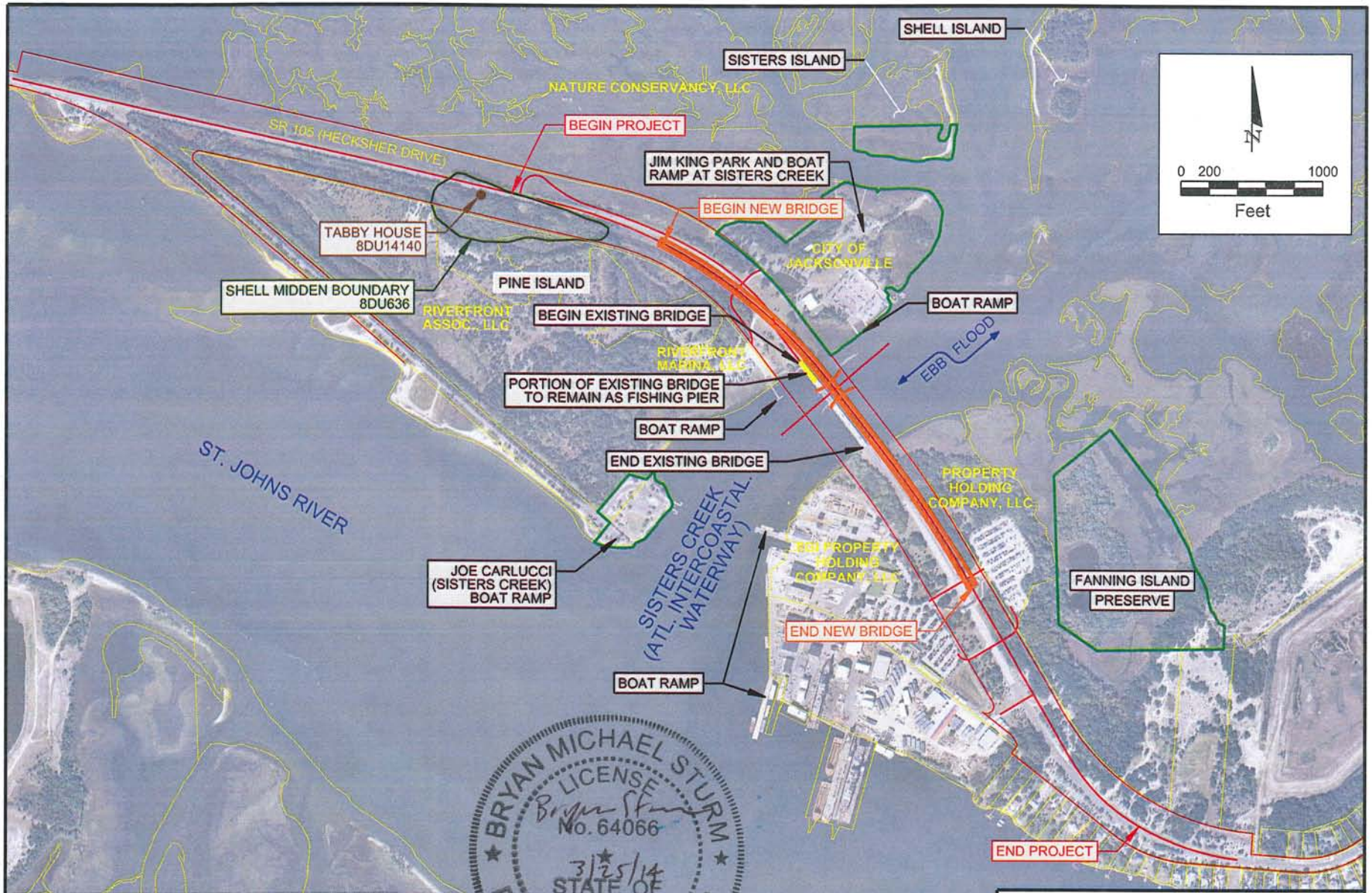
SHEET NO. 1 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM
NAVD-88

PLANS DATE
03/21/2014

$USERS $DATES $TIMES $FILES

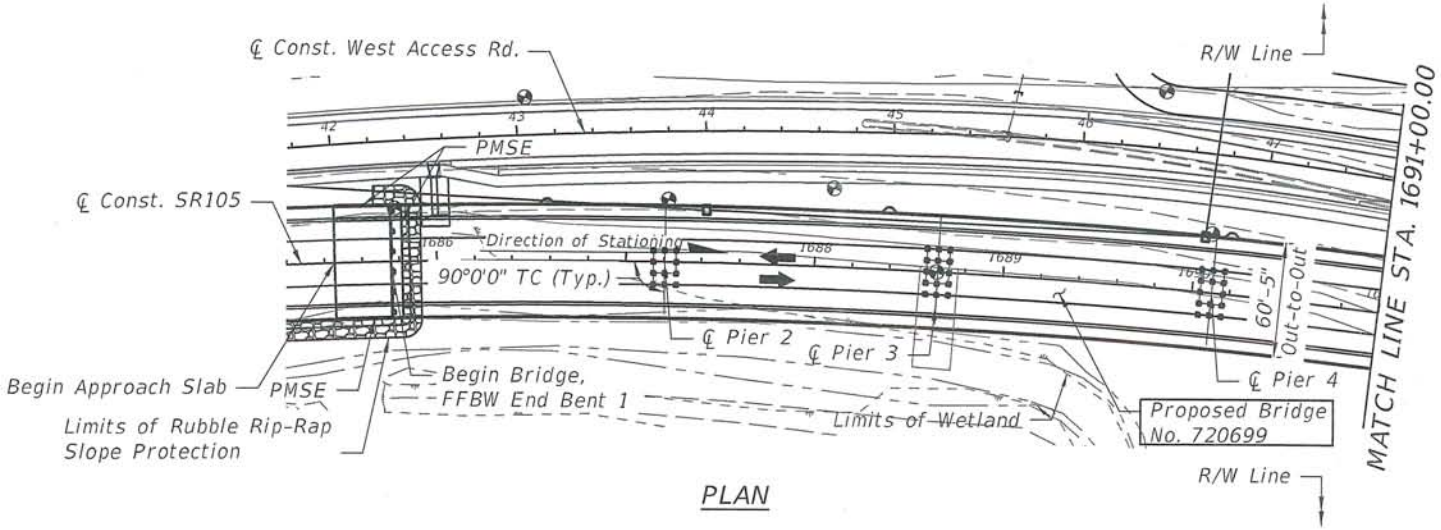


BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

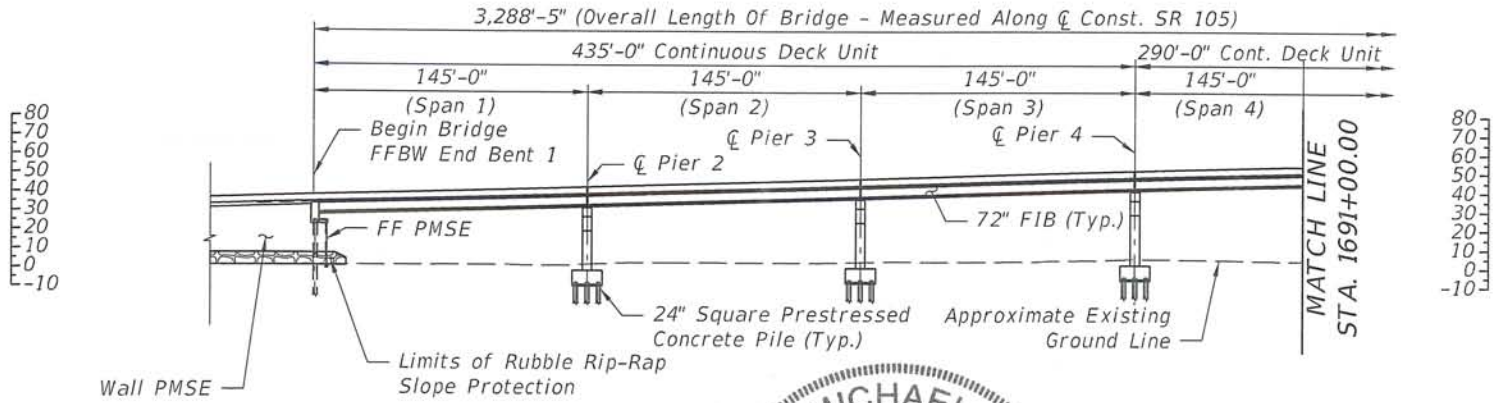
APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
VICINITY MAP	SHEET NO. 2 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	NAVD-88
PLANS DATE	03/21/2014



PLAN



ELEVATION

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

LEGEND:

- ⊕ = Boring Locations
- PMSE = Permanent MSE Wall
- FIB = Florida I-Beam

0 20 100
Feet

HORIZ. CURVE SR105-1

P.I. STA. 1689+50.54
Δ = 38°58'26" (RT)
D = 1°37'45"
R = 3,517.00'
L = 2,392.35'
T = 1,244.54'
P.C. STA. 1677+06.00
P.T. STA. 1700+98.35

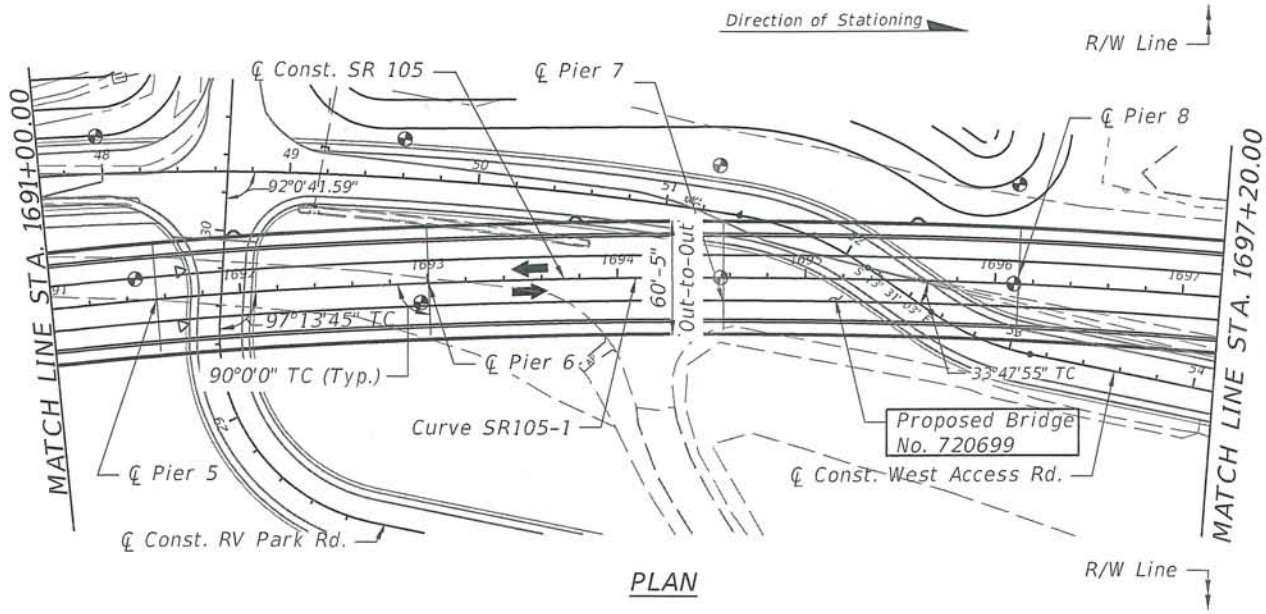
HORIZ. CURVE SR105-2

P.I. STA. 1712+47.67
Δ = 7°26'00" (RT)
D = 0°45'00"
R = 7,639.00'
L = 991.05'
T = 496.22'
P.C. STA. 1707+51.45
P.T. STA. 1717+42.50

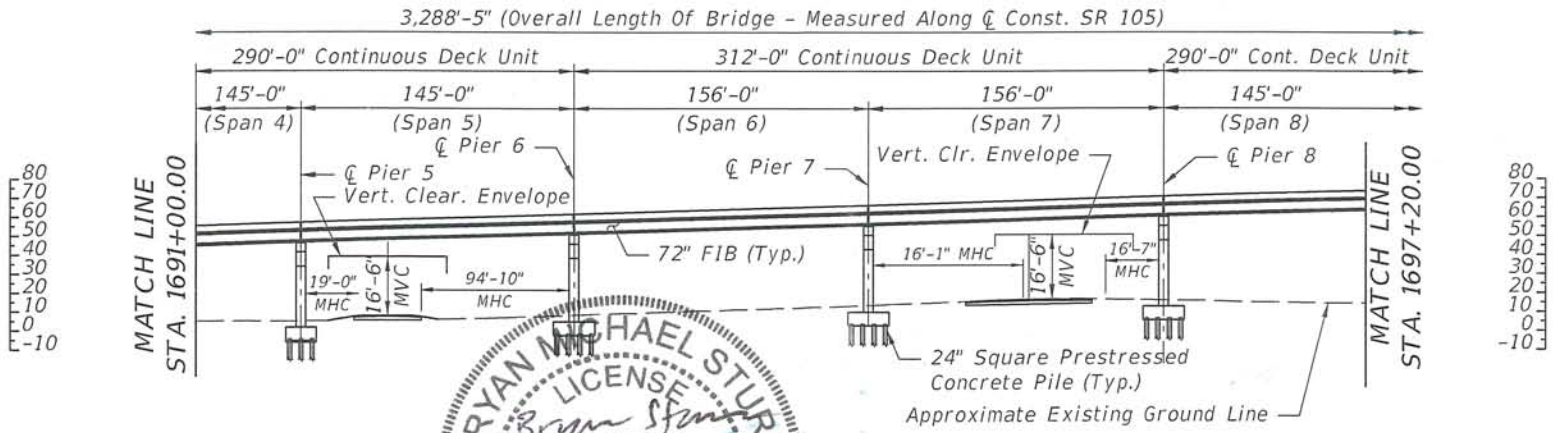
APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
PLAN AND ELEVATION (1 OF 5)	SHEET NO. 3 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	PLANS DATE
NAVD-88	03/21/2014



PLAN



ELEVATION

0 20 100
Feet

LEGEND:

- ⊕ = Boring Locations
- FIB = Florida I-Beam
- MVC = Minimum Vertical Clearance
- MHC = Minimum Horizontal Clearance

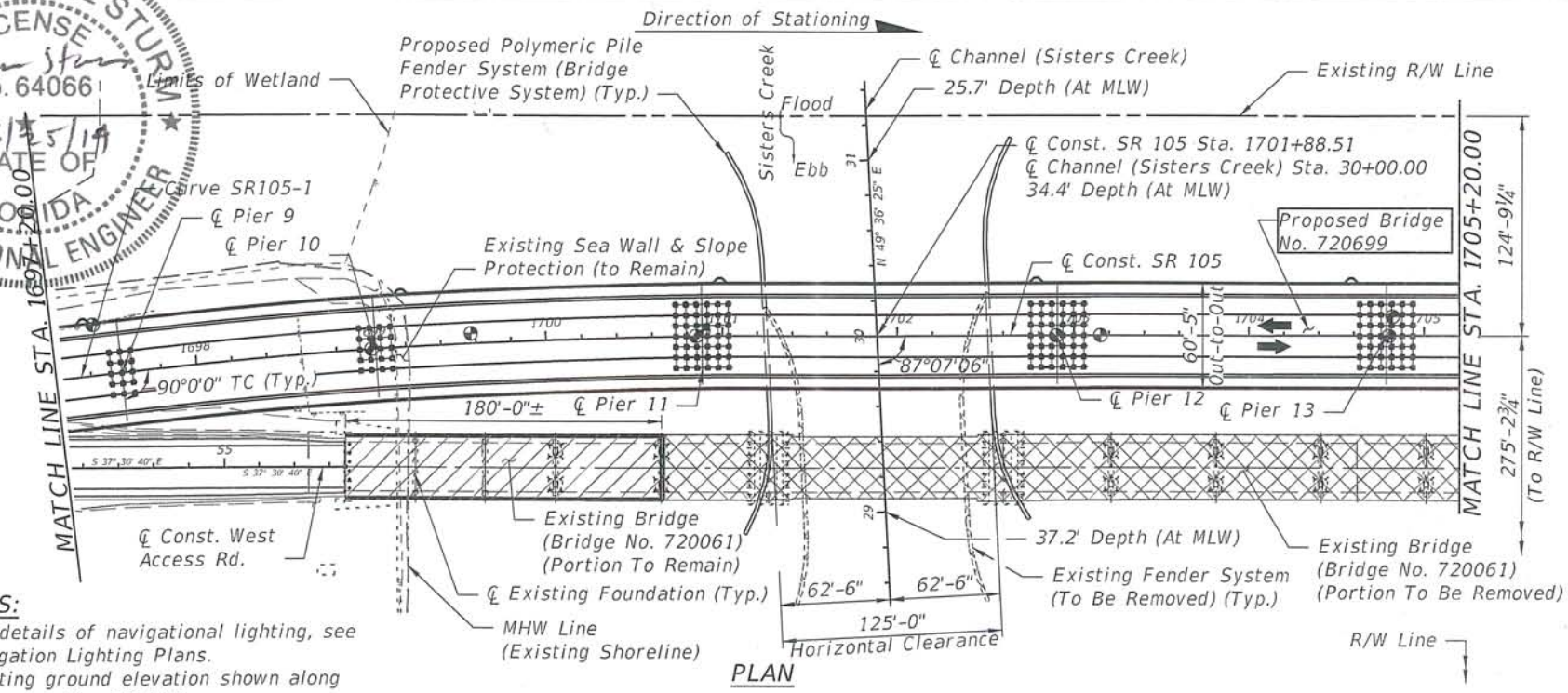
BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
PLAN AND ELEVATION (2 OF 5)	SHEET NO. 4 OF 14

VERT. DATUM	NAVD-88
PLANS DATE	03/21/2014

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

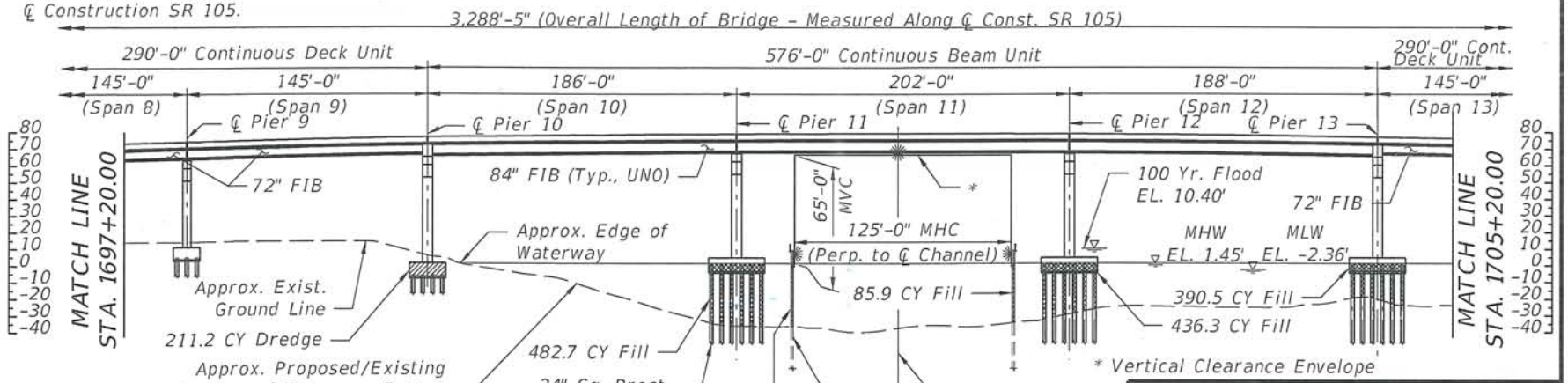
BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER



PLAN

NOTES:

1. For details of navigational lighting, see Navigation Lighting Plans.
2. Existing ground elevation shown along ℄ Construction SR 105.



ELEVATION

LEGEND:

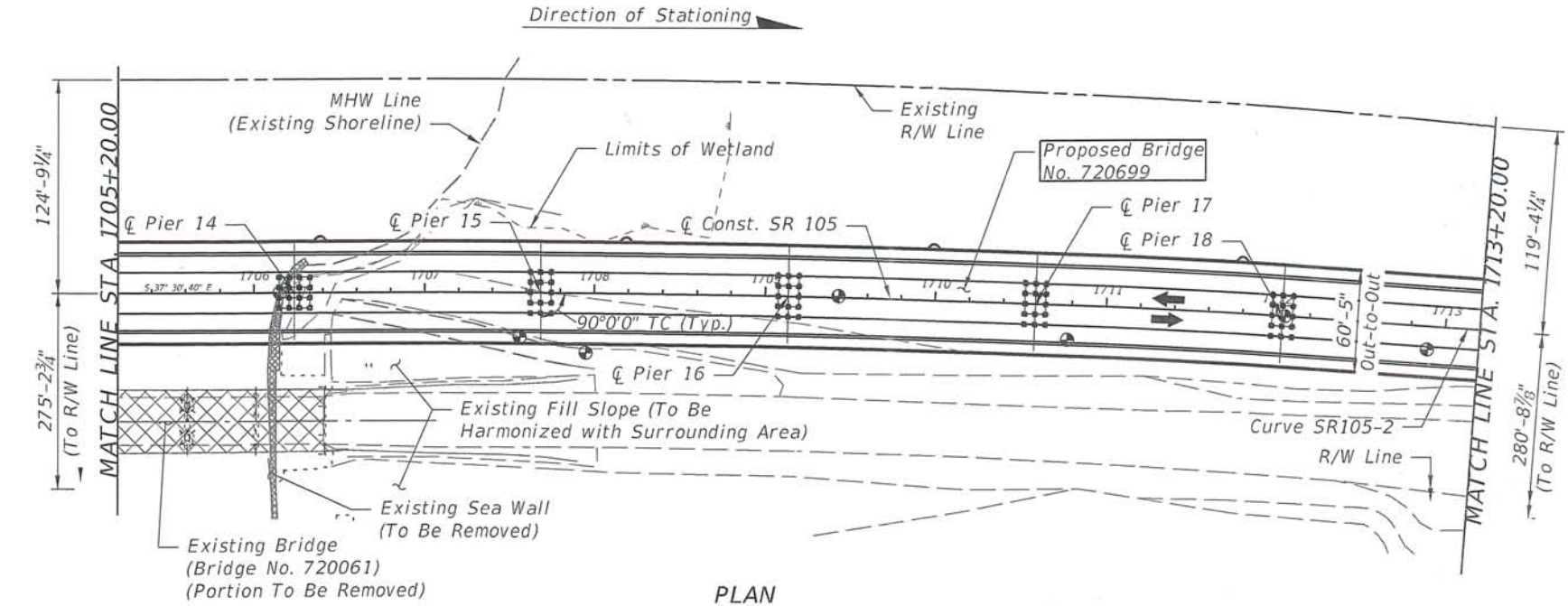
- ⊕ = Boring Locations
- FIB = Florida I-Beam
- MVC = Minimum Vertical Clearance (To MHW)
- MHC = Minimum Horizontal Clearance
- = Existing Structure to Remain
- = Existing Structure to be Removed
- = Dredge Below Approximate Existing Ground Line
- = Fill Below Mean High Water

0 20 100
Feet

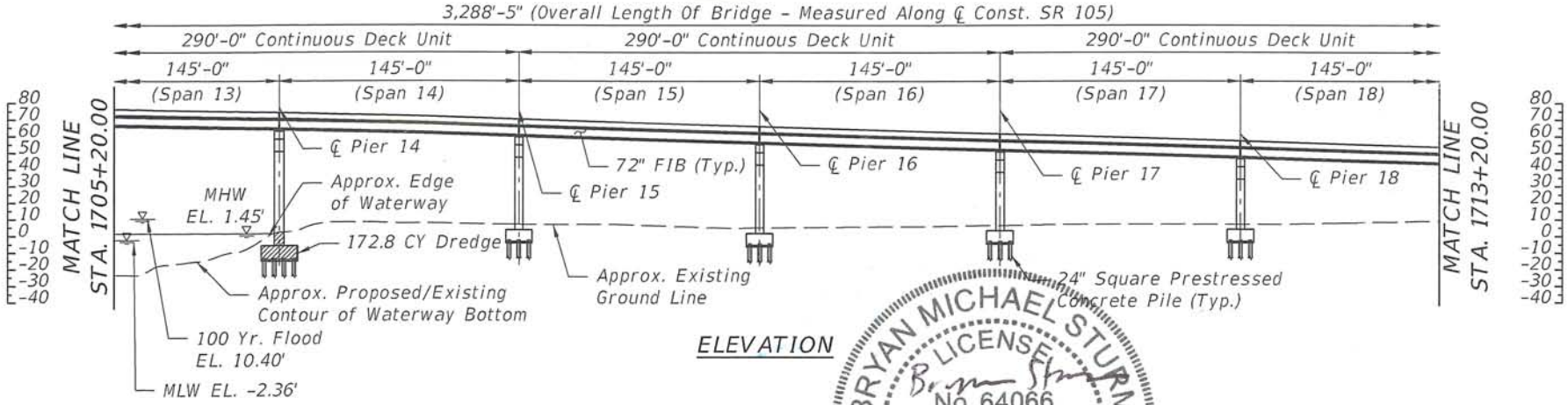
APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
PLAN AND ELEVATION (3 OF 5)	SHEET NO. 5 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	
NAVD-88	
PLANS DATE	
03/21/2014	



PLAN



ELEVATION

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOTE:

1. Existing ground elevation shown along ℄ Construction SR 105.

LEGEND:

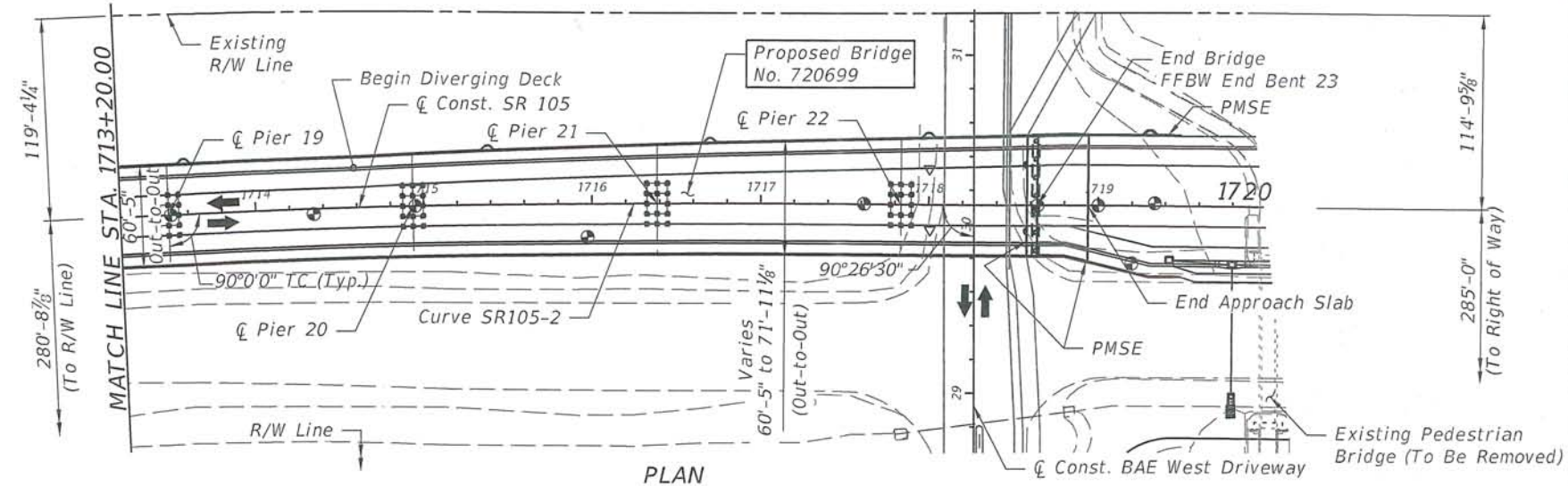
- = Boring Locations
- FIB = Florida I-Beam
- = Existing Structure to be Removed
- = Dredge Below Approximate Existing Ground Line

0 20 100
Feet

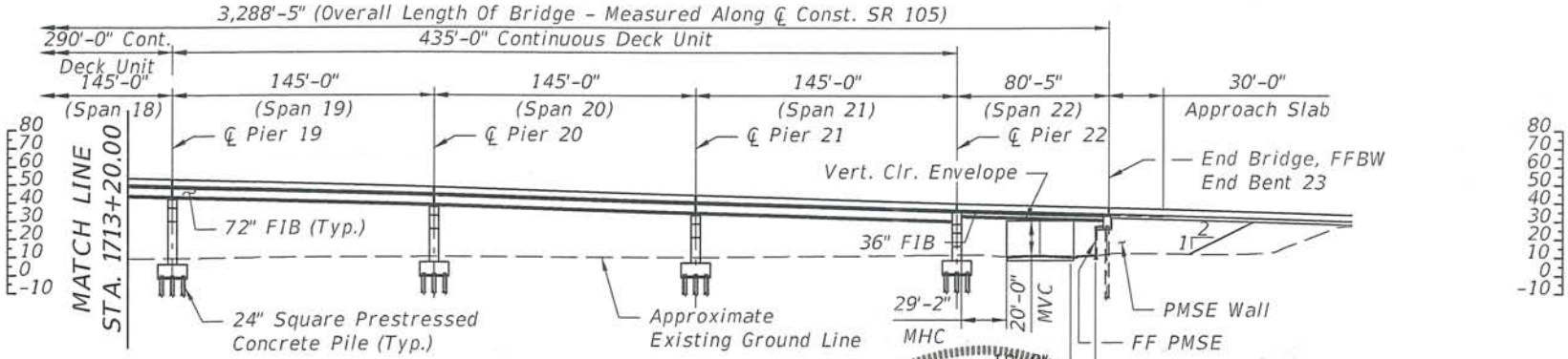
APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
PLAN AND ELEVATION (4 OF 5)	SHEET NO. 6 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	NAVD-88
PLANS DATE	03/21/2014

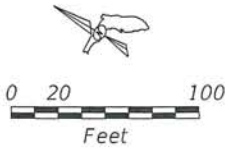


PLAN



ELEVATION

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER



LEGEND:

- ⊕ = Boring Locations
- FIB = Florida I-Beam
- MVC = Minimum Vertical Clearance (To MHW)
- MHC = Minimum Horizontal Clearance
- PMSE = Permanent MSE Retaining Wall

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	NAVD-88
PLANS DATE	03/21/2014

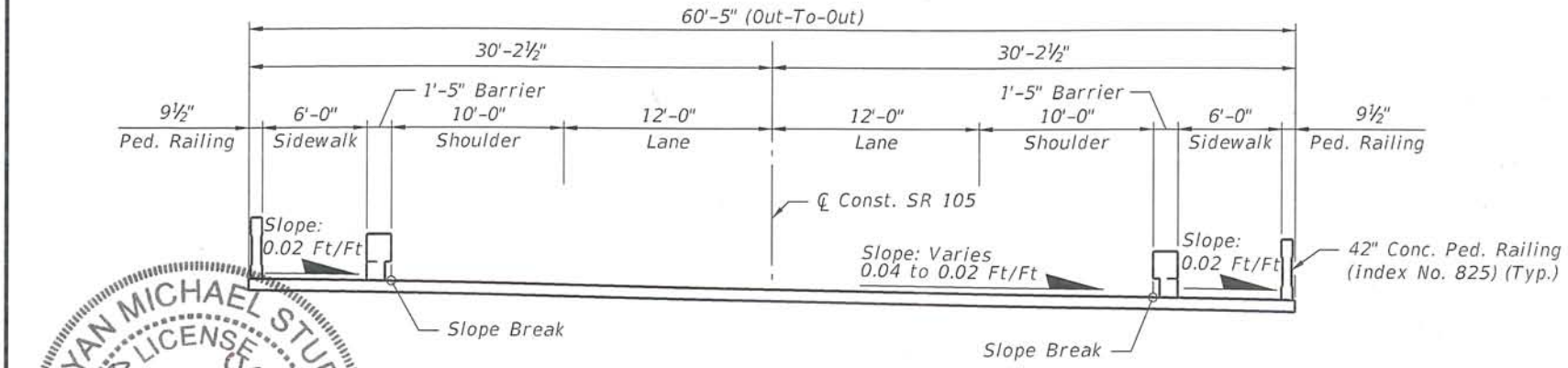
APPLICANT:
FLORIDA DEPARTMENT OF TRANSPORTATION

CONSULTANT:
REYNOLDS, SMITH AND HILLS, INC.

EXISTING BRIDGE NO.: 720061
PROPOSED BRIDGE NO.: 720699
SR 105 OVER SISTERS CREEK (AICW)
M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK
CITY OF JACKSONVILLE, DUVAL COUNTY, FL

PLAN AND ELEVATION (5 OF 5)

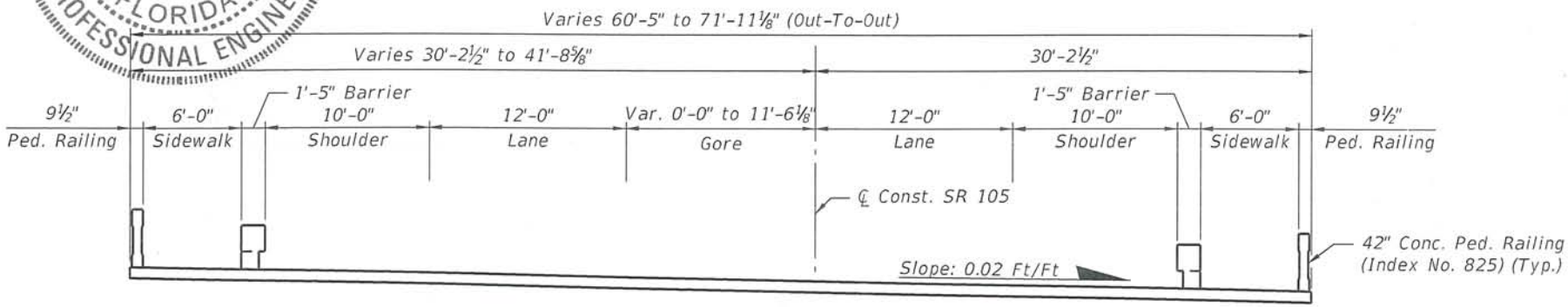
SHEET NO. 7 OF 14



TYPICAL SECTION - PROPOSED BRIDGE

(Spans 1 Thru 18)

0 2 10
Feet



TYPICAL SECTION - PROPOSED BRIDGE

(Spans 19 Thru 22)

BRYAN MICHAEL STURM
LICENSE
Bryan Sturm
No. 64066
3/25/14
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

ESTIMATED IMPACTS:

1. There will be 1486.1 CY of fill (concrete pile footings and piles) between Mean High Water and the existing river bottom.
2. There will be 384.0 CY of dredge below the existing river bottom due to the proposed bridge concrete pile footings and piles.

NOTES:

1. All dimensions are taken perpendicular to ℄ Construction SR 105, unless noted otherwise.
2. Bridge section increases in width from Span 19 thru Span 22. Maximum bridge width at End Bridge/Front Face Backwall End Bent 23 is 71'-11⅛".

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION			
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.			
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL			
Reynolds, Smith and Hills, Inc. 10748 Deerwood Park Blvd. South Jacksonville, Florida 32256 904-256-2500 FL Cert. No.: 5620 Bryan M. Sturm, P.E. No.: 64066	VERT. DATUM NAVD-88	BRIDGE TYPICAL SECTIONS	SHEET NO. 8 OF 14
	PLANS DATE 03/21/2014		

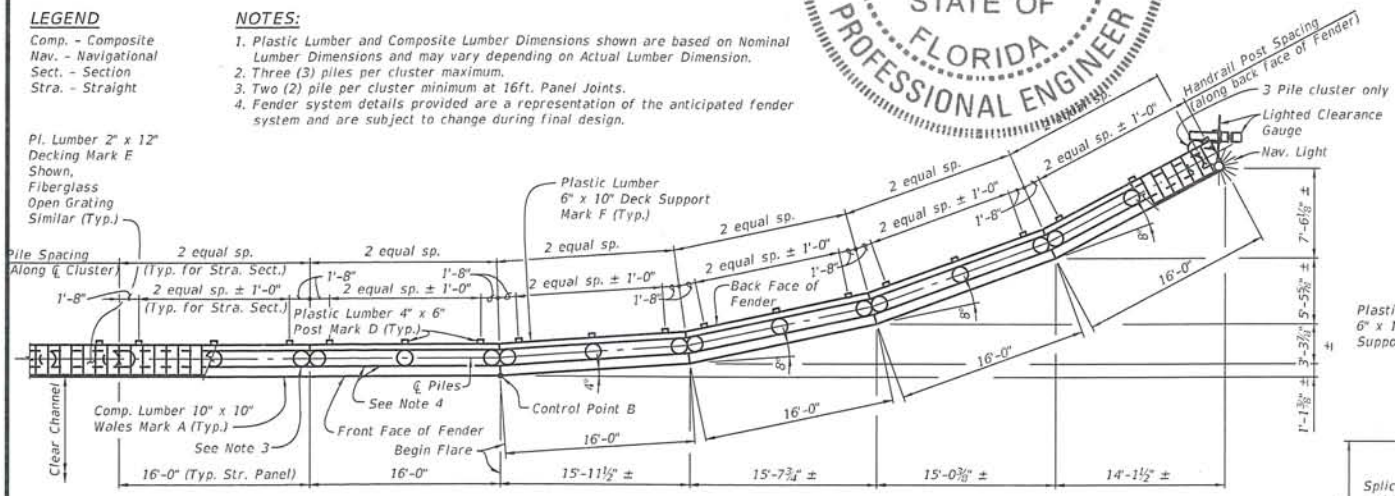
BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

LEGEND

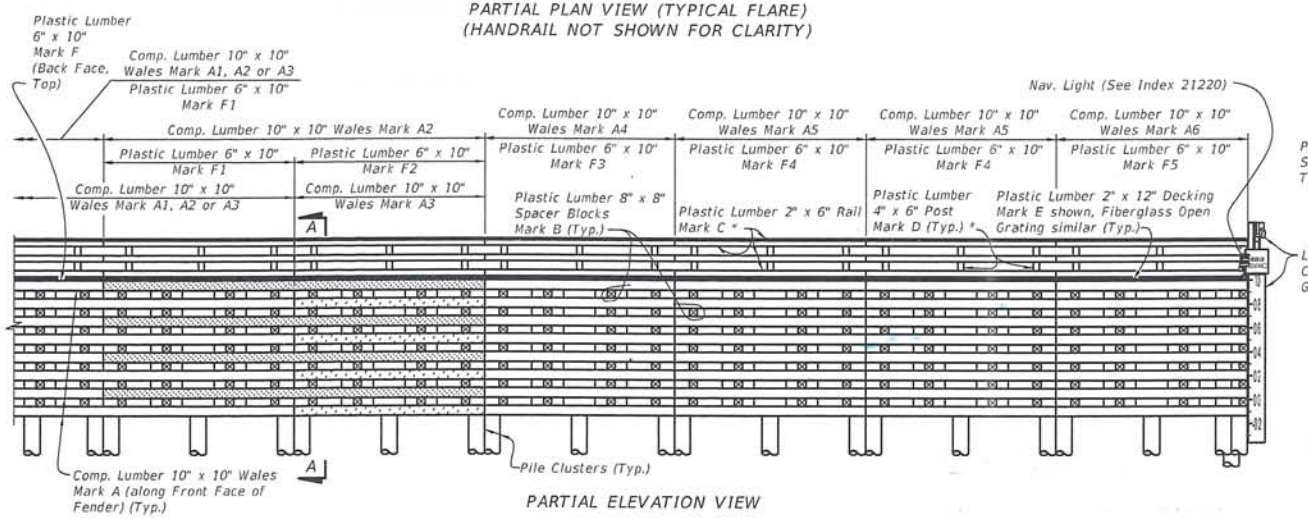
Comp. - Composite
Nav. - Navigational
Sect. - Section
Stra. - Straight

NOTES:

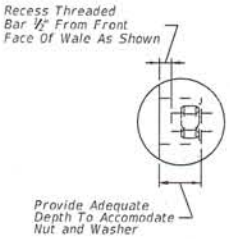
1. Plastic Lumber and Composite Lumber Dimensions shown are based on Nominal Lumber Dimensions and may vary depending on Actual Lumber Dimension.
2. Three (3) piles per cluster maximum.
3. Two (2) pile per cluster minimum at 16ft. Panel Joints.
4. Fender system details provided are a representation of the anticipated fender system and are subject to change during final design.



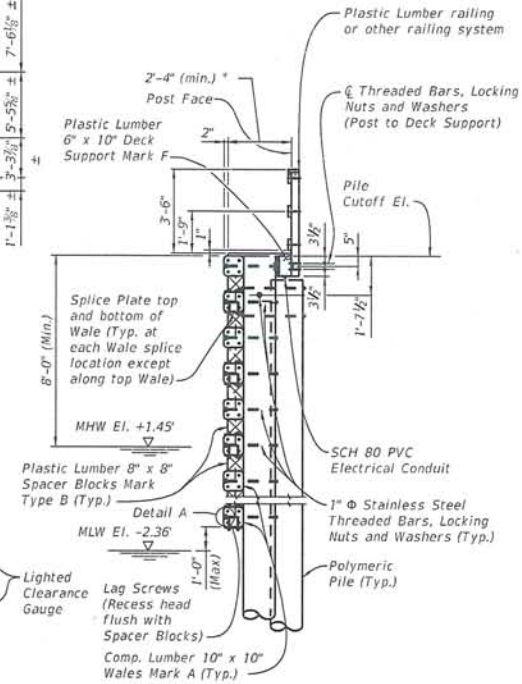
PARTIAL PLAN VIEW (TYPICAL FLARE)
(HANDRAIL NOT SHOWN FOR CLARITY)



PARTIAL ELEVATION VIEW



DETAIL A
(Not To Scale)

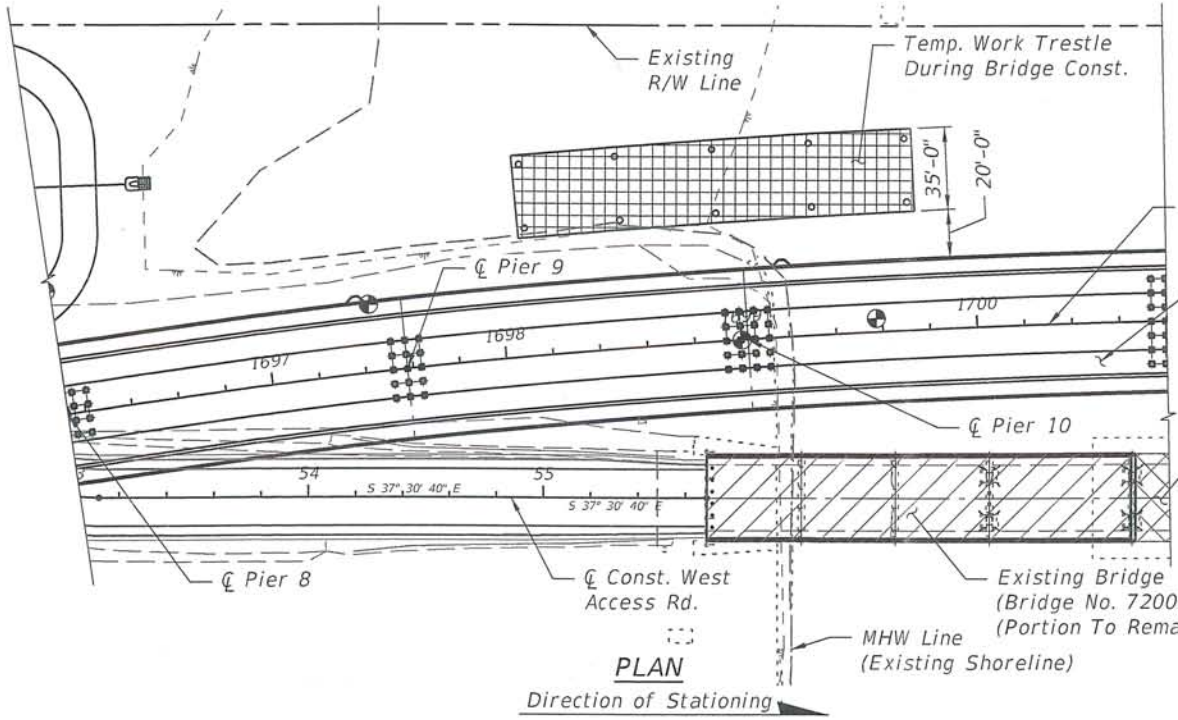


SECTION A-A
(Not To Scale)

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION		
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.		
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL		
BRIDGE PROTECTIVE SYSTEM/FENDER DETAILS	SHEET NO. 9 OF 14	

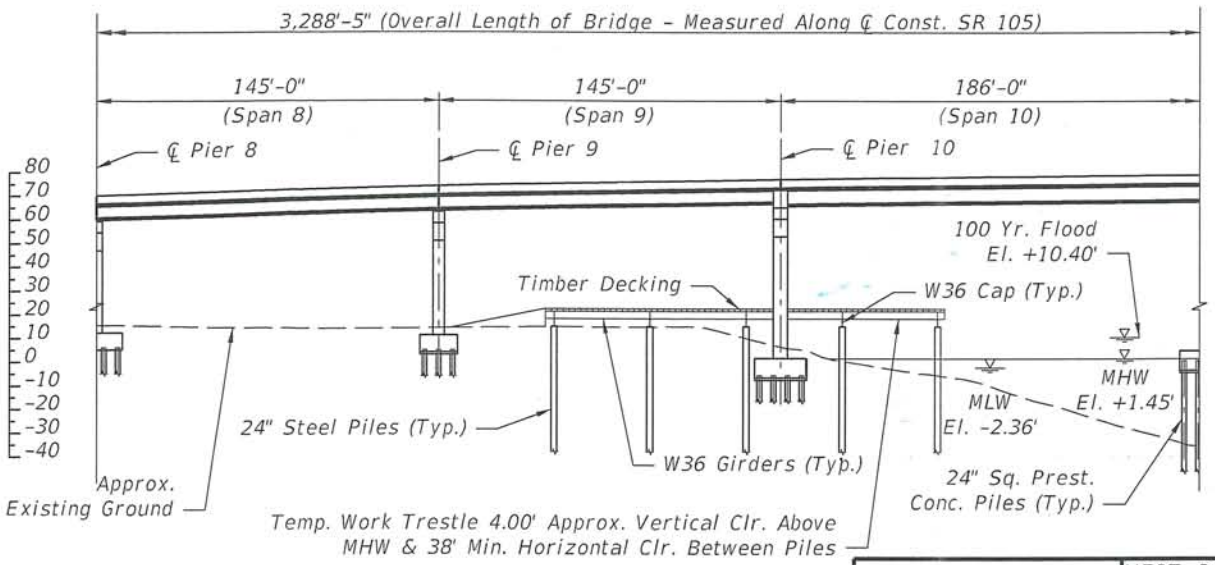
Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM
NAVD-88
PLANS DATE
03/21/2014



PLAN

Direction of Stationing



ELEVATION

LEGEND:

- = Boring Locations
- = Existing Structures to Remain
- = Existing Structures to be Removed
- = Temporary Work Trestle

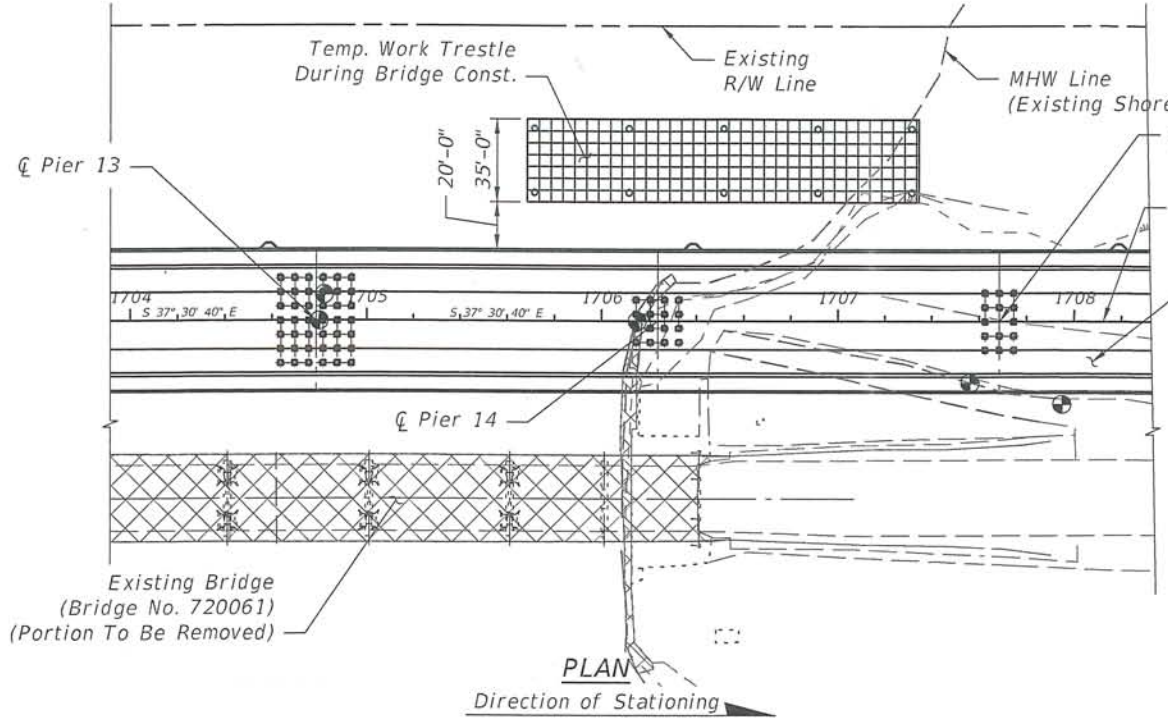
0 20 80
Feet

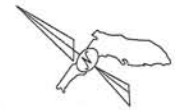
BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
TEMPORARY STRUCTURES PLAN AND ELEVATION (1 OF 2)	SHEET NO. 10 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	NAVD-88
PLANS DATE	03/21/2014

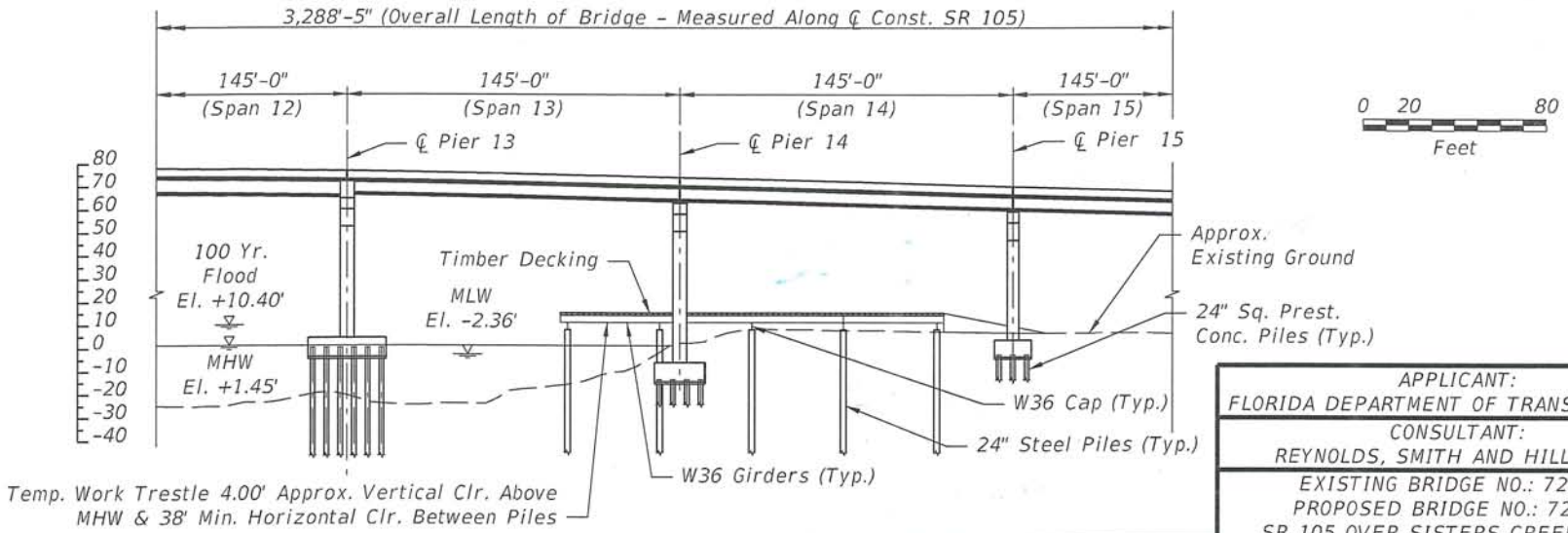




BRYAN MICHAEL STURM
LICENSE
Bryan Sturm
No. 64066
3/25/14
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

LEGEND:

- = Boring Locations
- = Existing Structures to be Removed
- = Temporary Work Trestle



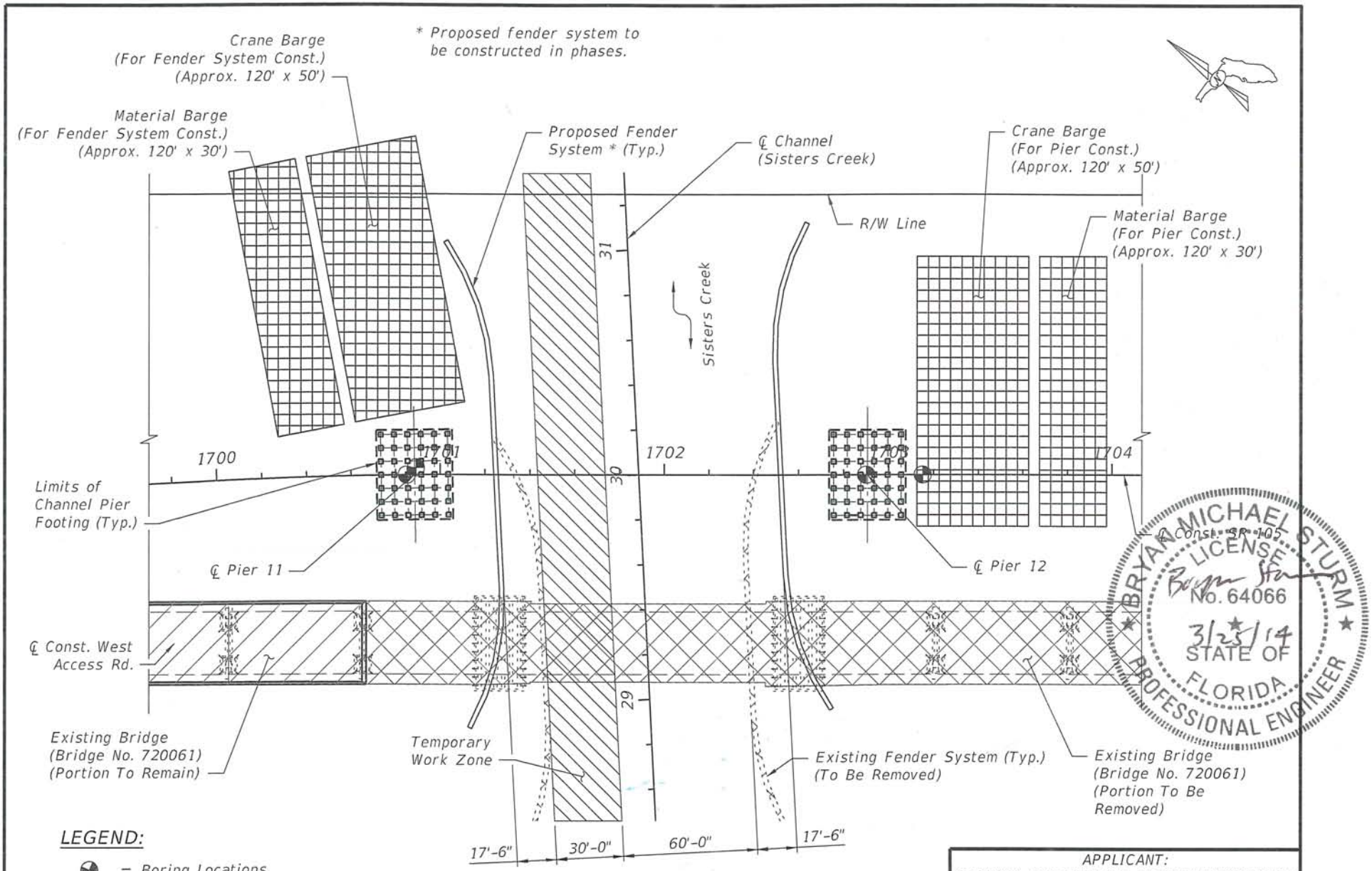
0 20 80
Feet

ELEVATION

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION		
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.		
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL		
TEMPORARY STRUCTURES PLAN AND ELEVATION (2 OF 2)	SHEET NO. 11 OF 14	

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	PLANS DATE
NAVD-88	03/21/2014



LEGEND:

- = Boring Locations
- = Existing Structures to Remain
- = Existing Structures to be Removed
- = Material or Crane Barge
- = Temporary Work Zone

0 20 60
Feet

PIER AND FENDER SYSTEM CONSTRUCTION PLAN

Direction of Stationing

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
TEMPORARY WORKS DETAILS (1 OF 2)	SHEET NO. 12 OF 14

Reynolds, Smith and Hills, Inc.
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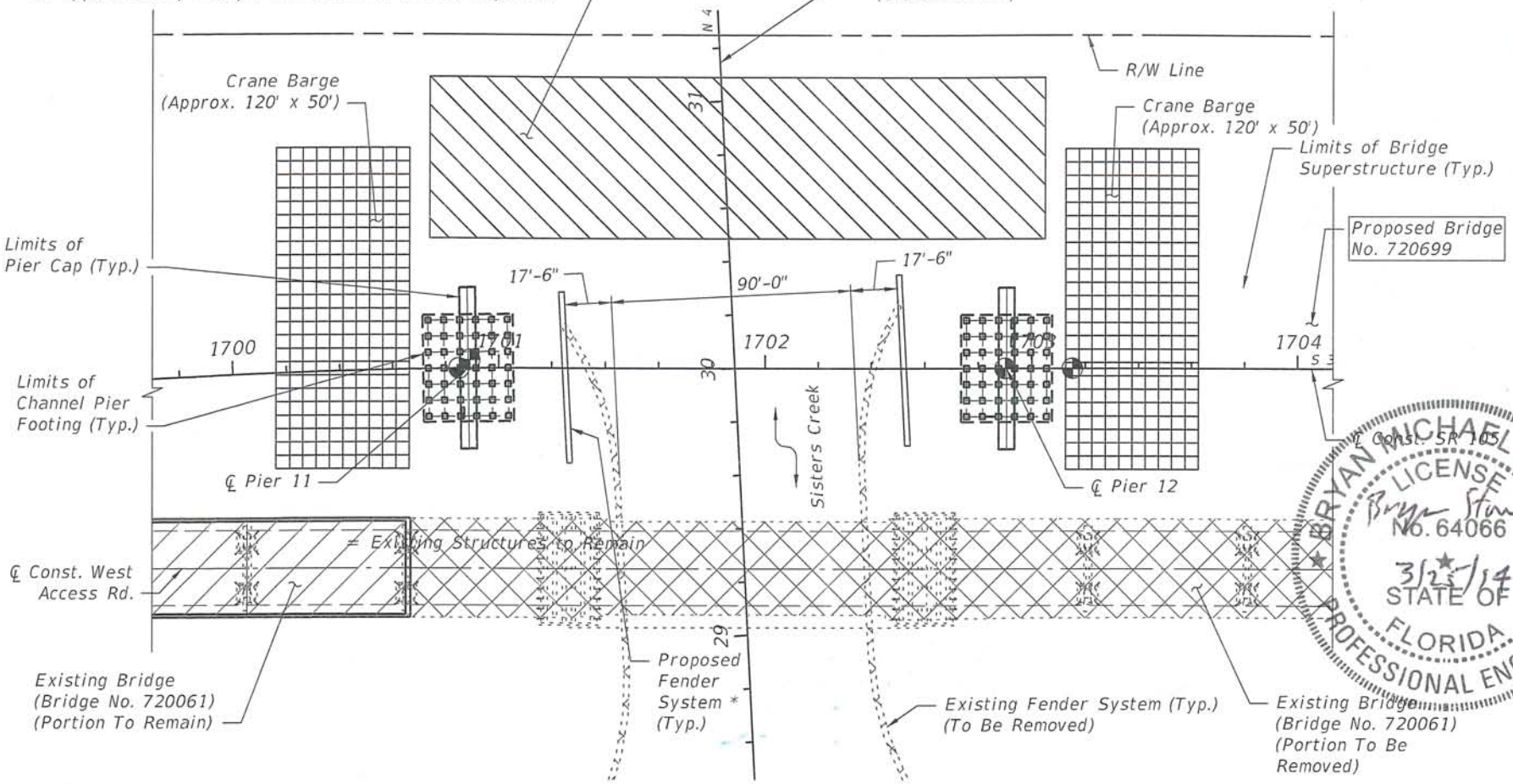
NOTES:

1. Girder barge will be located in channel for intervals of approximately 2 hours while girders are being erected. It will not be located in the channel when girders are not actively being erected.

2. The total duration of intermittent channel closures will be approximately 2 days. Nine closures will be required.

* At the time of channel girder erection, only the portion of the proposed fender system located beneath the proposed bridge will have beeen constructed.



LEGEND:

- = Boring Locations
- = Existing Structures to Remain
- = Existing Structures to be Removed
- = Crane Barge
- = Girder Barge

CHANNEL GIRDER ERECTION PLAN

Direction of Stationing

0 20 60
Feet

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
TEMPORARY WORKS DETAILS (2 OF 2)	SHEET NO. 13 OF 14

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256
904-256-2500 FL Cert. No.: 5620
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	NAVD-88
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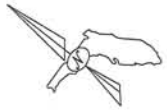
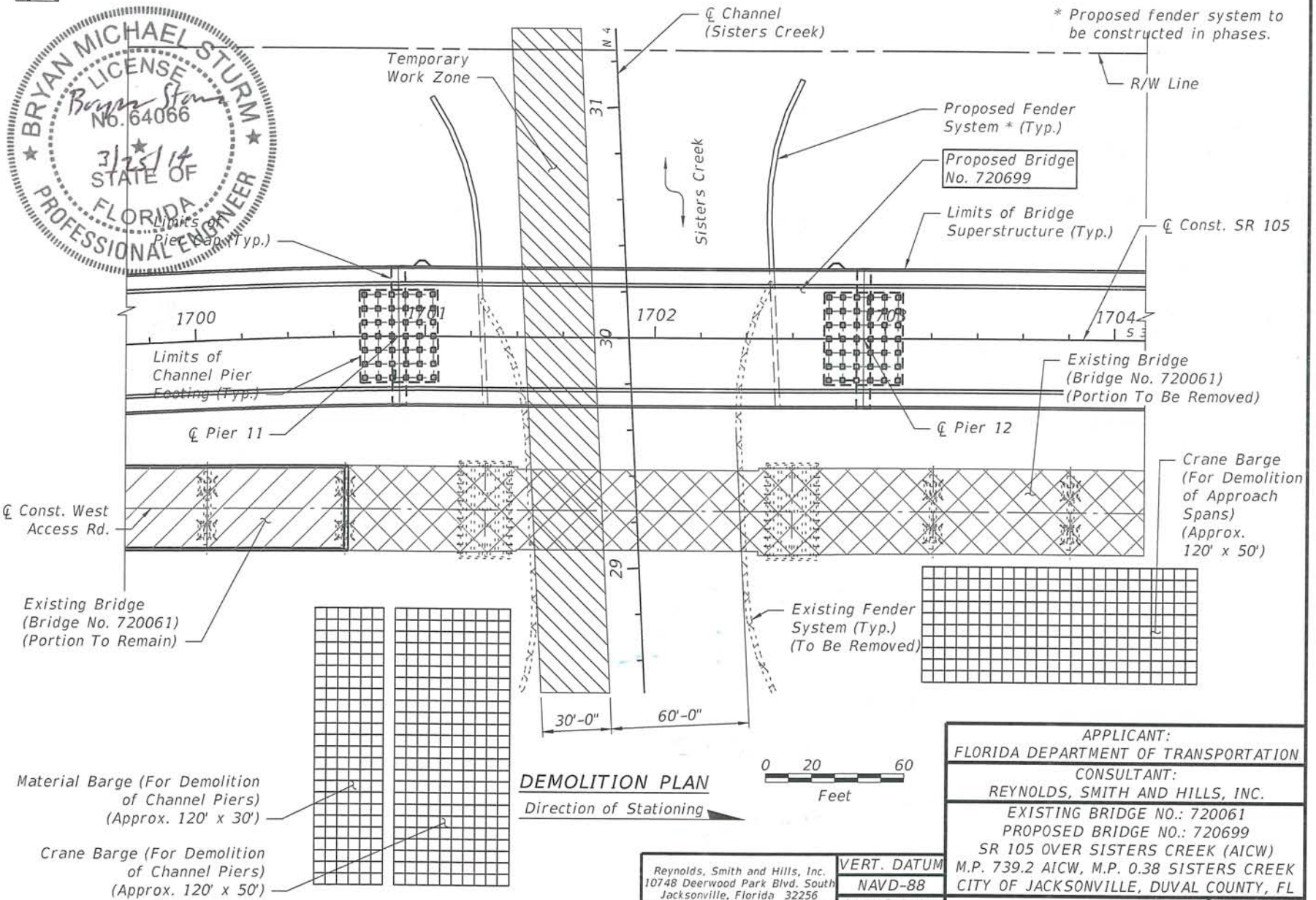
LEGEND:

- = Boring Locations
- = Existing Structures to Remain
- = Existing Structures to be Removed
- = Material or Crane Barge
- = Temporary Work Zone

NOTES:

1. Temporary work zone will only be utilized during active construction activities, and will be opened to maritime traffic when workers are not present.
2. Duration of existing bridge demolition in the vicinity of the channel will be approximately 4 months.





DEMOLITION PLAN

Direction of Stationing

APPLICANT:	FLORIDA DEPARTMENT OF TRANSPORTATION
CONSULTANT:	REYNOLDS, SMITH AND HILLS, INC.
EXISTING BRIDGE NO.: 720061	
PROPOSED BRIDGE NO.: 720699	
SR 105 OVER SISTERS CREEK (AICW)	
M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK	
CITY OF JACKSONVILLE, DUVAL COUNTY, FL	

Reynolds, Smith and Hills, Inc.
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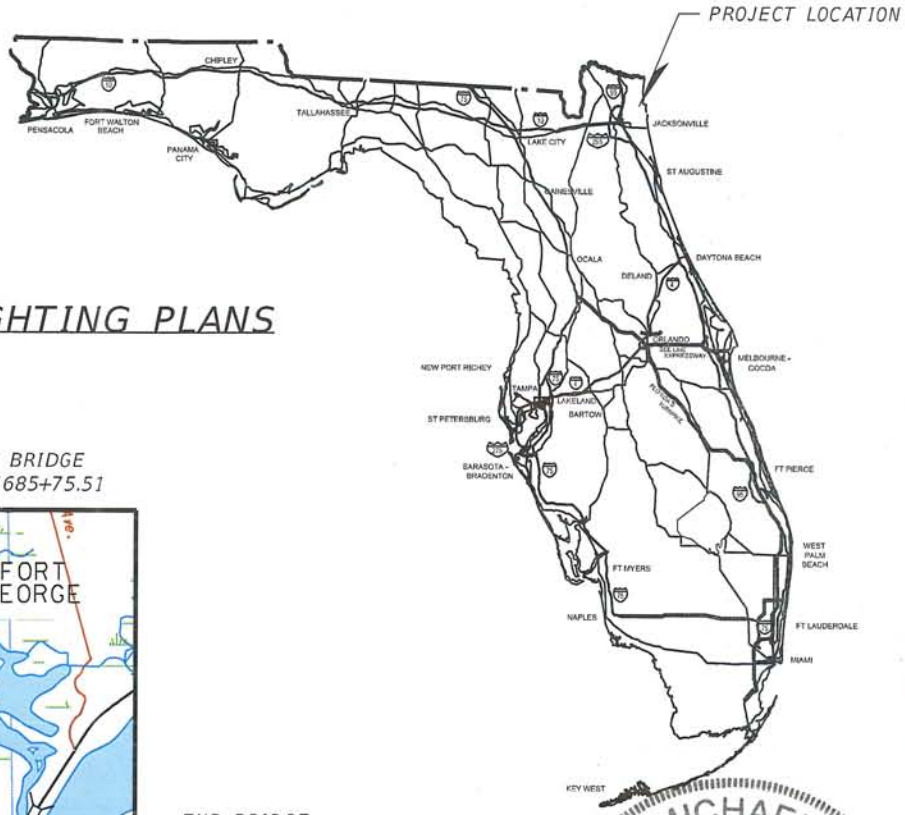
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	EXISTING BRIDGE DEMOLITION PLAN	SHEET NO.
NAVD-88		14 OF 14
PLANS DATE		
03/21/2014		

INDEX OF SHEETS

1 LOCATION MAP
2 BRIDGE LIGHTING PLAN

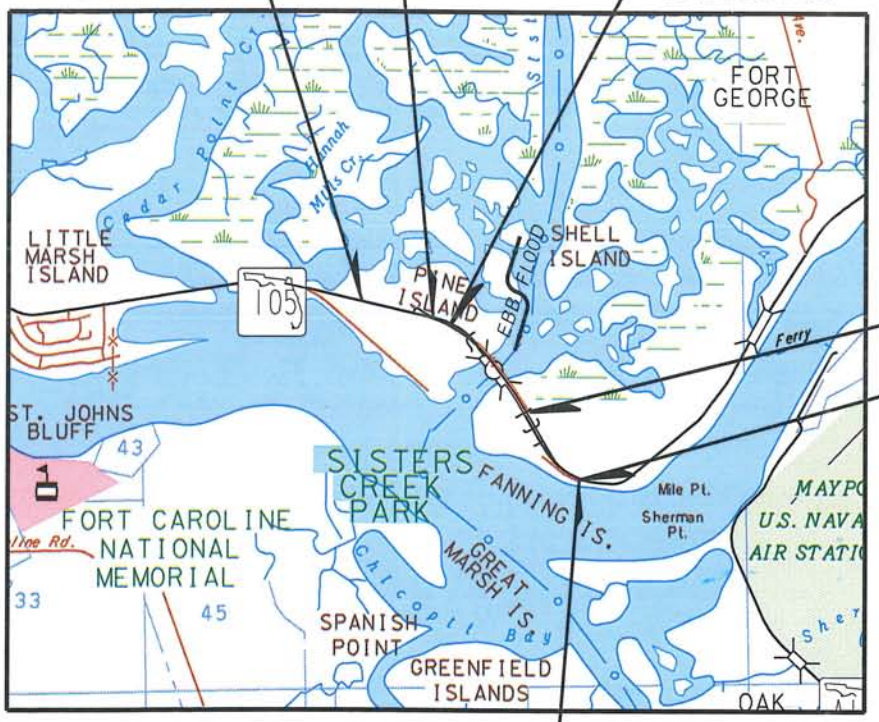
BRIDGE LIGHTING PLANS



STATION EQUATION:
STA. 677+06.00 ℄ SURVEY SR105 (BK)
STA. 1677+06.00 ℄ CONST. SR 105 (AH)

BEGIN PROJECT
STA. 660+30.00

BEGIN BRIDGE
STA. 1685+75.51



END BRIDGE
STA. 1718+63.93

END PROJECT
STA. 743+60.00

STATION EQUATION:
STA. 1739+90.76 ℄ CONST. SR 105 (BK)
STA. 740+13.94 ℄ SURVEY SR105 (AH)

LOCATION MAP

N

0 ½ 1
Mile

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
LOCATION MAP	SHEET NO. 1 OF 2

Reynolds, Smith and Hills, Inc.
10748 Deerwood Park Blvd. South
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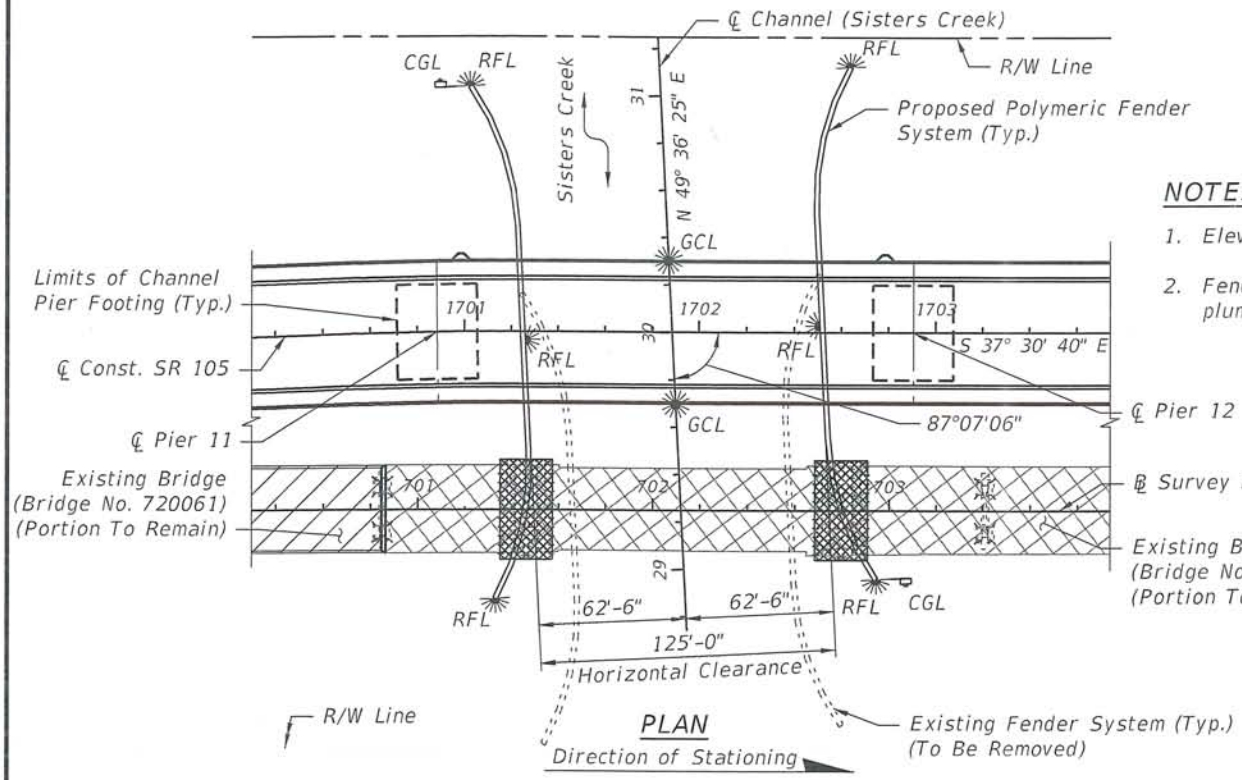
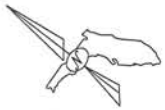
Bryan M. Sturm, P.E. No.: 64066

VERT. DATUM	NAVD-88
PLANS DATE	03/21/2014



PLAN



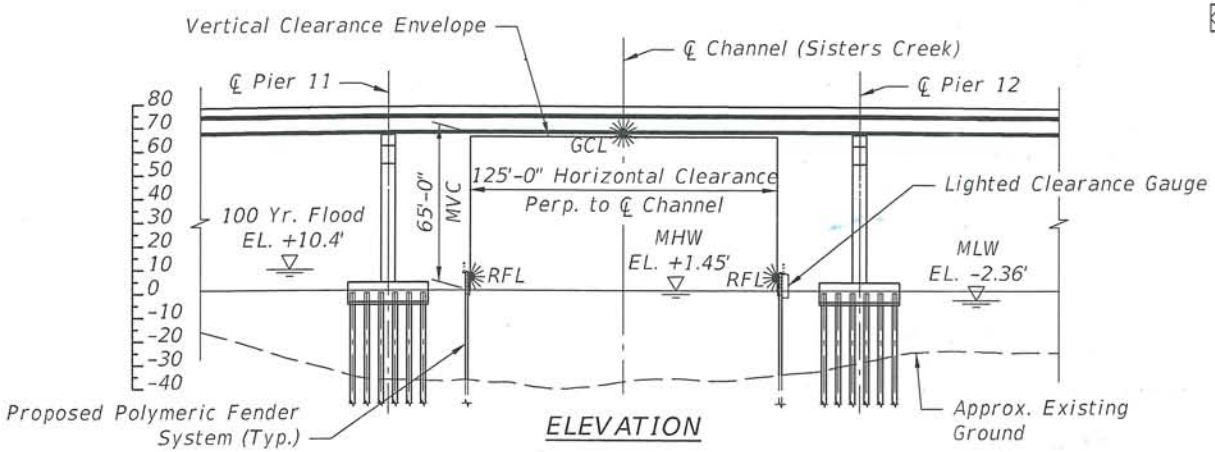
NOTES:

1. Elevations are according to NAVD-88 Datum.
2. Fender system consists of polymeric piles, driven plumb, and plastic or composite wales and catwalks.

0 20 80
Feet

LEGEND

RFL - Red Fender Light (180° Visibility)
GCL - Green Center Channel Light (360° Visibility)
CGL - Clearance Gauge Light
MVC - Minimum Vertical Clearance
MHW - Mean High Water Level
MLW - Mean Low Water Level
= Existing Structures to Remain
= Existing Structures to be Removed



ELEVATION

BRYAN MICHAEL STURM
LICENSE
No. 64066
3/25/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER

APPLICANT: FLORIDA DEPARTMENT OF TRANSPORTATION	
CONSULTANT: REYNOLDS, SMITH AND HILLS, INC.	
EXISTING BRIDGE NO.: 720061 PROPOSED BRIDGE NO.: 720699 SR 105 OVER SISTERS CREEK (AICW) M.P. 739.2 AICW, M.P. 0.38 SISTERS CREEK CITY OF JACKSONVILLE, DUVAL COUNTY, FL	
BRIDGE LIGHTING PLAN	SHEET NO. 2 OF 2

Reynolds, Smith and Hills, Inc.
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VERT. DATUM
NAVD-88
PLANS DATE
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