



**CITY OF CALLAWAY
BERTHE AVENUE BRIDGE REPLACEMENT &
ASSOCIATED INFRASTRUCTURE
BID NO.: PW2022-15**

ADDENDUM #3

Date Issued: October 10, 2022

This addendum is being released to change the date and place of the bid opening and address the following:

1. During our site visit we observed power lines running down the East side of the project that are very close to the edge of the existing structure. We noticed that new poles are being set on the West side of the project. Are the power lines on the East side being relocated?

- A. Sheet C-101 (demo and erosion control plan) calls for relocation of an O/E power pole currently located at the NE corner of the proposed bridge structure. Sheet C-105 (roadway plan and profile) calls for power pole relocation as required for the pole located SE of the proposed bridge structure (to avoid conflict with proposed retaining wall). Plans have been revised to provide consistency between these two sheets.

A temporary service line can be installed during their relocation (to avoid east side O/E conflict with bridge construction) and permanent service connections can be re-established to the new poles post-construction. Other existing, east side O/E poles (south of the proposed bridge structure) should not conflict with roadway approach or sidewalk activities. We have also revised plans to reflect a relocation of the existing O/E line from the lift station across Berthe to the pole at Minneola Street.

Any relocation of poles or O/E lines (and installation of temporary O/E lines) shall be approved by Florida Power and Light (FPL) and coordinated between FPL and the awarded contractor.

2. There are several fiber optic utility markers running down the West side of the project that are very close to or will be in conflict with the bridge. Are any of these lines being relocated?

- A. Fiber lines were not presented in the survey or identified by the city. It will be the contractor's responsibility to notify and coordinate required relocations with respective fiber optic owners within project limits.

3. Reference sheet C-106. The note pertaining to the retaining wall states "proposed retaining wall (by others)? Please clarify.

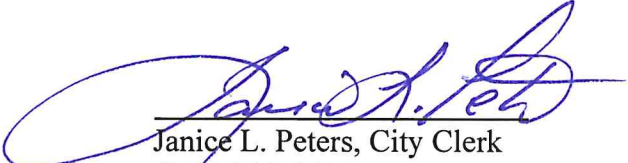
- A. The note in question identifies that BDI was not responsible for design of the proposed retaining walls. BDI used Woolpert as the structural sub to perform bridge and retaining wall design and supporting calculations.

4. Reference sheet B1-2 on the notes under “Foundation Bearing Resistance”. There is a lot of ambiguity in the note. Please provide more clarification in order to properly access the costs for this as there are no soil borings for this area and the undercut, if required, would be below the water table thus creating a substantial difference in how to address and price out this item.
 - A. The note provides the design assumptions, and the geotechnical report provides the available subsurface information. This information is however limited, and the note addresses this fact by requiring field inspection of the bearing surface. Up to 3 feet of undercut is considered in case of unsuitable material as part of the note, beyond 3-ft would require additional evaluation due to the presence of the water table. For bidding purposes, assume not more than 3 feet of undercut is required. If additional is found to be needed during construction this would be treated as an unknown subsurface or change condition.
5. Reference sheet B1-3. Who is responsible to carry the costs for the Geotechnical engineer that performs, analyzes, and prepares the report on the 2 dynamic pile tests?
 - A. The contractor shall retain the services of a third-party geotechnical engineer to prepare and submit the report.
6. Reference sheet B1-3. Are the 2 test piles to be instrumented internally or externally?
 - A. Internal or external instruments may be used. Refer to FDOT specifications section 455-5.13.
7. Reference sheet B1-3. This sheet specifies that the test piles are 55’ long for a total of 110 LF of test pile but the bid item has a quantity of 80 LF. Which is correct?
 - A. 55 feet per pile/110 total feet is correct.
8. Page 1 of the Special instructions and conditions states that “all bidders shall be certified in the following major classes of work”. Is the Bidder required to be certified in all the major classes listed? Please clarify.
 - A. The contractor and/or selected subcontractors must be qualified in the classes of work specified in the bid package.
9. Please reference bid item 1.26 General Provisions. This line item allows for 5% of the contract amount which is low when you take into account that bonds and insurance are in the range of 2% which does not leave much for the other items that this item is intended to provide for. Will you increase this percentage to more adequately cover what is intended?
 - A. General Provisions should be limited to 5% of the contract amount and remain separate from the 2% maximum allowance for bonds and insurance.
10. Who will provide the dynamic testing?
 - A. The contractor shall retain the services of a third-party geotechnical engineer qualified to oversee the dynamic testing.

11. How is the retaining wall to be bid based on the notes in bid and uncertain geotechnical data?
 - A. The notes provide for undercut up to 3 feet in depth to account for uncertainty in the subsurface field conditions. For bidding purposes, assume not more than 3 feet of undercut is required. If additional is found to be needed during construction this would be treated as an unknown subsurface or change condition.
12. Bid Item 1.16 is for 2,250 sy of erosion control blanket. Please clarify where location wise this is to be used.
 - A. Bid item 1.16 (erosion control blanket) has been removed from the pay item list. It was used for the adjacent ditch piping plans and not pertinent to this project scope.
13. Bid item 1.25 for signage and marking. Please clarify what signage is required and what pavement markings are required and what type of paint is to be used as no details are given on the plans.
 - A. The plans have been revised to specify roadway approach pavement markings and applicable signage within the project limits.
14. Bid item 2.11; 3.04; 3.09 for 6" underdrains. Please clarify the locations where these are to go as well as the type. The FDOT standards have different types.
 - A. 6-inch underdrains have been removed from the bid item list.
15. Pay Item 0515 2 213 is described as Pedestrian/Bicycle Railing, Steel, 42" Type 3. According to the FDOT standard drawing (drawing 515-052) included in the plans, the Type 3 rail is the Sunshine Infill Panel design. Wanted to confirm that this is type of rail desired. Also, confirm that the rail is to be constructed with steel and galvanized after fabrication. Would aluminum be an acceptable alternative?
 - A. The Sunshine Infill Panel design as shown in the plans is confirmed. The city has stated the railing is to be constructed from aluminum (rather than galvanized coated steel).
16. How is guardrail to be connected to the new bridge? There is nothing that calls out approach transitions to rigid barriers in the plans. Each corner should have a TL2 approach transition to rigid barrier.
 - A. The detail is in the Std Plans 536-001 sheet 15/24. Woolpert bridge plans have been detailed to accommodate the connection.

17. Plans state to use an approved end terminal and specify Soft Stop Mash or RSI Fleat, however an RSI Fleat is not a current approved end terminal. There is an RSI M-Fleat but it is only approved for maintenance on existing guardrail. The RSI MSKT is an approved terminal. Is this the terminal that should be referenced, as I believe it will be the only product that can be used on this job? This will be further addressed in comment 20.
- A. Yes, the MSKT is the appropriate item and has been referenced. Any of the three items listed under 536-007: Approach terminal 31" TL-2, MASH of the approved products list may be used for the approach sections.
18. On the corner of the bridge closest to Mineola St. The plan only calls for 24.1 LF of guardrail. The minimum that could be used and still comply with index 536-001 would be 49' 4 3/4". How do we address this and remain compliant with the index?
- A. The plans have been updated to show a curved CRT rail per FDOT Index 536-001 sheets 11 & 12. The lift station access will be relocated onto Minneola St.
19. The plan also calls for rub rail as indicated on sheet 21 of the index next to the sidewalk. Rub rail has nothing to do with proximity to sidewalks, so I believe what is being asked for is pipe rail which is page 22 of the index. Per the index pipe rail and/or rub rail cannot be used in TL2. This would mean changing the rail to TL3 increasing cost. Pipe rail also cannot be used in end treatments or transitions. The end treatments and approaches would need to be installed with wood posts. In comment (17) I referenced the end treatments; the only approved wood post end treatment is the RSI MSKT. Since this is the case and the guardrail runs are so short, I would suggest specifying wood posts and eliminating pipe rail which would further reduce costs.
- A. Rub rail has been removed from plans.
20. **PLEASE SEE UPDATED PLANS ATTACHED AND UPLOADED TO VENDOR REGISTRY.**
21. **THE BID OPENING LOCATION & DATE IS HEREBY CHANGED TO:**

**MONDAY, OCTOBER 24, 2022
10:00 A.M.
City of Callaway Recreational Complex
500 Callaway Park Way**


Janice L. Peters, City Clerk
(850) 215-6694

This Addendum must be acknowledged and included with the bid packet submission.

Signature

Company Name

Date

Digitally signed by Jeffrey
C Petermann
Date: 2022.10.07
14:46:29-05'00'



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JEFFREY C. PETERMANN ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CONSTRUCTION PLANS FOR THE CITY OF CALLAWAY BERTHE BRIDGE & ASSOCIATED INFRASTRUCTURE

PREPARED FOR:
CITY OF CALLAWAY

OCTOBER 2022



CITY OF CALLAWAY
CITY COMMISSION

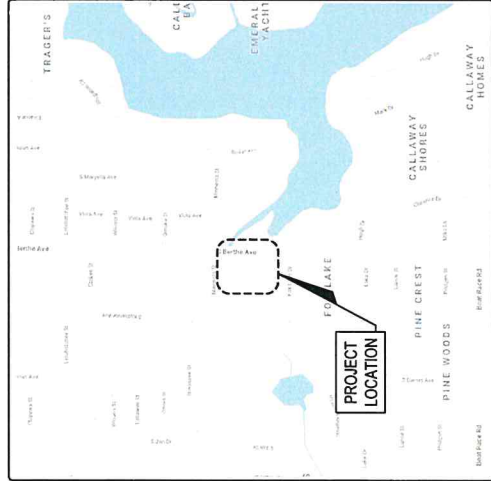
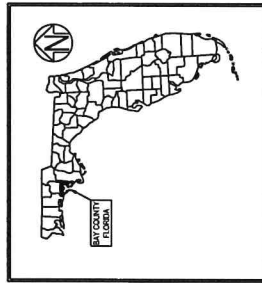
- PAUL HENDERSON MAYOR
- SCOTT DAVIS WARD I COMMISSIONER
- DAVID GRIGGS WARD II COMMISSIONER
- BOB PELLETIER WARD III COMMISSIONER
- KENNETH L. AYERS, JR. WARD IV COMMISSIONER
- EDDIE COOK CITY MANAGER
- BILL FRYE PUBLIC WORKS DIRECTOR

PREPARED BY:
BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927



14101 PANAMA CITY BEACH PARKWAY, SUITE 110
PANAMA CITY BEACH, FLORIDA 32413 (850) 230-6150
PENSACOLA - PANAMA CITY BEACH - TALLAHASSEE - MOBILE

ENGINEERING BUSINESS: EB-000030
ENGINEER'S PROJECT NO.: 27653.01



LOCATION MAP
NOT TO SCALE

48 HOURS BEFORE YOU GO
CALL SUNSHINE
1-800-432-4770
FL. STATE BOARD OF PROFESSIONAL ENGINEERS (FSBE) REQUIRES
NOTICE BEFORE YOU SUBMIT.

SHEET INDEX

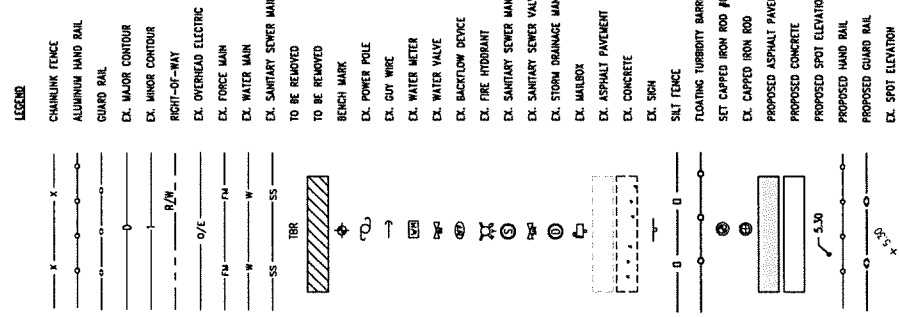
- CIVIL DRAWING (BASKERVILLE-DONOVAN)
- C-000 COVER SHEET
- C-001 GENERAL NOTES AND LEGEND
- C-100 EXISTING CONDITIONS PLAN
- C-101 DEMOLITION & EROSION CONTROL PLAN
- C-102 OVERALL PLAN
- C-103 CONTROL PLAN
- C-104 ROADWAY PLAN AND PROFILE
- C-105 ROADWAY PLAN AND PROFILE
- C-106 GRADING PLAN
- C-107 TYPICAL ROADWAY SECTION
- C-108 R/W TO R/W CROSS-SECTIONS
- C-109 R/W TO R/W CROSS-SECTIONS
- C-110 R/W TO R/W CROSS-SECTIONS
- C-111 R/W TO R/W CROSS-SECTIONS
- C-112 R/W TO R/W CROSS-SECTIONS
- C-113 DRIVEWAY/MINNEOLA ST PLAN AND PROFILE
- C-114 WATER MAIN DIRECTIONAL DRILL PLAN AND PROFILE
- C-115 SIGNAGE AND STRIPING PLAN
- C-900 DETAILS
- C-901 DETAILS

BERTHE AVE BRIDGE-BRIDGE REPLACEMENT STRUCTURAL BRIDGE DRAWINGS (WOOLPERT)

- B1-1 PLAN AND ELEVATION
- B1-2 STRUCTURAL NOTES
- B1-3 FOUNDATION PLAN
- B1-4 BEGIN BENT PLAN AND ELEV
- B1-5 END BENT PLAN AND ELEVATION
- B1-6 END BENT SECTION DETAIL
- B1-7 END BENT SECTION DETAIL
- B1-8 WINGWALL LAYOUT
- B1-9 FRAMING PLAN
- B1-10 BEAM DETAILS
- B1-11 TRANSVERSE SECTION
- B1-12 DECK PLAN
- B1-13 GRADE ELEVATIONS
- B1-14 PARAPET DETAILS
- B1-15 APPROACH SLAB
- B1-16 STEEL JOIST ELEVATION
- WI-1 PLAN AND ELEVATION
- WI-2 PLAN AND ELEVATION
- WI-3 WALL SECTION DETAIL

100% PLANS - RELEASED FOR BID

UTILITY CONTACT INFORMATION	
UTILITY	CONTACT
WATER - CITY OF CALLAWAY	DAVID KUBARK 850-971-1033
SEWER - CITY OF CALLAWAY	JOHN FANGLER 850-715-7232
	JERRY SMITH 850-776-8656
COMCAST	4001 W. 2180 ST. SUITE A, PANAMA CITY, FL 32405
	SHARON PERRY 850-872-3315
CALF POWER	12325 RICHMOND BLVD, PANAMA CITY BEACH, FL 32407
AT&T DISTRIBUTION	A. RODOLPH 850-435-1688
	MIKE MCCOBBE 850-914-8104
TECO	3708 W. 2380 ST., PANAMA CITY, FL 32405



- GENERAL NOTES:**
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.
 - B.M. DATUM IS 1988 NAVD.
 - THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES TO BE EXCAVATED AT THE PROJECT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS. THESE DRAWINGS REPRESENT KNOWN STRUCTURES AND UTILITIES LOCATED IN THE PROJECT AREA. THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES ABOVE OR BELOW THE PROJECT AREA MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ANY UNEXPECTED STRUCTURE, UTILITY LINE, OR OTHER UNUSUAL CONDITION.
 - CONTRACTOR SHALL SAFETY-BARRICADE ALL EXCAVATIONS AND OTHER HAZARDS.
 - CONTRACTOR SHALL PROVIDE ACCESS TO PROPERTIES ADJACENT TO THE CONSTRUCTION AREAS. ADEQUATE BARRICADES, CONSTRUCTION STORAGE AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH FOOT CONSTRUCTION STANDARDS.
 - THE CONTRACTOR SHALL EMPLOY THE USE OF SILT FENCES, MAT BALES, DITCHES AND OTHER EROSION CONTROL MEASURES TO PROTECT ADJACENT PROPERTIES AND ANY NEARBY WATER BODIES. ALL THESE MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN UNTIL THE COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER.
 - ADEQUATE PROVISIONS SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, WATER COURSES AND OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION.
 - ALL PAVEMENT CUTS SHALL BE SAW CUT.
 - ALL NEW CONCRETE FOR SITE WORK SHALL ACHIEVE A 28 DAY STRENGTH OF 3000 PSI (MIN.), UNLESS OTHERWISE SPECIFIED.
 - ALL ON-SITE GRADING, DRAINAGE AND PAVEMENT WORK SHALL BE IN ACCORDANCE WITH FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DUST CONTROL.
 - THE CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY IN ACCORDANCE WITH THE EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL HIRE A SURVEYOR LICENSED IN THE STATE OF FLORIDA IN ACCORDANCE WITH SECTION 12.0 OF THE GENERAL CONDITIONS.
 - THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
 - CONTRACTOR SHALL COMPLY FULLY WITH ALL PERMIT REQUIREMENTS IMPOSED BY THE REGULATORY AUTHORITIES.
 - NOTIFY SUNSHINE UTILITIES TWO FULL BUSINESS DAYS IN ADVANCE PRIOR TO DIGGING WITHIN THE RIGHT-OF-WAY; 1-800-432-4770. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION AND IMMEDIATELY NOTIFY ENGINEER OF CONFLICTS.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF CALLAWAY 48 HOURS PRIOR TO INITIATING ANY WORK IN THE CITY OF CALLAWAY RIGHTS-OF-WAY.
 - TYPE B STABILIZATION IS INCIDENTAL TO EARTHWORK.
 - ALL PIPE JOINTS, INCLUDING CONNECTIONS TO STRUCTURES, SHALL BE WRAPPED WITH FLETER FABRIC IN ACCORDANCE WITH FOOT DESIGN STANDARDS AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927
 1101 PANAMA CITY BEACH AVENUE, SUITE 101 PANAMA CITY BEACH, FL 32413 (904) 204-1919
 ENGINEERING BUSINESS SERVICES ESTABLISHED 2000
 PROFESSIONAL ENGINEERS, ARCHITECTS, PLANNERS
 P.L.L.C. ENGINEER #77340

BERTHE BRIDGE & ASSOCIATED
 INFRASTRUCTURE

PROJECT NO.	2782752510	
DATE	10-27-22	
APPROVED	[Signature]	
REVISION/ACTION TAKEN		
NO.	DATE	DESCRIPTION
1	10-27-22	REV. 1 (NO. APPROVAL) E3
2		
3		
4		
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NOT RELEASED FOR CONSTRUCTION BY DATE / /

DATE: OCT 2022
 PROJECT NO: 2782752510
 DRAWING BY: BMM
 CHECKED BY: BMM
 PROJECT NO: 2782752510

GENERAL NOTES AND LEGEND

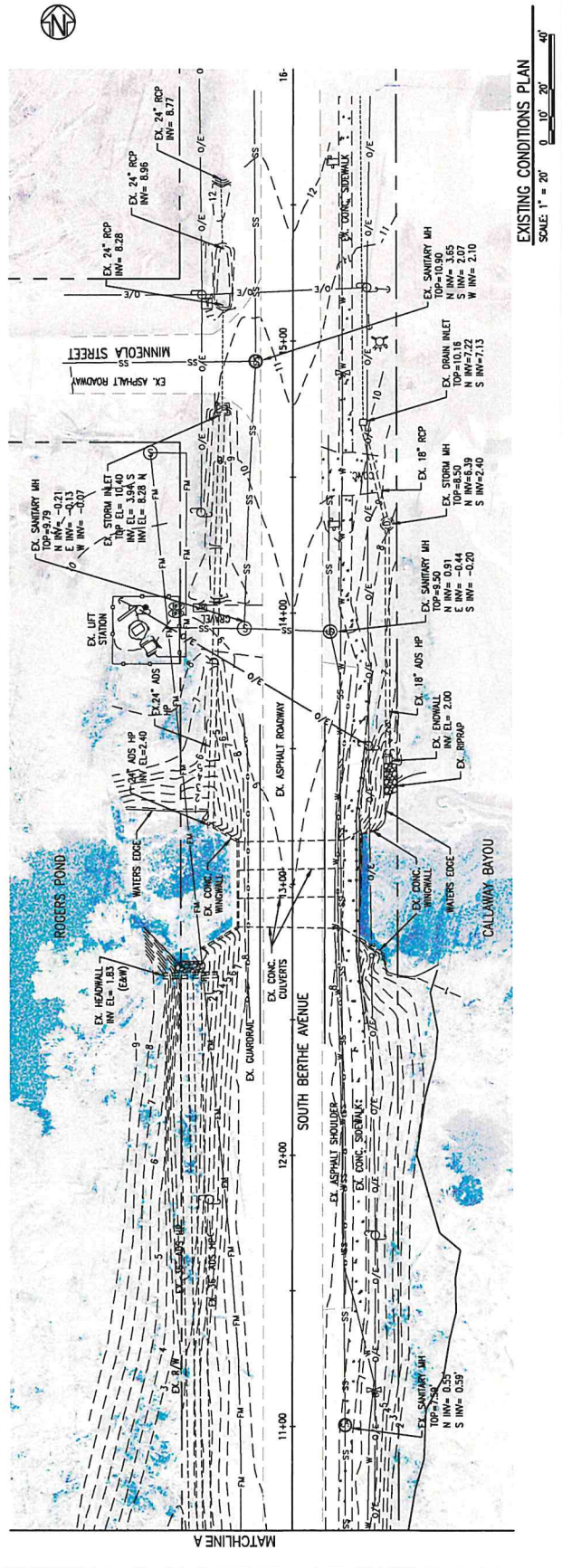
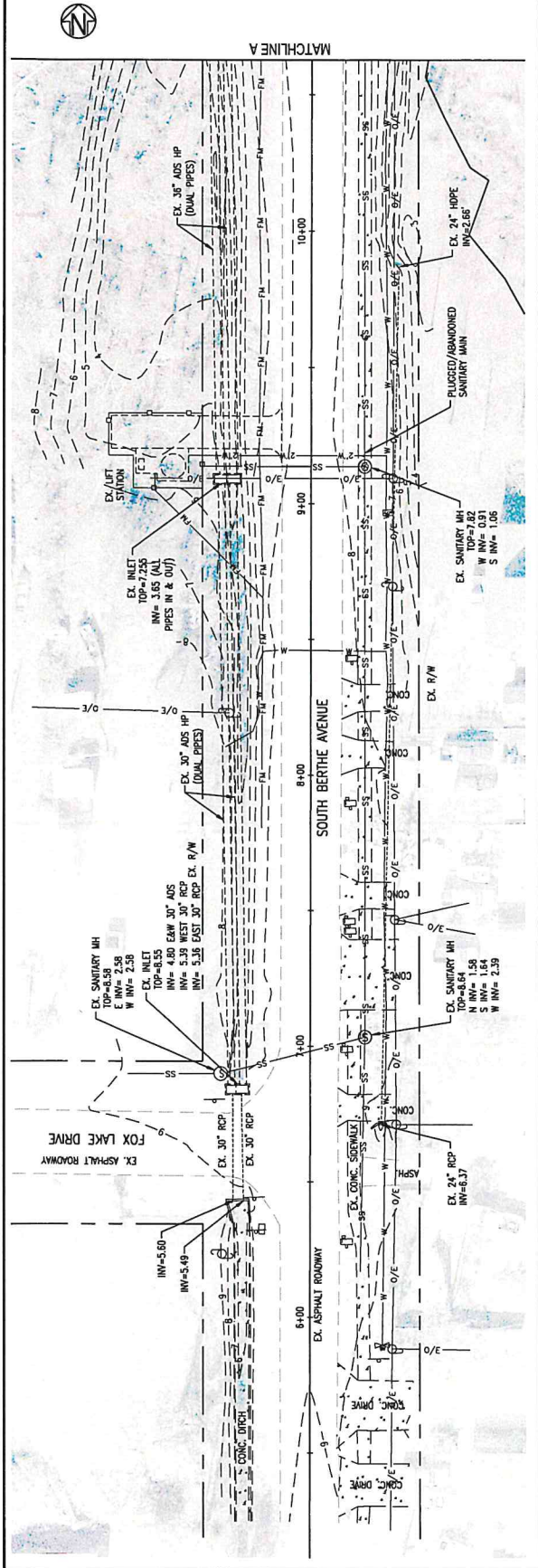
G-1001

EXISTING CONDITIONS
PLAN

PROJECT NO.	27553.01
DESIGNED BY:	RJC
CHECKED BY:	ADP
DATE	10-27-22
APPROVED	REV. 1 BY: ADP/ADP/ADP
REVISION/ACTION TAKEN	
NOT RELEASED FOR CONSTRUCTION BY	DATE

BERTHE BRIDGE & ASSOCIATED
INFRASTRUCTURE

ATTORNEY: C. RETANNA, P.E.
FL Reg. Engineer #77540
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1103 PLYMOUTH CITY BEACH ROADWAY, SUITE 110 PLYMOUTH CITY BEACH, FL 32119 (904) 206-1919
ENGINEERING BUSINESS ES 000000
Professional - Planning (92) South - Transportation - Major



EXISTING CONDITIONS PLAN
SCALE: 1" = 20'
0 10' 20' 40'

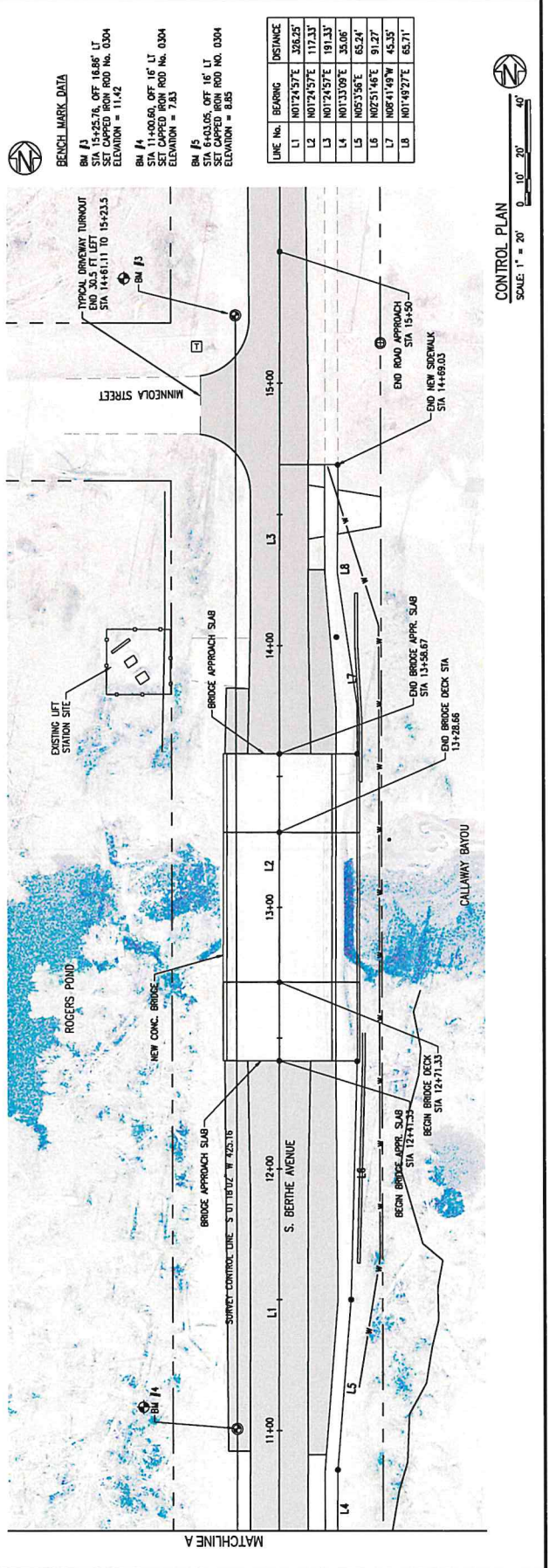
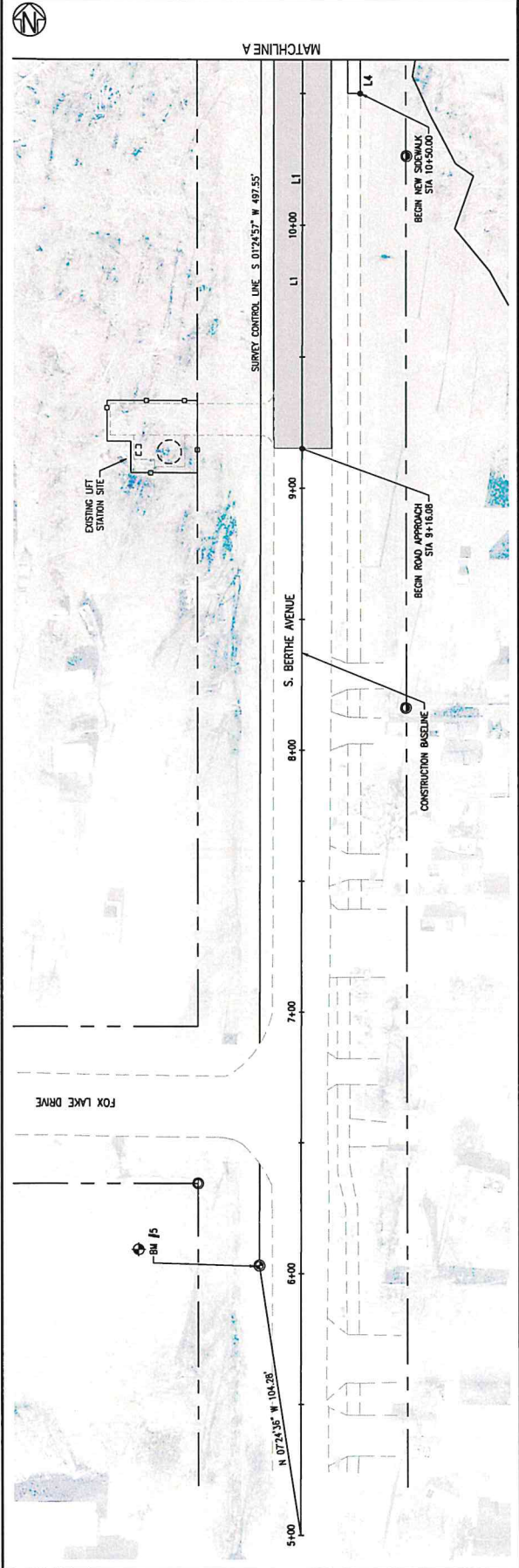
BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1111 FLORIDA CITY BEACH PARKWAY, SUITE 110 FLORIDA CITY BEACH, FL 32110 (386) 236-6195
ENGINEERING BUSINESS ES-000004
Pensacola - Panama City Beach - Tallahassee - Mableton
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FL Reg. Engineer #77540
JERRY C. RICHMOND, P.E.

BERTHE BRIDGE & ASSOCIATED INFRASTRUCTURE

PROJECT NO.	27653.01
DATE	10-7-22
APPR.	REV. 1 BY A000004 JB
REVISION/ACTION TAKEN	
NOT RELEASED FOR CONSTRUCTION BY DATE	

CONTROL PLAN

C-103



BENCH MARK DATA

LINE No.	BEARING	DISTANCE
L1	N07°24'57"E	326.25'
L2	N07°24'57"E	117.33'
L3	N07°24'57"E	191.33'
L4	N07°33'09"E	35.06'
L5	N02°3'56"E	63.24'
L6	N02°51'46"E	91.27'
L7	N06°11'49"W	43.35'
L8	N07°49'27"E	63.71'

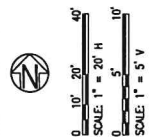
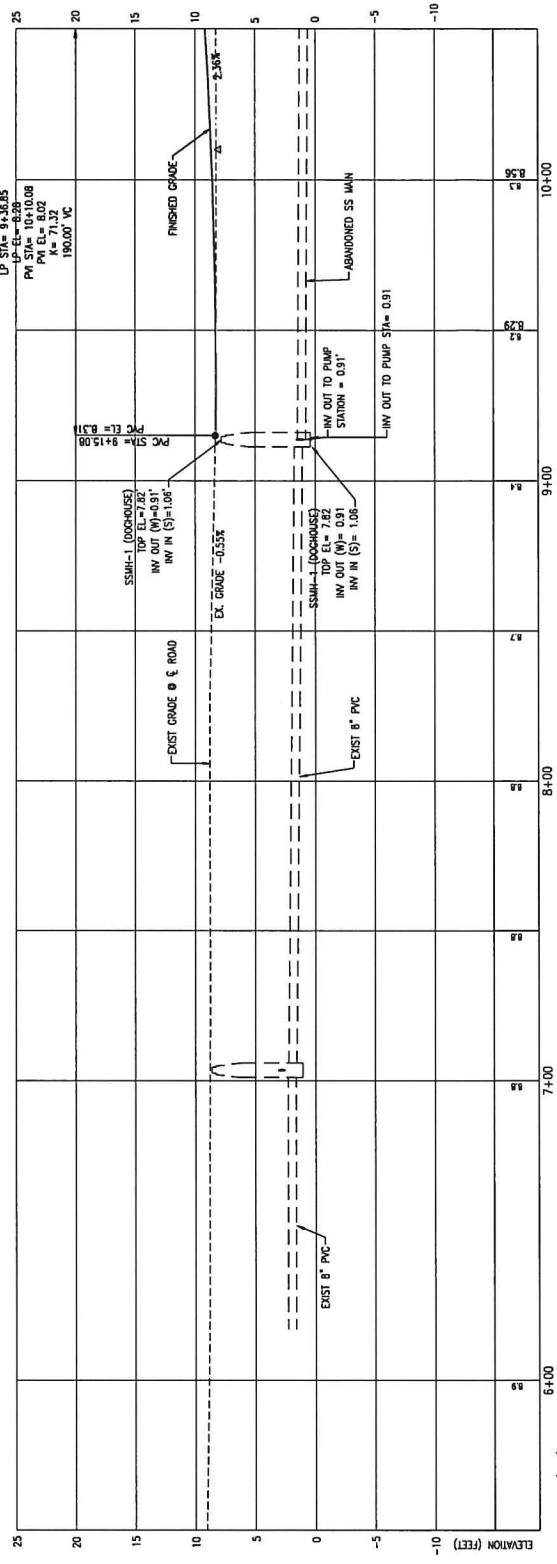
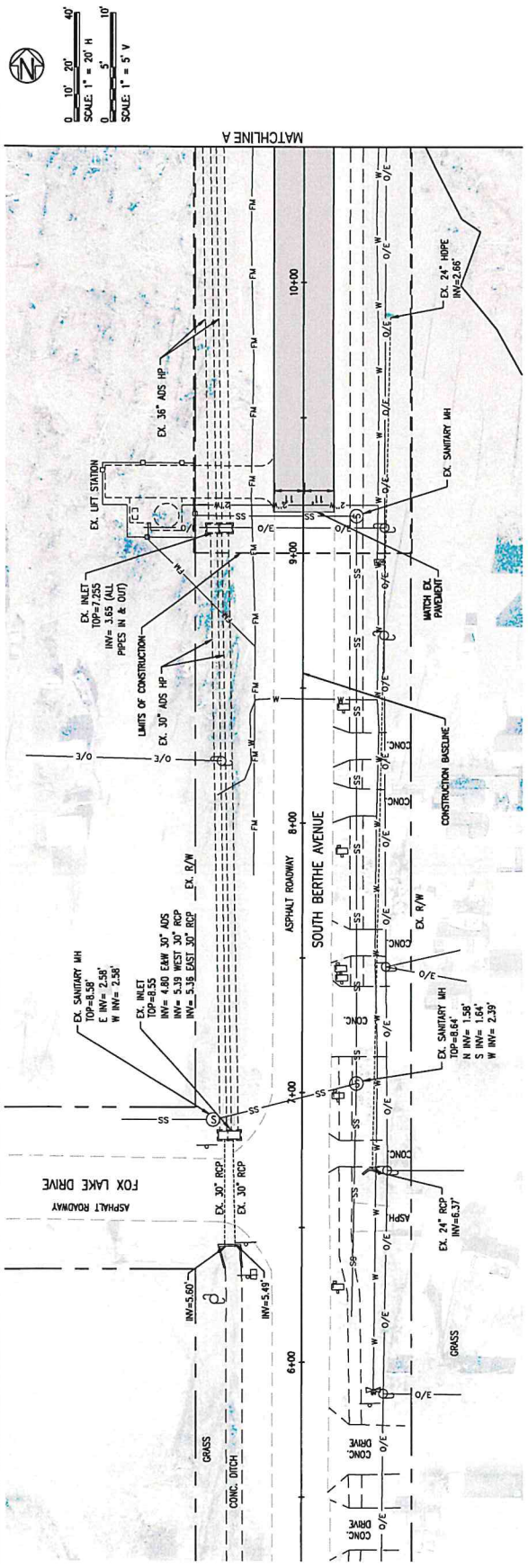
CONTROL PLAN
SCALE: 1" = 20'
0" 10' 20' 40'

ROADWAY
PLAN AND PROFILE

PROJECT NO.	27653.01
DESIGNED BY	APR
DATE	15-7-22
APPROVED	REV. 1 BY ADRIANA EJ
REVISION/ACTION	TAKEEN
NOT RELEASED FOR CONSTRUCTION BY	DATE

BERTHE BRIDGE &
ASSOCIATED
INFRASTRUCTURE

BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1101 PAVANA CT BEACH PARKWAY SUITE 113 PAVANA CT BEACH, FL 32113 (352) 204-1510
ENGINEERING BUSINESS ENR000010
Pavanna Pavana City Beach, Tallahassee, Florida
L. Reg. Engineer #77340
The client is the owner of BASKERVILLE-DONOVAN, INC. and it will be responsible in whole or in part for the design and construction of the project and for the accuracy of the information provided.

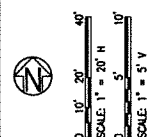
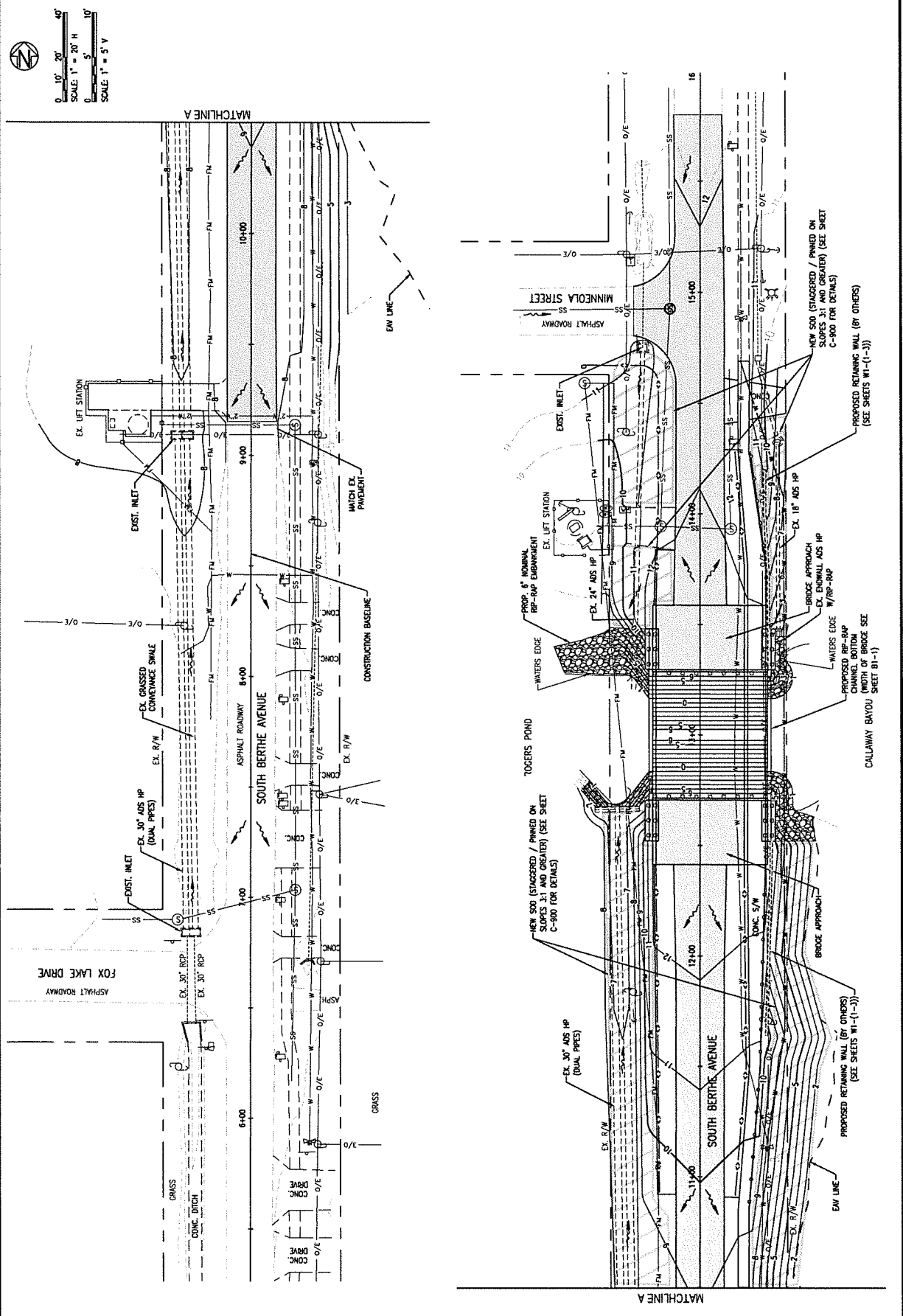


GRADING PLAN

PROJECT NO.	27653.01
DATE	15-7-22 JCF
REV. 1	20 APPROX. JF
DATE	APPR.
REVISION/ACTION TAKEN	
NOT RELEASED FOR CONSTRUCTION BY	DATE
PROJ. NO.	JCF
CHG'D BY:	GM
CHK'D BY:	GM
DATE:	OCT 2022

BERTHE BRIDGE & ASSOCIATED INFRASTRUCTURE

BASKERVILLE-DONOVAN, INC. ENGINEERING THE SOUTH SINCE 1927
 1151 PLYMOUTH CITY BEACH PARKWAY, SUITE 110 PLYMOUTH CITY BEACH, FL 32019 (850) 204-1510
 ENGINEERING THE SOUTH SINCE 1927
 1151 PLYMOUTH CITY BEACH PARKWAY, SUITE 110 PLYMOUTH CITY BEACH, FL 32019 (850) 204-1510
 PROVIDING ENGINEERING, ARCHITECTURE, SURVEYING, AND LANDSCAPE ARCHITECTURE SERVICES
 ATTEN: C. RYAN, P.E.
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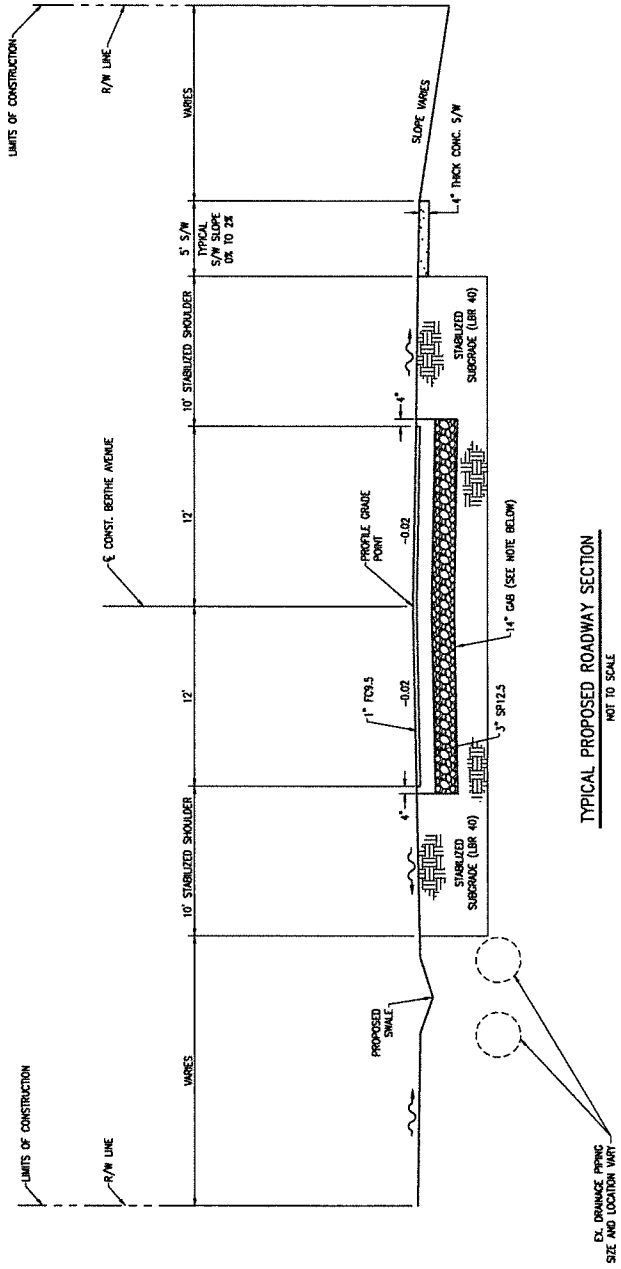


TYPICAL ROADWAY SECTION

PROJECT NO.	27553.01
DATE	10-7-23
APPROVED	[Signature]
REVISION/ACTION TAKEN	
DATE	
NOT RELEASED FOR CONSTRUCTION BY	
PROJECT NO.	
DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

BERTHE BRIDGE & ASSOCIATED INFRASTRUCTURE

ATTORNEY C. RYDMAN, P.E.
 1110 PLYMOUTH CITY BEACH DRIVE, SUITE 110 PLYMOUTH CITY BEACH, NC 28586
 ENGINEERING THE SOUTH SINCE 1927
 BASKERVILLE-DONOVAN, INC.



TYPICAL PROPOSED ROADWAY SECTION

NOT TO SCALE
 STA. 9+15.06 TO STA. 12+41.33
 STA. 13+58.67 TO STA. 15+50.00

TRAFFIC DATA

2019 ADIT = 400
 CURRENT YEAR
 ESTIMATED DESIGN YEAR = 2040 ADIT = 600
 ESTIMATED DESIGN YEAR = 2040 ADIT = 600
 K = 8K, D = 51.5K, T = 14.5K (24 HOUR)
 DESIGN HOUR T = 14.5K
 DESIGN SPEED = 45 MPH

RECONSTRUCTION

TYPE SP12.5 STRUCTURAL COURSE (TRAFFIC C) (17)
 TYPE FC-4.5 FRICTION COURSE (TRAFFIC C) (17)
 OPTIONAL BASE GROUP 9 (1.5\"/>

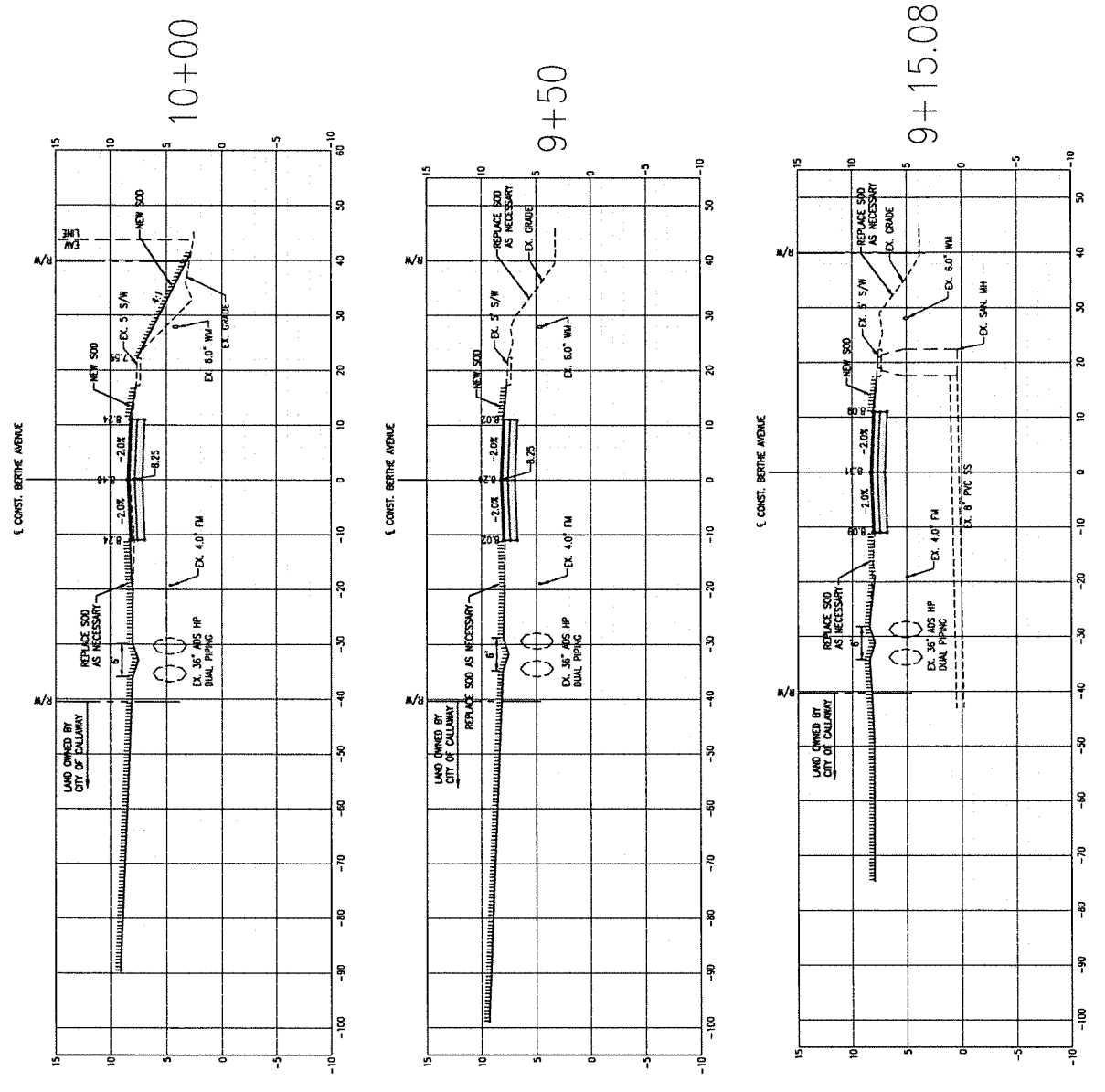
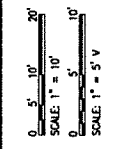
EX. DRAINAGE PIPING
 SIZE AND LOCATION VARY

R/W TO R/W
CROSS-SECTIONS

PROJECT NO.	2653.01
DATE	10-7-22
APPR.	BY 180 ASSOCIATES
REVISION/ACTION TAKEN	
DATE	
BY	
FOR RELEASED FOR CONSTRUCTION BY	DATE
PROJECT MGR. JCP	
CHK'D BY: BHM	
DESIGNED BY: JCP	

BERTHE BRIDGE & ASSOCIATED INFRASTRUCTURE

11101 PALMWAY CITY BEACH PARKWAY, SUITE 110 PALMWAY CITY BEACH, FL 32113 (904) 204-1150
 ENGINEERING BUSINESS ESTABLISHED
 BASKERVILLE-DONOVAN, INC.
 ENGINEERING THE SOUTH SINCE 1927

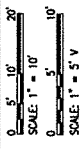
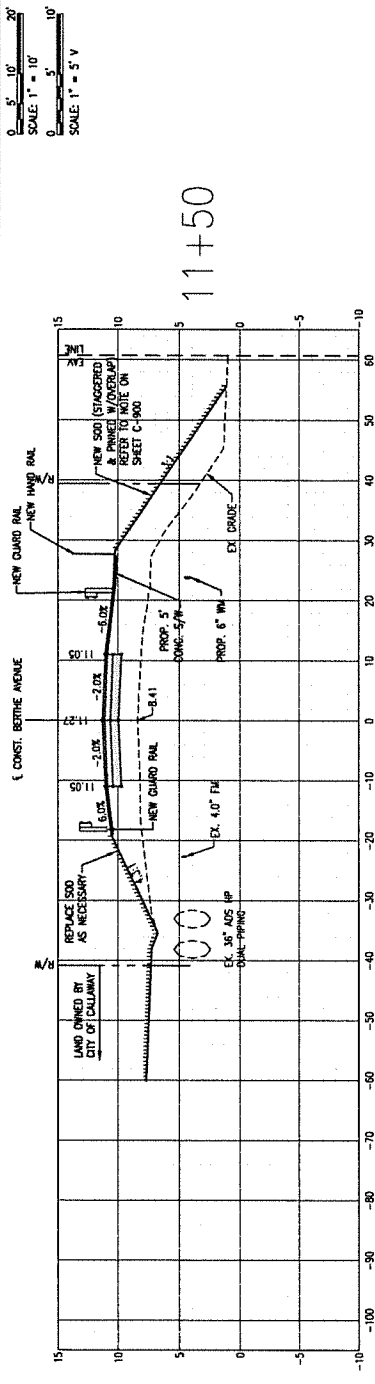
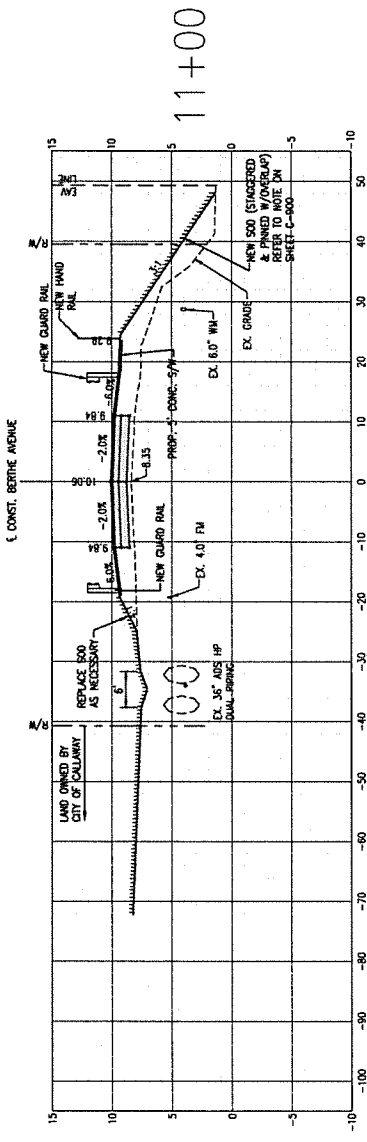
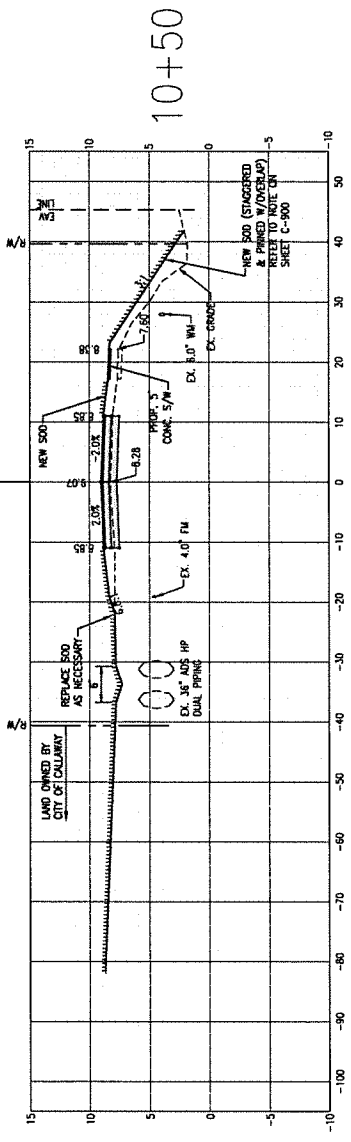


R/W TO R/W
CROSS-SECTIONS

PROJECT NO.	27653.01
DATE	12-22-22
APPROVED	REV. 1 BY: [Signature]
REVISION/ACTION TAKEN	
NOT RELEASED FOR CONSTRUCTION BY	DATE
PROJ. NO.	
CDR. BY	
DRWN. BY	
CHECKED BY	

BERTHE BRIDGE & ASSOCIATED
INFRASTRUCTURE

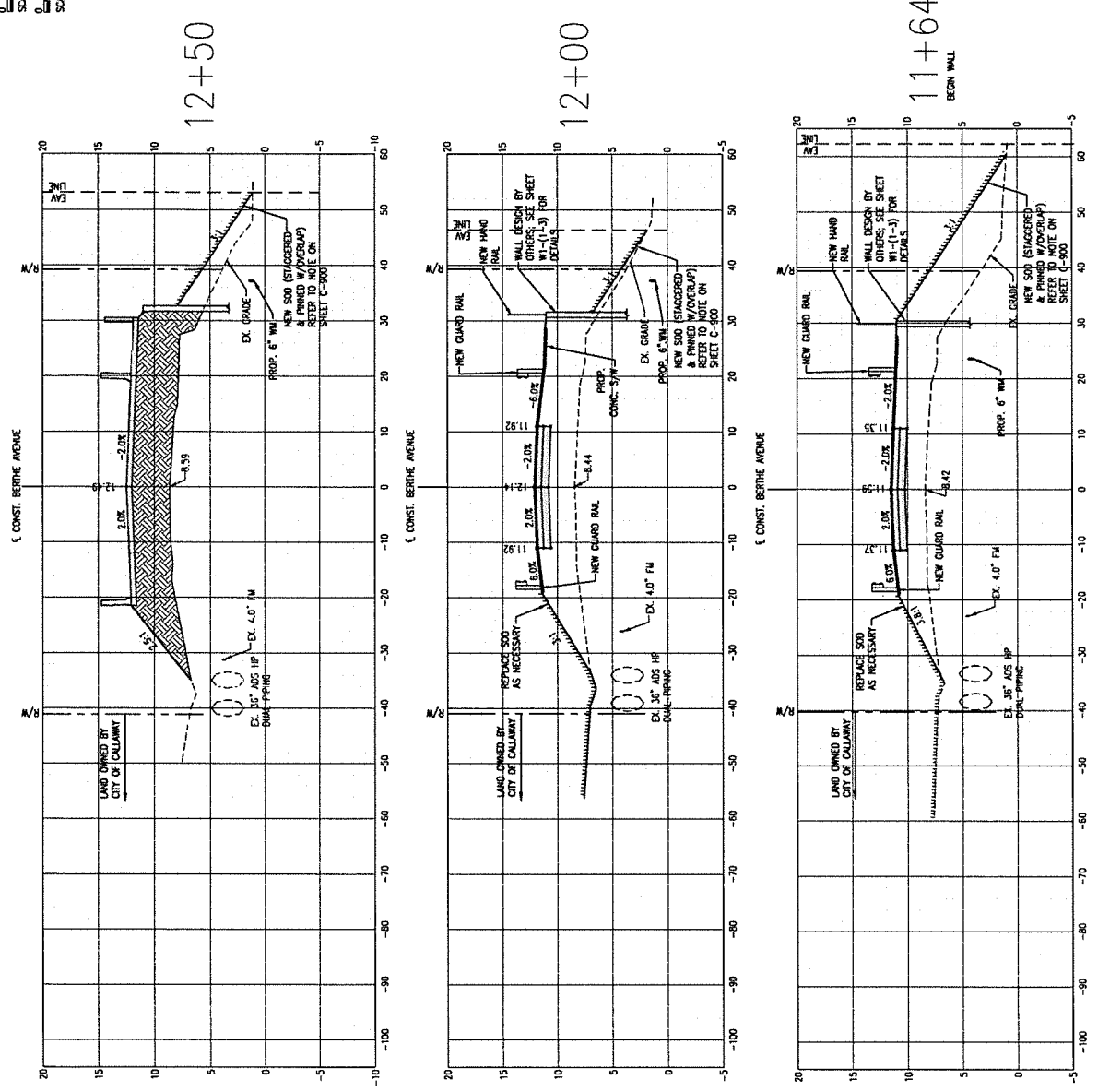
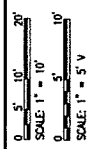
ATTORNEY C. MITCHELL, P.E.
1115 PLYMOUTH CITY CENTER DRIVE, SUITE 110 PLYMOUTH CITY, OHIO 43084
BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927



PROJECT NO.	27653.01
DATE	10-7-22
APPROVED	[Signature]
REVISION/ACTION TAKEN	
NO.	DATE
1	10-7-22
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100	10-7-22

BERTHE BRIDGE & ASSOCIATED
INFRASTRUCTURE

OTHER C. RETURN #77540
DATE: OCT 2022
PROJECT NO. 27653.01
DRAWN BY: BJC
CHECKED BY: BJC
DATE: 10-7-22
APPROVED BY: [Signature]
REVISION/ACTION TAKEN

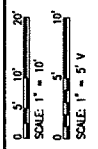
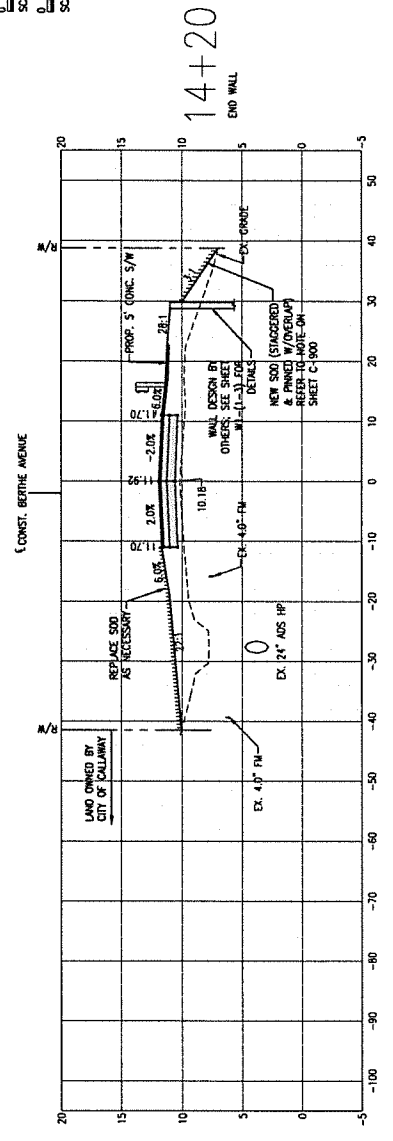
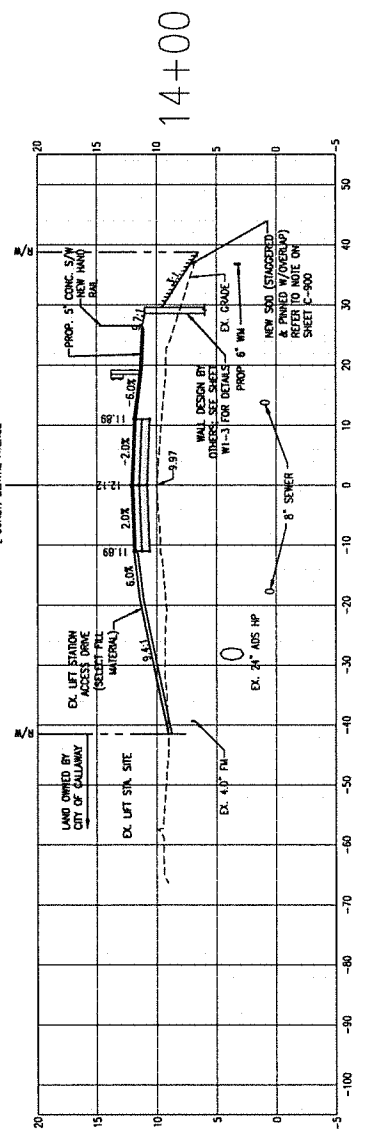
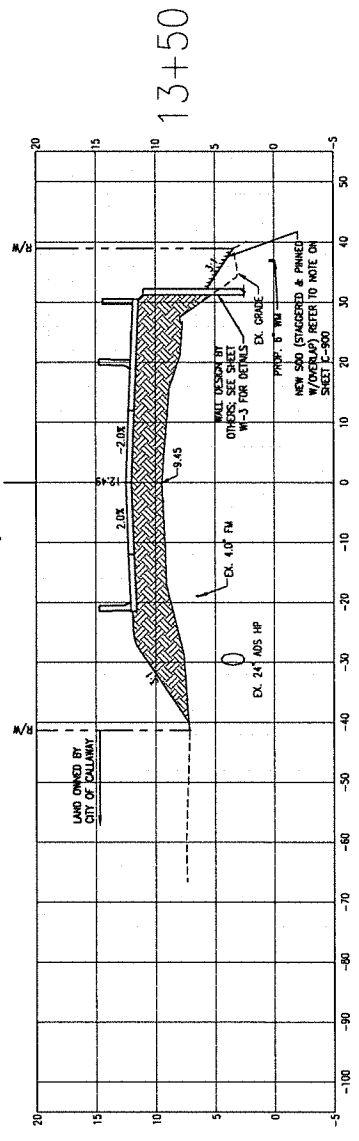


PROJECT NO.	27653.01
REVISION NO.	1
DATE	10-7-22
APPROVED BY	[Signature]
REVISION/ACTION TAKEN	
DATE	
APPROVED BY	
REVISION/ACTION TAKEN	
DATE	
APPROVED BY	
REVISION/ACTION TAKEN	
DATE	
APPROVED BY	
REVISION/ACTION TAKEN	

BERTHE BRIDGE & ASSOCIATED
INFRASTRUCTURE

DATE: OCT 2022
 PROJ. NO.: 27653.01
 DRAWN BY: BML
 CHECKED BY: BML
 REVISION NO.: 1
 DATE: 10-7-22
 PROJECT NO.: 27653.01

ENGINEERING THE SOUTH SINCE 1927
 BASKERVILLE-DONOVAN, INC.
 1107 PALMWAY CITY BEACH PARKWAY, SUITE 110 PALMWAY CITY BEACH, FL 32911 (850) 204-1810
 EXHIBITING BUSINESS LICENSE
 PROFESSIONAL ENGINEERING CERTIFICATE NO. 12488
 STATE OF FLORIDA
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 LICENSE NO. 12488
 DATE OF EXPIRATION: 12/31/2024

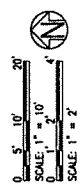
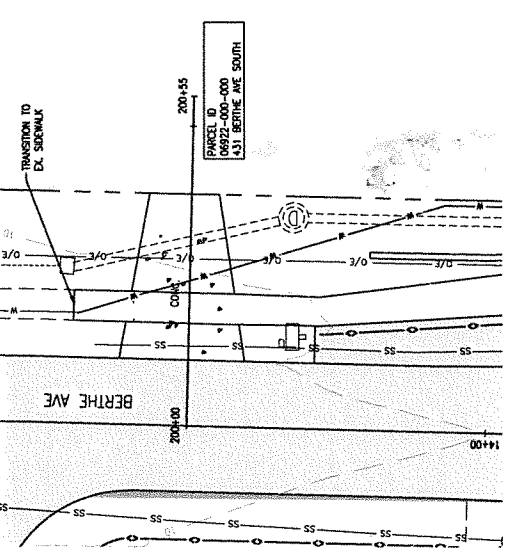
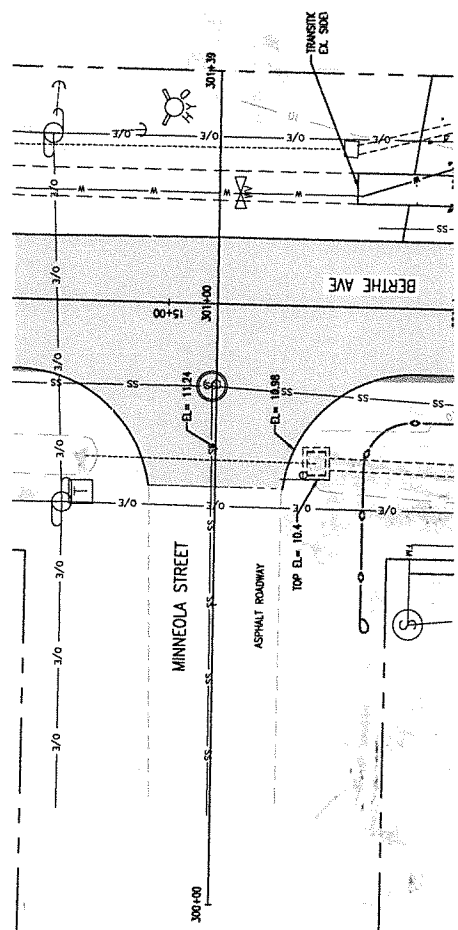
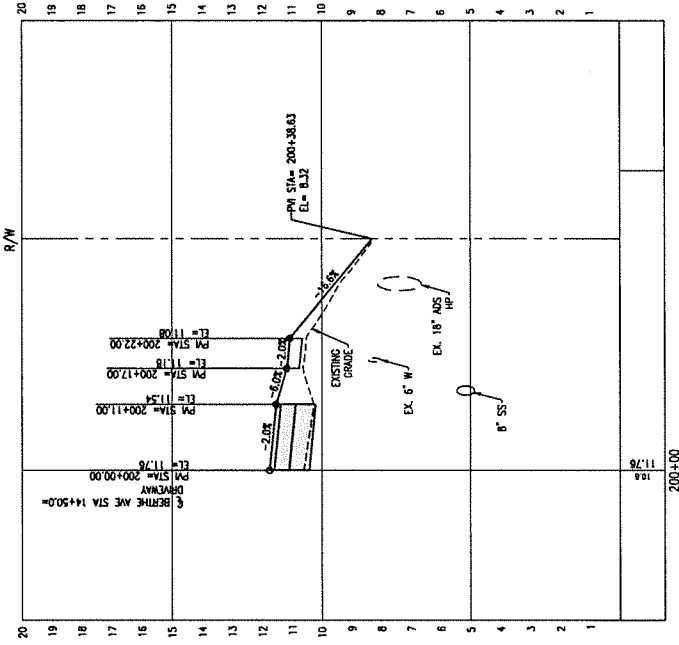
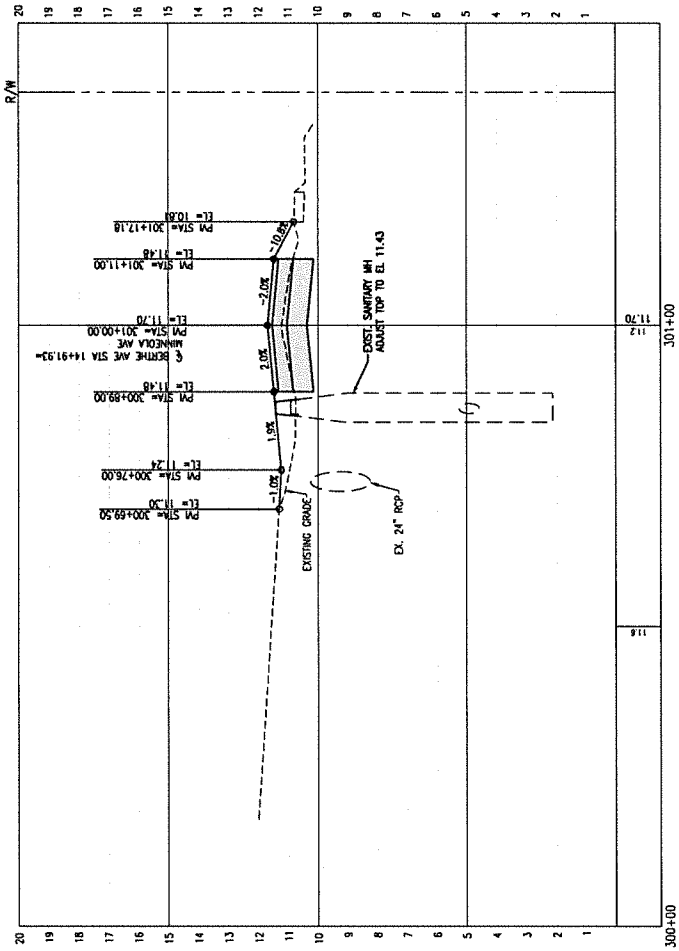


DRIVEWAY/MINNEOLA ST
PLAN AND PROFILE

PROJECT NO.	27653.01
DESIGNED BY	JCF
CHECKED BY	JCF
DATE	10-27-22
REV.	1.00 (ADDUMUM E)
APPROVED	[Signature]
DATE	10-27-22
REVISION/ACTION	TAKEN
NOT RELEASED FOR CONSTRUCTION BY	DATE

BERTHE BRIDGE & ASSOCIATED INFRASTRUCTURE

ATTORNEY AT LAW
L. RAY, ENGINEER #77540
11101 PLYMOUTH CITY BEACH HIGHWAY, SUITE 112 PLYMOUTH CITY, OHIO 43084
ENGINEERING BUSINESS (800)204-1510
BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927

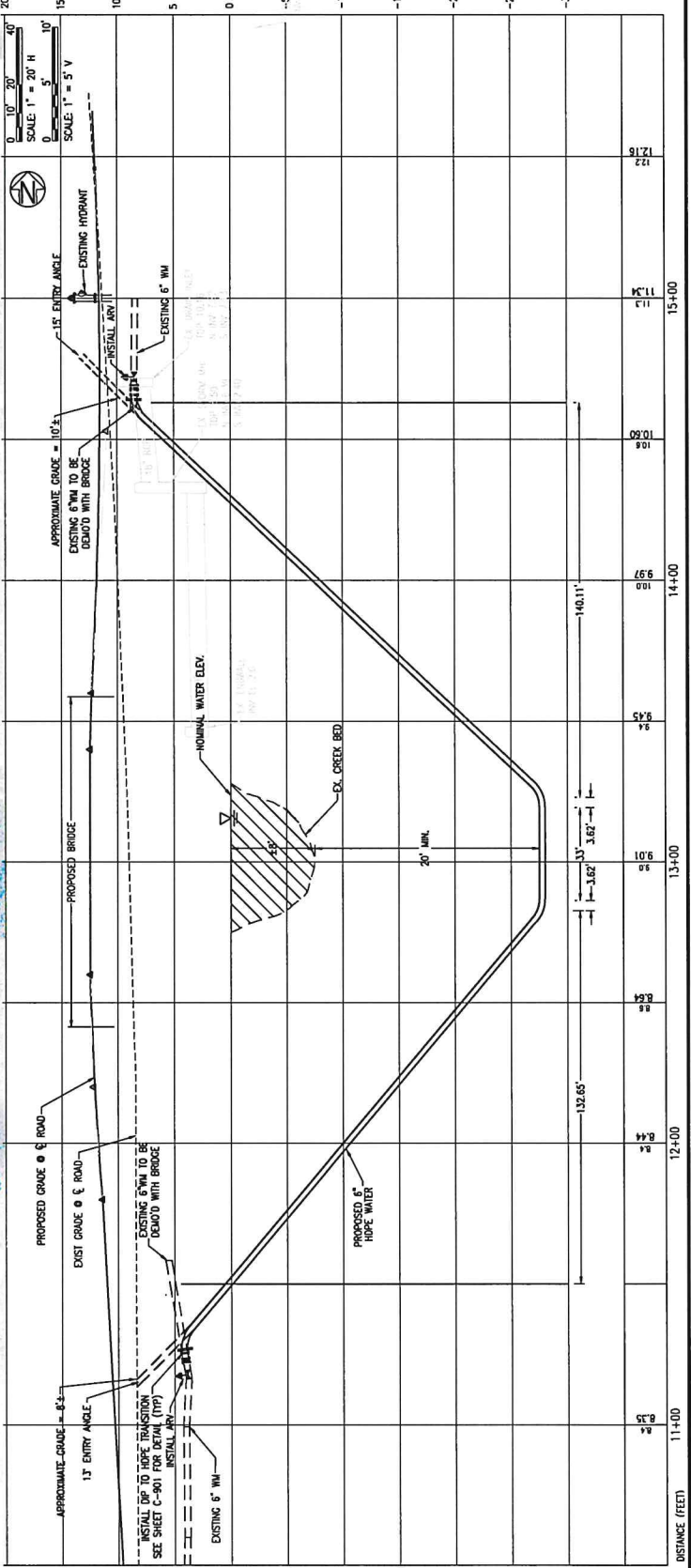
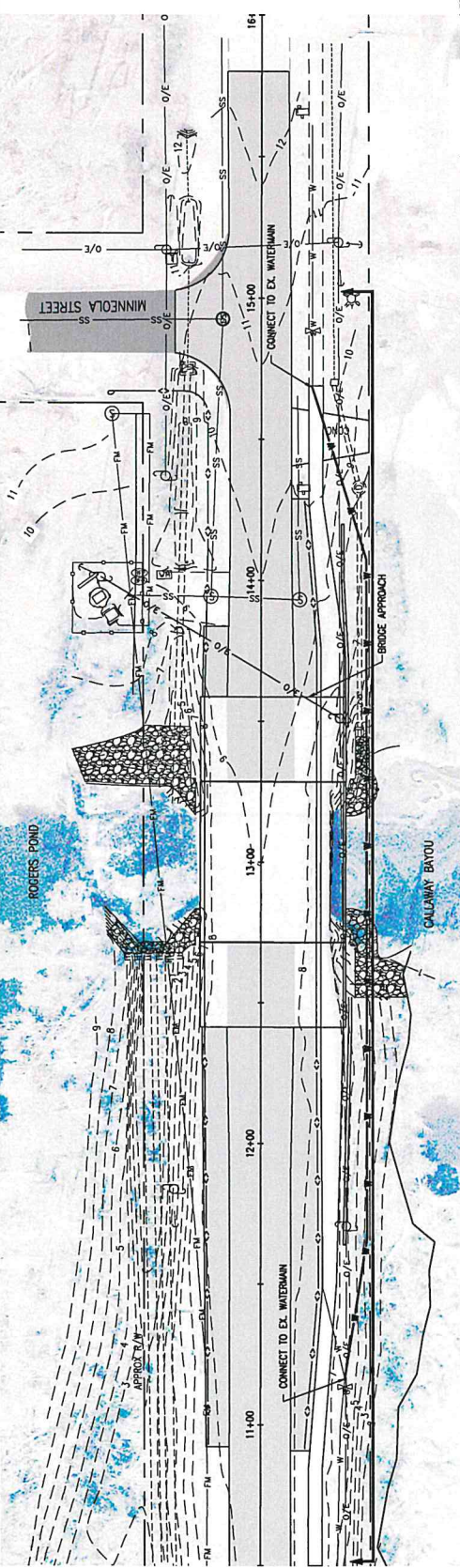


DIRECTIONAL DRILL
WATER MAIN

PROJECT NO.	27653.01
DESIGNED BY:	JCP
DRAWN BY:	MCC
CHECKED BY:	DM
PROJ. MGR:	JCP
DATE:	OCT 2022
NOT RELEASED FOR CONSTRUCTION BY DATE	
REV. 1	RD ADDITIONAL JS
DATE	10-7-22
APPR.	JCP
REVISION/ACTION TAKEN	

BERTHE BRIDGE & ASSOCIATED
INFRASTRUCTURE

ATTNEY C. REYNOLDS, P.E.
FL Reg. Engineer #77340
This drawing is the property of BERTHE BRIDGE & ASSOCIATED. It shall be the responsibility of the user to verify that it is not for use on any other project and to be returned upon request.
BASKERVILLE-DONOVAN, INC.
ENGINEERING THE SOUTH SINCE 1927
1103 PALMVALE CITY BEACH PARKWAY, SUITE 110 PALMVALE CITY BEACH, FL 32113 (904) 204-1500
ENGINEERING BUSINESS ES. 0000000
PROVIDES PROFESSIONAL DESIGN, TRANSPORTATION - TRUCKS

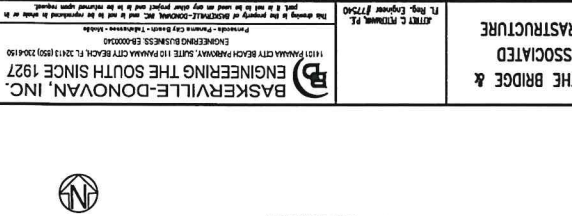
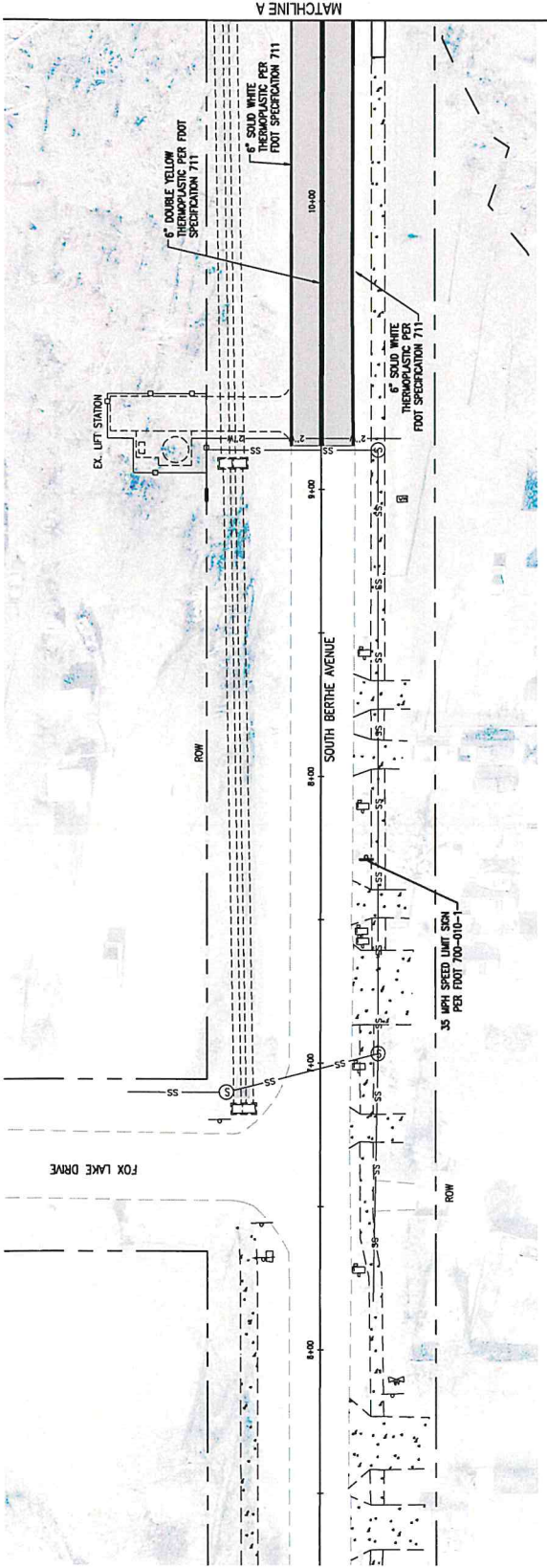
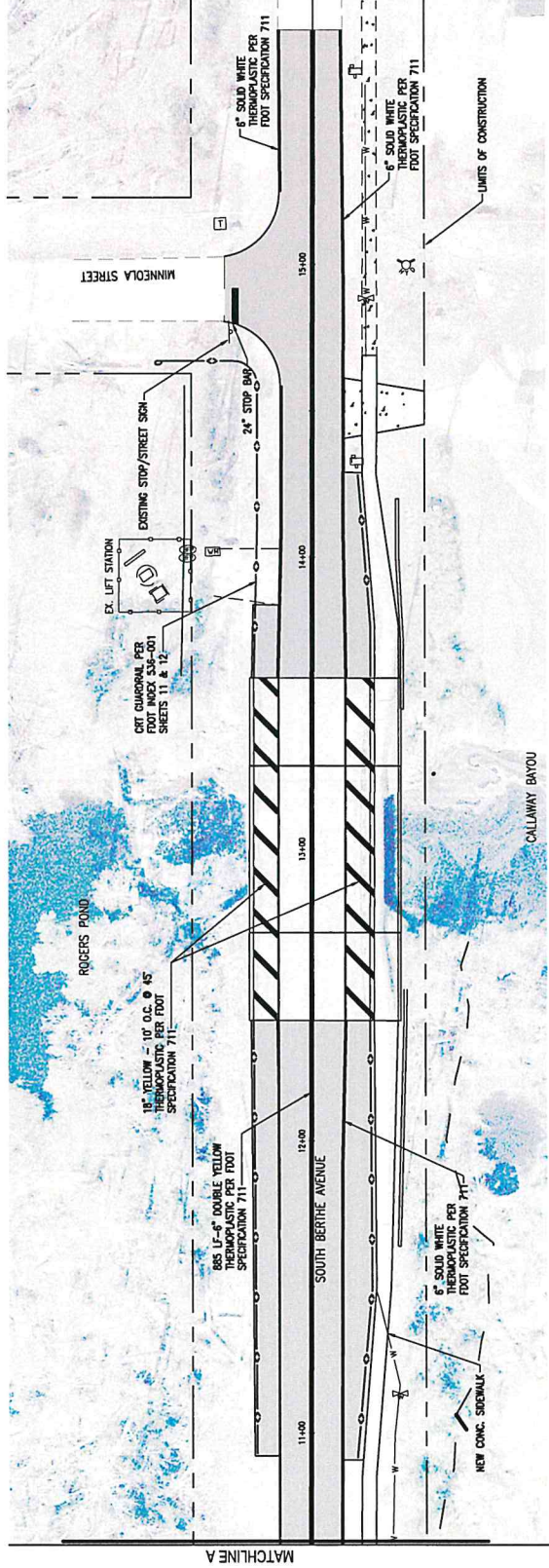


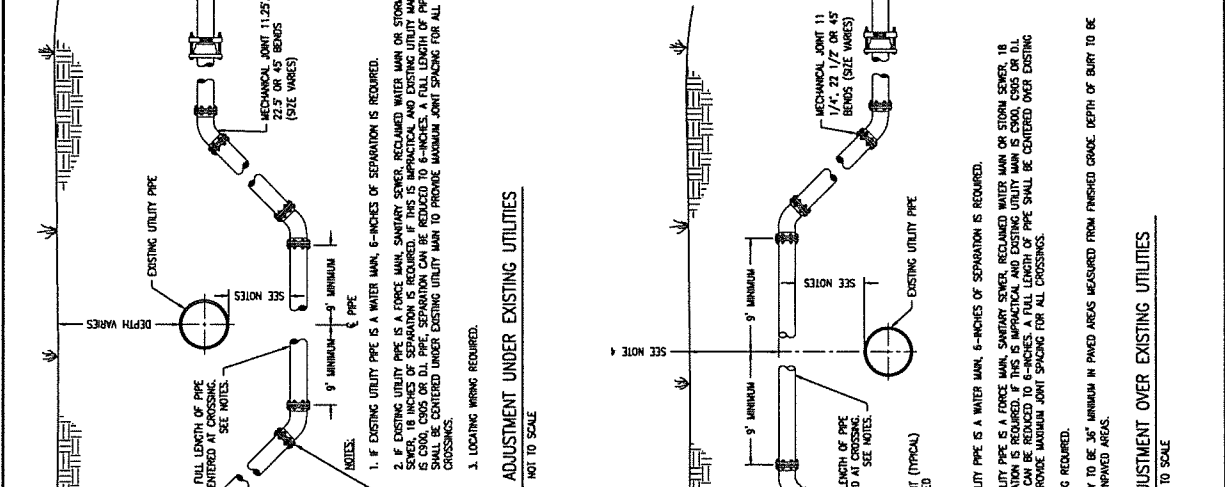
PROJECT NO.	27653.01
DATE	10-27-22
APPROVED	REV. 1 BY: ADO/AMM/BJ
REVISION/ACTION TAKEN	
NOT RELEASED FOR CONSTRUCTION BY	DATE
PROJ. NO.	
CHD. BY: CDM	
DRWN. BY: RCB	
CHECKED BY: JCF	

BERTHE BRIDGE &
ASSOCIATED
INFRASTRUCTURE

BASKERVILLE-DOVANN, INC.
ENGINEERING THE SOUTH SINCE 1927
1101 PALMYRA CITY BEACH TOWERWAY, PALMYRA CITY BEACH, FL 32913 (850) 204-6150
ENGINEERING BUSINESS: EB000040
PROVIDERS: PALMYRA CITY BEACH - PALMYRA CITY BEACH - FLORIDA
FL Reg. Engineer #77500

OVERALL PLAN
SCALE: 1" = 20'





NOTES:

1. IF EXISTING UTILITY PIPE IS A WATER MAIN, 6-INCHES OF SEPARATION IS REQUIRED.
2. IF EXISTING UTILITY PIPE IS A FORCE MAIN, SANITARY SEWER, RECLAIMED WATER MAIN OR STORM SEWER, 18-INCHES OF SEPARATION IS REQUIRED. IF THIS IS IMPRACTICAL, AND EXISTING UTILITY MAIN IS C900, C905 OR D.I. PIPE, SEPARATION CAN BE REDUCED TO 6-INCHES. A FULL LENGTH OF PIPE SHALL BE CENTERED UNDER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
3. LOCATING WIRING REQUIRED.

ADJUSTMENT UNDER EXISTING UTILITIES

NOT TO SCALE

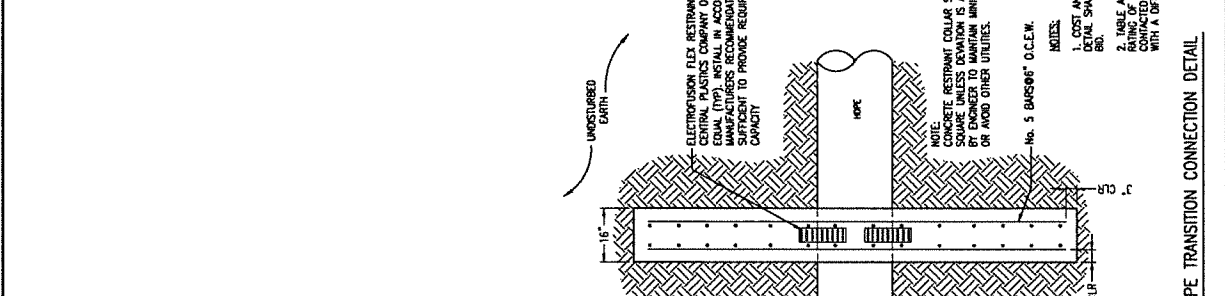


NOTES:

1. IF EXISTING UTILITY PIPE IS A WATER MAIN, 6-INCHES OF SEPARATION IS REQUIRED.
2. IF EXISTING UTILITY PIPE IS A FORCE MAIN, SANITARY SEWER, RECLAIMED WATER MAIN OR STORM SEWER, 18-INCHES OF SEPARATION IS REQUIRED. IF THIS IS IMPRACTICAL, AND EXISTING UTILITY MAIN IS C900, C905 OR D.I. PIPE, SEPARATION CAN BE REDUCED TO 6-INCHES. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
3. LOCATING WIRING REQUIRED.
4. DEPTH OF BURY TO BE 36" MINIMUM IN PAVED AREAS MEASURED FROM FINISHED GRADE. DEPTH OF BURY TO BE 30" MINIMUM IN UNPAVED AREAS.

ADJUSTMENT OVER EXISTING UTILITIES

NOT TO SCALE



NOTE:

CONCRETE RESTRAINT COLLAR SHALL BE SQUARE UNLESS OTHERWISE APPROVED. RESTRAINT SHALL BE MINIMUM COVER OR HOOD OTHER UTILITIES.

NO. 5 BARS@8" O.C.E.W.

NOTES:

1. COST AND PAYMENT ASSOCIATED WITH THIS DETAIL SHALL BE INCLUDED IN DIRECTIONAL DRILL BUD.
2. TABLE AND DETAIL BASED ON PRESSURE RATING. CONTRACTOR SHALL BE CONTACTED PRIOR TO INSTALLATION IF A PIPE WITH A DIFFERENT PRESSURE RATING IS USED.

PVC TO HDPE TRANSITION CONNECTION DETAIL

NOT TO SCALE

HOPE PIPE DIAMETER (INCHES)	NO. "X"	REQUIRED RESTRAINT CAPACITY (lb)
12"	20"	17,000
14"	23"	21,000
16"	26"	30,000

