

RESOLUTION NO. 2024-412

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, APPROVING THE TERMS, CONDITIONS, PROVISIONS, AND REQUIREMENTS OF A CONSTRUCTION AGREEMENT BETWEEN ST. JOHNS COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION FOR THE SR 207 AT HILLTOP ROAD INTERSECTION IMPROVEMENTS PROJECT; AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO EXECUTE THE CONSTRUCTION AGREEMENT ON BEHALF OF THE COUNTY; PROVIDING INSTRUCTIONS TO THE CLERK OF COURT; PROVIDING AN EFFECTIVE DATE.

RECITALS

WHEREAS, the County has initiated design for roadway improvements at the referenced location; and

WHEREAS, the Project will improve the intersection of SR 207 at Hilltop Road, a major intersection in St. Johns County; and

WHEREAS, the County determines that entering into the Construction Agreement serves a public purpose, and is in the interest of County for the health, safety, and welfare of its citizens

NOW, THEREFORE, be it resolved by the St. Johns County Board of County Commissioners, as follows:

Section 1: The above recitals are hereby adopted as legislative findings of fact and incorporated herein.

Section 2: The Board of County Commissioners of St. Johns County, Florida hereby approves the terms, conditions, provisions, and requirements of the Construction Agreement between St. Johns County and the Florida Department of Transportation, and authorizes the County Administrator, or designee, to execute the agreement on behalf of the County, in substantially the same form and format as attached hereto;

Section 3: The Clerk is instructed to have two (2) copies of the original Construction Agreement executed by the County Administrator, or designee, and mailed to the State of Florida Department of Transportation, Attn: Mr. Christopher Pogue, FDOT Maintenance Permits Manager, 3600 DOT Road, St. Augustine, Florida, 32084.

Section 4: To the extent that there are typographical or administrative errors and/or omissions that do not change the tone, tenor, or concept of this resolution, this Resolution may be revised without subsequent approval of the Board of County Commissioners

Section 5: This Resolution shall become effective immediately upon its passage and adoption.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this 1st day of October, 2024.

**BOARD OF COUNTY COMMISSIONERS
OF ST. JOHNS COUNTY, FLORIDA**

Rendition Date OCT 07 2024

By: _____
Sarah Arnold, Chair

ATTEST: Brandon J. Patty,
Clerk of the Circuit Court and Comptroller

By: Crystal Smith
Deputy Clerk



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AGREEMENT

850-040-89
MAINTENANCE
OGC – 10/23
Page 1 of 5

20Construction Agreement No.: 2023-C-297-00005

THIS CONSTRUCTION AGREEMENT ("Agreement") is made and entered into by and between the State of Florida, Department of Transportation, 3600 DOT Rd St Augustine, FL 32084 (hereinafter referred to as the "DEPARTMENT") and ST Johns County 2750 Industry Center Rd St Augustine FL 32084 (hereinafter referred to as the "Construction Coordinator").

WITNESSETH:

WHEREAS, the DEPARTMENT is authorized and required by Section 334.044, Florida Statutes, to coordinate the planning, development, and operation of the State Highway System; and

WHEREAS, pursuant to Section 20.23(6), Florida Statutes, the DEPARTMENT is authorized to contract with local governmental entities and with the private sector under specific circumstances; and

WHEREAS, Section 339.282, Florida Statutes, provides incentives to private sector entities that finance, construct, and improve public transportation facilities; and

WHEREAS, pursuant to Section 334.175(2), Florida Statutes, the DEPARTMENT is required to review the Project's design plans for compliance with Department design standards; and

WHEREAS, the Construction Coordinator proposes to construct certain improvements to SR 207 @ Hill Top Rd, Section 051 Subsection 000 from Begin MP 14.86 Local Name SR 207 @ Hill Top Rd Intersection located in St Johns County (hereinafter referred to as the "Project"); and

WHEREAS, the parties desire to enter into this Agreement for the Construction Coordinator to make improvements within the DEPARTMENT'S right of way to construct the Project, which will become the property of the DEPARTMENT upon acceptance of the work.

NOW, THEREFORE, based on the premises above, and in consideration of the mutual covenants contained herein, the parties hereby agree that the construction of the Project shall proceed in accordance with the following terms and conditions:

1. The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement. The Construction Coordinator is authorized, subject to the conditions set forth herein, to enter the DEPARTMENT'S right of way to perform all activities necessary for the construction Improvements of SR 207 @ Hill Top Rd Intersection **See attached Exhibit A Scope of Services/Special Provisions/Plans.**
2. The Project shall be designed and constructed in accordance with the latest edition of the Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction ("FDOT Standard Specifications"), FDOT Standard Plans and FHWA Manual on Uniform Traffic Control Devices ("MUTCD"). The following guidelines shall apply as deemed appropriate by the DEPARTMENT: the FDOT Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, the FDOT Design Manual, Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (commonly known as the "Florida Greenbook") and the FDOT Traffic Engineering Manual. The Construction Coordinator will be required to submit any construction plans required by the DEPARTMENT for review and written approval prior to any work being commenced. Should any changes to the plans be required during construction of the Project, the Construction Coordinator shall be required to notify the DEPARTMENT of the changes and receive written approval from the DEPARTMENT prior to the changes being constructed. The Construction Coordinator shall maintain the area of the Project at all times and coordinate any work needs of the DEPARTMENT during construction of the Project.
3. In its sole discretion, the DEPARTMENT may reject designs which do not meet DEPARTMENT standards. The DEPARTMENT may also, in its sole discretion, allocate DEPARTMENT-managed resources, including structures engineers and/or project managers, to projects involving complex design structures and other design structures not commonly used by the DEPARTMENT. In addition, all complex bridges and bridge types not commonly used by the DEPARTMENT constructed via this Agreement will be monitored and inspected by DEPARTMENT personnel.
4. The Construction Coordinator shall provide the DEPARTMENT a minimum of 2 business days' notice before beginning construction within DEPARTMENT right of way. The Construction Coordinator shall notify the DEPARTMENT should construction be suspended for more than 5 working days.
5. Pursuant to Section 7-13 of the DEPARTMENT Standard Specifications, the Construction Coordinator is required to possess a general liability insurance naming the DEPARTMENT as an additional insured and insuring the DEPARTMENT and the Construction Coordinator against any and all claims for injury or damage to persons and property, and for the loss of life or property that may occur (directly or indirectly) by reason of the Construction Coordinator accessing DEPARTMENT right of way and the Construction Coordinator's performance of the Project. Such amount shall be carried in a minimum amount of not less than One Million and 00/100 Dollars (\$1,000,000.00) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than Fifty Thousand and 00/100 Dollars (\$50,000.00) for property damage, or a combined coverage of not less than One Million Fifty Thousand and 00/100 Dollars (\$1,050,000.00). Additionally, the Construction Coordinator shall supply the DEPARTMENT with a payment and performance bond in the amount of the estimated cost of construction, provided by a surety authorized to do business in the State of Florida, payable to the DEPARTMENT. The bond and insurance shall remain in effect until completion of construction and acceptance by the DEPARTMENT. Prior to commencement of the Project and on such other occasions as the DEPARTMENT may reasonably require, the Construction Coordinator shall provide the DEPARTMENT with

certificates documenting that the required insurance coverage is in place and effective. If the Construction Coordinator is a governmental entity, they will be exempt from these requirements..

6. The Construction Coordinator shall be responsible for monitoring construction operations and Temporary Traffic Control (TTC) throughout the course of the Project in accordance with the latest edition of the FDOT Standard Specifications, Section 102, Maintenance of Traffic, and FDOT Standard Plans, 102-600 series. The Construction Coordinator is responsible for the development of a TTC Plan and making any changes to that plan as necessary. Any TTC plan developed by the Construction Coordinator that deviates from the FDOT Standard Plans must be signed and sealed by a professional engineer. TTC plans will require written approval by the DEPARTMENT prior to implementation.
7. The Construction Coordinator shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations are accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.
8. The Construction Coordinator will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.
9. The Construction Coordinator shall take emergency steps to close any public road whenever there is a risk to life, health and safety of the travelling public. The safety of the travelling public is the DEPARTMENT'S first priority. If lane or road closures are required to ensure the life, health, and safety of the travelling public, the Construction Coordinator must notify the District Maintenance Engineer and District Traffic Operations Engineer immediately once the travelling public are not at imminent risk. The DEPARTMENT expects professional engineering judgement be applied in all aspects of locally or privately delivered projects. Defect management and supervision of Project bridge structures components must be proactively managed, monitored, and inspected by DEPARTMENT prequalified structures engineer(s). The District Maintenance Engineer must be notified immediately of defect monitoring that occurs in the Project construction, whether or not the defects are considered an imminent risk to life, health, or safety of the travelling public. When defects, including but not limited to, structural cracks, are initially detected during bridge construction, the engineer of record, construction engineering inspector, design-build firm, or local agency that owns or is responsible for the bridge construction has the authority to immediately close the bridge to construction personnel and close the road underneath. The Construction Coordinator shall also ensure compliance with the DEPARTMENT Construction Project Administration Manual, Section 9.1.8 regarding actions for maintenance of traffic and safety concerns.
10. It is hereby agreed by the parties that this Agreement creates a permissive use only and all improvements resulting from this agreement shall become the property of the DEPARTMENT. Neither the granting of the permission to use the DEPARTMENT right of way nor the placing of facilities upon the DEPARTMENT property shall operate to create or vest any property right to or in the Construction Coordinator, except as may otherwise be provided in separate agreements. The Construction Coordinator shall not acquire any right, title, interest, or estate in DEPARTMENT right of way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Construction Coordinator's use, occupancy, or possession of DEPARTMENT right of way. The parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to Chapter 163, Florida Statutes.
11. The Construction Coordinator shall perform all required testing associated with the design and construction of the Project. Testing results shall be made available to the DEPARTMENT upon request. The DEPARTMENT shall have the right to perform its own independent testing during the course of the Project.
12. The Construction Coordinator shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards, and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the DEPARTMENT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, the Army Corps of Engineers, the United States Coast Guard, and local governmental entities.
13. The Construction Coordinator is responsible for the provision of Construction Engineering Inspection (CEI) services. The DEPARTMENT reserves the right to require the Construction Coordinator to hire a DEPARTMENT pre-qualified consultant firm that includes one individual that has completed the Advanced Maintenance of Traffic Level Training. Notwithstanding any provision of law to the contrary, design services and CEI services may not be performed by the same entity. Administration of the CEI staff shall be under the responsible charge of a State of Florida Licensed Professional Engineer who shall provide the certification that all design and construction for the Project meets the minimum construction standards established by DEPARTMENT. The DEPARTMENT shall have the right to approve the CEI firm. The DEPARTMENT shall have the right, but not the obligation, to perform independent assurance testing during the course of construction of the Project. Subject to the written approval of the DEPARTMENT, a local government agency may choose to satisfy the requirements set forth in this paragraph by either hiring a DEPARTMENT prequalified consultant firm or utilizing local government staff that meet the requirements of this paragraph, or a combination thereof.
14. If the DEPARTMENT determines a condition exists which threatens the public's safety, the DEPARTMENT may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from its right of way at the sole cost, expense, and effort of the Construction Coordinator. The Construction Coordinator shall bear all construction delay costs incurred by the DEPARTMENT.
15. All work and construction shall be completed within 365 days of the date of the last signature affixed to this agreement. If construction is not completed within this time, the DEPARTMENT may make a claim on the bond. The DEPARTMENT may terminate this

Agreement at any time, with or without cause and without DEPARTMENT liability to the Construction Coordinator, by providing sixty (60) days' prior written notice of termination to the Construction Coordinator.

16. The Construction Coordinator shall be responsible for maintaining and restoring all features that might require relocation within the DEPARTMENT right of way.
17. The Construction Coordinator will be responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.
18. Upon completion of construction, the Construction Coordinator will be required to submit to the DEPARTMENT final as-built plans and an engineering certification that construction was completed in accordance with the Plans. Prior to the termination of this Agreement, the Construction Coordinator shall remove its presence, including, but not limited to, all of the Construction Coordinator's property, machinery, and equipment from DEPARTMENT right of way and shall restore those portions of DEPARTMENT right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.
19. If the DEPARTMENT determines that the Project is not completed in accordance with the Provisions of this Agreement, the DEPARTMENT shall deliver written notification of such to the Construction Coordinator. The Construction Coordinator shall have thirty (30) days from the date of receipt of the DEPARTMENT'S written notice, or such other time as the Construction Coordinator and the DEPARTMENT mutually agree to in writing, to complete the Project and provide the DEPARTMENT with written notice of the same (the "Notice of Completion"). If the Construction Coordinator fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the DEPARTMENT, within its discretion may: 1) provide the Construction Coordinator with written authorization granting such additional time as the DEPARTMENT deems appropriate to correct the deficiency(ies); or 2) file a claim against the payment and performance bond with the Surety for correction of the deficiency(ies) and completion of the contract; or 3) correct the deficiency(ies) at the Construction Coordinator's sole cost and expense, without DEPARTMENT liability to the Construction Coordinator for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the DEPARTMENT elects to correct the deficiency(ies), the DEPARTMENT shall provide the Construction Coordinator with an invoice for the costs incurred by the DEPARTMENT and the Construction Coordinator shall pay the invoice within thirty (30) days of the date of the invoice. If no payment is received within thirty (30) days from date of invoice submittal, the DEPARTMENT will file a claim against the bond for all expenses incurred, including services incidental to collecting losses.
20. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the DEPARTMENT'S sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes. The DEPARTMENT'S liability for breach of this Agreement is limited in amount and shall not exceed the limitations of liability for tort actions as set forth in Section 768.28(5), Florida Statutes.
21. All formal notices, proposed changes and determinations between the parties hereto and those required by this Agreement, including, but not limited to, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States mail, postage prepaid, to the parties at the contact information listed below. Electronic means of communication shall be sufficient if emailed to the parties at the contact information listed below.
22. The Construction Coordinator shall not cause any liens or encumbrances to attach to any portion of DEPARTMENT right of way.
23. This Agreement shall be governed by the laws of the State of Florida in terms of interpretation and performance. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.
24. The Construction Coordinator may not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the DEPARTMENT'S District Secretary or his/her designee. The DEPARTMENT has the sole discretion and authority to grant or deny proposed assignments, with or without cause. Nothing herein shall prevent the Construction Coordinator from delegating its duties hereunder, but such delegation shall not release the Construction Coordinator from its obligation to perform this Agreement.
25. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations, or remedies upon any other person or entity except as expressly provided for herein.
26. This instrument, together with the attached exhibits and documents made part hereof by reference, contain the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of this Agreement, and any part hereof, are waived, merged herein and superseded hereby.
27. By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in this Agreement and forever waive the right to object to or otherwise challenge the same.
28. The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquishment in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same.
29. No term or provision of this Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.
30. If any section, paragraph, clause or provision of this Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of this Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principal purposes of this Agreement remain enforceable.
31. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement. Modifications to the Agreement shall be included in Appendix B.

32. The Construction Coordinator agrees to promptly indemnify, defend, save and hold harmless the DEPARTMENT and all of its officers, agents and employees from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, penalties, costs, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, or arising out of or related to the performance or breach of this Agreement by the Construction Coordinator, including, without limitation, performance of the Project within the DEPARTMENT'S right of way. The term "liabilities" shall specifically include, without limitation, any act, action, neglect or omission by the Construction Coordinator, its officers, agents, employees or representatives in any way pertaining to this Agreement, whether direct or indirect, except that neither the Construction Coordinator nor any of its officers, agents, employees or representatives will be liable under this provision for damages arising out of injury or damages directly caused or resulting from the sole negligence, intentional or wrongful acts of the DEPARTMENT or any of its officers, agents or employees. The Construction Coordinator shall notify the DEPARTMENT in writing immediately upon becoming aware of such liabilities. The Construction Coordinator's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities assumed by the Construction Coordinator shall survive termination of this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.
33. The Construction Coordinator shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Construction Coordinator during the term of the contract; and
34. The Construction Coordinator shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
35. The Construction Coordinator shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the Construction Coordinator in conjunction with this Agreement. Specifically, if the Construction Coordinator is acting on behalf of a public agency the Construction Coordinator shall:
 - A. Keep and maintain public records that ordinarily and necessarily would be required by the DEPARTMENT in order to perform the services being performed by the Construction Coordinator.
 - B. Provide the public with access to public records on the same terms and conditions that the DEPARTMENT would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
 - C. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
 - D. Meet all requirements for retaining public records and transfer, at no cost, to the DEPARTMENT all public records in possession of the Construction Coordinator upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the DEPARTMENT in a format that is compatible with the information technology systems of the DEPARTMENT. Failure by the Construction Coordinator to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the DEPARTMENT. The Construction Coordinator shall promptly provide the DEPARTMENT with a copy of any request to inspect or copy public records in possession of the Construction Coordinator and shall promptly provide the DEPARTMENT a copy of the Construction Coordinator's response to each such request.

IF THE CONSTRUCTION COORDINATOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSTRUCTION COORDINATOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Central Office
850-414-5355
COprcustodian@dot.state.fl.us
Office of the General Counsel
Florida Department of Transportation
605 Suwannee Street, MS 58
Tallahassee, FL 32399-0458

CONSTRUCTION COORDINATOR CONTACT INFORMATION:

Name Duane Kent, PE Title County Engineer
Office No. 904-209-0113 Cell 904-417-5999 Email rkent@sjcfl.us
Address 2750 Industry Center Road, St Augustine, FL 32084

Name John Burnham, PE Title Project Engineer
Office No. 904-209-0122 Cell 904-484-8826 Email jburnham@sjcfl.us
Address 2750 Industry Center Road, St Augustine, FL 32084

DEPARTMENT CONTACT INFORMATION:

Name Chris Pogue Title FDOT St Augustine Maintenance Permits Manager
Office No. 904-825-5086 Cell 904-253-9157 Email Christopher.pogue@dot.state.fl.us
Address 3600 DOT Rd, St Augustine, FL 32084

IN WITNESS WHEREOF, Construction Coordinator and the DEPARTMENT have executed this Agreement for the purposes herein expressed on the dates indicated below.

CONSTRUCTION COORDINATOR

By: _____ (Signature)
_____ (Print Name)
_____ (Title)
_____ (Date)

DEPARTMENT OF TRANSPORTATION

By: _____ (Signature)
_____ (Print Name)
_____ (Title)
_____ (Date)

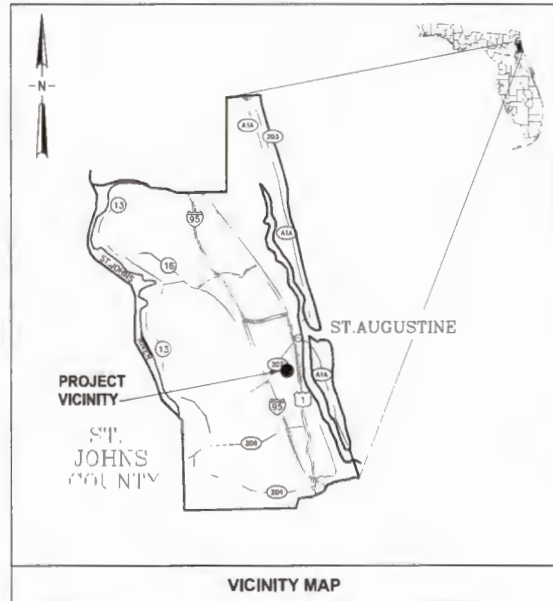
Legal Review:

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS

KINGS ESTATE ROAD AND HILLTOP ROAD

PHASE I

ST. JOHNS COUNTY, FLORIDA

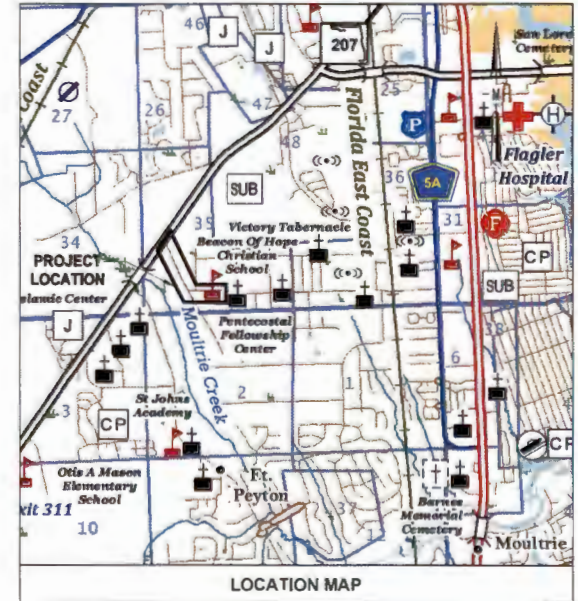


VICINITY MAP

PREPARED FOR:
ST. JOHNS COUNTY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 2750 INDUSTRY CENTER ROAD
 ST. AUGUSTINE, FLORIDA 32084
 PROJECT MANAGER: JOHN BURNHAM

PREPARED BY:

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (352) 377-5821



LOCATION MAP

PROJECT NO: 19270-198-01

JUNE 2024

GENERAL NOTES

1. TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY ENGINEERING WAS PROVIDED BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION, SURVEY DIVISION, THOMAS F. FERGUSON, PSM (904) 737-5990 EXT 4303.
2. VERTICAL DATUM IS BASED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 1988).
3. HORIZONTAL DATUM IS BASED ON FLORIDA STATE PLANE EAST ZONE (NAD83), 2011 ADJUSTMENT.
4. ALL STATIONING AND OFFSETS ARE REFERENCED TO THE CONSTRUCTION BASELINE.
5. IRON RODS, NAILS, AN MAG NAILS AND DISKS WERE INSTALLED, AS SHOWN ON THE DRAWINGS, TO PROVIDE HORIZONTAL AND VERTICAL CONTROL. FOR CONSTRUCTION. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE PROVIDED SURVEY INFORMATION TO HIS/HER SATISFACTION. CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER VERTICAL AND HORIZONTAL ALIGNMENT OF CONSTRUCTED FACILITIES, PIPELINES, AND FINISHED GRADE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESTORING PROPERTY CORNERS AND LAND MARKERS WHICH MAY BE DISTURBED BY CONSTRUCTION. ALL STAKING SHALL BE PERFORMED BY A FLORIDA LICENSED SURVEYOR.
6. CONTRACTOR SHALL RETAIN ON THE WORK SITE COPIES OF ANY PERMITS REQUIRED FOR CONSTRUCTION.
7. ALTHOUGH MEASUREMENTS MAY BE SHOWN ON THE DRAWINGS, CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ALL MATERIAL QUANTITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL PROVIDE AN "AS-BUILT" RECORD DRAWING SURVEY AT THE COMPLETION OF THE PROJECT. THE RECORD DRAWINGS SHALL BE PREPARED BY A FLORIDA LICENSED SURVEYOR AND SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER.
9. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED DURING WORK.
10. FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED IMPROVEMENTS TO AVOID OBSTACLES. AS REQUIRED, CONTRACTOR SHALL CONSTRUCT THE PROPOSED FACILITIES TO THE REQUIRED DEVIATION AS APPROVED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
11. NO DISTURBANCE SHALL BE ALLOWED OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS UNLESS APPROVED BY THE ENGINEER, OR SPECIFICALLY NOTED ON THE PLANS.
12. ALL REFERENCED FOOT STANDARD PLANS INDEX DRAWINGS CAN BE FOUND AT [HTTP://WWW.FDOT.GOV/DESIGN/STANDARDPLANS/CURRENT/DEFAULT](http://www.fdot.gov/DESIGN/STANDARDPLANS/CURRENT/DEFAULT)
13. IT IS THE RESPONSIBILITY OF CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-95) EFFECTIVE OCTOBER 1, 1990.
14. EXISTING DRAINAGE STRUCTURES AND CULVERTS WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
15. EXISTING CONCRETE, ASPHALT, AND DIRT DRIVEWAYS SHALL BE DEMOLISHED WITHIN THE LIMITS OF CONSTRUCTION.
16. ALL AREAS INSIDE AND OUTSIDE THE PROJECT LIMITS, WHICH ARE DISTURBED AS A RESULT OF THE PROJECT CONSTRUCTION, SHALL BE RESTORED TO ORIGINAL OR DESIGN GRADE AS APPLICABLE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, PIPING, DITCHING, FENCES, SIGNS AND OTHER IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION, AS A RESULT OF CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
17. CONTRACTOR SHALL SOO ALL DISTURBED AREAS. SOO VARIETY SHALL BE ARGENTINE BAHIA AND BE CERTIFIED WEED FREE. ALL SOO ON SLOPES GREATER THAN 3:1 SHALL BE STAKED. CONTRACTOR SHALL FERTILIZE AND THOROUGHLY WATER ALL SOO AT TIME OF PLANTING AND UNTIL MATERIAL IS ESTABLISHED.
18. CONTRACTOR SHALL CLEAR AND GRUB CONSTRUCTION AREAS BEFORE ANY NEW MATERIAL IS PLACED. ALL AREAS TO RECEIVE ANY NEW MATERIAL SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL, PRIOR TO PLACING CLEAN FILL OR OTHER NEW MATERIAL.
19. CONTRACTOR SHALL CLEAR ALL EXCAVATION AND FILL AREAS AND REMOVE ALL UNSATISFACTORY MATERIAL. IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-002, UNSUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUITABILITY OF ANY SOIL TO BE USED AS EMBANKMENT MATERIAL. IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-001, SUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE USED FOR FILL AS SHOWN ON CROSS SECTIONS.
21. ALL CONCRETE SIDEWALKS, CURB RAMPS, AND DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 522-001 AND 522-002. ALL CONCRETE CURB AND GUTTER SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 520-001. ALL CONCRETE DRIVEWAYS SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 522-003.
22. CONTRACTOR SHALL REMOVE AND REPLACE ALL NEW CONCRETE DAMAGED BY VANDALISM OR ANY OTHER CAUSE PRIOR TO ACCEPTANCE OF THE WORK.
23. ALL CONCRETE FLUMES SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 520-010.
24. ALTHOUGH EXISTING UTILITIES WERE INVESTIGATED DURING DESIGN, THERE IS NO GUARANTEE THAT ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES WERE DISCOVERED AND SHOWN ON THE PLANS. CONTRACTOR SHALL FIELD LOCATE AND VERIFY EXISTING UTILITIES, (SIZE, MATERIAL OF CONSTRUCTION, ELEVATION, ETC) ESPECIALLY AT CONNECTING POINTS, PRIOR TO SHOP DRAWING PREPARATION AND SUBMITTAL. CONTRACTOR SHALL INCLUDE CONSIDERATION OF SUCH UTILITIES IN PLANNING AND PRIOR TO EXECUTION OF WORK. CONTRACTOR SHALL INCLUDE FIELD MEASUREMENTS ON SHOP DRAWINGS.
25. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN BASED ON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS BUT ARE NOT PURPORTED TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC WHICH ARE WITHIN THE PROJECT AREA. CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE DRAWINGS) AFFECTING THE PROPOSED WORK.
26. CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH "SUNSHINE STATE ONE CALL OF FLORIDA, INC." (1-800-432-4770) AT LEAST TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, STRUCTURES, AND PROPERTY ON AND ADJACENT TO THE SITE CAUSED BY CONSTRUCTION ACTIVITIES.
28. CONTRACTOR SHALL COORDINATE CONSTRUCTION SCHEDULE WITH INDIVIDUAL COMPANIES CONCERNING RELOCATION OF UTILITIES AND ANY ADDITIONAL RELOCATIONS RESULTING FROM CONFLICTS NOT DELINEATED ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, RELOCATING, AND BYPASSING OF ALL PUBLIC AND PRIVATELY OWNED UTILITIES PER THE BID DOCUMENTS.
29. CONTRACTOR IS RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES EXPOSED OR UNEXPOSED DURING CONSTRUCTION. IN ORDER TO COMPLETE WORK THE CONTRACTOR SHALL DETAHER, HAND EXCAVATE, SHORE-UP TRENCHES, STABILIZE UTILITIES INCLUDING UTILITY POLES, AND PROVIDE SHEET PILING AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT FOR BRACING UTILITY POLES AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION ACTIVITIES IN THE AREA.
30. CONTRACTOR SHALL HAND EXCAVATE WHEN CONSTRUCTION IS WITHIN 2 FEET OF EXISTING UTILITIES.
31. CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE TO FOOT STANDARD PLANS INDEX 102 SERIES AND THE TECHNICAL SPECIFICATIONS. ONE TRAFFIC LANE MUST BE MAINTAINED AT ALL TIMES WITH USE OF FLAGGER IF NECESSARY. ALL TRAFFIC LANES MUST BE OPEN FOR TRAFFIC AT THE CLOSE OF WORKDAYS. ALL SIGNING, BARRIADRES, LIGHTING, TEMPORARY DIVERSIONS, AND FLAGGERS SHALL BE INCLUDED IN THE LUMP SUM COST.
32. THE CONTRACTOR SHALL HAVE A CERTIFIED FOOT TEMPORARY TRAFFIC CONTROL SPECIALIST ON-CALL 24 HOURS A DAY AND ON-SITE DURING WORK HOURS TO MANAGE THE MAINTENANCE OF TRAFFIC.
33. THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT TO PROVIDE A STABLE CONSTRUCTION JOINT FOR WIDENING AND RECONSTRUCTION. ALL WIDENING AREAS SHALL BE A MINIMUM WIDTH OF 2'.
34. EXISTING FEATURES ARE SHOWN LIGHT-LINED AND/OR SCREENED AND PROPOSED FEATURES ARE SHOWN HEAVY-LINED.
35. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III. ALL CONCRETE COLLARS/JACKETS AND PIPE FLUGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 430-001.
36. PIPE TRENCH AND BACKFILL REQUIREMENTS SHALL BE IN ACCORDANCE WITH DETAIL D-201 OF THE ST. JOHNS COUNTY STANDARDS AND DETAIL MANUAL. COMPACTED DENSITY SHALL NOT BE LESS THAN 95% OF THE MAXIMUM DENSITY OBTAINED USING THE MODIFIED PROCTOR METHOD.
37. ADJUST WATER AND SANITARY FORCE MAIN VALVES TO GRADE. THERE IS NO SEPARATE PAYMENT FOR THIS WORK, IT IS INCIDENTAL TO PAVING AND GRADING OPERATIONS.
38. ALL MANHOLES SHALL BE CONCRETE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 425-001 AND 425-010. ALL MANHOLE COVERS SHALL BE IN ACCORDANCE WITH DETAIL D-303 OF THE ST. JOHNS COUNTY STANDARDS AND DETAIL MANUAL.
39. ALL MITERED END SECTIONS SERVICING CROSS DRAINS SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 430-021 AND ALL MITERED END SECTIONS SERVING SIDE DRAINS SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 430-022. ALL MITERED END SECTIONS SHALL HAVE A 4:1 SLOPE.
40. ALL HEADWALLS SHALL BE CONCRETE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 430-030.
41. ALL DITCH BOTTOM INLETS SHALL BE CONCRETE WITH STEEL GRATES IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 425-052 AND 425-053.
42. ALL TYPE 5 AND TYPE 6 CURB INLETS SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 425-021.
43. CONTRACTOR SHALL COMPLY WITH ST. JOHNS COUNTY REGULATIONS FOR INSTALLATION AND INSPECTION OF ALL DRAINAGE STRUCTURES AND PIPES.
44. AFTER COMPLETION OF STORM SEWER PIPE INSTALLATION AND PRIOR TO PAVING THE CONTRACTOR SHALL INSPECT ALL STORM SEWER PIPES INSTALLED ON THIS PROJECT UTILIZING TELEVISION CAMERAS IN ACCORDANCE WITH ST. JOHNS COUNTY LAND DEVELOPMENT CODE AND FOOT STANDARD SPECIFICATION SECTION 430-4.8. THE CONTRACTOR SHALL SUPPLY ALL SUCH VIDEO TAPES TO ST. JOHNS COUNTY. ANY INSTALLATIONS DETERMINED BY THE ENGINEER TO BE SUBSTANDARD SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
45. ALL WORK FOR THIS PROJECT SHALL MEET OR EXCEED ST. JOHNS COUNTY STANDARDS AND SPECIFICATIONS. ANY CONSTRUCTION ACTIVITIES NOT COVERED BY ST. JOHNS COUNTY SPECIFICATIONS OR STANDARDS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE FOOT STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION AND THE MOST CURRENT EDITION OF THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
46. CONTRACTOR SHALL REMOVE LITTER AND MOW PER FOOT STANDARD SPECIFICATION SECTION 107-1. LITTER REMOVAL SHALL BE AS NEEDED BUT NO LESS THAN ONCE PER MONTH OR AS DIRECTED BY THE ENGINEER. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE TRASH CONTAINER SUCH AS A DUMPSTER OR ROLL OFF. CONTRACTOR OR SUBCONTRACTORS SHALL NOT LITTER THE PROJECT AREA WITH PERSONAL TRASH. SUCH TRASH SHALL BE PICKED UP AND PROPERLY DISPOSED OF DAILY. NO TRASH SHALL BE PERMANENTLY DUMPED ON SITE.
47. THE CONTRACTOR SHALL MOW GRASSED AREAS WHEN THE GRASS IS GREATER THAN 6 INCHES IN HEIGHT OR ONCE PER MONTH UNTIL FINAL COMPLETION. THE ENGINEER MAY CHANGE FREQUENCY DEPENDING ON SITE CONDITIONS.
48. THE CONTRACTOR SHALL PROVIDE A FLORIDA CERTIFIED GEOTECHNICAL ENGINEERING FIRM FOR QUALITY CONTROL TESTING INCLUDING BUT NOT LIMITED TO: SUBGRADE AND BASE DENSITY, ASPHALT DENSITY, TEMPERATURE AND CORES, CONCRETE SLUMP, TEMPERATURE, AIR AND TEST CYLINDERS, LBR, PROCTORS, DRILL SHAFTS, ETC. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF QUALITY CONTROL TESTING LOCATION AND TIME AT LEAST 1 BUSINESS DAY PRIOR. THE CONTRACTOR SHALL ALSO PROVIDE THE COUNTY A COPY OF ANY TEST RESULTS WITHIN 1 BUSINESS DAY OF RECEIPT.
49. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL LEGALLY.
50. THE CONTRACTOR SHALL NOT USE THE RIGHT-OF-WAY TO STAGE EQUIPMENT OR STORE MATERIAL. THE CONTRACTOR MUST PROVIDE THEIR OWN STAGING AREA.
51. ST. JOHNS COUNTY SHALL APPROVE DETECTABLE WARNINGS PRIOR TO INSTALLATION BY THE CONTRACTOR.
52. PAVEMENT STRIPING SHALL BE PROVIDED IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 711-001, 711-002, AND 711-003.
53. REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 706-001.
54. ALL DIRECTIONAL ARROWS SHALL BE PLACED AS ONE SEGMENT.
55. ALL PAVED MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC PER FOOT STD SPECIFICATION 711. IMMEDIATELY AFTER PAVING THE ROADWAY IT SHALL BE STRIPE WITH PAINTED PAVEMENT MARKINGS PER FOOT STD SPECIFICATION 710 BEFORE THE APPLICATION OF THERMOPLASTIC. THERMOPLASTIC SHALL ONLY BE APPLIED AFTER THE PAVED AREAS HAVE CURED FOR 14 DAYS.
56. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
57. ALL EXISTING AND PROPOSED SIGNS SHALL BE RESET TO MEET 2' CLEARANCE FROM THE FACE OF CURB PER FOOT STANDARD PLANS INDEX 700-101.
58. THE CONTRACTOR SHALL DEMOLISH ALL EXISTING MAILBOXES AND CONSTRUCT NEW MAILBOXES TO MEET 8-INCH CLEARANCE FROM THE FACE OF CURB PER FOOT STANDARD PLANS INDEX 110-200.
59. ALL WATER AND SEWER WORK SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE ST. JOHNS COUNTY UTILITY DEPARTMENT WATER, WASTEWATER, AND RECLAIMED WATER STANDARDS MANUAL AND THE MOST CURRENT EDITION OF THE ST. JOHNS COUNTY UTILITY DEPARTMENT STANDARD DETAILS. ALL NEW WATERHARN SHALL BE INSTALLED, PRESSURE TESTED, AND DISINFECTED PRIOR TO CONNECTION TO THE EXISTING WATER SYSTEM. THE CONNECTION TIE-INS SHALL BE COMPLETED ON A TUESDAY OR WEDNESDAY NIGHT (NOT AFTER A COUNTY HOLIDAY) BETWEEN 10PM AND 4AM.

DATE: 7/15/2024 11:41 AM USER: JAMES W. WOODRUFF, Jr. (S-19794) PROJECT: 1927D-198-01

100% DRAFT

LTR	DATE	REVISIONS	BY	APPROD.

DESIGNED	M O'BRIEN
DRAWN	M O'BRIEN
CHECKED	BMYHRE

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1941
 13545 PROCESS BOULEVARD, SUITE 100, ALACHUA, FL 32415 / (352) 377-5821

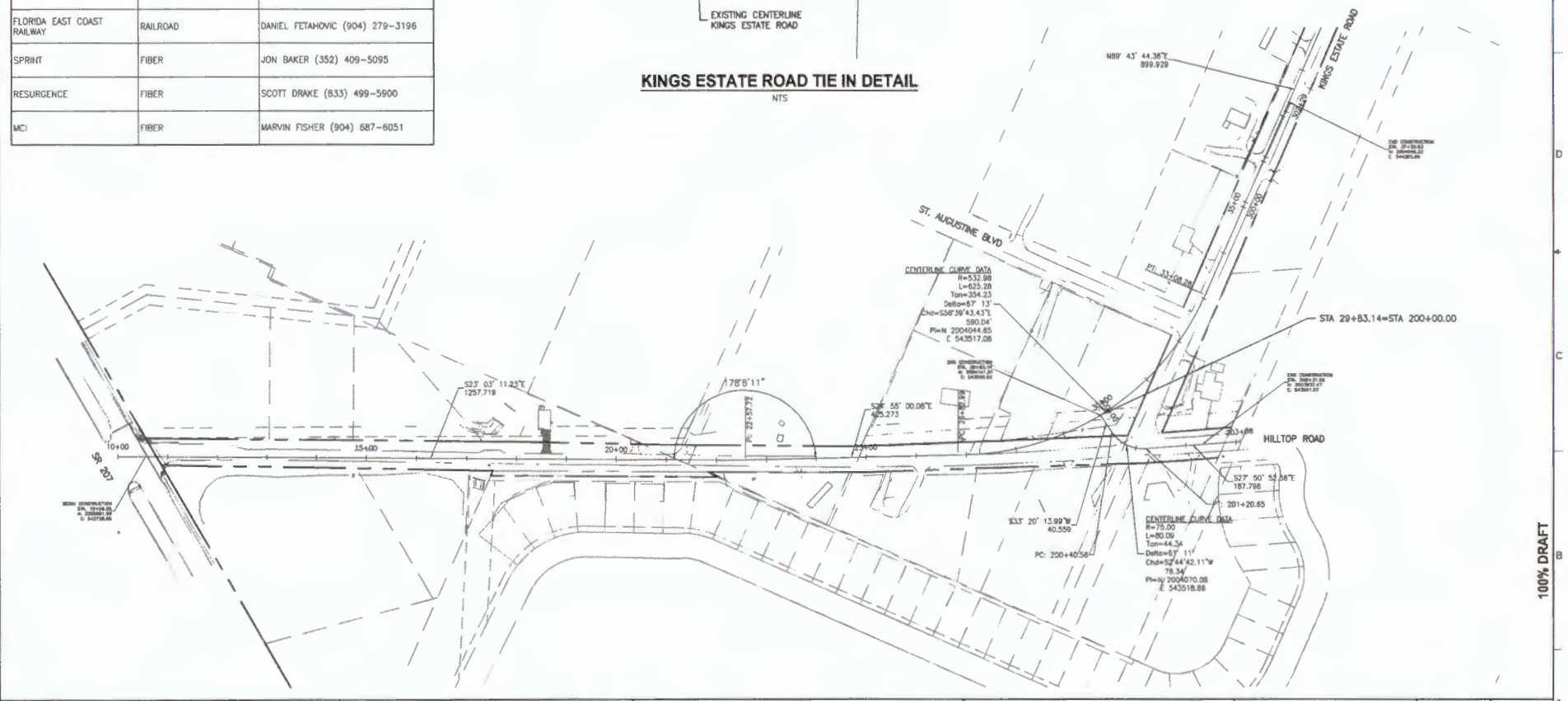
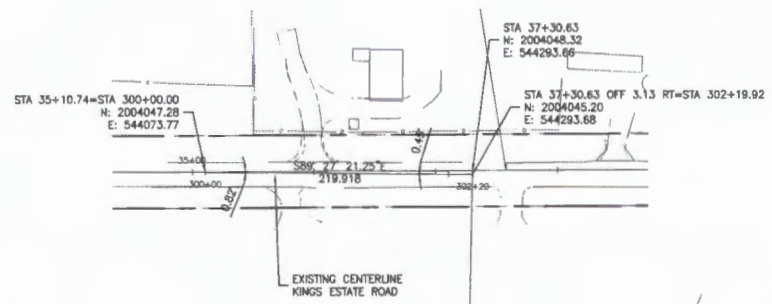
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

GENERAL NOTES

APPROVED BY	PROJECT NO. DATE	
MATTHEW J. O'BRIEN	1927D-198-01 JUN 2024	
P.E. 73893	INDEX NO. 3	DWG. NO. G3

1:01 12:57:26, 2/24/24 04:57 PM D:\W\MC\19270-198-01\19270-198-01.dwg

UTILITY CONTACTS		
OWNER	TYPE	CONTACT INFO
FPL	ELECTRIC	MAN GARCIA (904) 824-7559
ATT/BELLSOUTH	TELEPHONE	P.K. PATEL (904) 699-4976
COMCAST	CABLE	VINCE TAYLOR (904) 547-0697 TIM SOLOMON (904) 626-2092
CENTURY LINK	FIBER	JIMMY YOUNG (352) 303-2430 JAMES BLOW (904) 717-7304
ST. JOHNS COUNTY UTILITIES	WATER/SEWER	ALAN FLOOD (904) 209-2652
TECO	GAS	JERROD CARTER (904) 443-7355
UNITI FIBER	FIBER	BOB MENSCHING (904) 718-8152
FLORIDA EAST COAST RAILWAY	RAILROAD	DANIEL FETAMOVIC (904) 279-3196
SPRINT	FIBER	JON BAKER (352) 409-5095
RESURGENCE	FIBER	SCOTT DRAKE (833) 499-5900
MCI	FIBER	MARVIN FISHER (904) 687-6051



DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	SMYTHRE
APP'D	
DATE	

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1941
 13145 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 // (904) 977-1821

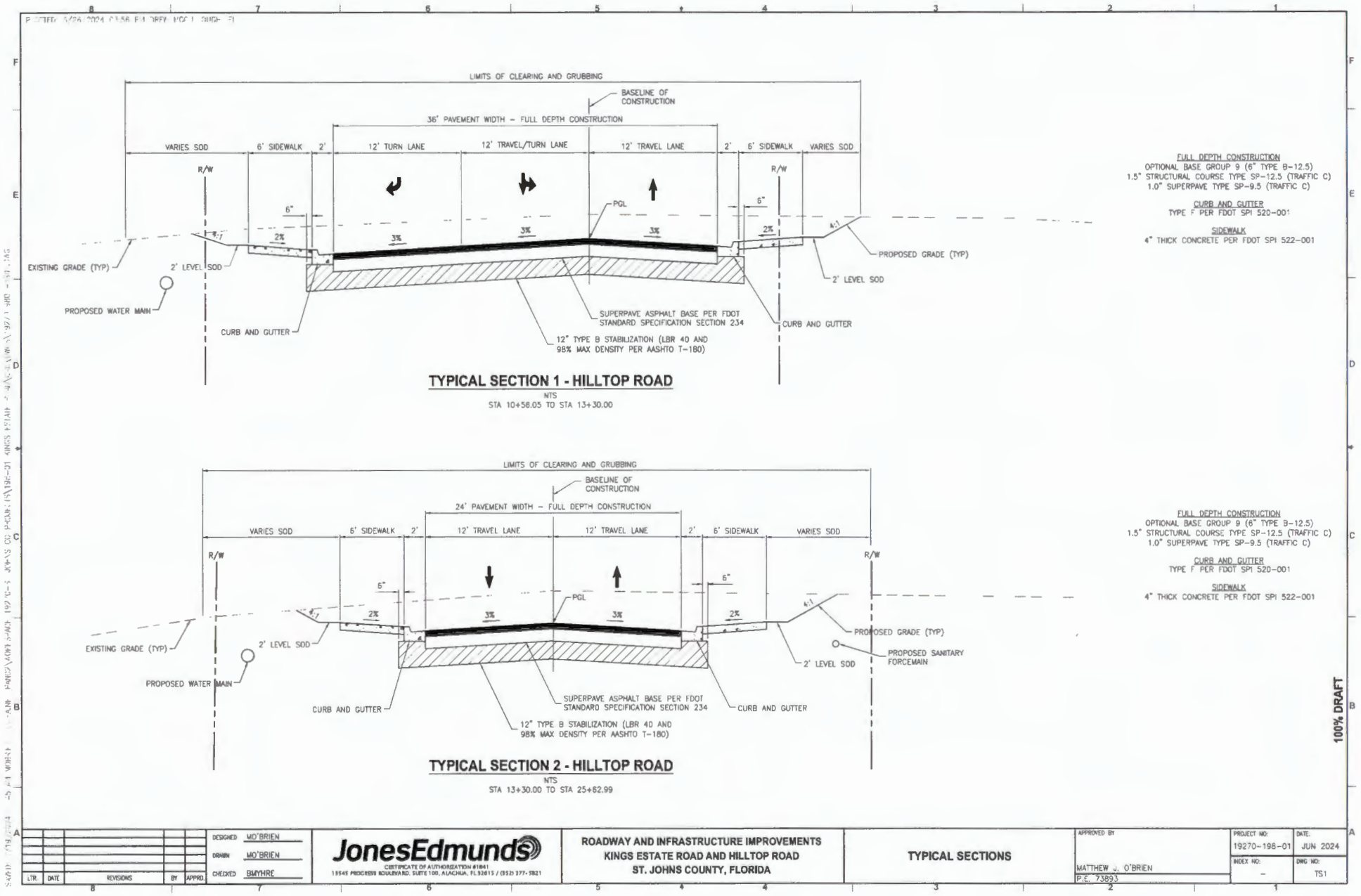
**ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA**

**ROADWAY PROJECT LAYOUT AND
 UTILITY CONTACTS**

APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO.	DATE
19270-198-01	JUN 2024
INDEX NO.	DWG NO.
	04

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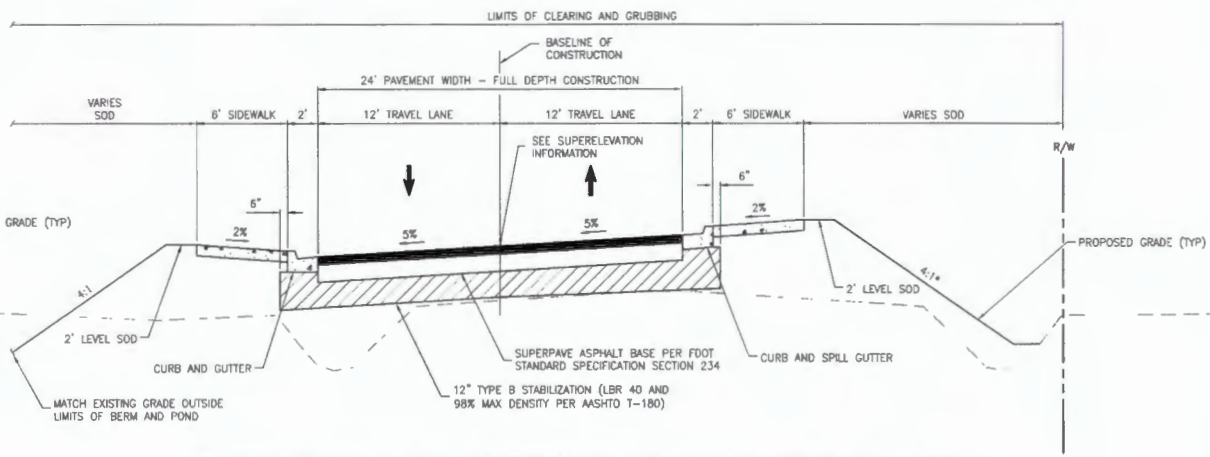
DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BMYHRE
DATE	
REVISIONS	
BY	
APPRO	

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 11545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (850) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

TYPICAL SECTIONS

APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
	-	TS1



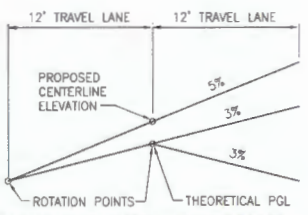
TYPICAL SECTION 3 - REALIGNMENT OF HILLTOP ROAD INTO KINGS ESTATE ROAD

NTS
STA 25+62.99 TO STA 34+28.28

FULL DEPTH CONSTRUCTION
OPTIONAL BASE GROUP 9 (6" TYPE B-12.5)
1.5" STRUCTURAL COURSE TYPE SP-12.5 (TRAFFIC C)
1.0" SUPERPAVE TYPE SP-9.5 (TRAFFIC C)

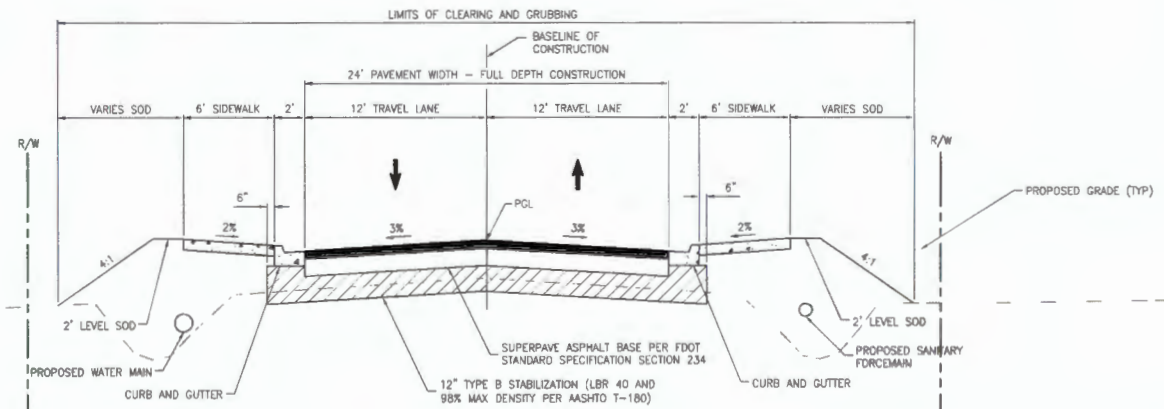
CURB AND GUTTER
TYPE F PER FDOT SPI 520-001

SIDEWALK
4" THICK CONCRETE PER FDOT SPI 522-001
*3:1 SLOPE FROM STA 26+00 TO STA 28+00



SUPERELEVATION INFORMATION

NTS



TYPICAL SECTION 4 - KINGS ESTATE ROAD

NTS
STA 34+28.28 TO STA 35+10.74

FULL DEPTH CONSTRUCTION
OPTIONAL BASE GROUP 9 (6" TYPE B-12.5)
1.5" STRUCTURAL COURSE TYPE SP-12.5 (TRAFFIC C)
1.0" SUPERPAVE TYPE SP-9.5 (TRAFFIC C)

CURB AND GUTTER
TYPE F PER FDOT SPI 520-001

SIDEWALK
4" THICK CONCRETE PER FDOT SPI 522-001

100% DRAFT

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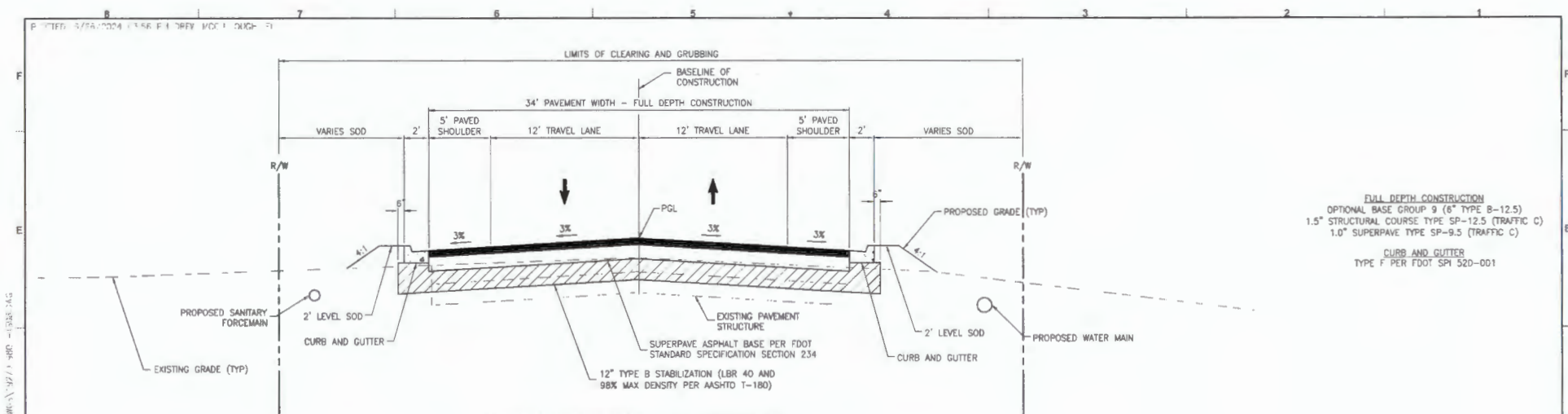
DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BM'YHRE
APP'D	

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CERTIFICATE OF AUTHORIZATION #1641
13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32010 / (904) 377-9821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHN COUNTY, FLORIDA

TYPICAL SECTIONS

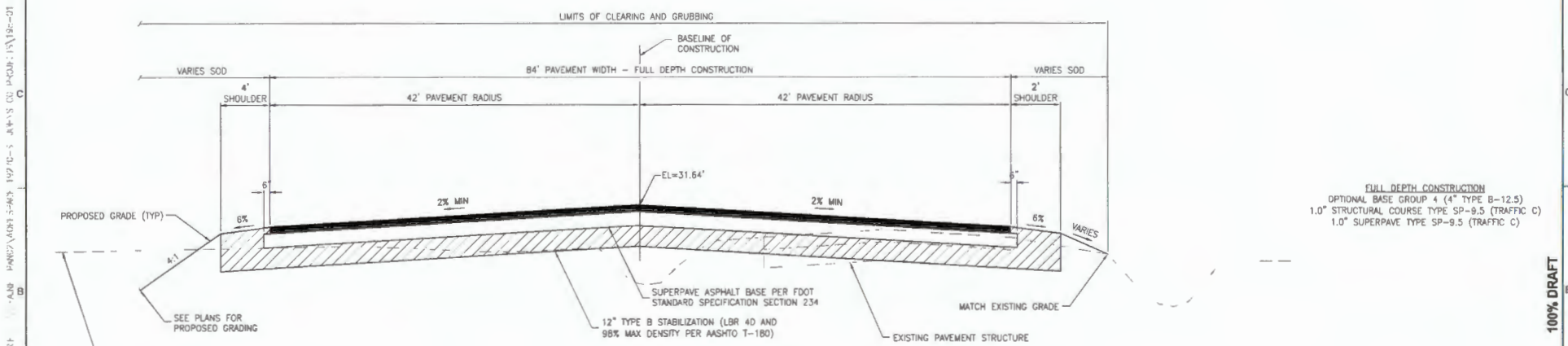
APPROVED BY	PROJECT NO.	DATE
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	ISSUE NO.	DWG NO.
	-	TS2



TYPICAL SECTION 14 - HILLTOP ROAD

NTS
STA 200+17.00 TO STA 202+23.50

FULL DEPTH CONSTRUCTION
 OPTIONAL BASE GROUP 9 (6" TYPE B-12.5)
 1.5" STRUCTURAL COURSE TYPE SP-12.5 (TRAFFIC C)
 1.0" SUPERPAVE TYPE SP-9.5 (TRAFFIC C)
CURB AND GUTTER
 TYPE F PER FOOT SPI 520-001



TYPICAL SECTION 15 - ST. AUGUSTINE BLVD

NTS
CUL-DE-SAC

FULL DEPTH CONSTRUCTION
 OPTIONAL BASE GROUP 4 (4" TYPE B-12.5)
 1.0" STRUCTURAL COURSE TYPE SP-9.5 (TRAFFIC C)
 1.0" SUPERPAVE TYPE SP-9.5 (TRAFFIC C)

100% DRAFT

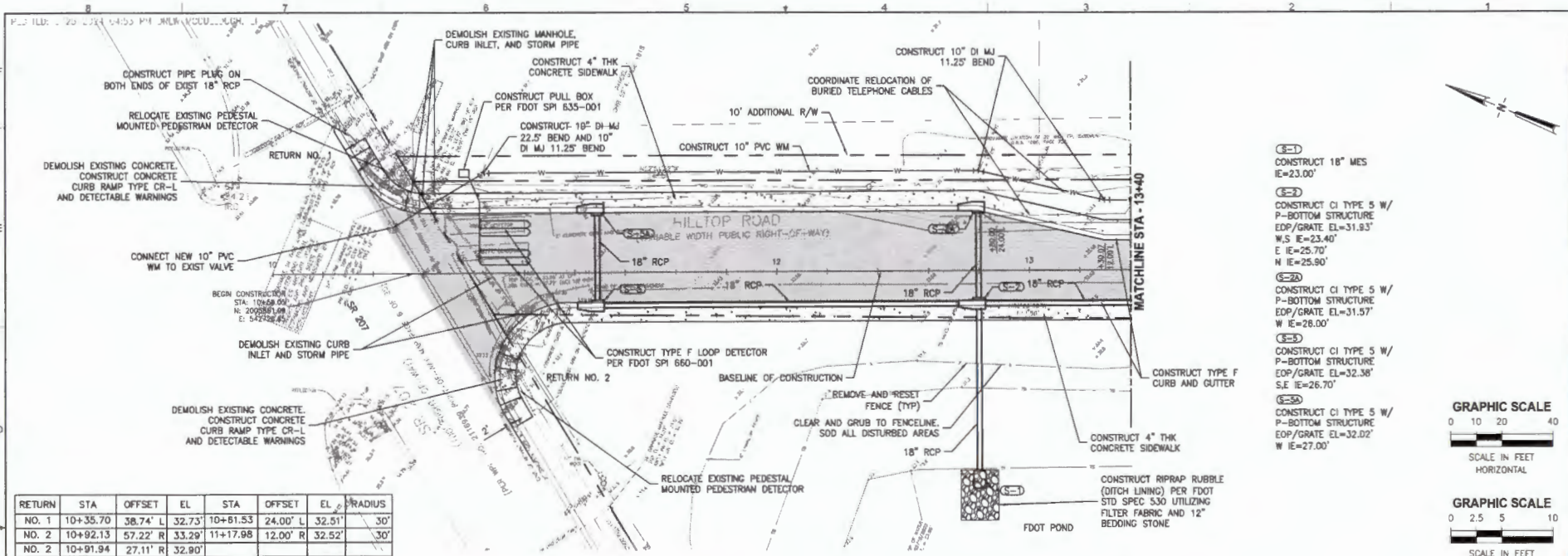
DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	SMYTHRE
DATE	
REVISIONS	
BY	
APPROD	

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (904) 377-3821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

TYPICAL SECTIONS

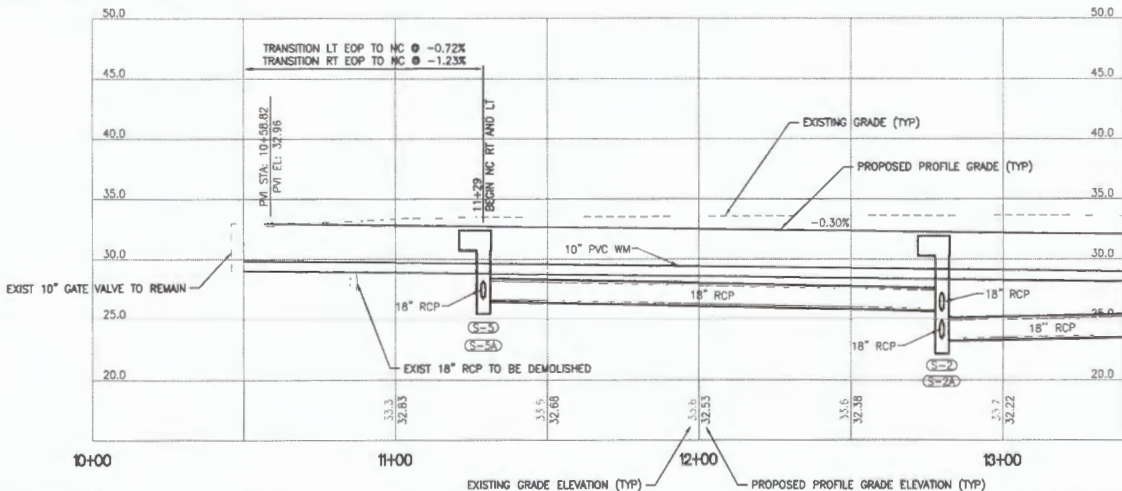
APPROVED BY	PROJECT NO.	DATE
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO.	DWG NO.
		TSS



- (S-1) CONSTRUCT 18" MES
IE=23.00'
- (S-2) CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.83'
W.S IE=23.40'
E IE=25.70'
N IE=25.90'
- (S-2A) CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.57'
W IE=26.00'
- (S-3) CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=32.38'
S.E IE=26.70'
- (S-3A) CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=32.02'
W IE=27.00'



RETURN	STA	OFFSET	EL	STA	OFFSET	EL	RADIUS
NO. 1	10+35.70	38.74' L	32.73'	10+61.53	24.00' L	32.51'	30'
NO. 2	10+92.13	57.22' R	33.29'	11+17.98	12.00' R	32.52'	30'
NO. 2	10+91.94	27.11' R	32.90'				



NOTE:
THE CONTRACTOR SHALL SPLICE THE EXISTING SIGNAL DETECTION AND EXISTING PEDESTRIAN DETECTION INTO PROPOSED OR RELOCATED FEATURES. THE CONTRACTOR SHALL COORDINATE WITH ST. JOHNS COUNTY TRAFFIC OPERATIONS DEPARTMENT.

100% DRAFT

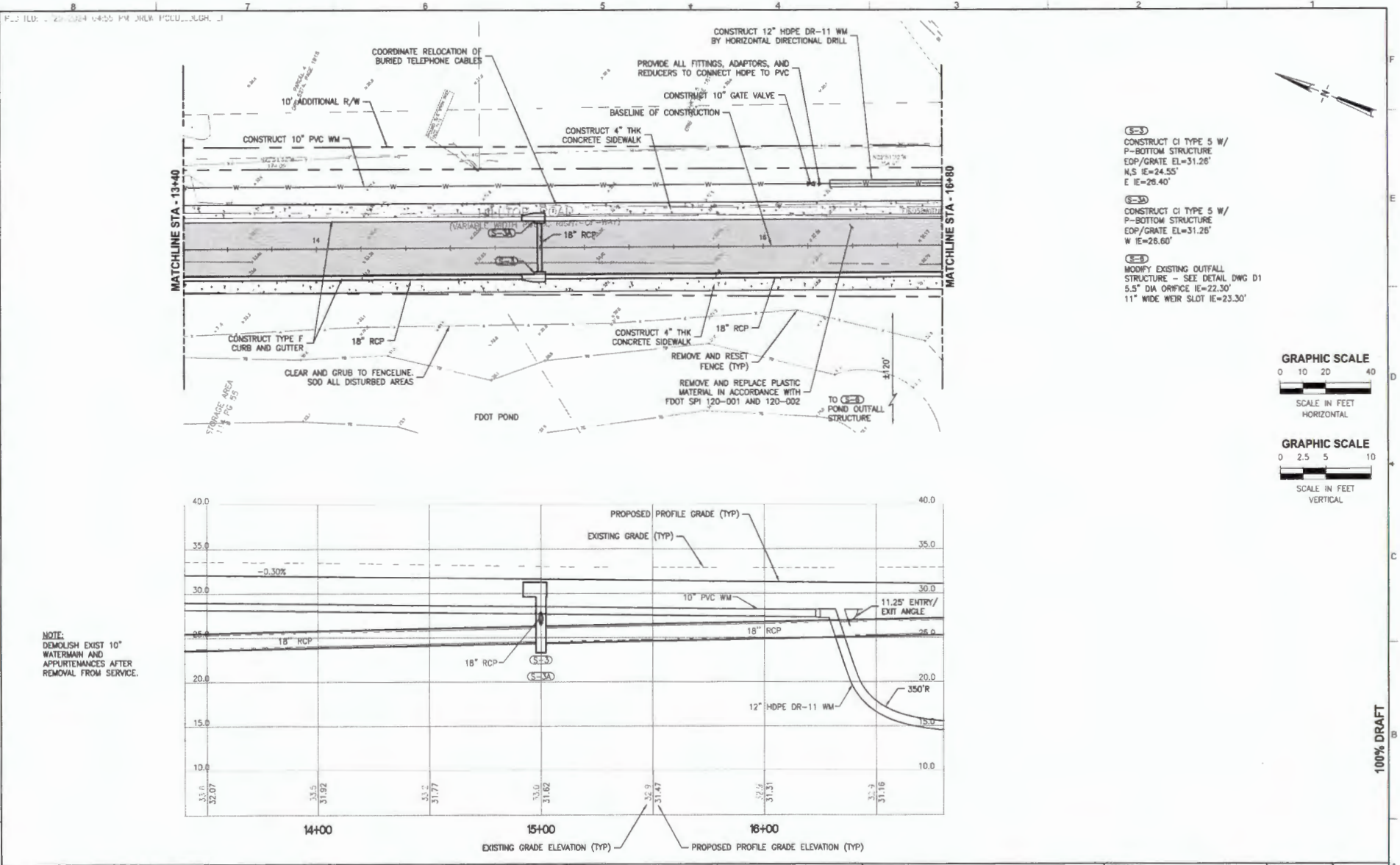
DESIGNED	M'O'BRIEN
DRAWN	M'O'BRIEN
CHECKED	SMYTHRE
DATE	

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
 13345 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32815 / (352) 377-1921

**ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA**

PLAN AND PROFILE STA 10+00 TO STA 13+40

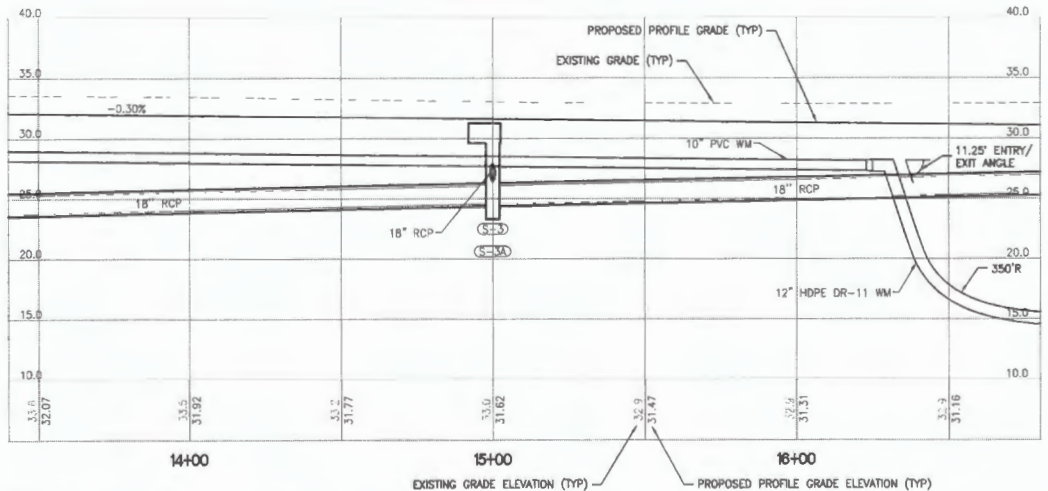
APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
		R1



- (S-3)
CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.26'
N.S IE=24.55'
E IE=26.40'
- (S-3A)
CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.26'
W IE=26.60'
- (S-3B)
MODIFY EXISTING OUTFALL
STRUCTURE - SEE DETAIL DWG D1
5.5" DIA ORIFICE IE=22.30'
11" WIDE WEIR SLOT IE=23.30'



NOTE:
DEMOLISH EXIST 10"
WATERMAIN AND
APPURTENANCES AFTER
REMOVAL FROM SERVICE.



DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BWYHRE
DATE	
REVISIONS	

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
13145 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (904) 377-1821

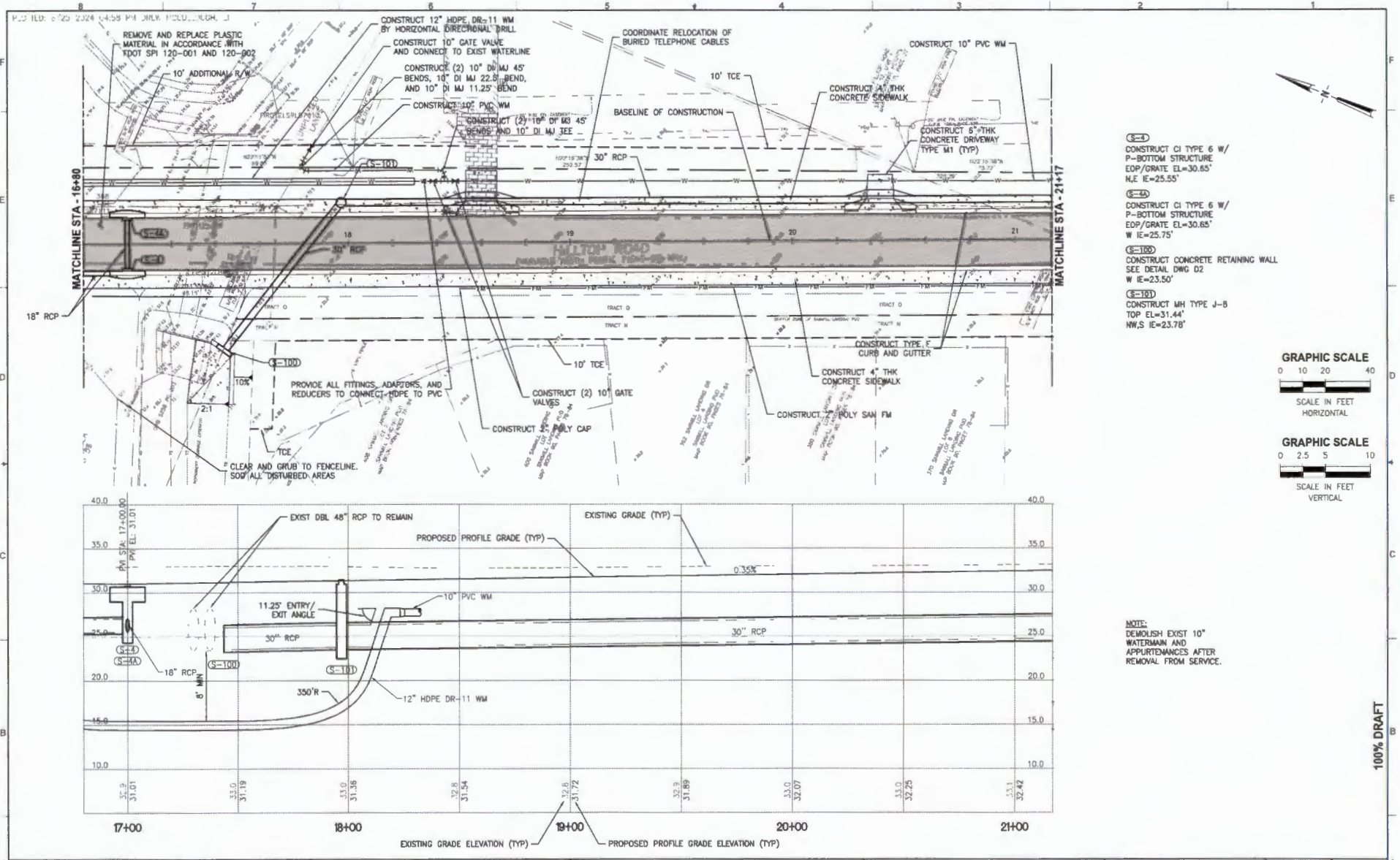
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

PLAN AND PROFILE STA 13+40 TO STA 16+80

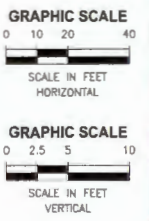
APPROVED BY	PROJECT NO	DATE
MATTHEW J. O'BRIEN	19270-198-D1	JUN 2024
P.E. 73883	INDEX NO	DWG NO
		R2

100% DRAFT

11:55 AM 06/11/2024
 19270-198-01 JUN 2024
 PLS I.D. 0720 2324 04:59 PM 04/11/2024
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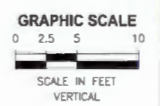
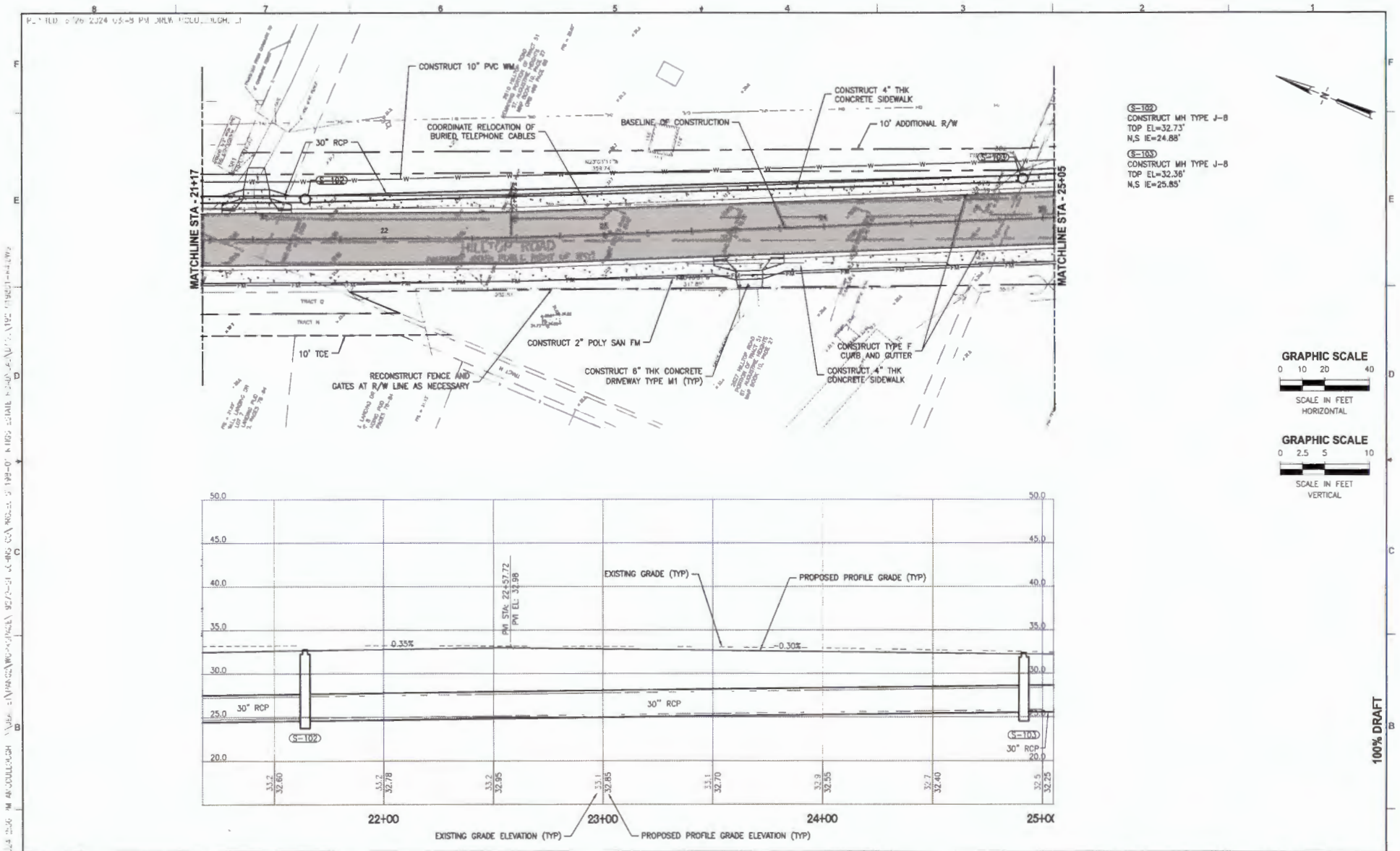
- (S-4)
CONSTRUCT CI TYPE 6 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=30.65'
N.E IE=25.55'
- (S-4A)
CONSTRUCT CI TYPE 6 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=30.65'
W IE=25.75'
- (S-103)
CONSTRUCT CONCRETE RETAINING WALL
SEE DETAIL DWG D2
W IE=23.50'
- (S-101)
CONSTRUCT MH TYPE J-B
TOP EL=31.44'
N.W.S IE=23.78'



NOTE:
 DEMOLISH EXIST 10"
 WATERMAIN AND
 APPURTENANCES AFTER
 REMOVAL FROM SERVICE.

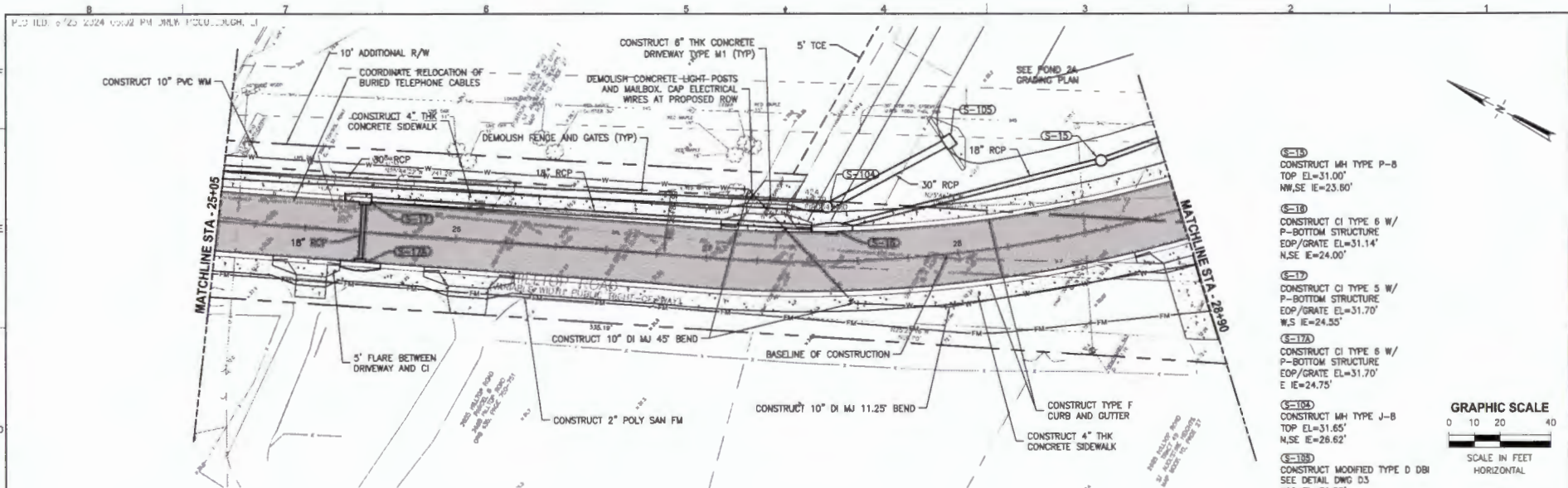
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	LTR	DATE	REVISIONS	BY	APPROV													
19270-198-01 JUN 2024																		

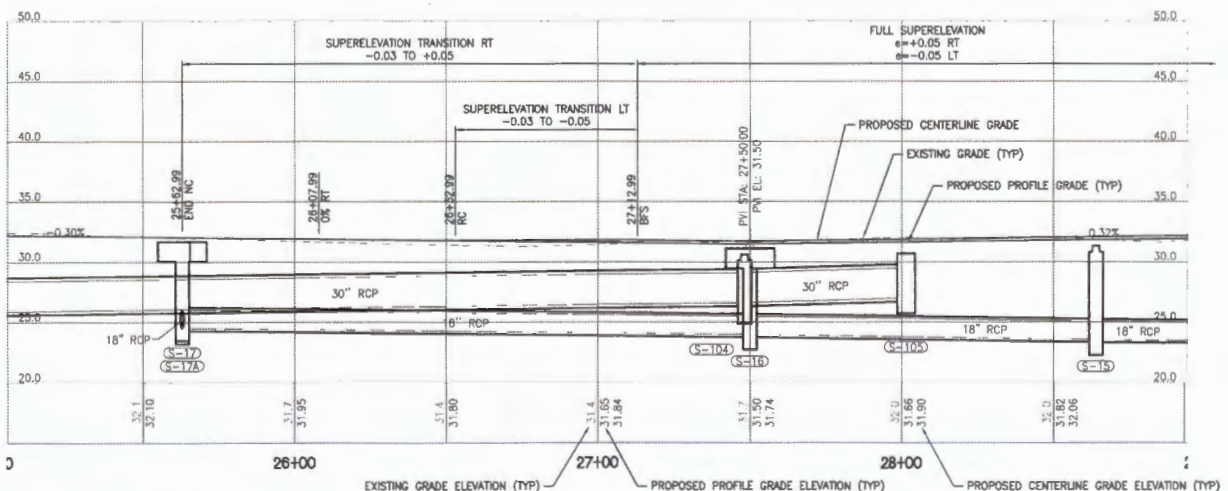
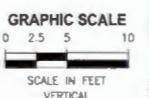
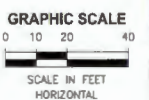


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DESIGNED: M O'BRIEN DRAWN: M O'BRIEN CHECKED: BMYHRE				<p>JonesEdmunds CERTIFICATE OF AUTHORIZATION #1641 13145 PROGRESS BOULEVARD SUITE 100, ALACHUA, FL 32819 / (352) 377-1921</p>		ROADWAY AND INFRASTRUCTURE IMPROVEMENTS KINGS ESTATE ROAD AND HILLTOP ROAD ST. JOHNS COUNTY, FLORIDA		PLAN AND PROFILE STA 21+17 TO STA 25+05		APPROVED BY: MATTHEW J. O'BRIEN P.E. 73893		PROJECT NO: 19270-198-01		DATE: JUN 2024	
LTR. DATE REVISIONS BY APPRO.										INDEX NO: R4					



- (S-15) CONSTRUCT MH TYPE P-8
TOP EL=31.00'
NW,SE IE=23.80'
- (S-16) CONSTRUCT CI TYPE 6 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.14'
N,SE IE=24.00'
- (S-17) CONSTRUCT CI TYPE 5 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.70'
W,S IE=24.55'
- (S-17A) CONSTRUCT CI TYPE 6 W/
P-BOTTOM STRUCTURE
EOP/GRATE EL=31.70'
E IE=24.75'
- (S-18) CONSTRUCT MH TYPE J-B
TOP EL=31.65'
N,SE IE=26.62'
- (S-18B) CONSTRUCT MODIFIED TYPE D DBI
SEE DETAIL DWG 03
TOP EL=30.25'
18" WIDE WEIR SLOT SE IE=28.00'
3" DIA ORIFICE SE IE=27.00'
NW IE=26.80'
SUMP EL=24.80'



100% DRAFT

DESIGNED	MO'BRIEN			
DRAWN	MO'BRIEN			
CHECKED	SMYTHRE			
LTR.	DATE	REVISIONS	BY	APPROV.

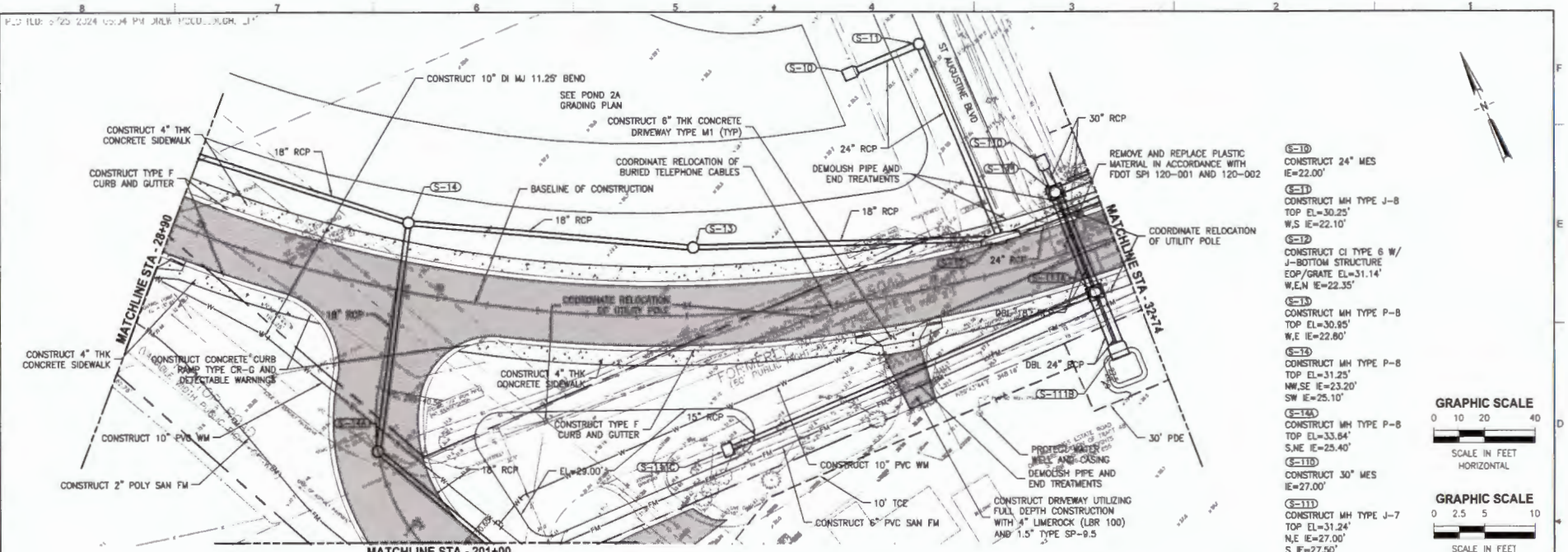
JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13345 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (352) 377-3921

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

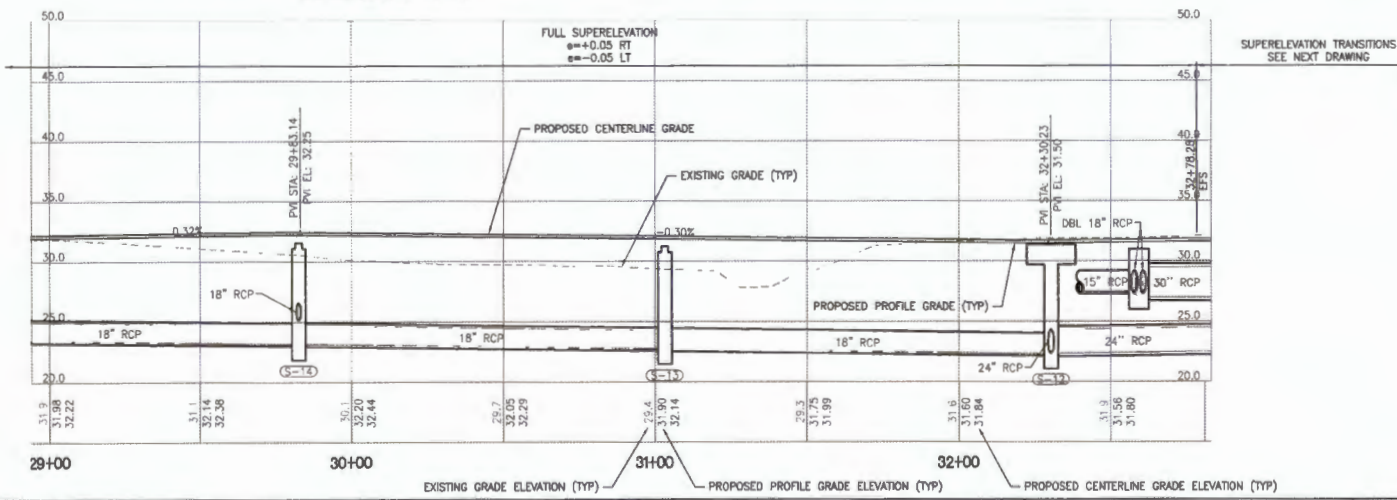
PLAN AND PROFILE STA 25+05 TO STA 28+94

APPROVED BY	PROJECT NO.	DATE
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO.	DWG NO.
		R5

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- (S-10) CONSTRUCT 24\"/>
- (S-11) CONSTRUCT MH TYPE J-8
TOP EL=30.25'
W.S. IE=22.10'
- (S-12) CONSTRUCT CI TYPE 6 W/
J-BOTTOM STRUCTURE
EOP/GRATE EL=31.14'
W,E,N IE=22.35'
- (S-13) CONSTRUCT MH TYPE P-8
TOP EL=30.85'
W,E IE=22.80'
- (S-14) CONSTRUCT MH TYPE P-8
TOP EL=31.25'
NW,SE IE=23.20'
SW IE=25.10'
- (S-14A) CONSTRUCT MH TYPE P-8
TOP EL=33.64'
S,N IE=25.40'
- (S-110) CONSTRUCT 30\"/>
- (S-111) CONSTRUCT MH TYPE J-7
TOP EL=31.24'
N,E IE=27.00'
S IE=27.50'
- (S-111A) CONSTRUCT MH TYPE J-7
TOP EL=33.08'
W,S,N IE=27.50'
- (S-111B) CONSTRUCT DBL 24\"/>
- (S-111C) CONSTRUCT TYPE D DBI
TOP EL=29.50'
IE=27.50'



DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	SMYHRE
DATE	
REVISIONS	

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
 15545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (352) 377-1921

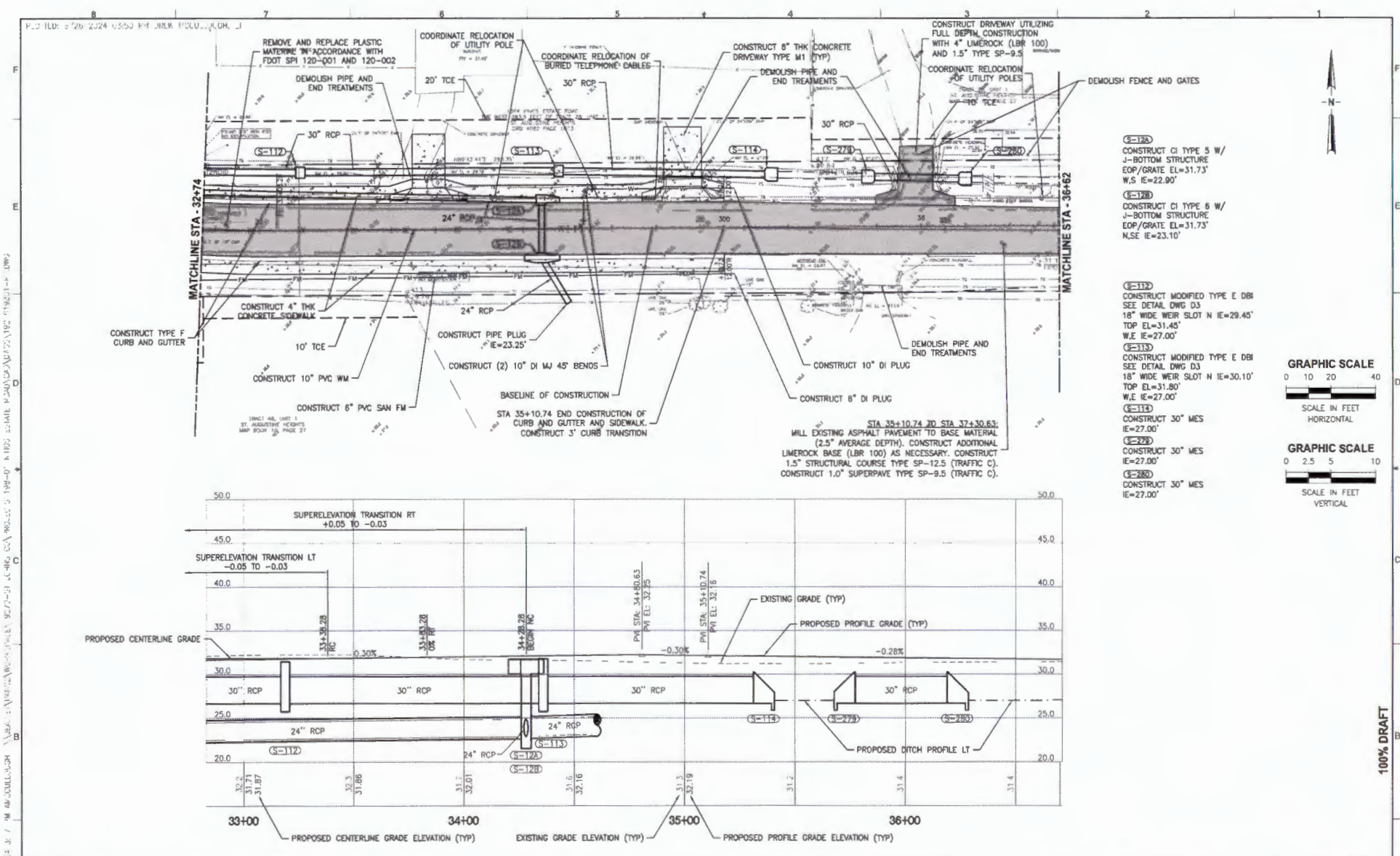
**ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA**

**PLAN AND PROFILE STA 28+94 TO STA
 32+83**

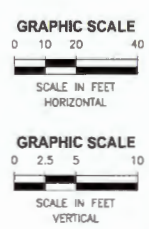
APPROVED BY	MATTHEW J. O'BRIEN P.E. 73893
PROJECT NO.	19270-198-01
DATE	JUN 2024
INDEX NO.	
DWG NO.	R6

ST. JOHNS COUNTY, FLORIDA
 PROJECT NO. 19270-198-01
 DRAWING NO. R6
 DATE: JUN 2024
 PROJECT: KINGS ESTATE ROAD AND HILLTOP ROAD IMPROVEMENTS
 STATION: STA 28+94 TO STA 32+83
 SCALE: 1"=40' (PLAN), 1"=5' (PROFILE)

100% DRAFT

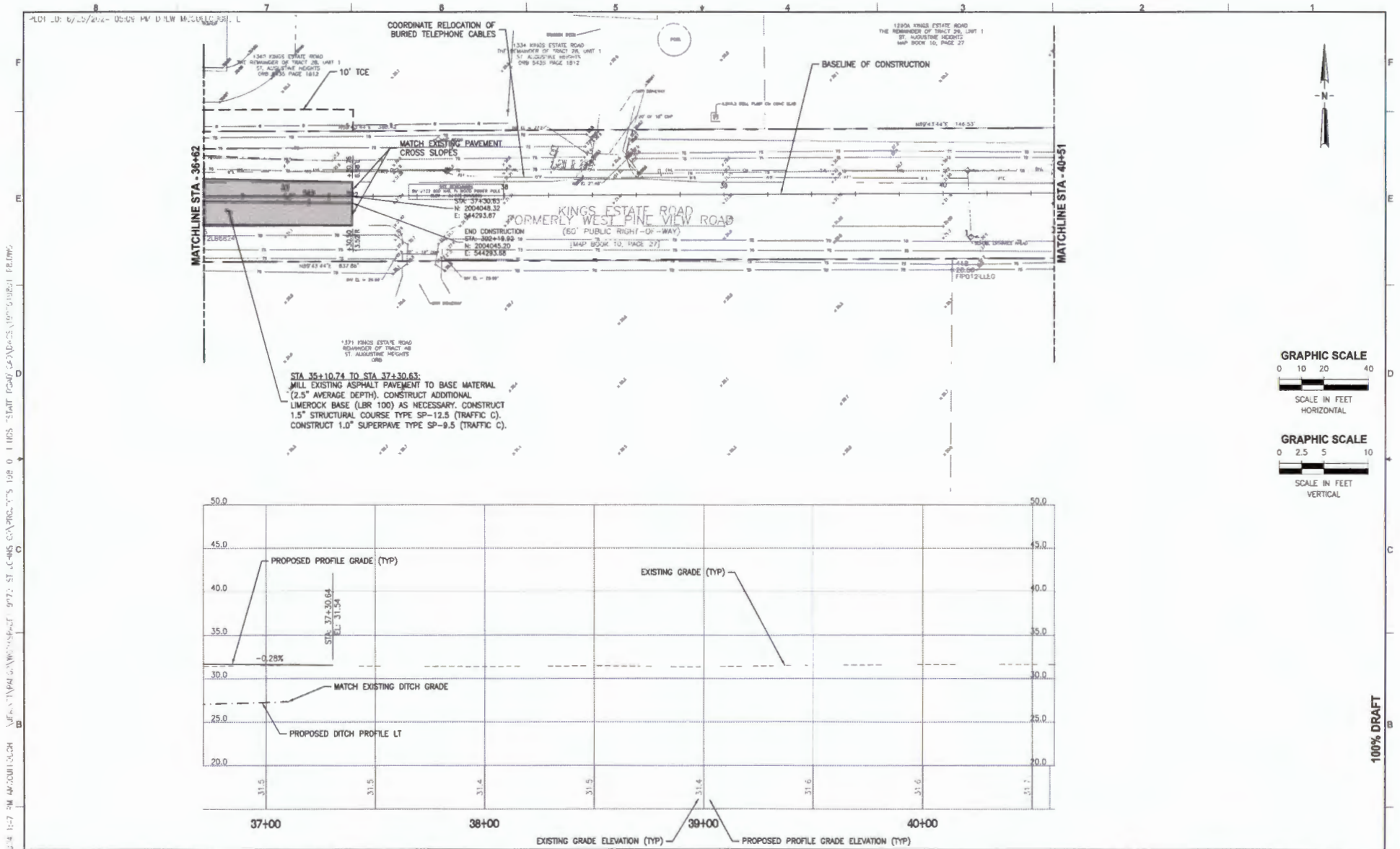


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- (S-128) CONSTRUCT CI TYPE 6 W/ J-BOTTOM STRUCTURE EOP/GRATE EL=31.73' N.SE IE=23.10'
- (S-112) CONSTRUCT MODIFIED TYPE E DBI SEE DETAIL DWG D3 18" WIDE WEIR SLOT N IE=29.45' TOP EL=31.45' W/E IE=27.00'
- (S-113) CONSTRUCT MODIFIED TYPE E DBI SEE DETAIL DWG D3 18" WIDE WEIR SLOT N IE=30.10' TOP EL=31.80' W/E IE=27.00'
- (S-114) CONSTRUCT 30" MES IE=27.00'
- (S-278) CONSTRUCT 30" MES IE=27.00'
- (S-280) CONSTRUCT 30" MES IE=27.00'



100% DRAFT

DESIGNED	MO'BRIEN	 JonesEdmunds <small>CERTIFICATE OF AUTHORIZATION #1841 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (912) 377-1801</small>	ROADWAY AND INFRASTRUCTURE IMPROVEMENTS KINGS ESTATE ROAD AND HILLTOP ROAD ST. JOHNS COUNTY, FLORIDA	PLAN AND PROFILE STA 32+83 TO STA 36+71	APPROVED BY	PROJECT NO.	DATE
DRAWN	MO'BRIEN				19270-198-01	JUN 2024	
CHECKED	BM'YHRE				INDEX NO.	DWG NO.	
DATE	REVISIONS	BY	APPROV.		MATTHEW J. O'BRIEN	P.E. 73893	R7



19270-198-01 JUN 2024
 MATTHEW J. O'BRIEN, P.E. 73893
 PROJECT NO. 19270-198-01
 DATE JUN 2024
 INDEX NO. 01
 DWG NO. RB

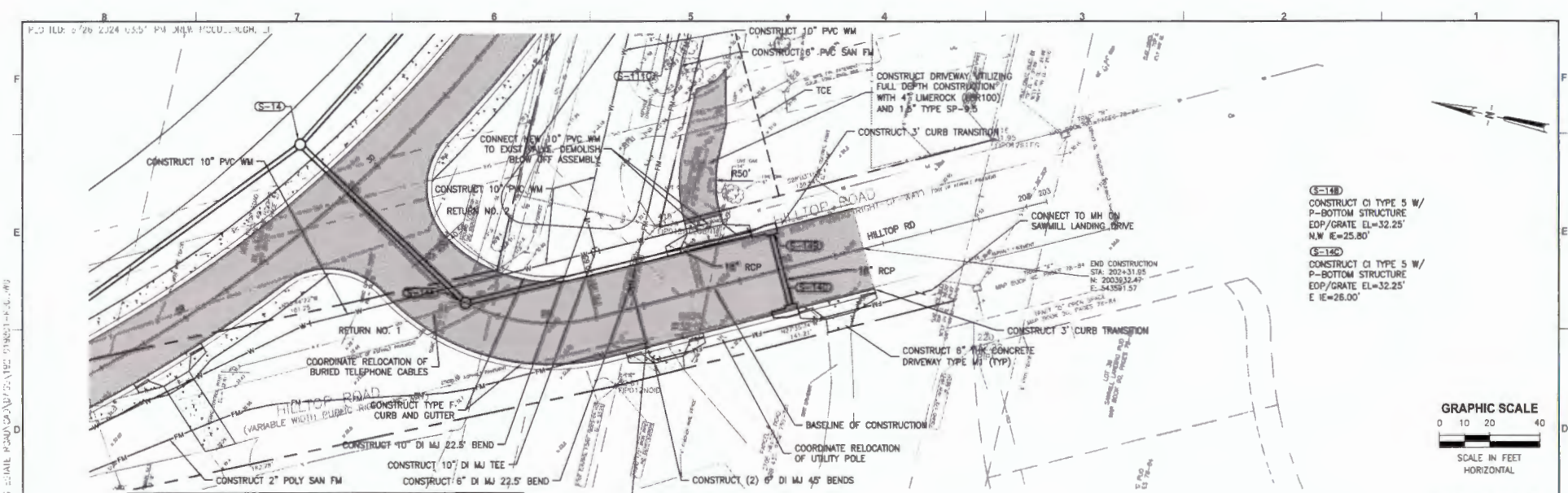
DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BMHYRE

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13945 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32815 / (352) 977-9821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

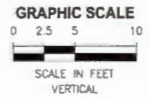
PLAN AND PROFILE STA 36+71 TO STA 40+60

APPROVED BY	MATTHEW J. O'BRIEN P.E. 73893
PROJECT NO.	19270-198-01
DATE	JUN 2024
INDEX NO.	01
DWG NO.	RB

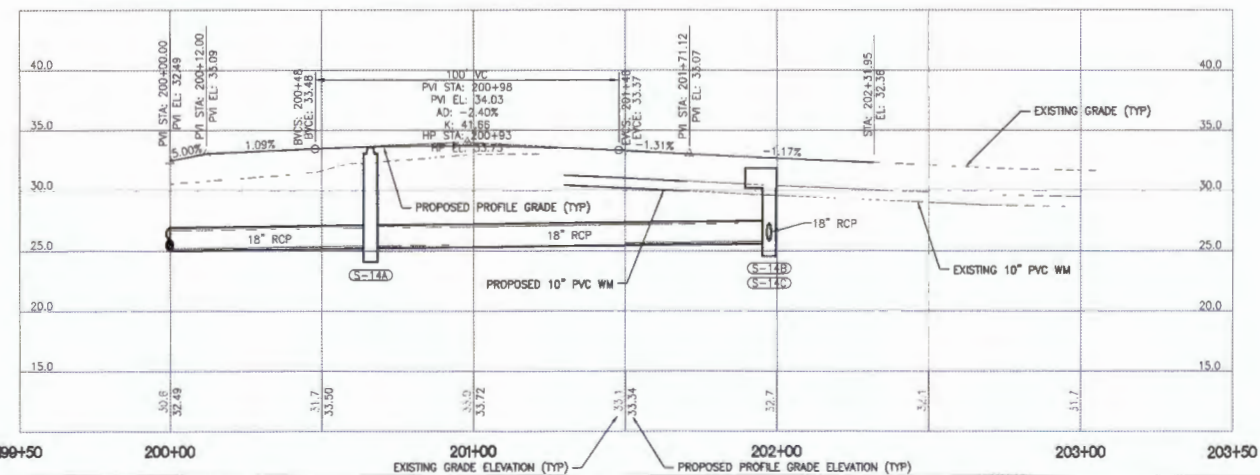


S-140
 CONSTRUCT CI TYPE 5 W/
 P-BOTTOM STRUCTURE
 EOP/GRATE EL=32.25'
 N.W E=25.80'

S-140
 CONSTRUCT CI TYPE 5 W/
 P-BOTTOM STRUCTURE
 EOP/GRATE EL=32.25'
 E IE=28.00'

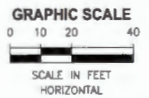
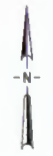
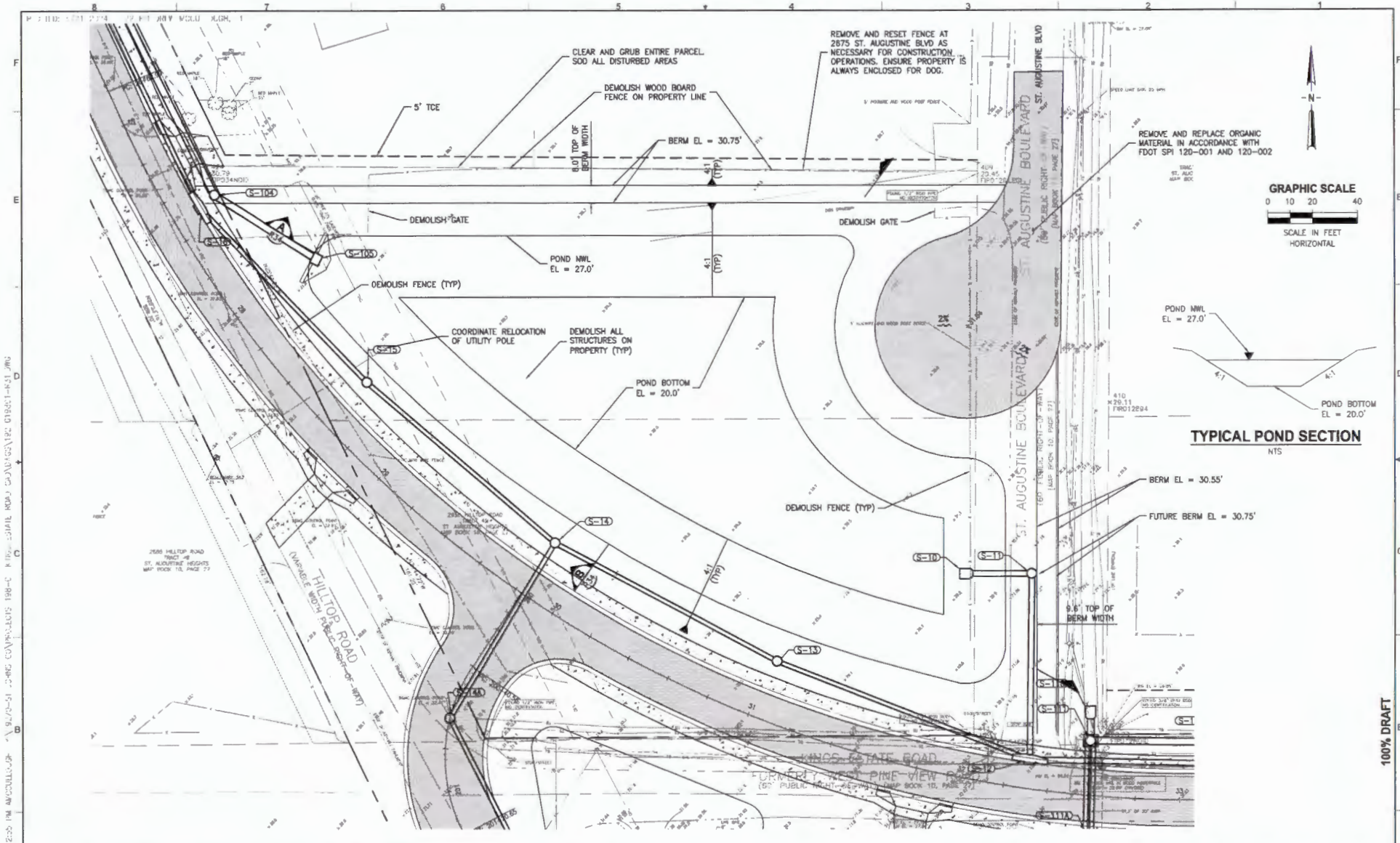


RETURN	STA	OFFSET	EL	STA	OFFSET	EL	RADIUS
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NO. 1	29+59.68	20.00' R	33.09'	200+64.43	17.00' R	33.12'	30'
NO. 2	30+27.65	12.00' R	32.95'	200+42.03	17.00' L	33.18'	30'
NO. 2	30+08.37	20.00' R	33.10'	200+64.43	17.00' L	33.12'	30'



DESIGNED: MO'BRIEN DRAWN: MO'BRIEN CHECKED: BMYHRE		<p>CERTIFICATE OF AUTHORIZATION #1841 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32815 (952) 977-5921</p>	ROADWAY AND INFRASTRUCTURE IMPROVEMENTS KINGS ESTATE ROAD AND HILLTOP ROAD ST. JOHNS COUNTY, FLORIDA	PLAN AND PROFILE STA 200+00 TO STA 203+00	APPROVED BY: MATTHEW J. O'BRIEN P.E. 73893	PROJECT NO: 19270-198-01	DATE: JUN 2024
LTR DATE REVISIONS BY APPR.					INDEX NO:	DWG NO: R30	

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TYPICAL POND SECTION
NTS

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DESIGNED	M O'Brien
DRAWN	M O'Brien
CHECKED	B Myhre

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
13145 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32815 / (850) 377-9821

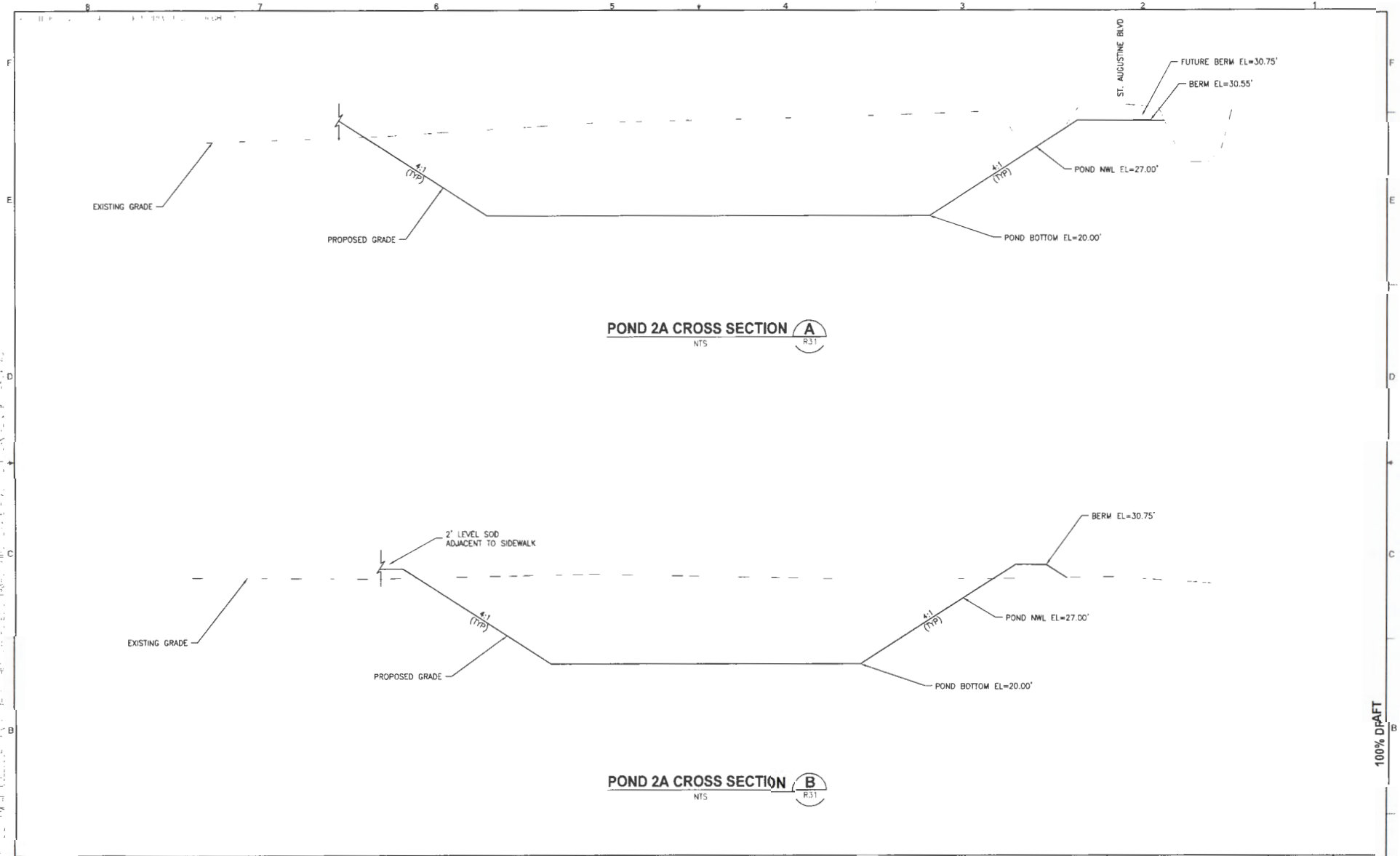
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

POND 2A GRADING PLAN

APPROVED BY
MATTHEW J. O'BRIEN
P.E. 73883

PROJECT NO:	19270-198-01	DATE:	JUN 2024
INDEX NO:		DWG NO:	R31

100% DRAFT



POND 2A CROSS SECTION A
NTS

POND 2A CROSS SECTION B
NTS

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DESIGNED	MC'BRIEN
DRAWN	MC'BRIEN
CHECKED	SMYHRE
BY	
APPROV	
DATE	
REVISIONS	

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CERTIFICATE OF AUTHORIZATION #1841
 11545 PROGRESS BOULEVARD SUITE 100 ALACHUA, FL 32015 / (904) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

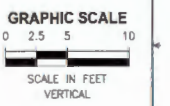
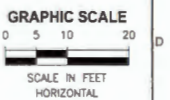
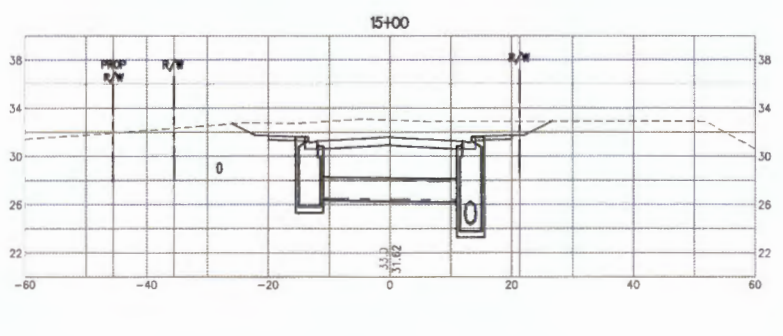
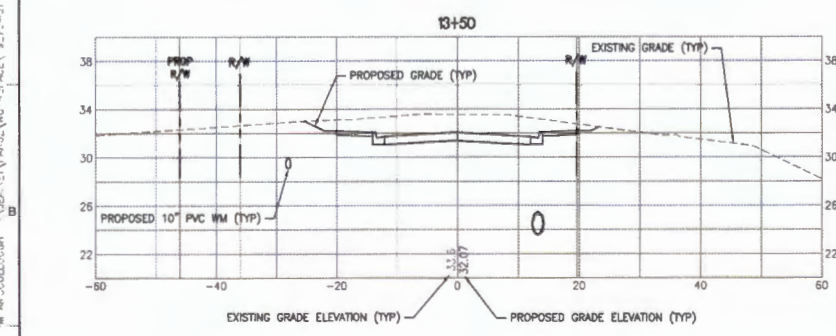
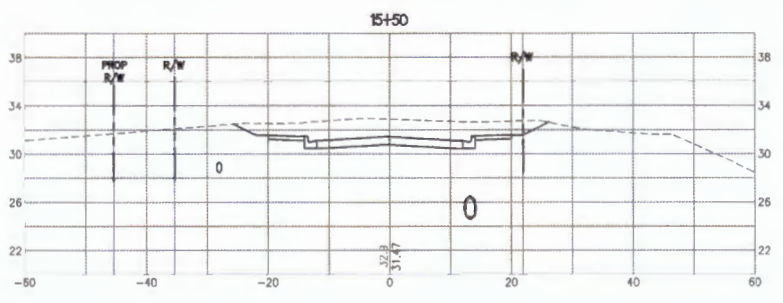
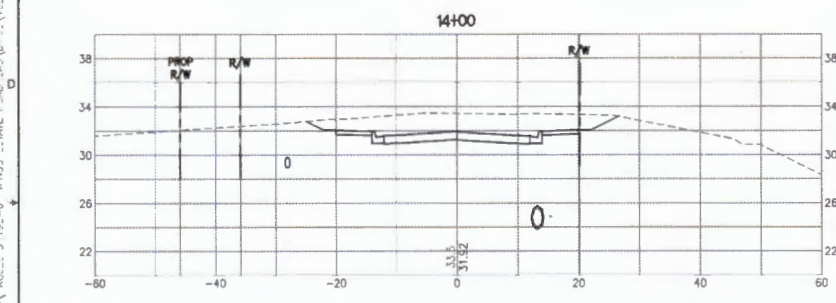
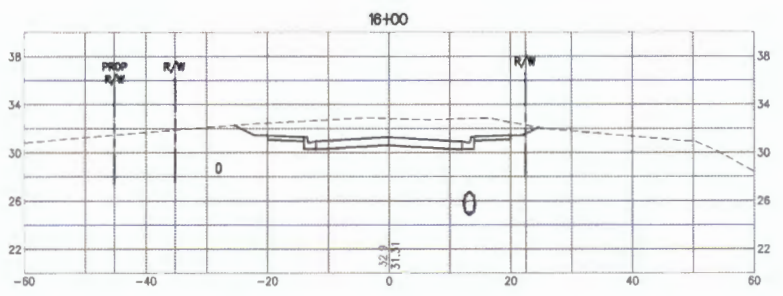
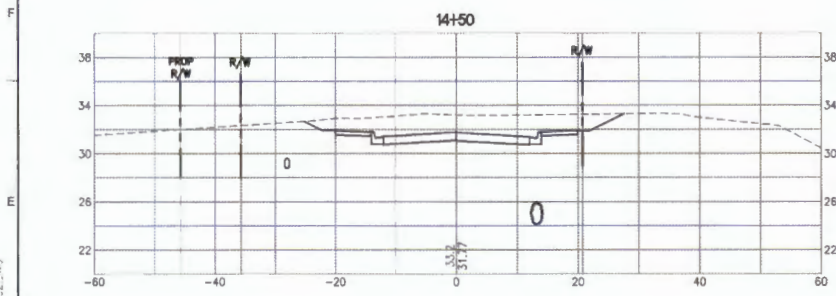
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APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO.	19270-198-01	DATE	JUN 2023
INDEX NO.		DWG NO.	R34

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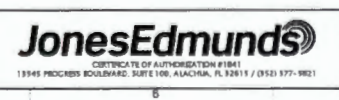
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DATE	REVISIONS	BY	APPRO.	CHECKED

DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	SMYTHRE



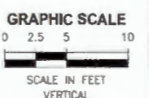
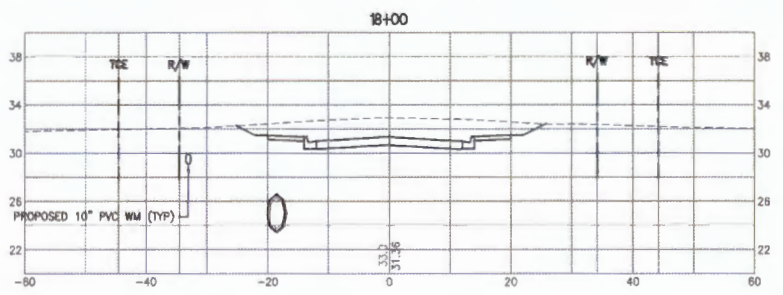
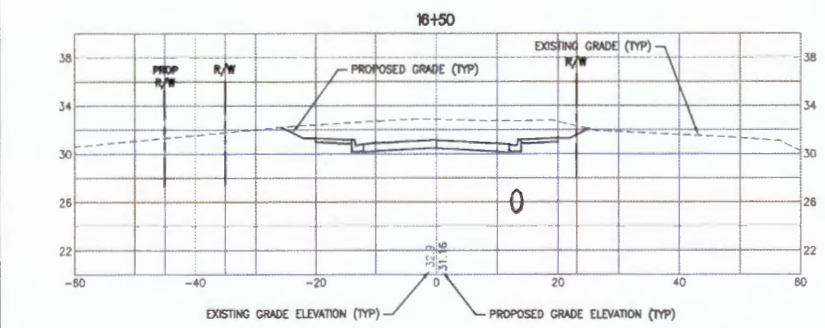
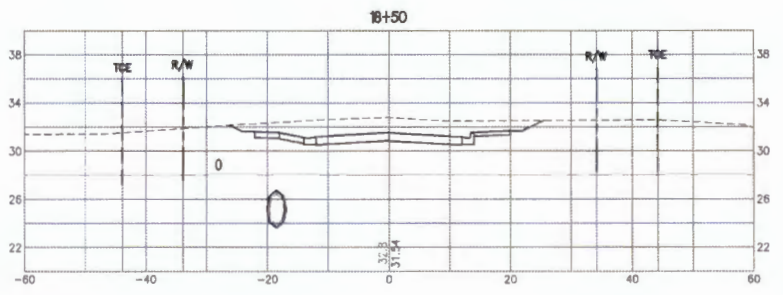
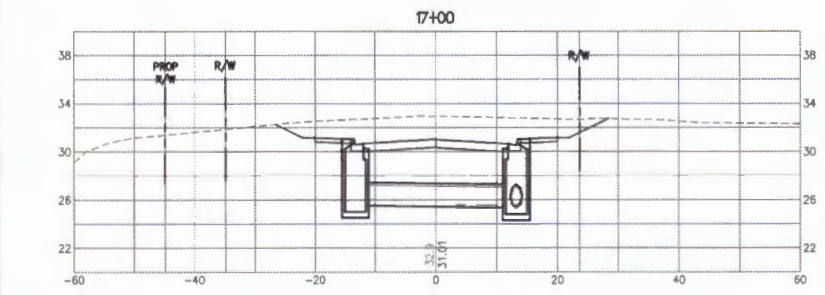
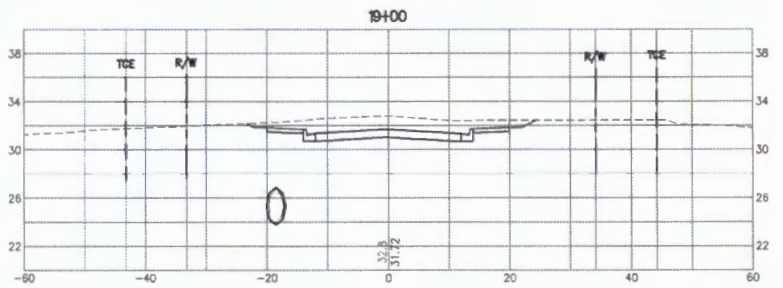
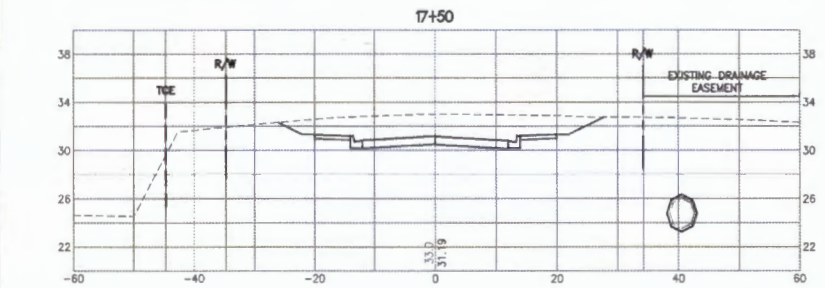
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY
MATTHEW J. O'BRIEN
P.E. 73893

PROJECT NO:	19270-198-01	DATE:	JUN 2024
INDEX NO:		DWG NO.:	CS2

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NO.	DATE	REVISIONS	BY	APPROV.	CHECKED

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CERTIFICATE OF AUTHORIZATION #1841
 13145 PROGRESS BOULEVARD SUITE 100 ALACHUA, FL 32615 / (904) 377-1821

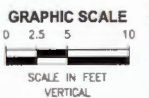
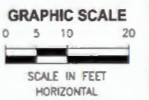
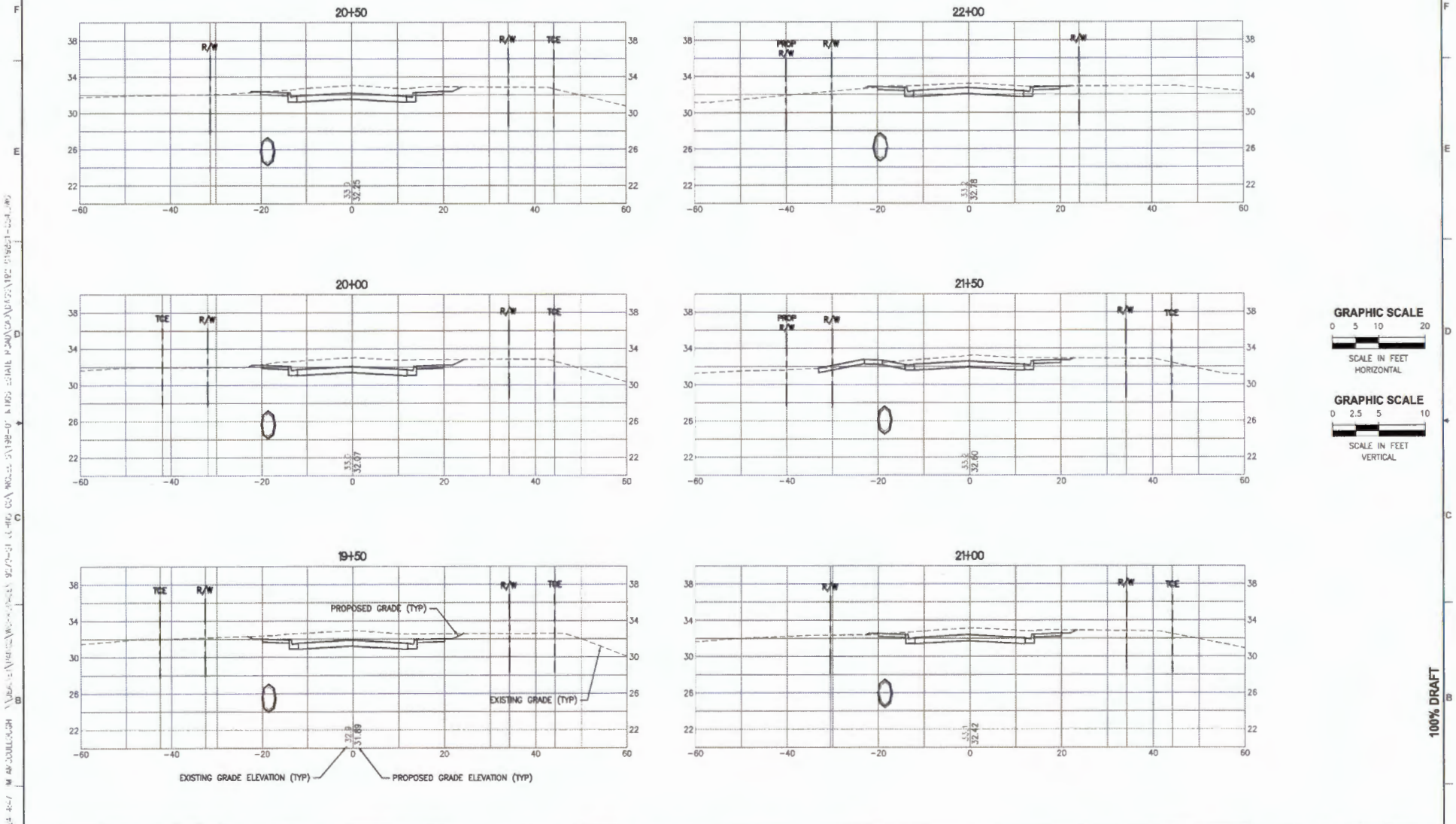
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO: 19270-198-01	DATE: JUN 2024
INDEX NO:	DWG NO: CS3

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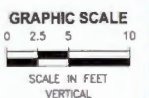
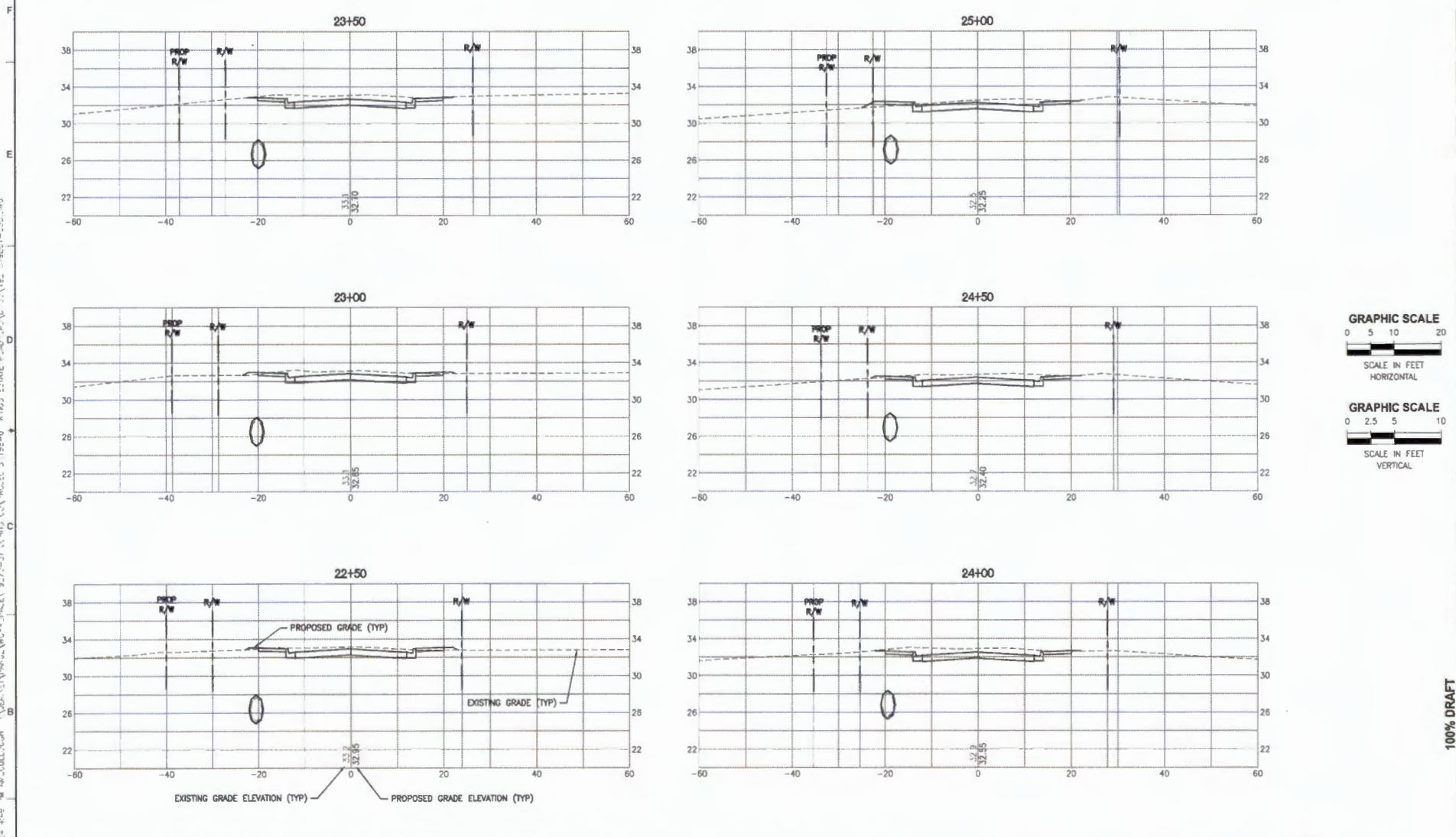
DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	SMYTHRE

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13145 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32615 / (352) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY	PROJECT NO.	DATE
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO.	DWG NO.
		CS4



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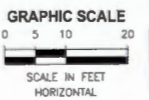
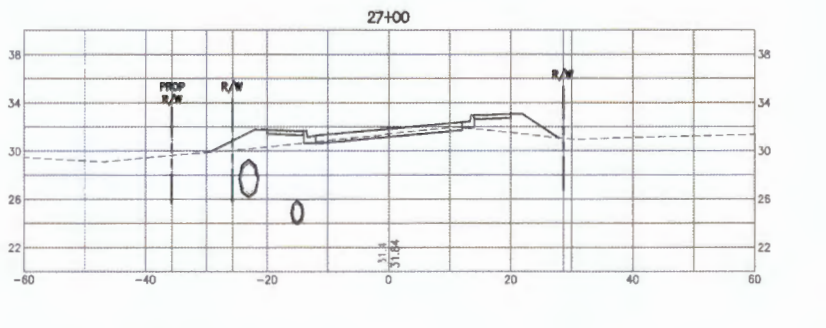
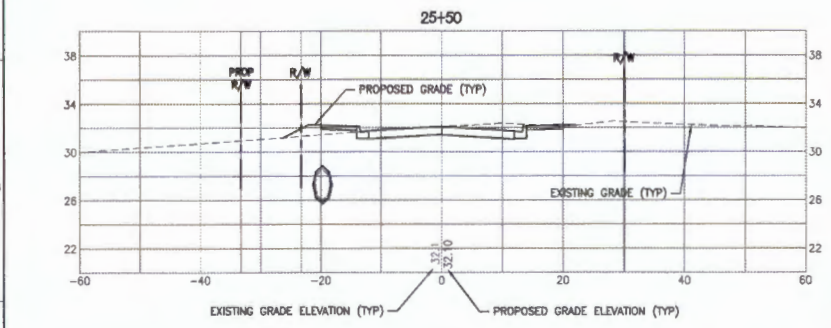
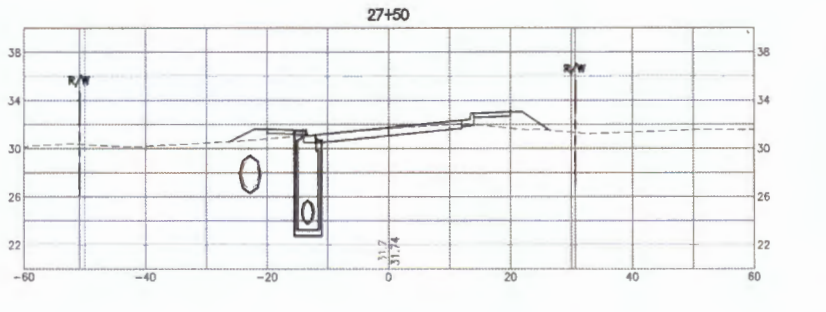
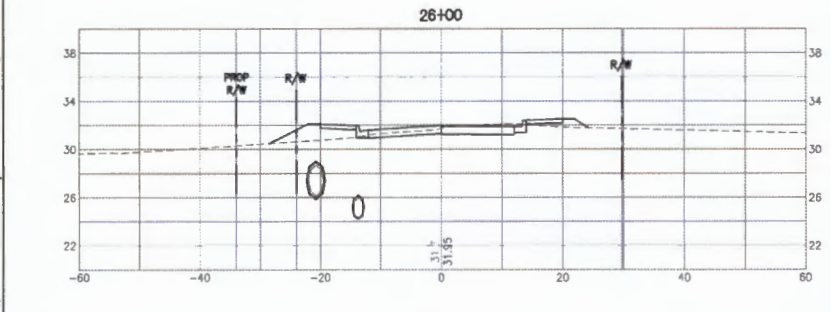
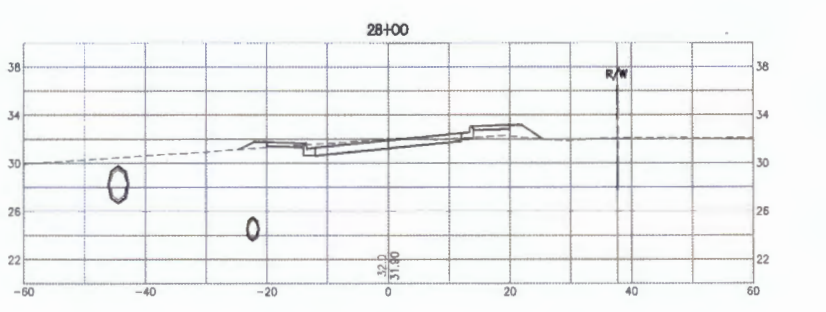
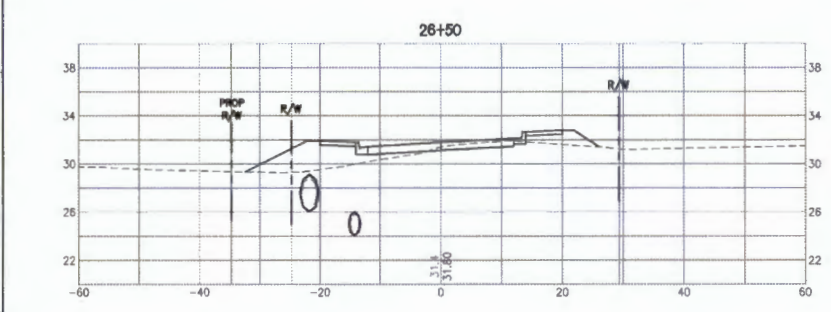
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DRAWN	MO'BRIEN			
CHECKED	SMYTHRE			
LTR	DATE	REVISIONS	BY	APPROD

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13345 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32019 // (913) 377-1921

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
		CSS



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APPROD	
DATE	
REVISIONS	

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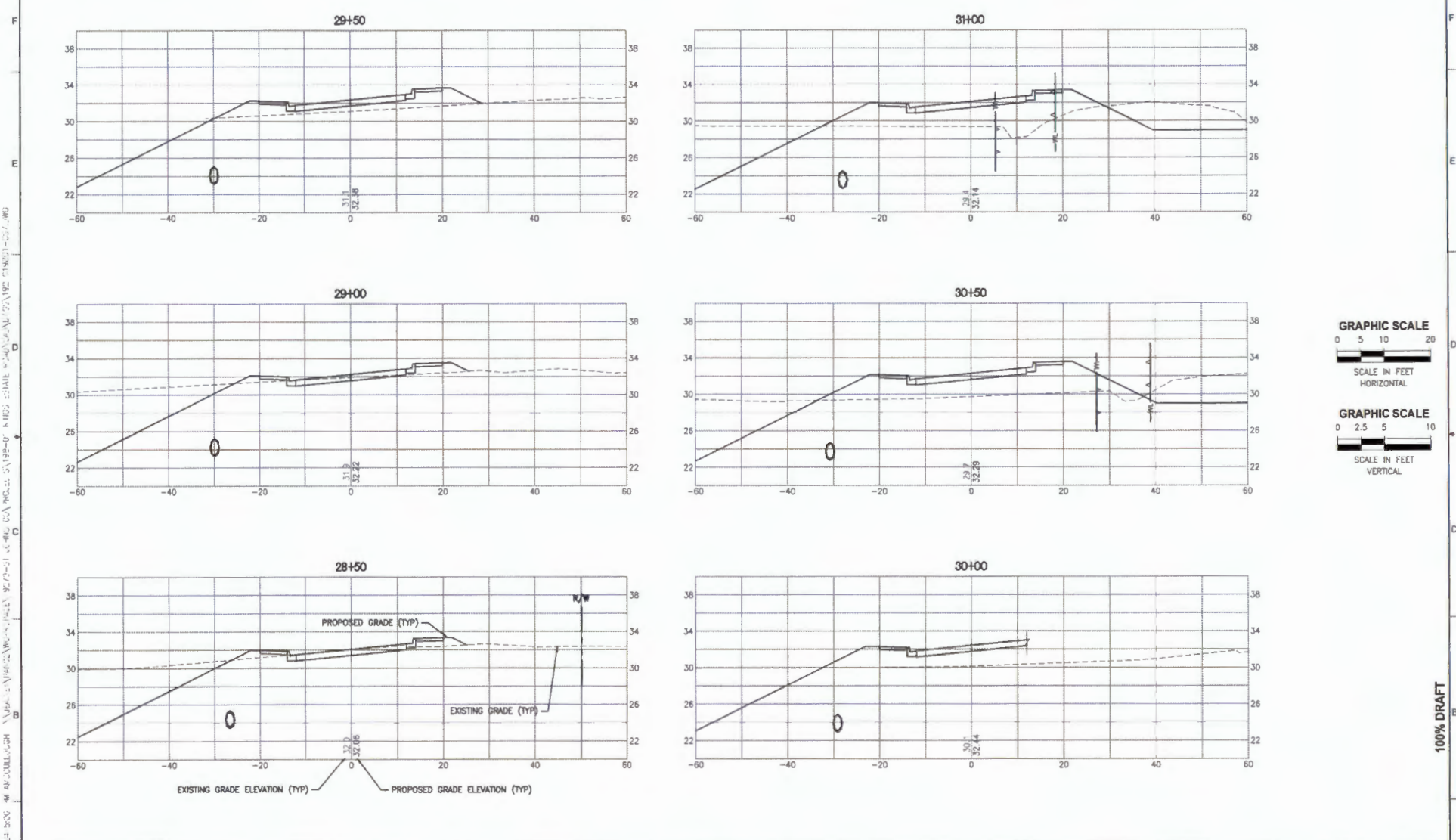
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO:	19270-198-01	DATE:	JUN 2024
INDEX NO:		DWG NO:	CS6

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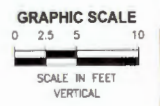
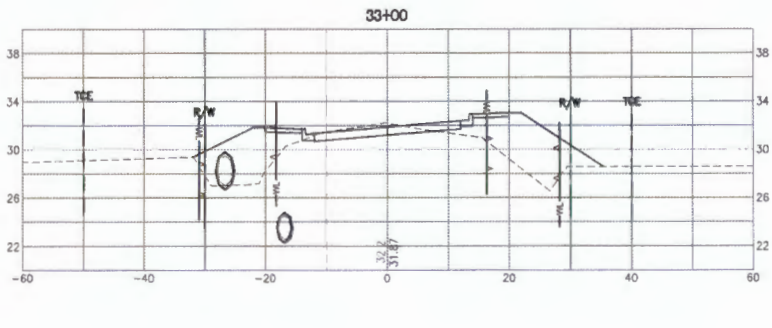
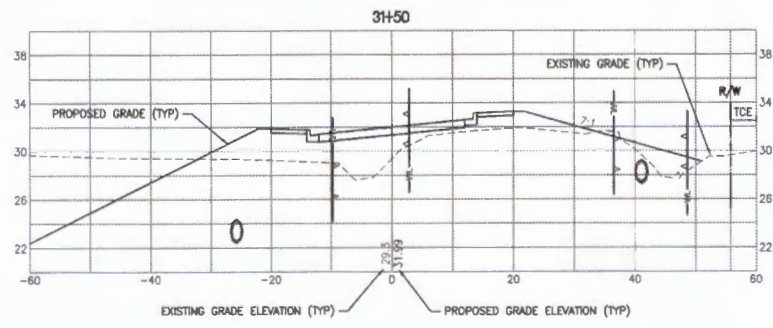
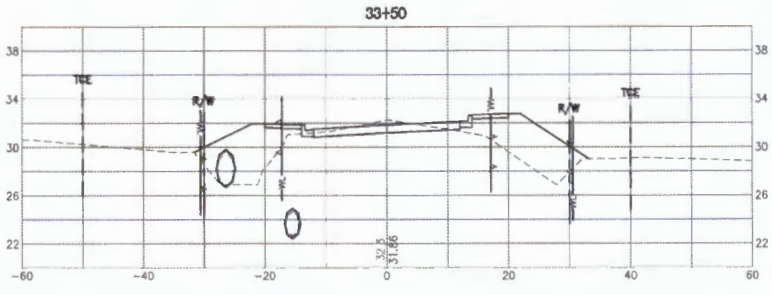
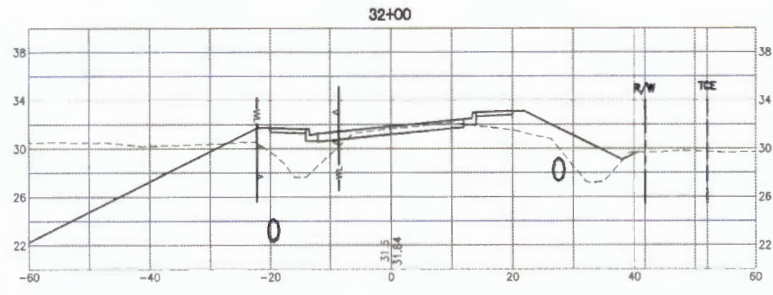
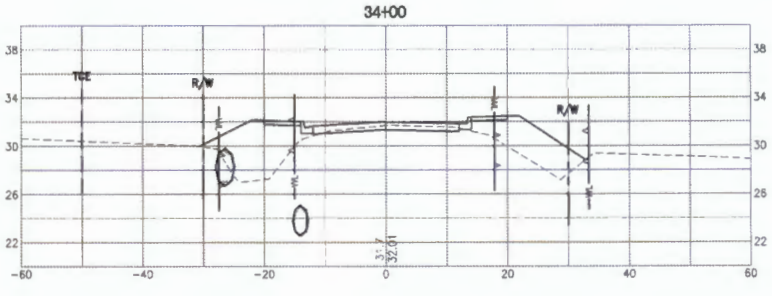
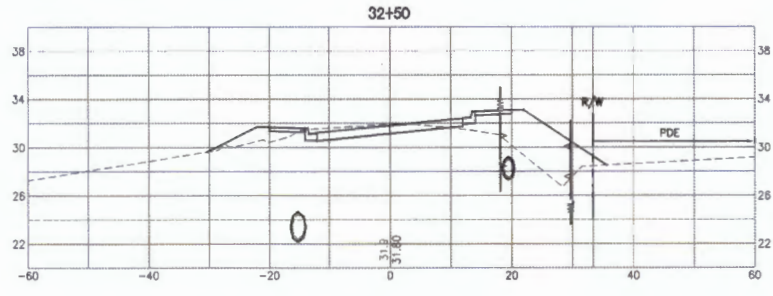
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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY	PROJECT NO.	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO.	DWG NO.
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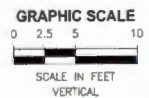
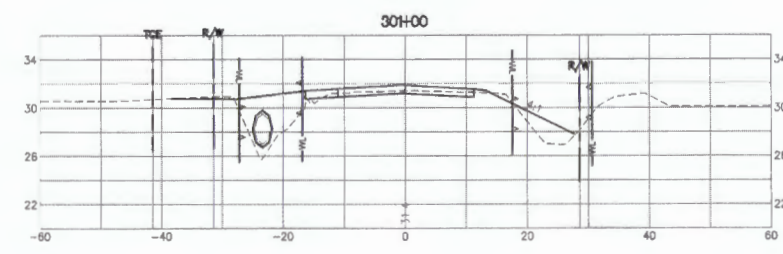
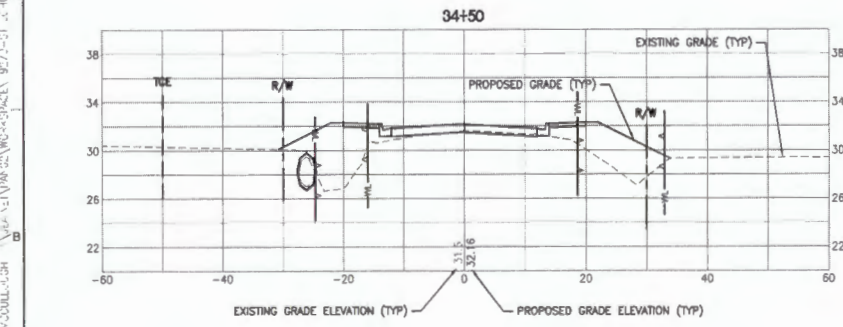
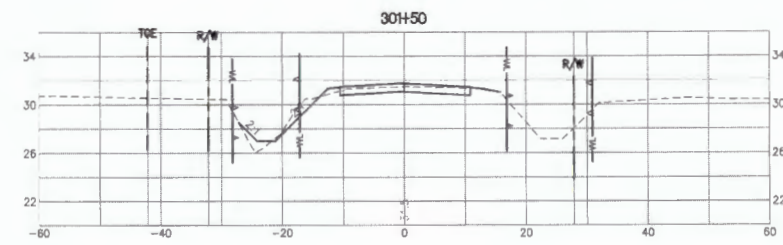
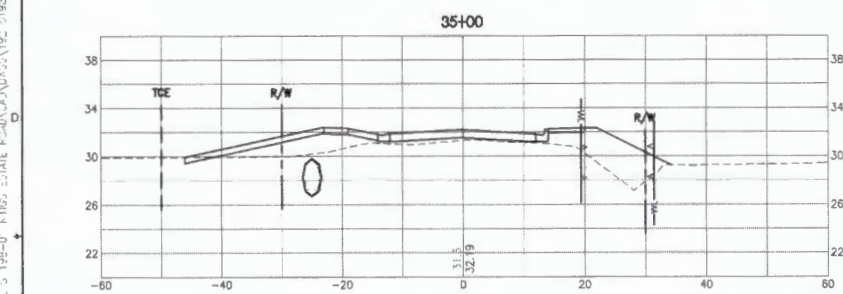
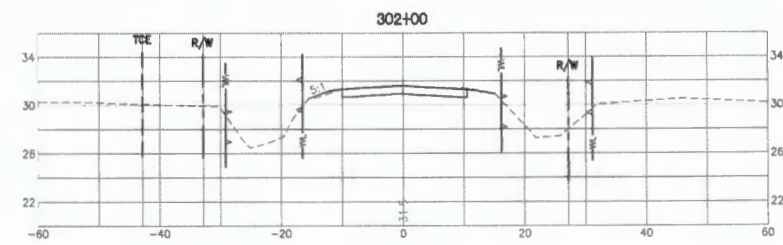
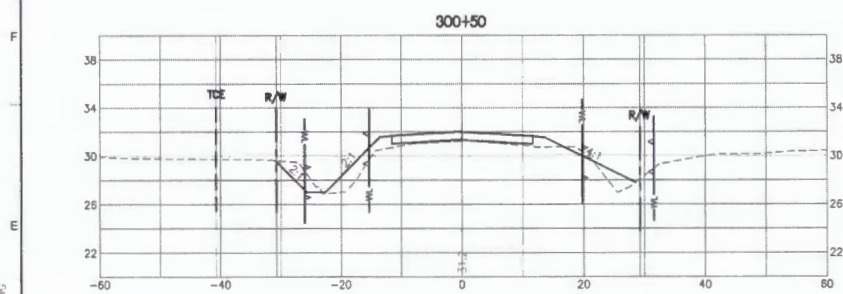
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS

KINGS ESTATE ROAD AND HILLTOP ROAD

ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
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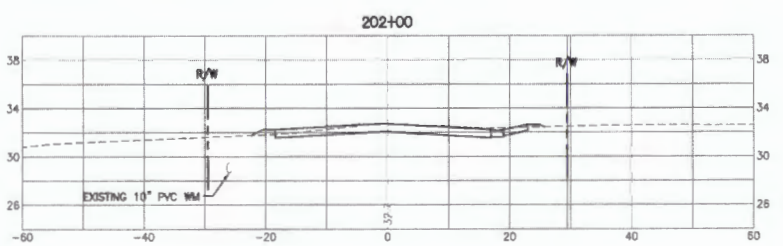
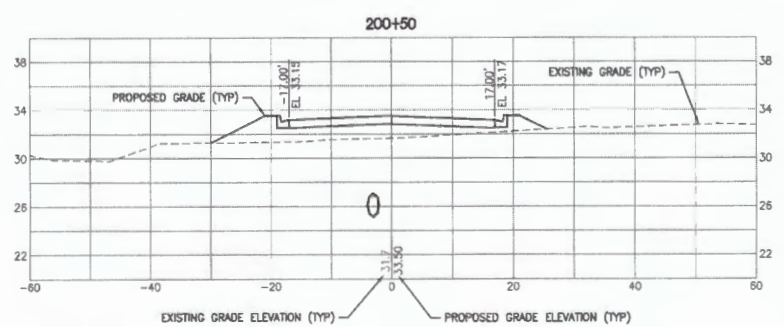
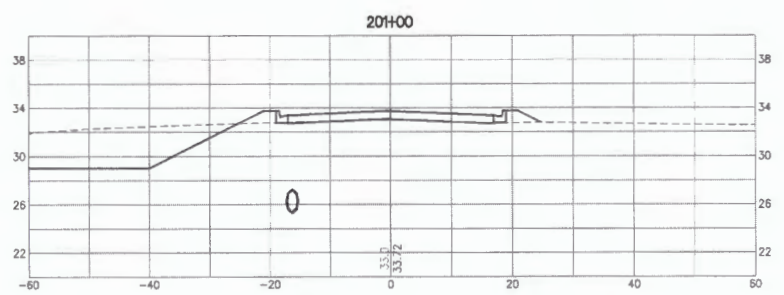
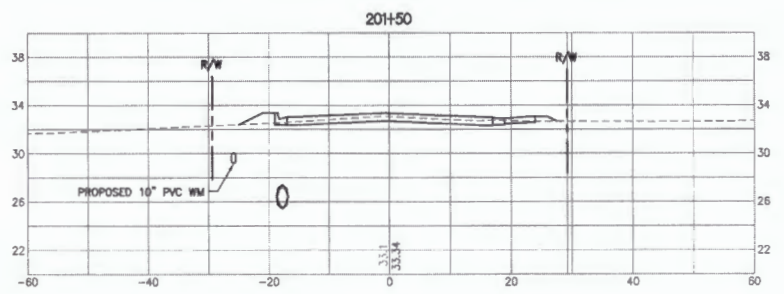
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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY	PROJECT NO.	DATE
MATTHEW J. O'BRIEN P.E. 73893	19270-198-01	JUN 2024
	INDEX NO.	DWG NO.
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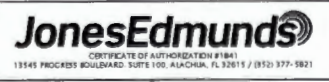


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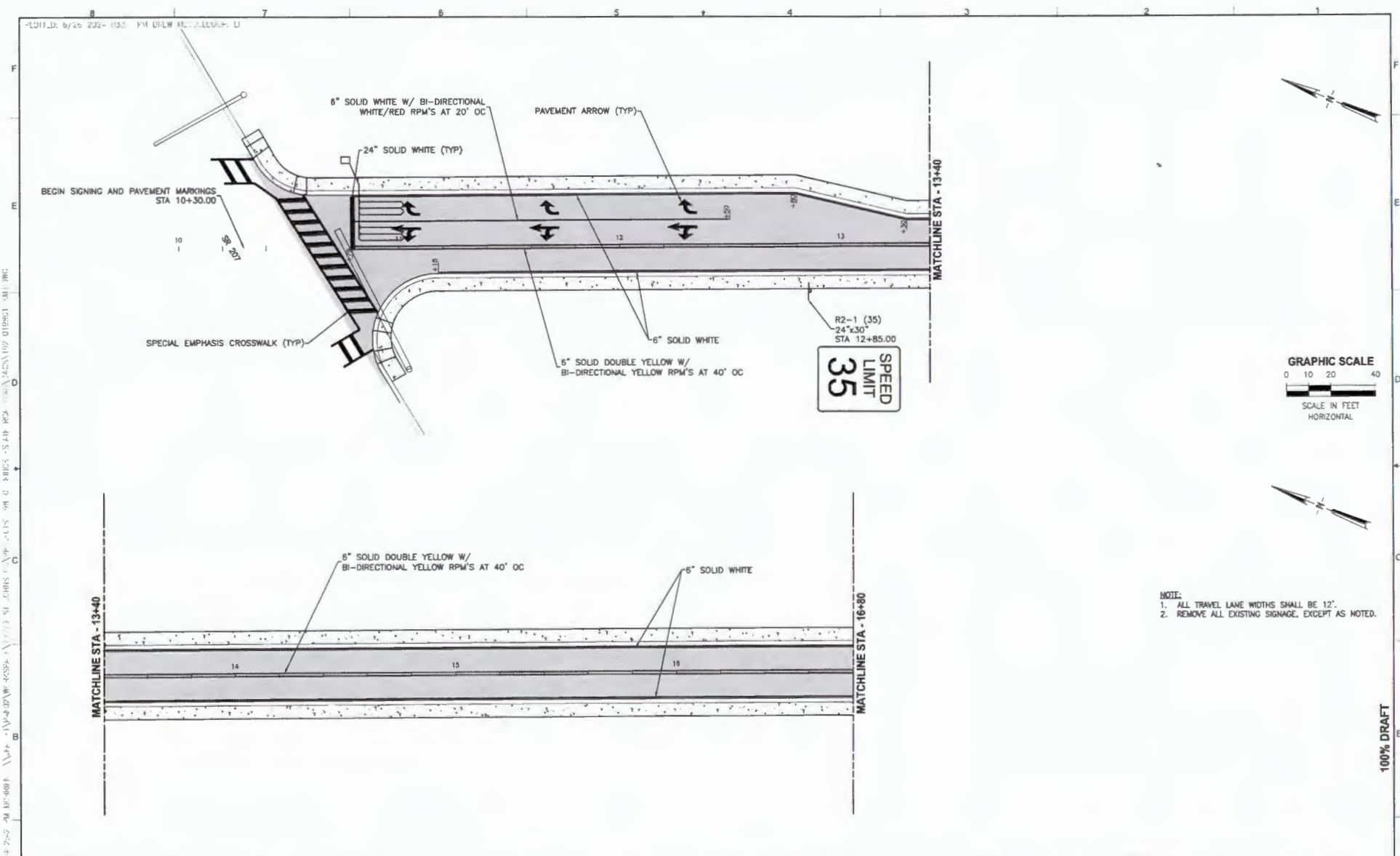
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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

CROSS SECTIONS

APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
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NOTE:
 1. ALL TRAVEL LANE WIDTHS SHALL BE 12'.
 2. REMOVE ALL EXISTING SIGNAGE, EXCEPT AS NOTED.

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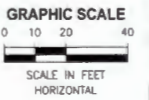
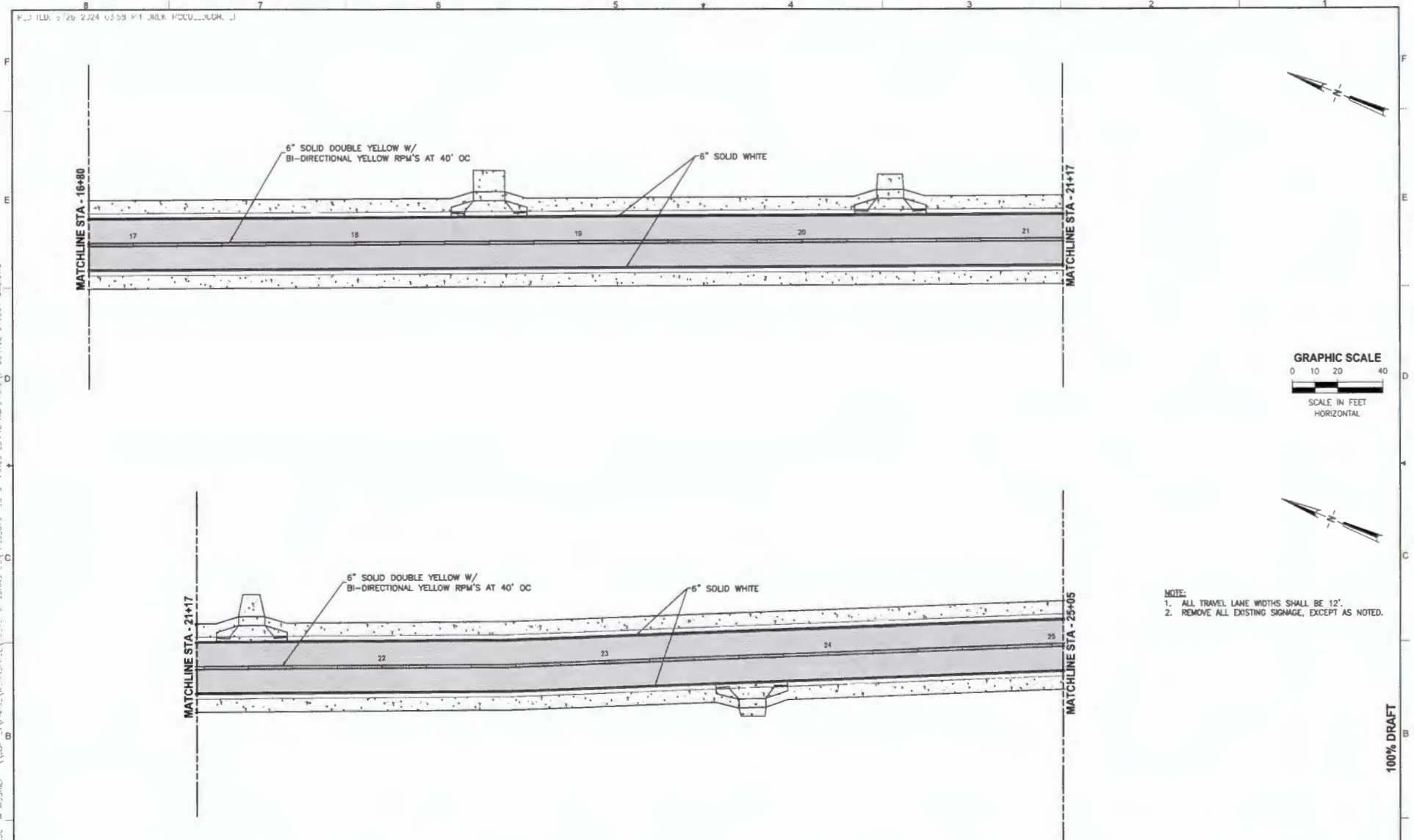
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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

SIGNING AND PAVEMENT MARKING PLAN

APPROVED BY: MATTHEW J. O'BRIEN P.E. 73893	PROJECT NO: 19270-198-01	DATE: JUN 2024
	INDEX NO:	DWG NO: SM1



NOTE:
 1. ALL TRAVEL LANE WIDTHS SHALL BE 12'.
 2. REMOVE ALL EXISTING SIGNAGE, EXCEPT AS NOTED.

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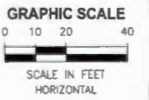
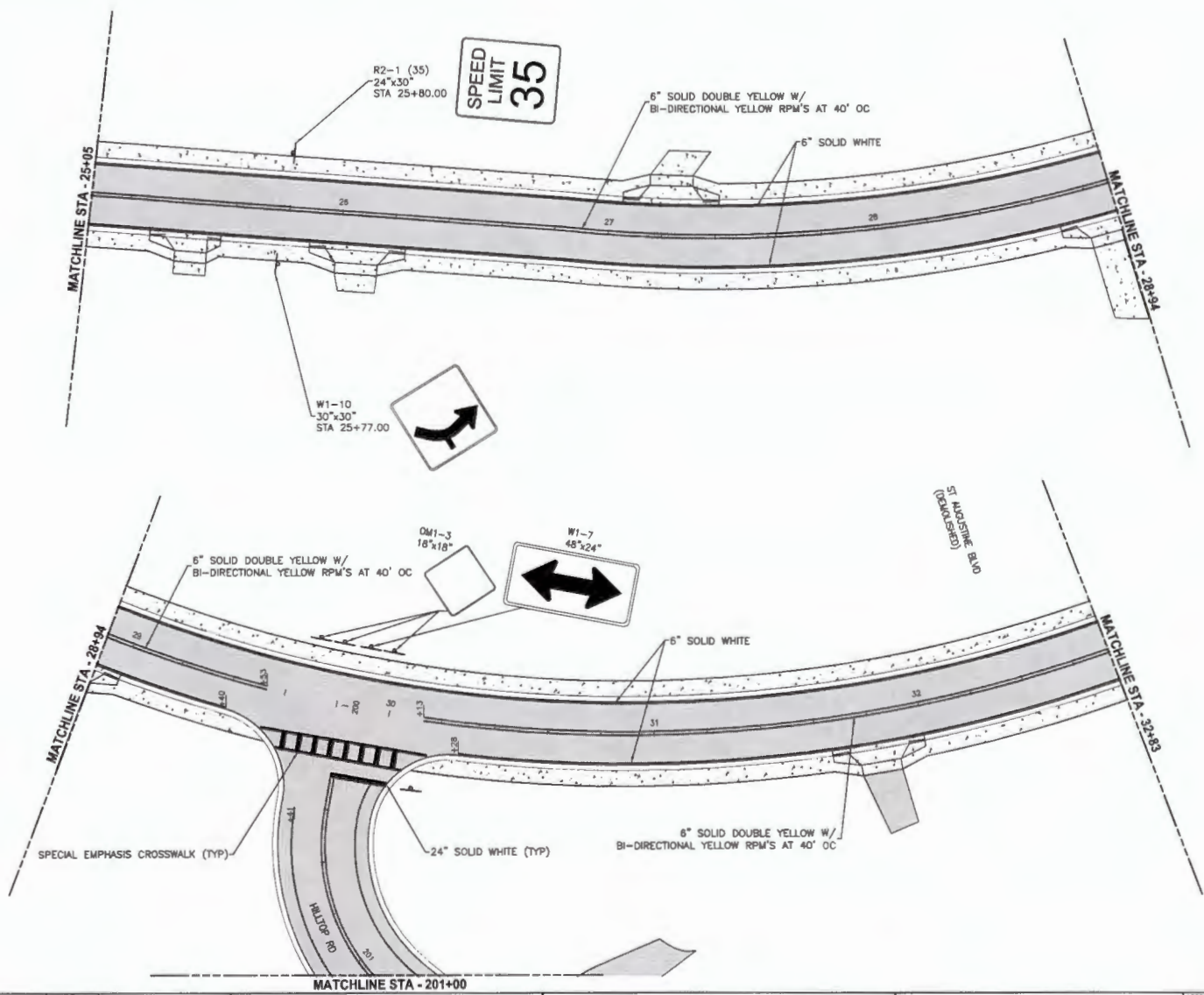
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

SIGNING AND PAVEMENT MARKING PLAN

APPROVED BY	PROJECT NO	DATE
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO.	DWG NO
		SM2

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 PLOT USER: JONAS O'BRIEN
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 PLOT TITLE: SIGNING AND PAVEMENT MARKING PLAN
 PLOT PROJECT: 19270-198-01
 PLOT DRAWING: SM2

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- NOTE:
1. ALL TRAVEL LANE WIDTHS SHALL BE 12'.
 2. ALL PAVED SHOULDER WIDTHS SHALL BE 5'.
 3. REMOVE ALL EXISTING SIGNAGE, EXCEPT AS NOTED.

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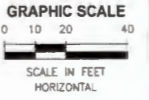
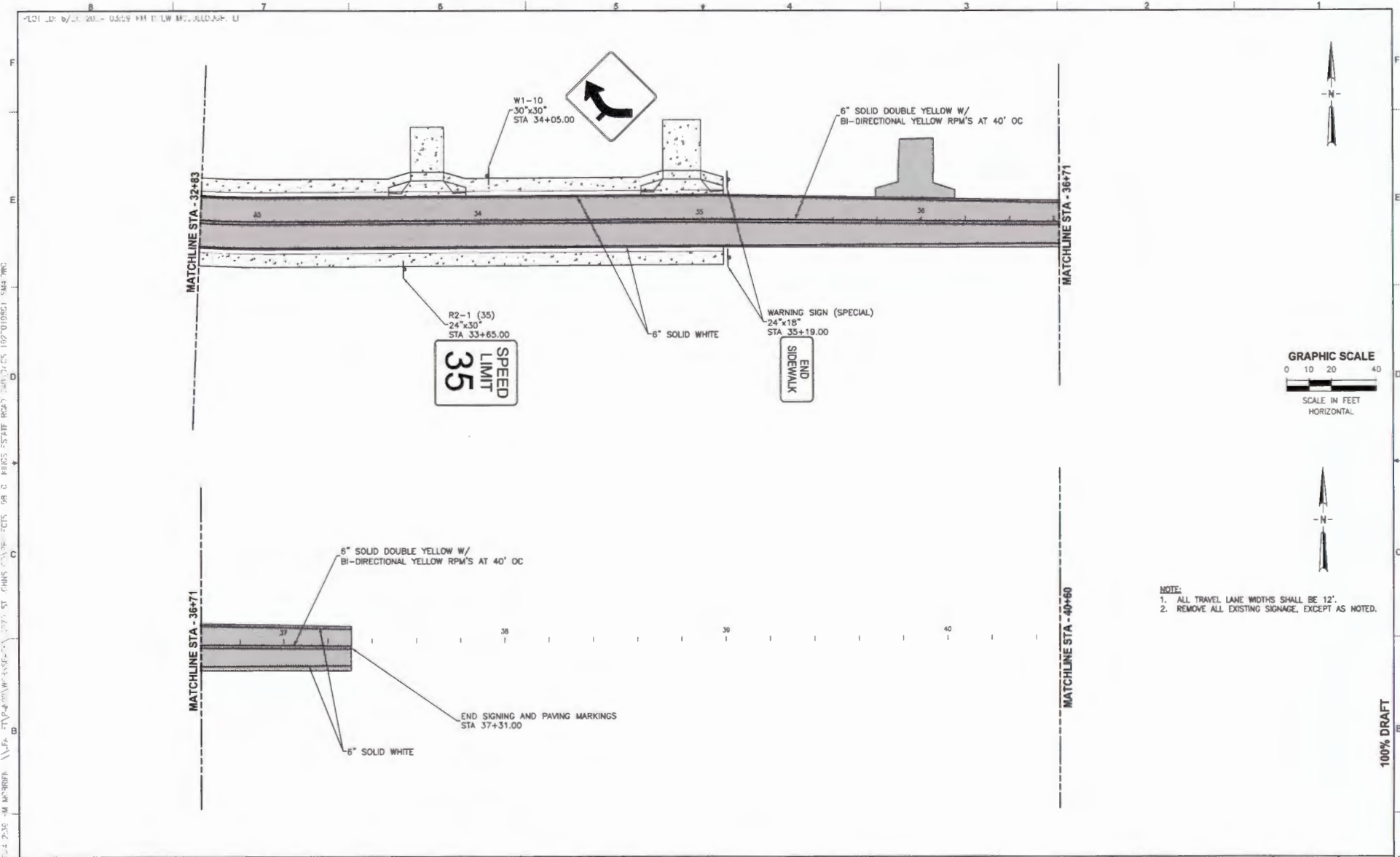
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 18945 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32818 / (953) 377-9821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

SIGNING AND PAVEMENT MARKING PLAN

APPROVED BY: MATTHEW J. O'BRIEN P.E. 73863	PROJECT NO: 19270-198-01	DATE: JUN 2024
	INDEX NO:	DWG NO: SM3



NOTE:
1. ALL TRAVEL LANE WIDTHS SHALL BE 12'.
2. REMOVE ALL EXISTING SIGNAGE, EXCEPT AS NOTED.

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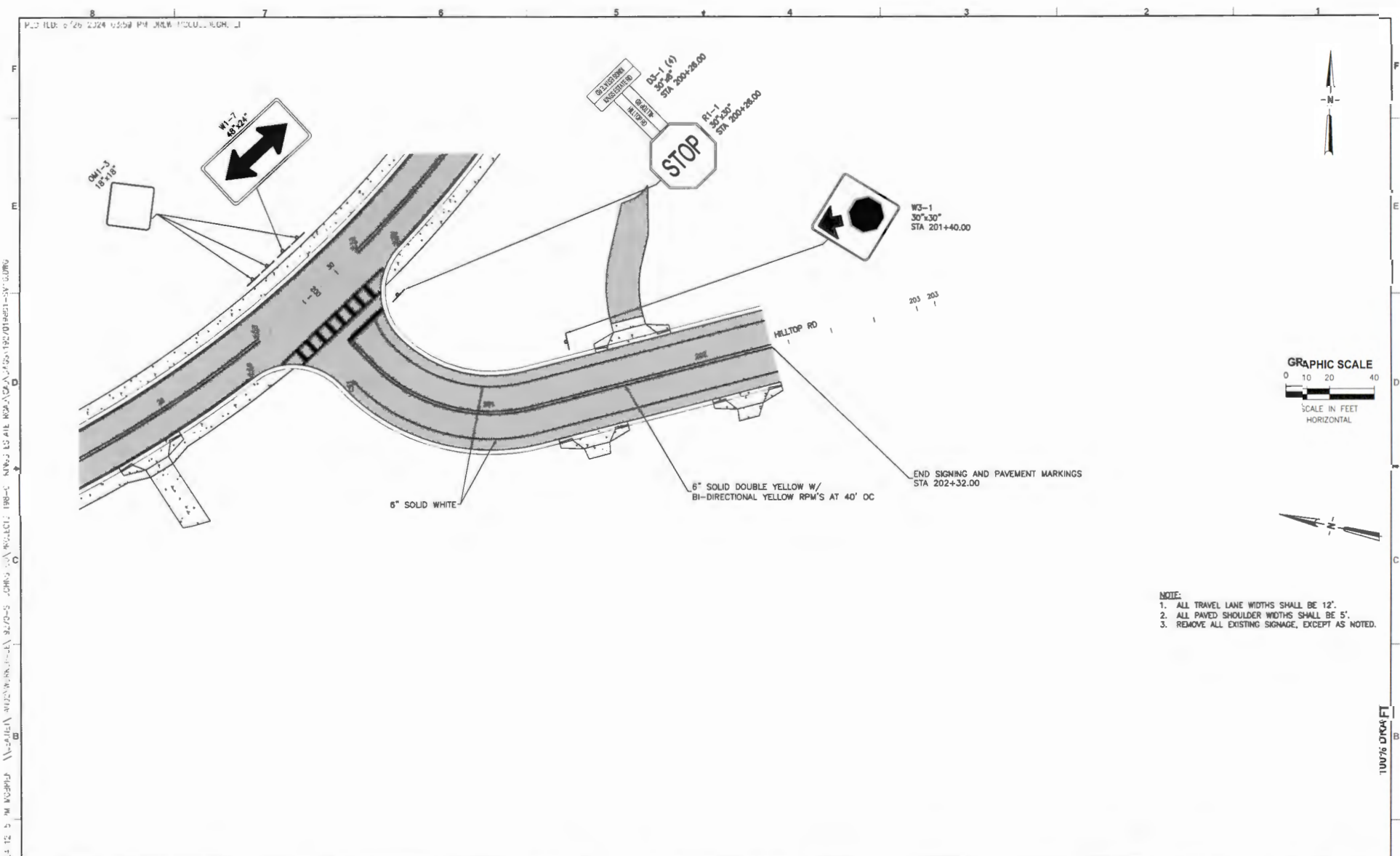
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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

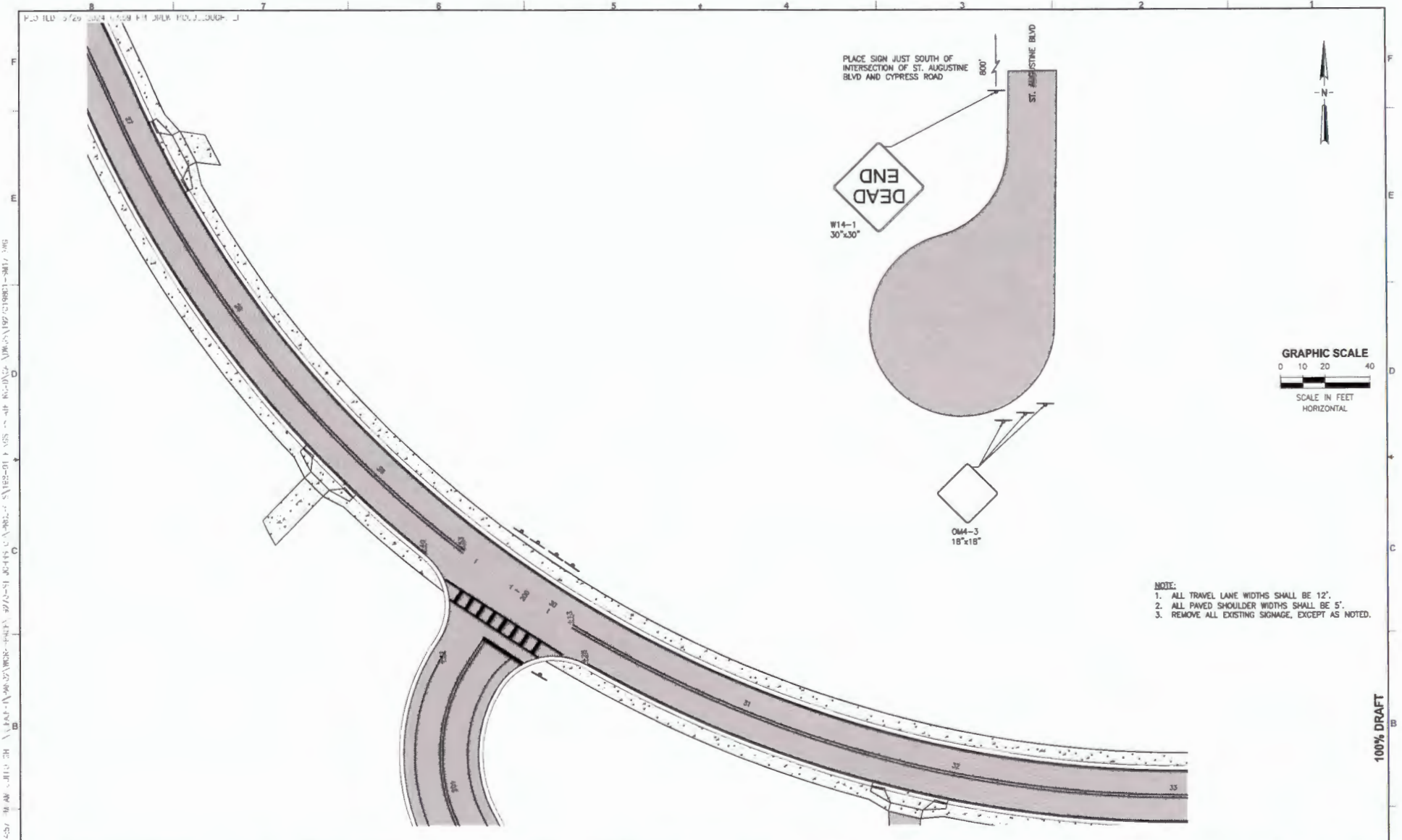
SIGNING AND PAVEMENT MARKING PLAN

APPROVED BY
MATTHEW J. O'BRIEN
P.E. 73893

PROJECT NO.: 19270-198-01	DATE: JUN 2024
INDEX NO.:	DWG NO.: SM4



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DRAWN	MO'BRIEN						MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
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 PROJECT: 19270-198-01
 DATE: JUN 2024
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 CHECKED BY: BMYHRE
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 APPROVED BY: MATTHEW J. O'BRIEN
 P.E. 73893

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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

SIGNING AND PAVEMENT MARKING PLAN

APPROVED BY: MATTHEW J. O'BRIEN P.E. 73893	PROJECT NO: 19270-198-01	DATE: JUN 2024
	WEEK NO:	DWG NO: SM17

NARRATIVE

1. DESCRIPTION OF CONSTRUCTION ACTIVITY:
CONSTRUCTION OF A NEW ROADWAY, SIDEWALK, AND TYPED STORMWATER SYSTEM ON HILLTOP ROAD AND KINGS ESTATE ROAD. PROJECT IS LOCATED IN ST. AUGUSTINE, FLORIDA (SEE INSET MAP ON COVER SHEET), ST. JOHNS COUNTY, FLORIDA.

WORK INCLUDES CLEARING, GRUBBING, TRINCHING, SITE GRADING, PIPING, AND PAVING.

2. SITE AREA INFORMATION:
THE MAJORITY OF STORMWATER FLOW IS ON-SITE FLOW FROM THE NEW ROADWAY. THERE IS SOME CONTRIBUTING STORMWATER FLOW FROM ADJACENT OFFSITE AREAS.
TOTAL AREA OF THE SITE = 5.00 +/- ACRES
TOTAL DISTURBANCE AREA = 5.00 +/- ACRES
RUNDRI CURVE NUMBERS FOR DISTURBED AREAS BEFORE CON = VARIES
AFTER CON = VARIES

3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FLOW OF STORMWATER THROUGH THE PROJECT LIMITS

4. THE CONTRACTOR SHALL MODIFY THE CONSTRUCTION SEQUENCE TO MAINTAIN THE FLOW OF STORMWATER THROUGH-OUT AROUND THE PROJECT IN A MANNER THAT MAINTAINS THE WATER QUALITY AND COMPLIES WITH PERMIT REQUIREMENTS. PUMPING OF STORMWATER AND DEWATERING, MAY BE NECESSARY WITHIN AND/OR BETWEEN CONSTRUCTION PHASES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE EARTHWORK OPERATION.

5. THE CONTRACTOR SHALL REVIEW THE PROPOSED CONSTRUCTION SEQUENCE AND SUBMIT A LETTER CONFIRMING AGREEMENT WITH THE PROPOSED SEQUENCE TO THE OWNER, OR "PROPOSING A DIFFERENT SEQUENCE FOR REVIEW AND APPROVAL BY THE ENGINEER."

6. PROPOSED CONSTRUCTION SEQUENCE.

MOBILIZATION/PRE-GRADING

- SUBMIT DETAILED SEDIMENT AND EROSION CONTROL PLAN TO FDEP FOR APPROVAL.
- BEGIN TURBIDITY MONITORING.
- COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP FOR CONSTRUCTION NPDES PERMIT.
- POST AND MAINTAIN NOI, ENVIRONMENTAL RESOURCE PERMIT, AND COUNTY PERMITS ON-SITE IN SECURE BULLETIN BOARD.
- INSTALL SILT FENCES, FILTER BARRIER, TURBIDITY BARRIERS, AND OTHER BMPs AS NEEDED ALONG WORK LIMITS

SITE WORK, DEWATER AS NEEDED, CONTROL SEDIMENT AND TURBIDITY IN DISCHARGE

- 2.1 INSTALL SILT FENCES, FILTER BARRIER, AND OTHER BMPs AS NEEDED.
- 2.2 BEGIN CLEARING AND GRUBBING
- 2.3 BEGIN EARTHWORK OPERATIONS
- 2.4 CONSTRUCT STORMWATER PIPES AND INLETS
- 2.5 CONSTRUCT ROADWAYS AND SIDEWALKS
- 2.6 REMOVE SILT FENCES, FILTER BARRIER, AND OTHER BMPs

AFTER GRADING

- FINAL SODDING AND SITE RESTORATION
- REMOVE ACCUMULATED SEDIMENT FROM SEDIMENT TRAPS
- REMOVE ACCUMULATED SEDIMENT ABOVE PLAN FINISHED GRADES AND ALL TEMPORARY EROSION CONTROL MEASURES
- RE-VEGETATE ALL DISTURBED AREAS AS NECESSARY

STARTUP AND COMPLETION OF CONSTRUCTION

- COMPLETE AND SUBMIT NOTICE OF TERMINATION TO FDEP

7. DESCRIPTION OF THE SOILS AND AN IDENTIFICATION OF THOSE THAT ARE HIGHLY ERODIBLE:

- POMELLE FINE SAND
- WADKALEE FINE SAND
- POMONA FINE SAND
- ST. JOHNS FINE SAND
- MANATEE FINE SANDY LOAM

8. AFFECTED DRAINAGE AREAS AND MAJOR DISCHARGE POINTS:
NEW WET DETENTION POND DISCHARGING TO THE CYPRESS ROAD DICH ON HILLTOP ROAD.

3. LATITUDE AND LONGITUDE OF EACH MAJOR DISCHARGE POINT:

29°50'56.87" N 81°21'25.13" W

10. NAMES OF RECEIVING WATER(S):

MULLEN CREEK

11. DESCRIPTION OF PROPOSED POLLUTION CONTROL MEASURES OR BMPs:

- A. EROSION AND SEDIMENT CONTROL PRACTICES
 - FILTER BARRIER, SILT FENCE, SODDING, ARTIFICIAL COVERINGS, AND SAND BAGGING.
- B. STRUCTURAL PRACTICES
 - N/A
- C. DEWATERING PRACTICES
 - THE FOLLOWING DEWATERING CONTROL PRACTICES MAY BE USED IN THIS PROJECT:
 - I. SOCK DRAINS
 - II. DEWATERING TRENCHES
 - III. SKIMMERS & SKIMMER PUMPS
 - IV. SEDIMENT CONTAINMENT FILTER BAGS

12. ESTIMATED CONSTRUCTION SCHEDULE

START DATE = TBD
COMPLETION DATE = TBD
STABILIZATION SCHEDULE
PERIMETER CONTROLS = BEGINNING OF PROJECT
CLEARING AND GRUBBING = THROUGHOUT THE PROJECT
INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES = THROUGHOUT THE PROJECT
CONSTRUCTION OF SEDIMENT BASIN = THROUGHOUT THE PROJECT
SITE CONSTRUCTION & INTERIM EROSION CONTROL MEASURES = THROUGHOUT THE PROJECT
FINAL VEGETATION = END OF PROJECT

13. THE CONTRACTOR IS RESPONSIBLE FOR THE BMP IMPLEMENTATION, INSPECTION, AND MAINTENANCE.

14. CALCULATIONS:
SUPPORTING CALCULATIONS FOR THE EROSION AND SEDIMENT CONTROL, CAN BE FOUND IN THE PROJECT ENVIRONMENTAL RESOURCE PERMIT APPLICATION.

15. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS, IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS:
THE FOLLOWING PERMIT WAS OBTAINED BY THE OWNER, AND IS PROVIDED IN THE CONTRACT DOCUMENTS.
ENVIRONMENTAL RESOURCE PERMIT

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO, THE NPDES PERMIT FOR CONSTRUCTION ACTIVITY, SURFACED CONSUMPTIVE USE PERMIT FOR CONSTRUCTION DEWATERING, AND SURFACED CONSTRUCTION DEWATERING DISCHARGE PERMIT

16. INVENTORY FOR POLLUTION PREVENTION PLAN:
THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:
CONCRETE, WOOD, MASONRY BLOCKS, PETROLEUM BASED PRODUCTS, DIESEL, CLEANING SOLVENTS, DETERGENTS, METAL REBAR.

RECORD REQUIREMENTS

THE CONTRACTOR SHALL, AT A MINIMUM, PERFORM AND DOCUMENT THE FOLLOWING RECORD KEEPING TASKS IN A REGULAR AND EXPEDIENT MANNER WHILE CONSTRUCTION ACTIVITIES ARE OCCURRING.

1. CONTRACTORS MUST RECORD THE FOLLOWING DATES:

- A) WHEN MAJOR GRADING ACTIVITIES OCCUR
- B) WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE
- C) WHEN STABILIZATION (E.G. FRODOV CONTROL) MEASURES BEGIN

2. CONTRACTORS ARE TO PROVIDE QUALIFIED INSPECTORS WHO HAVE KNOWLEDGE AND EXPERIENCE IN THE PRINCIPLES AND PRACTICE OF SEDIMENT AND EROSION CONTROL AND CAN COMPLETE PROJECT SITE INSPECTIONS

- A) AT LEAST ONCE EVERY SEVEN (7) DAYS
- B) DAILY AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.50-INCHES OR MORE AT THE SITE. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A RAIN GAUGE AND RECORD THE RAINFALL.

3. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. THE REPORTS WILL BE KEPT ON-SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. COPIES OF THE INSPECTION REPORTS WILL BE SUBMITTED TO THE OWNER AND INCLUDE DOCUMENTATION OF REMEDIAL ACTION TO ADDRESS SYSTEM FAILURES. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

4. TURBIDITY MUST BE MONITORED, RECORDED, AND REPORTED IN ACCORDANCE WITH PERMIT REQUIREMENTS.

INSPECTION AND MAINTENANCE REQUIREMENTS

EROSION AND SEDIMENT CONTROL, INSPECTION AND MAINTENANCE PRACTICES
THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

- 1. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
- 2. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE, AND/OR FILTER BARRIER WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE.
- 3. SILT FENCE AND/OR FILTER BARRIER WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
- 4. CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF CRUSHED STONE BED AND FILTER FABRIC CONDITION.
- 5. THE SEDIMENT TRAP WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
- 6. DIVERSION DICES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
- 7. THE CONTRACTOR WILL INSPECT TEMPORARY AND PERMANENT SEEDING AND PLANTING FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

UPDATING REQUIREMENTS

- 1. THE STORMWATER POLLUTION PREVENTION PLANS (SWPPP) CONTAINED HEREIN PROVIDE ONLY THE INITIAL AND MINIMUM REQUIREMENTS, AND PROJECT-SPECIFIC STRUCTURAL BMPs NECESSARY FOR THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MODIFY AND UPDATE THESE PLANS ACCORDING TO THEIR OPERATIONS ON-SITE. IN ADDITION, THE CONTRACTOR SHALL REVIEW THESE DOCUMENTS:
 - a) PRIOR TO FILING FOR THE NPDES NO
 - b) PRIOR TO BEGINNING EACH PHASE OF THE CONSTRUCTION SEQUENCE.
 - c) WITHIN SEVEN CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADDITIONS AND/OR MODIFICATIONS TO BMPs ARE NECESSARY TO CORRECT OBSERVED PROBLEMS.
 - d) WHENEVER A CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENTS.
 - e) WHENEVER DISCHARGES ARE CAUSING WATER QUALITY "EXCEEDANCES" (AN EPA TERM) OR THE BMPs ARE INEFFECTIVE (TO AN EXTENT PRACTICAL) IN MINIMIZING POLLUTANTS IN STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE.

DESIGNED	M O'BRIEN		
DRAWN	M O'BRIEN		
CHECKED	D MYHRE		
DATE	REVISIONS	BY	APPRO

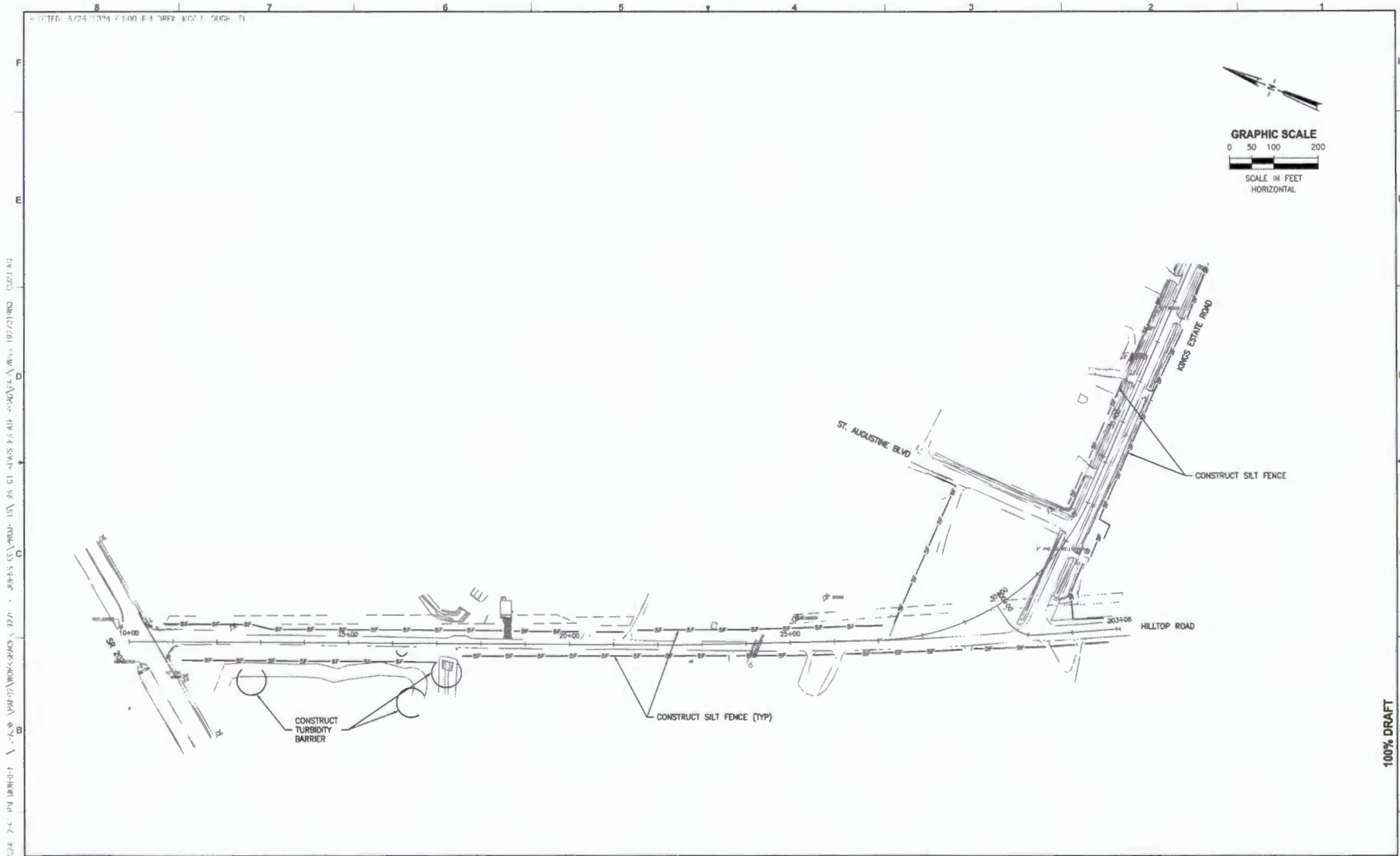
JonesEdmunds
CERTIFICATE OF AUTHORIZATION #181
13145 PROGRESS BOULEVARD SUITE 100 ALACHUA, FL 32315 (904) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

STORMWATER POLLUTION PREVENTION
NOTES

APPROVED BY	PROJECT NO.	DATE
MATTHEW O'BRIEN	19271-198-01	JUN 2024
P: 73893	ISSUE NO.	REV NO.
		C1

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SUP. 2: 7/2/2024 7:41 PM JMB/STP - 548 WVA/02/WONS/SJAC - 12/1 - JONES EDWARDS & PARTNERS, L.P. - ST. JOHNS COUNTY, FLORIDA - 19270-198-01 - 192701980 - C201.M2

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LTR.	DATE	REVISIONS	BY	APPRO.

DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BMYHRE

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
 13845 PROGRESS BOULEVARD SUITE 100 ALACHUA, FL 32015 / (352) 977-5821

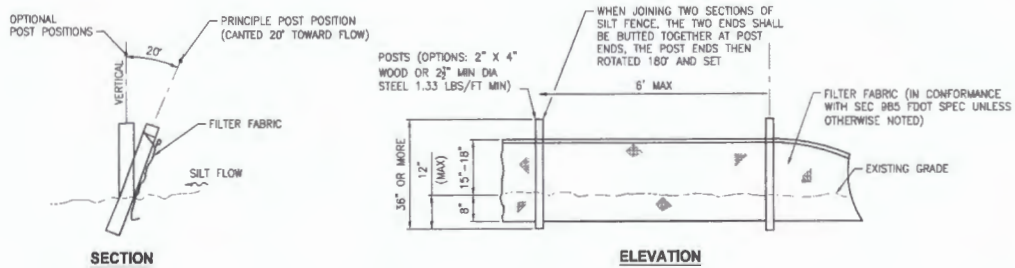
**ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA**

**STORMWATER POLLUTION PREVENTION
 NOTES**

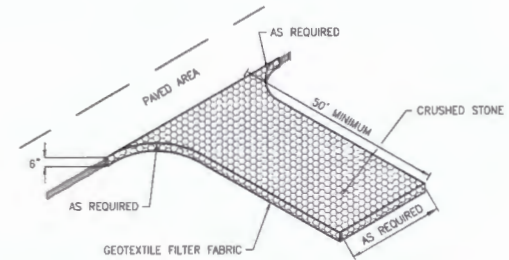
APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
		C2

PROJECT NO:	DATE:
19270-198-01	JUN 2024
INDEX NO:	DWG NO:
	C2

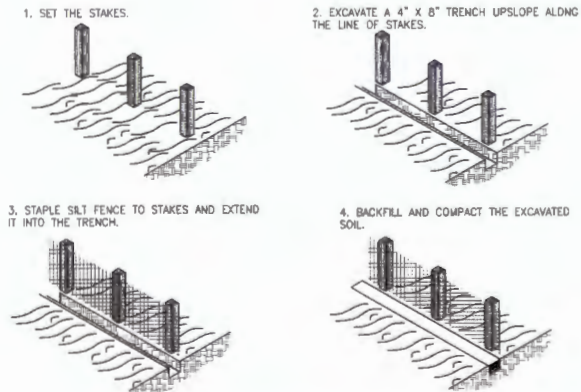
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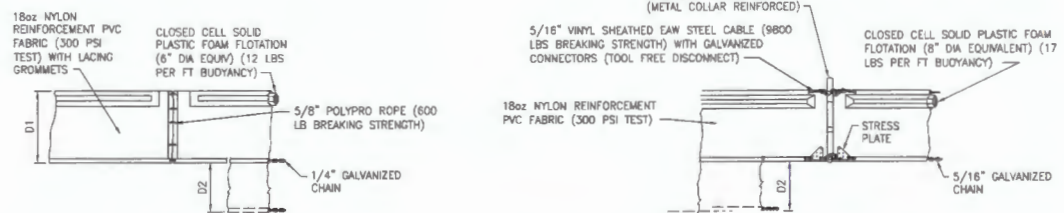
TYPICAL SILT FENCE DETAIL
NTS



STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL
NTS



SILT FENCE CONSTRUCTION DETAIL
NTS



TYPE 1
D1 = 5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 = 5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

TYPE 2
D1 = 5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 = 5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

TYPICAL FLOATING TURBIDITY BARRIER DETAIL
NTS

100% DRAFT

DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	EMYHRE
DATE	
REVISIONS	

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CERTIFICATE OF AUTHORIZATION #1841
13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (952) 877-9821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

STORMWATER POLLUTION PREVENTION NOTES

APPROVED BY	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
	-	C3

8 7 6 5 4 3 2 1

TRAFFIC CONTROL NOTES

TRAFFIC CONTROL GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES AND OPERATIONS SHALL ADHERE TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS INDEX 102 SERIES AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. THE CONTRACTOR SHALL MAINTAIN SAFE AND ADEQUATE INGRESS AND EGRESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES. AT LEAST ONE ENTRANCE TO EACH SHALL REMAIN OPEN AT ALL TIMES. AT LEAST ONE STABILIZED TEN FOOT TRAVEL LANE SHALL BE ACCESSIBLE THROUGHOUT THE CORRIDOR AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH RESIDENCES TO ENSURE MAIL DELIVERY IS MAINTAINED.
3. TRAFFIC DISRUPTIONS WHICH ARE NOT SPECIFICALLY SHOWN IN THIS TRAFFIC CONTROL PLAN BUT ARE NECESSARY TO CONSTRUCT THE PROJECT AND ALL CONTRACTOR-PROPOSED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF THE WORK. THE SUBMITTAL MAY INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA AS APPROPRIATE TO OBTAIN APPROVAL FROM THE ENGINEER.
4. THE CONTRACTOR SHALL FURNISH FOR APPROVAL BY THE ENGINEER (1) THE NAME, (2) QUALIFICATIONS, (3) 24-HOUR TELEPHONE NUMBER AND (4) PROOF OF A 45-MINUTE EMERGENCY RESPONSE OF THEIR WORK SITE TRAFFIC SUPERVISOR FOR THE MAINTENANCE OF THE POSITIONS AND CONDITIONS OF ALL TRAFFIC CONTROL DEVICES. ANY CHANGES IN PERSONNEL OR ARRANGEMENTS FOR RESPONSE SHALL BE SUBMITTED IN ADVANCE OF SUCH CHANGE TO THE ENGINEER FOR APPROVAL.
5. THE CONTRACTOR SHALL PROVIDE SMOOTH AND ADEQUATE TRANSITIONS BETWEEN PAVEMENT SECTIONS OF DIFFERING ELEVATIONS AS DIRECTED BY THE ENGINEER. NO MILLED OR GROOVED PAVEMENT SHALL BE ALLOWED ON LANES THAT ARE OPEN FOR TRAFFIC.
6. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN THE WORK AREA AND ANY OPENED TRAVEL LANE AT ALL TIMES. ALL DROP-OFFS SHALL BE PROTECTED IN ACCORDANCE WITH STANDARD PLANS INDEX 102-500.
7. ALL TEMPORARY PAVEMENT SHALL BE A MINIMUM OF 6" OF LIMESTONE PLUS 2" OF ASPHALT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY PAVEMENT THROUGHOUT CONSTRUCTION.
8. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED.
9. BLACKING OUT OF CONFLICTING PAVEMENT MARKINGS SHALL NOT BE ALLOWED. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED USING WATER-BLASTING TECHNIQUE.
10. THE EXISTING POSTED REGULATORY SPEED LIMIT (35 MPH) SHALL BE REDUCED TO 25 MPH THROUGHOUT CONSTRUCTION.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING ALL ITEMS FOR MAINTENANCE OF TRAFFIC AS DEFINED BY FDOT, MUTCD, AND ST. JOHNS COUNTY THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL FINAL ACCEPTANCE.
12. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACTUATED OPERATION FOR EXISTING TRAFFIC SIGNALS AT THE INTERSECTION OF HILLTOP ROAD AND SR 207. THIS SHALL INCLUDE MAINTAINING AND ADJUSTING ALL VEHICLE DETECTING MECHANISMS TO ACCURATELY DETECT VEHICLES THROUGHOUT ALL TRAFFIC SHIFTS. PLANNED DETECTION DISRUPTIONS SHALL NOT BE ALLOWED. LOOPS OR OTHER DETECTION EQUIPMENT SHALL BE RESTORED TO PROPER OPERATION WITHIN 24 HOURS OF BEING DAMAGED OR DESTROYED. THIS SHALL BE AT THE CONTRACTOR'S EXPENSE.
13. NO LANE CLOSURES SHALL BE ALLOWED DURING "HOLIDAY PERIODS" AS DESIGNATED BY FDOT.
14. NO LANE CLOSURES SHALL BE ALLOWED MONDAY THROUGH FRIDAY BETWEEN 7:00 A.M. AND 9:00 A.M. AND BETWEEN 4:00 P.M. AND 6:00 P.M. THE ENGINEER MAY ADJUST THESE TIMES TO REFLECT ACTUAL FIELD CONDITIONS.
15. NO LANE CLOSURES SHALL BE PERMITTED ON WEEKENDS OR HOLIDAYS.

SEARCHED 1/18/2024 BY 4062/JH/KAB INDEXED 3/19/2024 BY 4062/JH/KAB DRAWN MO'BRIEN CHECKED BMTHRE DESIGNED MO'BRIEN

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DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BMTHRE
DATE	REVISIONS



 CERTIFICATE OF AUTHORIZATION #1841

 19545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32615 / (850) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

TRAFFIC CONTROL GENERAL NOTES

APPROVED BY:	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
	-	CP1



NOTE
 THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICLE ACCESS TO ALL PARCELS AT ALL TIMES. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, TEMPORARY SIDEWALKS AND/OR PAVEMENTS ON BOTH PUBLIC AND PRIVATE PROPERTIES. THE COORDINATION AND APPROVALS WITH/FROM PRIVATE PROPERTY OWNERS FOR TEMPORARY PEDESTRIAN AND VEHICLE ACCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES

1. SHEET NOT TO SCALE.
2. THE TRAFFIC CONTROL SCENARIOS PRESENTED HEREIN ARE GENERIC TRAFFIC CONTROL SCENARIOS THAT MAY, WITH PROPER NOTIFICATION AND COORDINATION, ALLOW FOR THE CLOSURE OF STREETS FOR LIMITED PERIODS OF TIME DURING CONSTRUCTION. THESE PLANS ARE NOT A COMPREHENSIVE REPRESENTATION OF THE WORK, CONTROLS, ACCESS ISSUES, OR PHASES THAT MIGHT BE REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT TO THE COUNTY FOR REVIEW AND APPROVAL THEIR OWN DETAILED CONSTRUCTION PHASING AND TRAFFIC CONTROL PLANS THAT ARE IN ACCORDANCE WITH THE DESIGN INTENT AND THE REQUIREMENTS OF ST. JOHNS COUNTY AND APPLICABLE FDOT DESIGN STANDARDS.
3. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICLE ACCESS TO ALL PARCELS AT ALL TIMES. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, TEMPORARY SIDEWALKS AND/OR PAVEMENTS ON BOTH PUBLIC AND PRIVATE PROPERTIES. THE COORDINATION AND APPROVALS WITH/FROM PRIVATE PROPERTY OWNERS FOR TEMPORARY PEDESTRIAN AND VEHICLE ACCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. VARIABLE MESSAGE BOARD INSTRUCTIONS

- VARIABLE MESSAGE BOARDS LABELED (A) TO DISPLAY THE FOLLOWING MESSAGE 7 DAYS PRIOR TO WORK COMMENCEMENT:
- | PANEL 1 | PANEL 2 |
|-------------------------|----------------|
| HILLTOP CLOSED AT SR207 | DATE THRU DATE |
- VARIABLE MESSAGE BOARDS LABELED (B) TO DISPLAY THE FOLLOWING MESSAGE DURING ROAD CLOSURE AND DETOUR:
- | PANEL 1 | PANEL 2 |
|-------------------------|---------------|
| HILLTOP CLOSED AT SR207 | FOLLOW DETOUR |
- VARIABLE MESSAGE BOARDS LABELED (C) TO DISPLAY THE FOLLOWING MESSAGE 7 DAYS PRIOR TO WORK COMMENCEMENT:
- | PANEL 1 | PANEL 2 |
|--------------------------|----------------|
| KING EST CLOSED AT DOBBS | DATE THRU DATE |
- VARIABLE MESSAGE BOARDS LABELED (D) TO DISPLAY THE FOLLOWING MESSAGE DURING ROAD CLOSURE AND DETOUR:
- | PANEL 1 | PANEL 2 |
|--------------------------|---------------|
| KING EST CLOSED AT DOBBS | FOLLOW DETOUR |
- VARIABLE MESSAGE BOARDS LABELED (E) TO DISPLAY THE FOLLOWING MESSAGE 7 DAYS PRIOR TO WORK COMMENCEMENT:
- | PANEL 1 | PANEL 2 |
|-------------------------|----------------|
| KING EST HILLTOP CLOSED | DATE THRU DATE |



LEGEND

- TYPE II BARRICADE
- WORK AREA
- DETOUR SIGN
- VARIABLE MESSAGE BOARD

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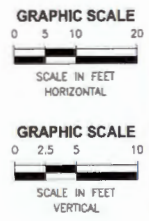
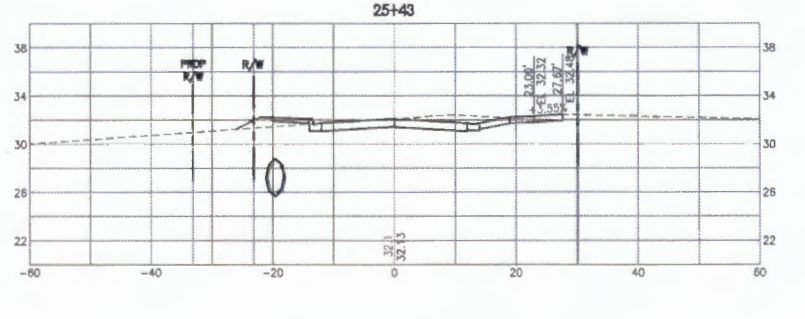
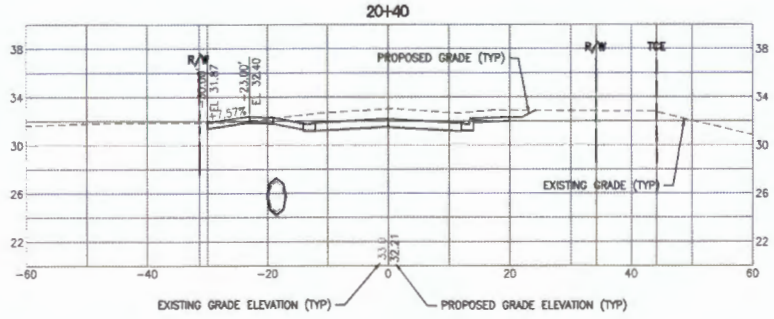
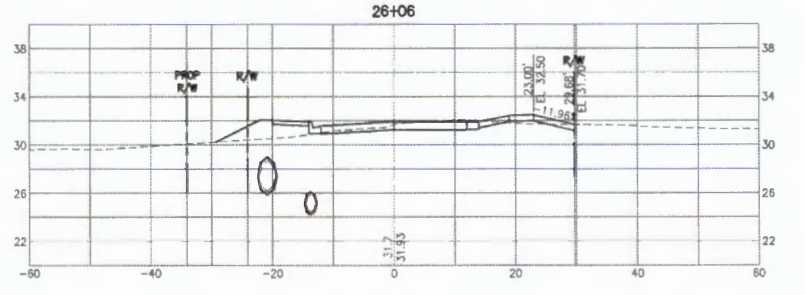
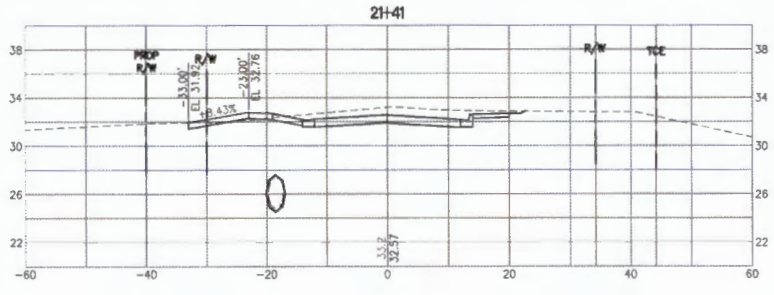
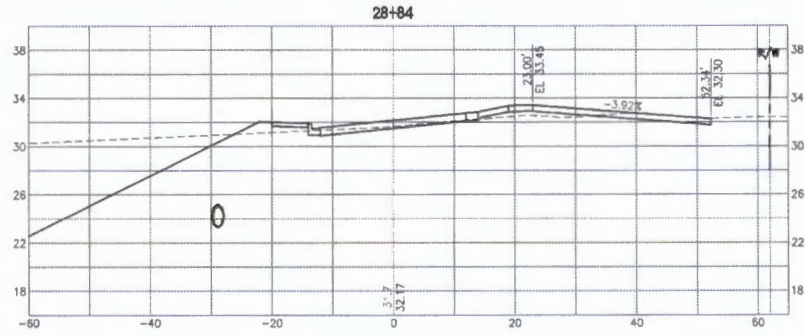
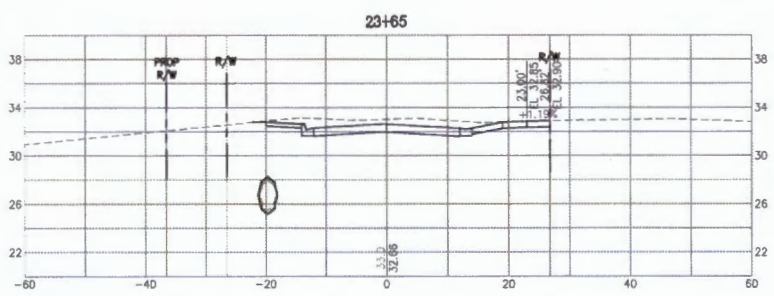
DESIGNED	MO'BRIEN
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JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13445 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 | (904) 377-5821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

TEMPORARY TRAFFIC CONTROL

APPROVED BY	PROJECT NO.	DATE
MATTHEW J. O'BRIEN (P. 735)	19270-195-01	JUN 2024
	ISS. NO.	WG. NO.
	-	CP2



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LTR.	DATE	REVISIONS	BY	APPRO.

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 CERTIFICATE OF AUTHORIZATION #1841
 19499 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32011 / (352) 377-8821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

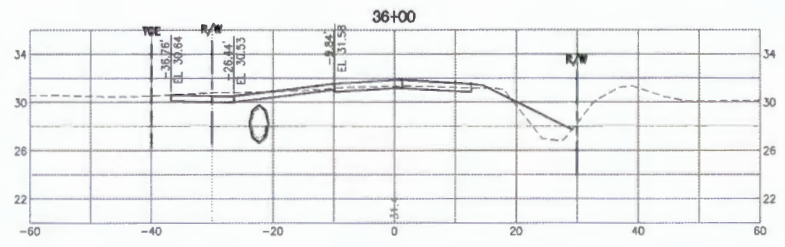
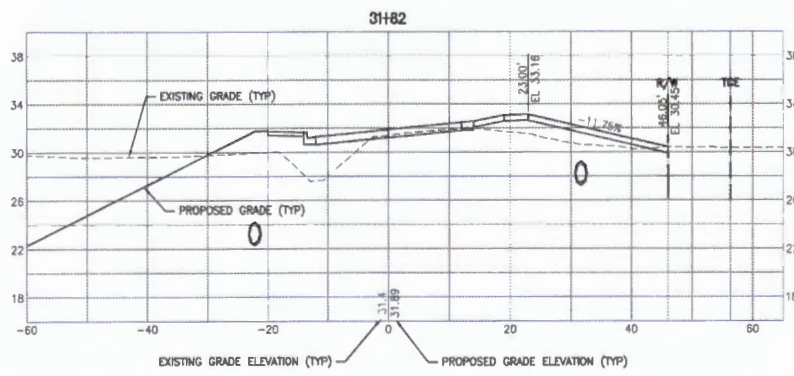
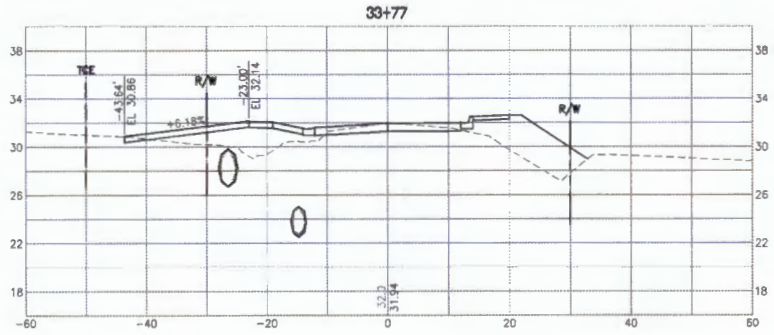
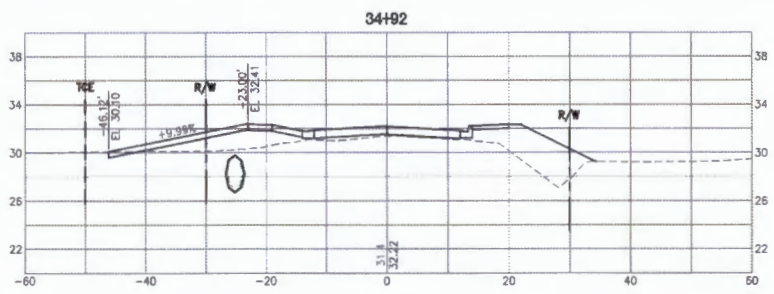
DRIVEWAY PROFILES

APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO.	19270-198-01	DATE:	JUN 2024
INDEX NO.		DWG NO.	DP1

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DATE	
REVISIONS	
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 CERTIFICATE OF AUTHORIZATION #1841
 13141 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32815 / (850) 977-3821

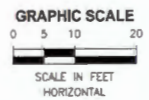
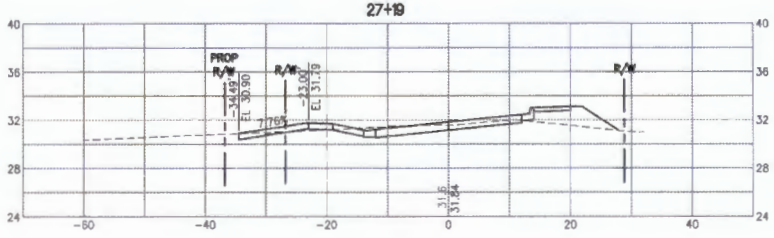
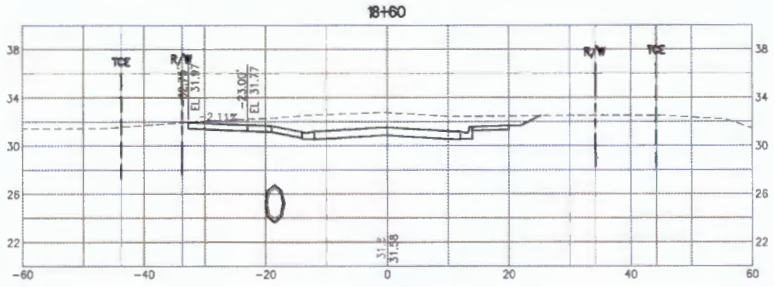
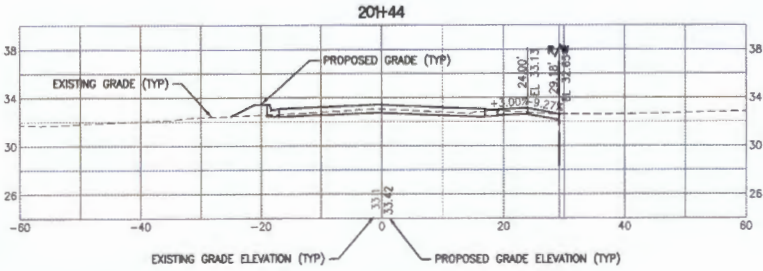
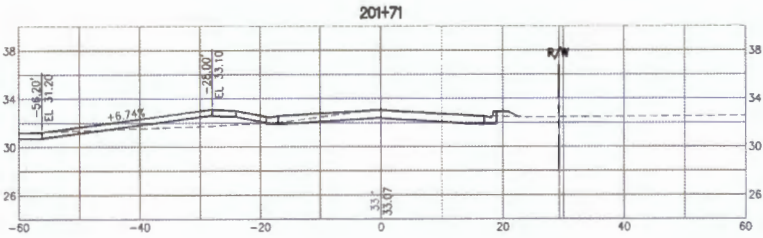
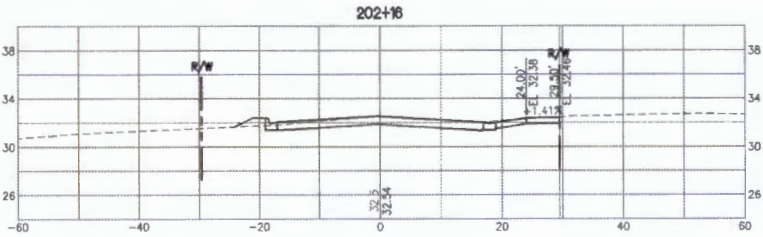
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

DRIVEWAY PROFILES

APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO:	19270-198-01	DATE:	JUN 2024
INDEX NO:		DWG NO:	DP2

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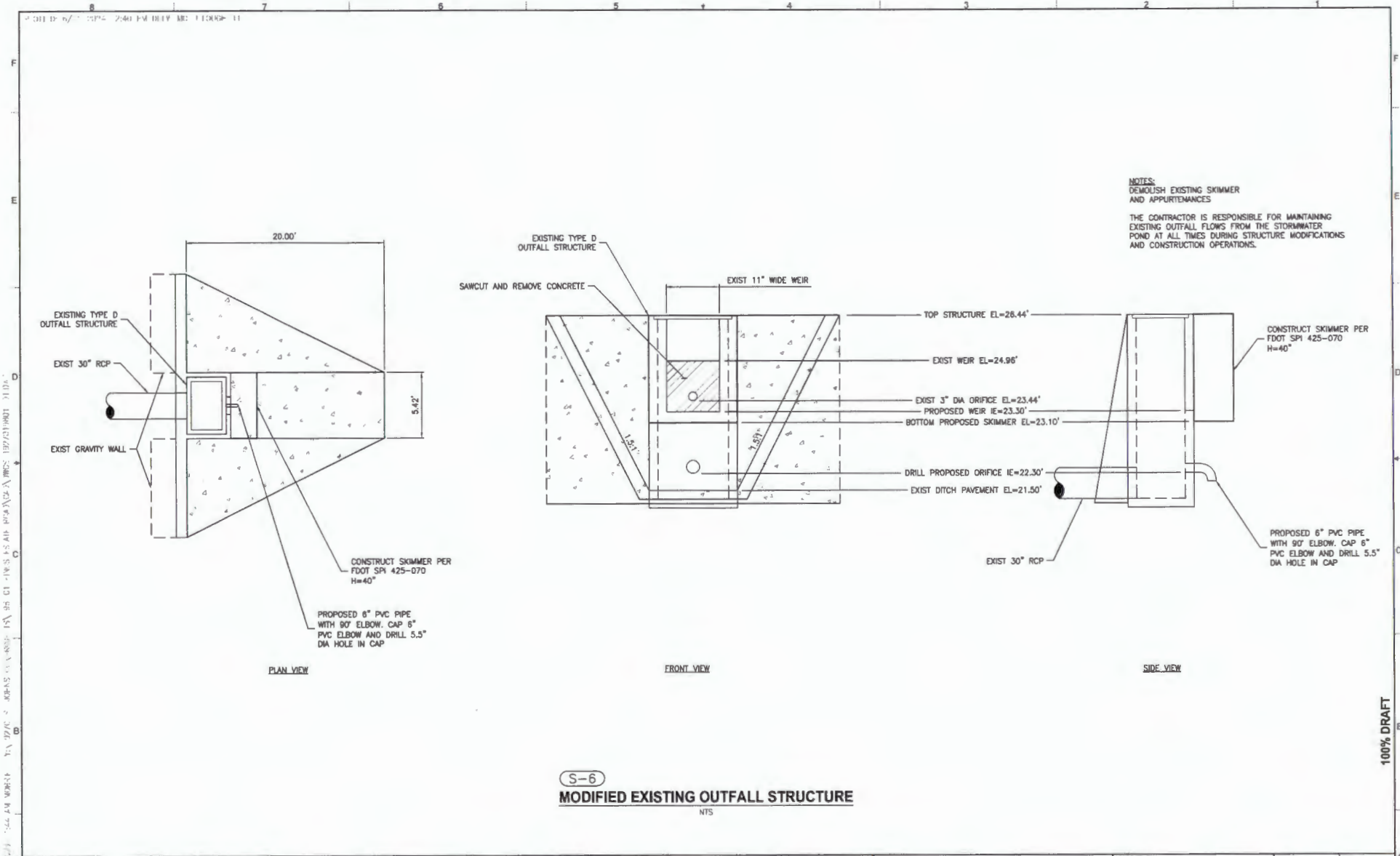
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 13145 PROGRESS BOULEVARD SUITE 100, ALACHUA, FL 32015 / (352) 377-3921

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

DRIVEWAY PROFILES

APPROVED BY
 MATTHEW J. O'BRIEN
 P.E. 73893

PROJECT NO: 19270-198-01	DATE: JUN 2024
WEEK NO:	DWG NO: DP14



NOTES:
DEMOLISH EXISTING SKIMMER
AND APPURTENANCES

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING
EXISTING OUTFALL FLOWS FROM THE STORMWATER
POND AT ALL TIMES DURING STRUCTURE MODIFICATIONS
AND CONSTRUCTION OPERATIONS.

S-6
MODIFIED EXISTING OUTFALL STRUCTURE
NTS

100% DRAFT

DESIGNED	MO'BRIEN
DRAWN	MO'BRIEN
CHECKED	BMYRE
BY	APPROD.
LTR.	DATE
REVISIONS	

JonesEdmunds

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19441 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (904) 977-5821

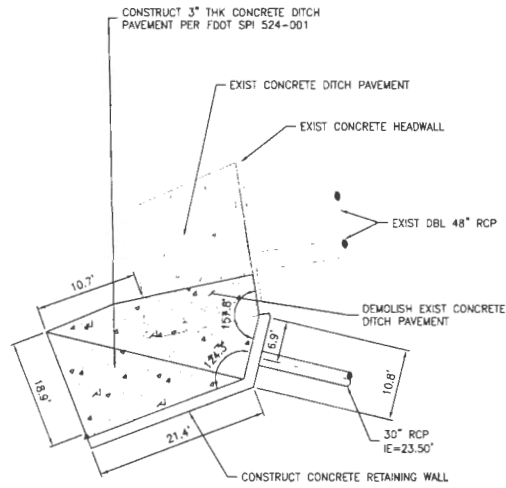
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

DETAILS

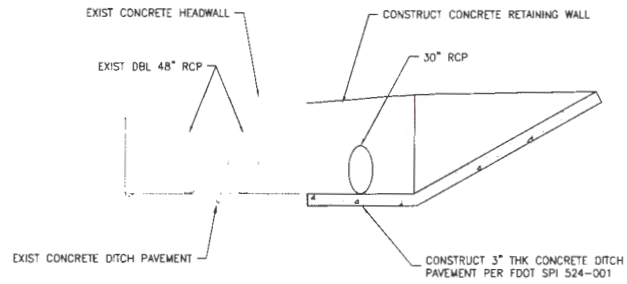
APPROVED BY
MATTHEW J. O'BRIEN
P.E. 73893

PROJECT NO:	19270-198-01	DATE:	JUN 2024
INDEX NO:		DWG NO:	D1

NOTE:
SEE STRUCTURAL DETAILS
ON DWG S1



PLAN VIEW



FRONT VIEW

S-100
CONCRETE RETAINING WALL

NTS

100% DRAFT

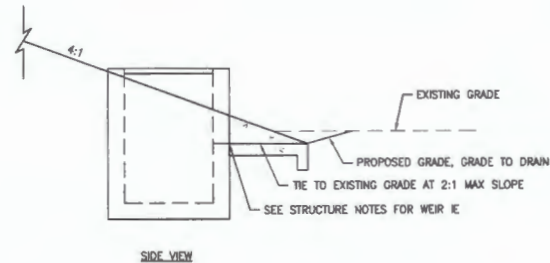
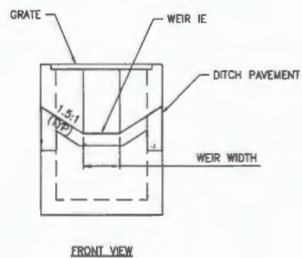
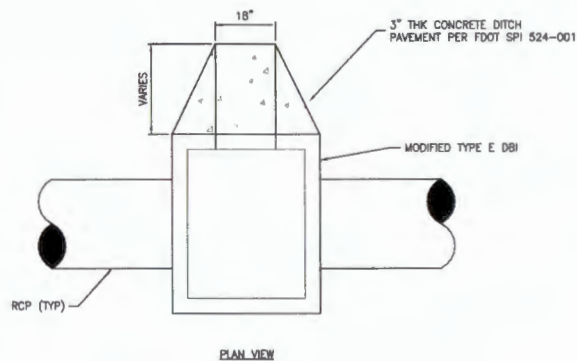
DESIGNED	M O'BRIEN
DRAWN	M O'BRIEN
CHECKED	B MYHRE
DATE	
REVISIONS	
BY	
APPROD	



ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

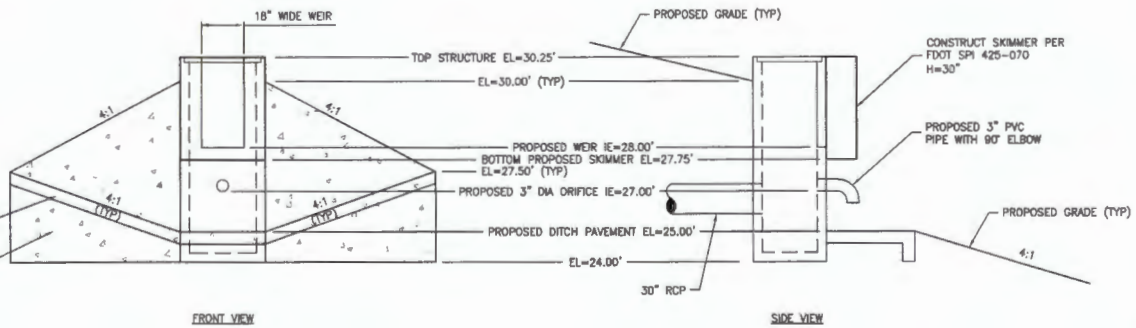
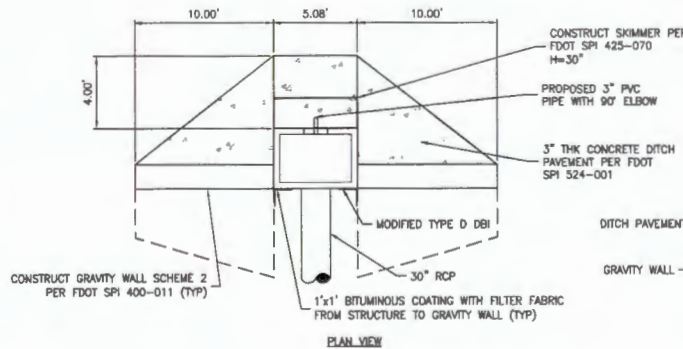
DETAILS

APPROVED BY	PROJECT NO	DATE
MATTHEW O'BRIEN	19270-198-01	JUN 2024
P.E. 73893	INDEX NO	DWG NO
		02



TYPICAL MODIFIED TYPE E DITCH BOTTOM INLET

NTS



S-105 MODIFIED TYPE D DITCH BOTTOM INLET

NTS

19/02/2024 09:42 AM 000000 1A 4770 2 JONES EDWARDS & PARTNERS LLP KINGS ESTATE ROAD AND HILLTOP ROAD ST. JOHNS COUNTY, FLORIDA 32011
 DWG: 19270-196-01

100% DRAFT

TR	DATE	REVISIONS	BY	APPROD

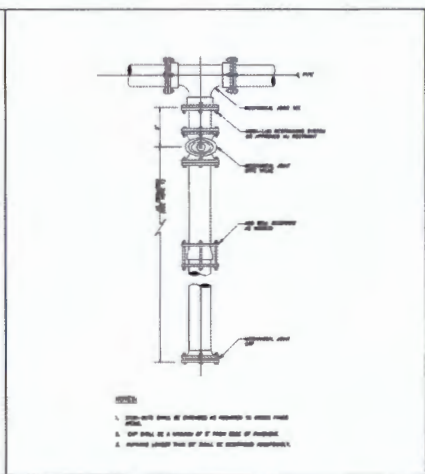
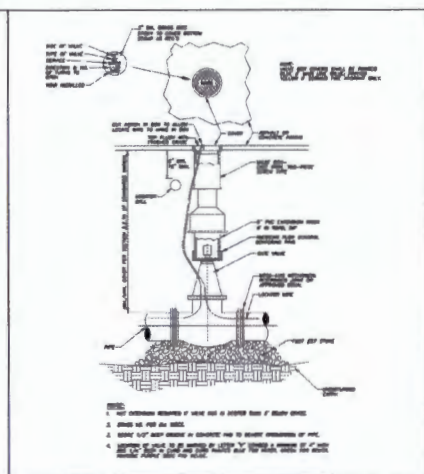
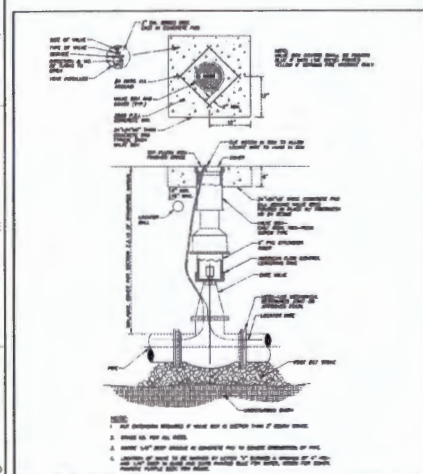
DESIGNED: M O'BRIEN
 DRAWN: M O'BRIEN
 CHECKED: B MYHRE
JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1861
 11545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32011 / (352) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

DETAILS

APPROVED BY:	PROJECT NO:	DATE:
MATTHEW J. O'BRIEN	19270-196-01	JUN 2024
P.E. 73893	INDEX NO:	DWG NO:
		D3

S:\APR\17\170615 - PH 400211000 - 17 1703 ST JOHN'S COUNTY WATER MAIN R.F.S. 198 - 24-A AUG 1972(DRAFT) - 2(1).DWG



RESTRAINT JOINT TABLE
 MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTINGS (FEET)

FITTING SIZE (IN)	ELBOWS (90°)		TEE (180°)	REDUCERS (45°)		VERTICAL TEES (90°)
	MIN.	MAX.		MIN.	MAX.	
4	10	10	10	10	10	10
6	12	12	12	12	12	12
8	14	14	14	14	14	14
10	16	16	16	16	16	16
12	18	18	18	18	18	18
14	20	20	20	20	20	20
16	22	22	22	22	22	22
18	24	24	24	24	24	24
20	26	26	26	26	26	26

RESTRAINT JOINT TABLE
 MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTINGS (FEET)
 TEES (90° BRANCH SIDE ONLY)

FITTING SIZE (IN)	TEES (90° BRANCH SIDE ONLY)	
	MIN.	MAX.
4	10	10
6	12	12
8	14	14
10	16	16
12	18	18
14	20	20
16	22	22
18	24	24
20	26	26

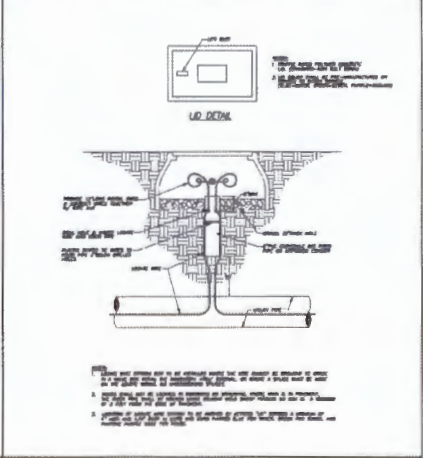
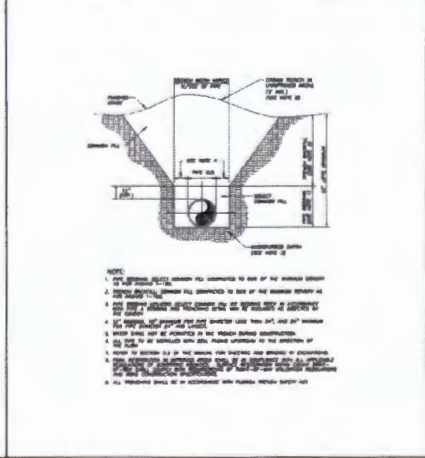
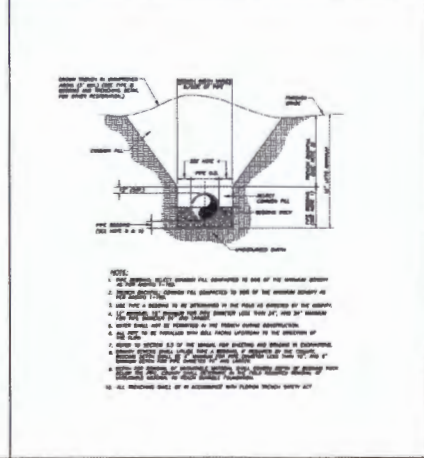
NOTES:
 1. (1) 90° USE EACH SIDE OF FITTING.
 2. (2) LISTS DOWN TO NEW LOWER SIDE OF FITTING. BY 100% USE SMALL SIDE.
 3. RESTRAINED LENGTHS DETERMINED USING SPAN WITH - RESTRAINT LENGTH CALCULATOR L1 WITH THE FOLLOWING ASSUMPTIONS:
 - GRADE MATERIAL = PVC
 - SEW PRESSURE = 150 PSI
 - SAFETY FACTOR = 2.0
 - TRENCH FILL = 3
 - SLOPE OF BURST = 2"
 - 10% FIVE - 16"
 4. IF THE ANY OF THE ASSUMPTIONS / INPUTS ENTERED INTO A JOINT IS NOT TO BE APPLIED TO THE PROJECT CONDITIONS, THE ENGINEER OF RECORD SHALL SUBMIT A REVISED MECHANICAL JOINT TABLE TO BE USED ON THE PROJECT - PROVIDING THE CHANGES OF RECORD CLEARLY. SUBMIT SERIAL AND SERIAL CALCULATIONS AS SATISFY FOR REVIEW AND APPROVAL.

ST. JOHNS COUNTY UTILITY DEPARTMENT
 GATE VALVE & BOX FOR UNIMPROVED LOCATIONS
 SCALE: 1/2" = 1'-0"

ST. JOHNS COUNTY UTILITY DEPARTMENT
 GATE VALVE & BOX FOR PAVED LOCATIONS
 SCALE: 1/2" = 1'-0"

ST. JOHNS COUNTY UTILITY DEPARTMENT
 PLUGGED DEAD END MECHANICAL RESTRAINTS
 SCALE: 1/2" = 1'-0"

ST. JOHNS COUNTY UTILITY DEPARTMENT
 RESTRAINED JOINT TABLE
 SCALE: 1/2" = 1'-0"



ST. JOHNS COUNTY UTILITY DEPARTMENT
 CASING DETAIL
 SCALE: 1/2" = 1'-0"

ST. JOHNS COUNTY UTILITY DEPARTMENT
 TYPE A BEDDING & TRENCHING
 SCALE: 1/2" = 1'-0"

ST. JOHNS COUNTY UTILITY DEPARTMENT
 TYPE B BEDDING & TRENCHING
 SCALE: 1/2" = 1'-0"

ST. JOHNS COUNTY UTILITY DEPARTMENT
 LOCATE WIRE STATION DETAIL
 SCALE: 1/2" = 1'-0"

NO.	DATE	SYMBOL	REVISIONS

DESIGNED BY	DRAWN BY	CHECKED BY

ST. JOHNS COUNTY UTILITY DEPARTMENT
 GENERAL DETAILS

PROJECT NO.	DATE
19270-198-01	JUN 2024
INDEX NO.	DWG. NO.

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13445 PROCESS ROULEAU, SUITE 100, ALACHUA, FL 32015 / (352) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

GENERAL DETAILS

PROJECT NO.	DATE
19270-198-01	JUN 2024
INDEX NO.	DWG. NO.

100% DRAFT

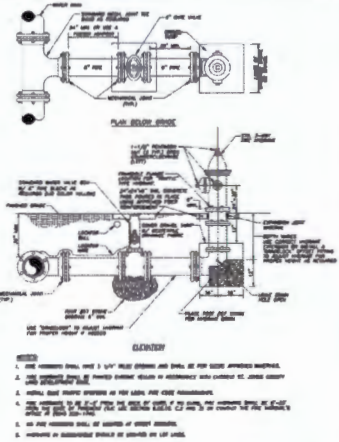
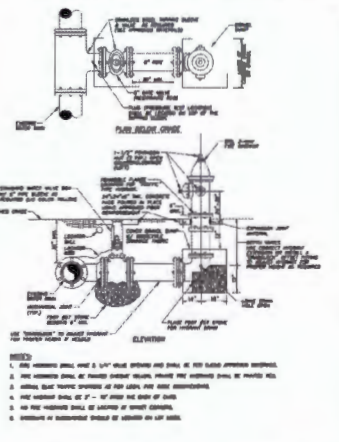
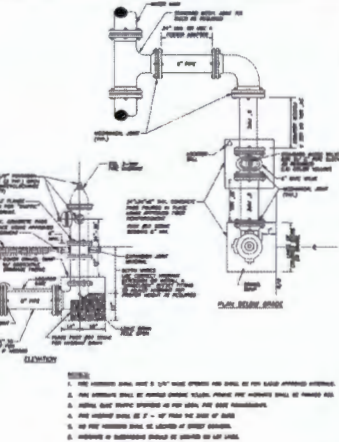
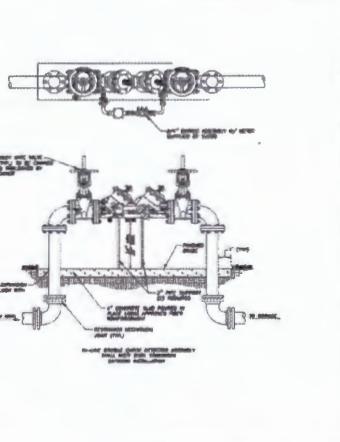
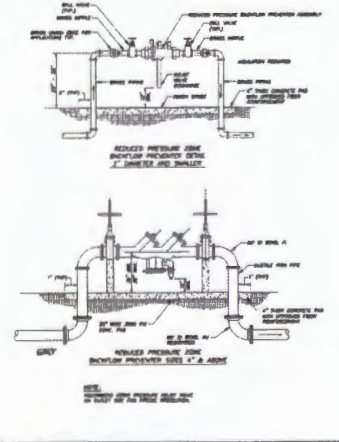
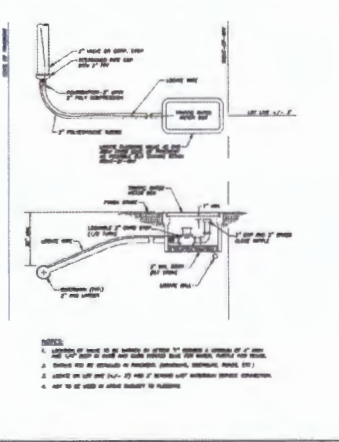
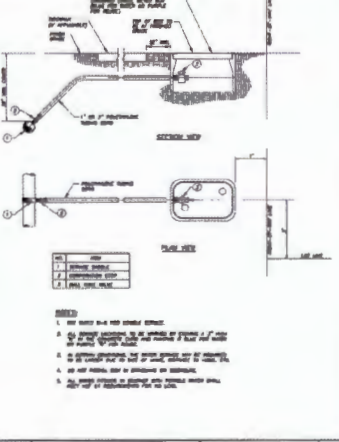
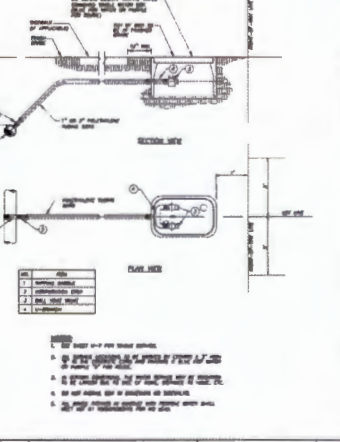


SAILED: 1/11/2024 3:32 PM AMUCALLOUGH - 3/2/2024 ST. JOHNS COUNTY UTILITY DEPARTMENT PROJECT: 19270-01 Dwg. No. G-10

<p>TYPICAL ABOVE GROUND UTILITY MARKERS INSTALLATION</p> <p>NOTE: 1. MARKERS SHALL BE INSTALLED AT ALL CROSSINGS. 2. MARKERS SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. MARKERS SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>	<p>TYPE "A" CROSSING FITTING CROSSING</p> <p>NOTE: 1. THE MARKER SHALL BE INSTALLED AT ALL CROSSINGS. 2. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>	<p>TYPE "A" CROSSING PIPE DEFLECTION CROSSING</p> <p>NOTE: 1. THE MARKER SHALL BE INSTALLED AT ALL CROSSINGS. 2. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>	<p>TYPE "B" CROSSING FITTING CROSSING</p> <p>NOTE: 1. THE MARKER SHALL BE INSTALLED AT ALL CROSSINGS. 2. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>	<p>TYPE "B" CROSSING PIPE DEFLECTION CROSSING</p> <p>NOTE: 1. THE MARKER SHALL BE INSTALLED AT ALL CROSSINGS. 2. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>	<p>TAPPING SADDLE & TAPPING VALVE DETAIL</p> <p>NOTE: 1. THE MARKER SHALL BE INSTALLED AT ALL CROSSINGS. 2. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>	<p>ABOVE GROUND AIR RELEASE VALVE</p> <p>NOTE: 1. THE MARKER SHALL BE INSTALLED AT ALL CROSSINGS. 2. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT. 3. THE MARKER SHALL BE INSTALLED AT ALL POINTS OF DEFLECTION.</p>
<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>TYPICAL ABOVE GROUND UTILITY MARKERS INSTALLATION SHEET G-9</p>	<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>AIR VALVE ASSEMBLY WITH SAMPHOLE SHEET G-10</p>	<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>TYPE "A" PIPE CROSSING WITH FITTINGS SHEET G-11</p>	<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>TYPE "B" PIPE CROSSING WITH FITTINGS SHEET G-12</p>	<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>TYPE "B" PIPE CROSSING WITH FITTINGS SHEET G-13</p>	<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>TAPPING SADDLE & TAPPING VALVE DETAIL SHEET G-14</p>	<p>ST. JOHNS COUNTY UTILITY DEPARTMENT</p> <p>ABOVE GROUND AIR RELEASE VALVE SHEET G-15</p>

<p>NO. BY DATE SYMBOL REVISIONS</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p>	<p>JonesEdmunds</p> <p>CERTIFICATE OF AUTHORIZATION #1841 13545 PROGRESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (352) 977-5821</p>	<p>ROADWAY AND INFRASTRUCTURE IMPROVEMENTS</p> <p>KINGS ESTATE ROAD AND HILLTOP ROAD</p> <p>ST. JOHNS COUNTY, FLORIDA</p>	<p>GENERAL DETAILS</p>	<p>PROJECT NO: 19270-198-01 DATE: JUN 2024</p> <p>DWG NO: _____ SHEET NO: G-10</p>
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100% DRAFT

SAME: 2/1 1:44:24.2-32 PM AMCC/LOUGH-1 3/20/21 ST. JOHNS COUNTY UTILS DEPT. 1987-17. KISSISSA & NOLA CADRINGS (REVISIONS) 1/20/24

 <p>MECHANICAL JOINT TEE</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>FIRE HYDRANT INSTALLATION USING TAPPING SLEEVE AND VALVE</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>LIMITED SPACE FIRE HYDRANT INSTALLATION</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>DOUBLE CHECK DETECTOR ASSEMBLY</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>
 <p>REDUCED PRESSURE ZONE ASSEMBLY</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>2" FLUSHING VALVE BELOW GRADE TYPE</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>WATER SERVICES SINGLE SERVICE</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>WATER SERVICES DOUBLE SERVICE</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>
 <p>TYPICAL REDUCED PRESSURE ZONE ASSEMBLY</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	 <p>WATER SERVICES DOUBLE SERVICE</p> <p>NOTE: 1. THE HYDRANT SHALL HAVE A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 2. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 3. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 4. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 5. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL. 6. THE HYDRANT SHALL BE PROVIDED WITH A 1/2" NPT BRASS AND SHALL BE FOR BRASS APPROVED MATERIAL.</p>	<p>WATER DETAILS</p>	
<p>NO. BY DATE REVISIONS</p>		<p>DESIGNER</p>	
<p>DESIGNED</p>		<p>FLORIDA PROFESSIONAL NO.</p>	
<p>DOWN</p>		<p>DATE</p>	
<p>CHECKED</p>		<p>NO. SHEETS</p>	
<p>DATE</p>		<p>INDEX NO.</p>	
<p>REVISIONS</p>		<p>BY</p>	
<p>BY</p>		<p>DATE</p>	

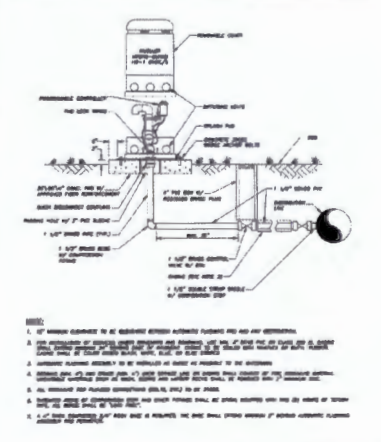
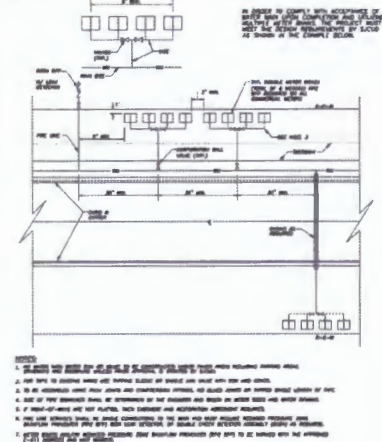
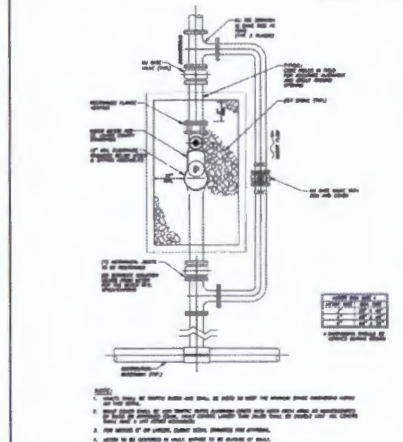
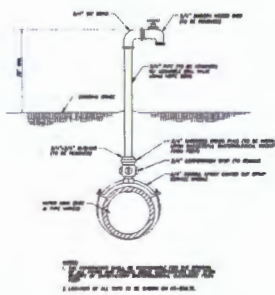
JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13545 PROCESS BOULEVARD, SUITE 100, LAACHA, FL 32815 / (952) 377-1821

ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
 KINGS ESTATE ROAD AND HILLTOP ROAD
 ST. JOHNS COUNTY, FLORIDA

GENERAL DETAILS

PROJECT NO. 19270-198-01	DATE JUN 2024
INDEX NO.	DWG NO. CD4

100% DRAFT

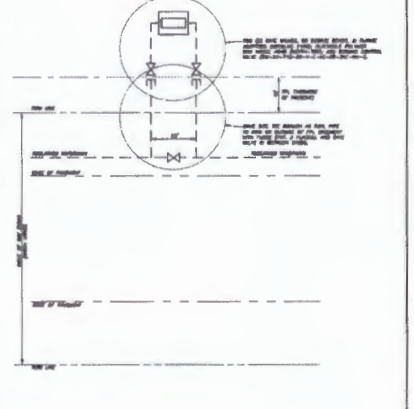
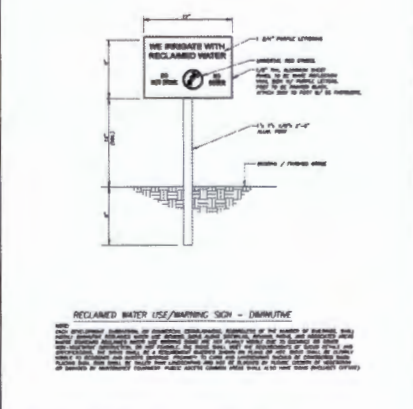
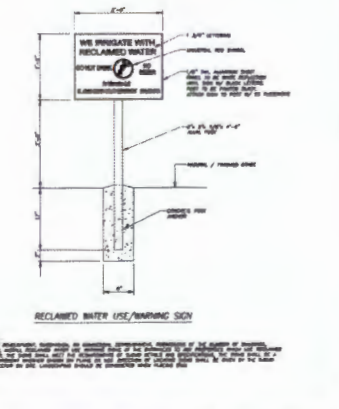


PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	3/4" TEMPORARY SAMPLE TAP ALONG PIPE	SCALE: N/A	DATE: W-9
DESIGNED BY				
CHECKED BY				

PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	TYPICAL LARGE WATER METER INSTALLATION	SCALE: N/A	DATE: W-10
DESIGNED BY				
CHECKED BY				

PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	TYPICAL MULTIPLE WATER METER BANK INSTALLATION	SCALE: N/A	DATE: W-11
DESIGNED BY				
CHECKED BY				

PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	AUTOMATIC FLUSHING ASSEMBLY (TYPE A)	SCALE: N/A	DATE: W-12
DESIGNED BY				
CHECKED BY				



PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	RECLAIMED WATER USE/WARNING SIGN	SCALE: N/A	DATE: W-1
DESIGNED BY				
CHECKED BY				

PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	RECLAIMED WATER USE/WARNING SIGN - DILUTIVE	SCALE: N/A	DATE: W-2
DESIGNED BY				
CHECKED BY				

PROJECT	ST. JOHNS COUNTY UTILITY DEPARTMENT	RECLAIMED WATER CONTROL VALVE INSTALLATION	SCALE: N/A	DATE: W-3
DESIGNED BY				
CHECKED BY				

NO.	DATE	SYMBOL	REVISIONS
1			
2			
3			

DESIGNED BY	
DRAWN	
CHECKED	

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 13345 PROCESS BOULEVARD, SUITE 100, ALACHUA, FL 32015 / (904) 377-5821
ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

ST. JOHNS COUNTY UTILITY DEPARTMENT
WATER DETAILS

PROJECT NO:	19270-198-01	DATE:	JUN 2024
INDEX NO:		DWG NO:	CD5

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PLOTTED: 6/26/2023 12:33 PM JOSHUA GALLER

NOTES:
CAST-IN-PLACE CONCRETE

- THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:
ACI 308 (CONCRETE) ACI 304 (PLACING)
ACI 308 (WETTER CONCRETING) ACI 315 (DETAILING)
ACI 308 (HOT WEATHER CONCRETING) ACI 347 (FORMWORK)
ACI 211.1 (AIR PROPERTIES) ACI 301 (SPECIFICATIONS)
- ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), WITH MIXES DESIGNED TO MEET THE FOLLOWING CRITERIA FOR USE IN VARIOUS ELEMENTS OF THE STRUCTURE AS FOLLOWS:
SLUMP RANGE BEFORE CASTING
COMPRESSIVE STRENGTH FCS MAX. SIZE OF AGGREGATE MWC SUPERPLASTICIZER RATIO
- CONCRETE SLUMP IS TAKEN AT POINT OF PLACEMENT. SUPERPLASTICIZERS, WATER REDUCING AND AIR ENTRAINING AGENTS SHALL BE INCLUDED IN DESIGN MIXES.
- A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE GRADATION AND WATER-CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OR AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PRIOR TO CASTING ANY CONCRETE MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING SHALL BE SPECIFICALLY DESIGNED FOR PUMPING.

CONCRETE REINFORCEMENT

- REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:
DEFORMED BARS ASTM A615, GRADE 60
WELDED WIRE REINFORCEMENT ASTM A185
- DETAIL REINFORCEMENT BASED ON THE PROJECT REQUIREMENTS, ACI 318 AND ACI 315. UNLESS NOTED OTHERWISE.
- WHERE A 90-DEG, 135-DEG OR 180-DEG HOOK IS GRAPHICALLY INDICATED, PROVIDE CORRESPONDING ACI STANDARD HOOKS UNLESS OTHERWISE NOTED.
- DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCEMENT UNLESS OTHERWISE NOTED.
- WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER PRIOR TO DRILLING.
- REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE IN FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.

CONCRETE REINFORCEMENT JOINTS

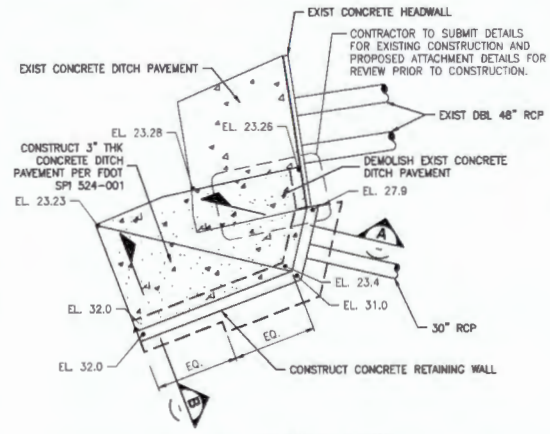
- PROVIDE 3/4 INCH CHAMFER STRIPS ON ALL EXPOSED CORNERS OF WALLS AND SLABS.
- REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE, LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.
- PREPARE AND PATCH FORM SNAP-TIE HOLES AND ALTERNATE FORM-THROUGH BOLT HOLE BY DRY-PACKING WITH APPROVED NON-SHRINK GROUT.
- REINFORCEMENT SHALL HAVE CONCRETE PROTECTION (CLEAR COVER) PER ACI 318 UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- LAP REINFORCEMENT AS SPECIFICALLY DETAILED ON THE DRAWINGS. SEE LAP SPLICE AND EMBEDMENT SCHEDULE.
- UNLESS OTHERWISE NOTED ALL LAP SPLICES ARE TO BE TENSION LAP SPLICES PER LAP SPLICE AND EMBEDMENT SCHEDULE.
- REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER):
FORMED SURFACES IN CONTACT WITH SOIL OR WATER, OR EXPOSED TO WEATHER 3"
OTHER SURFACES 2"

FOUNDATIONS

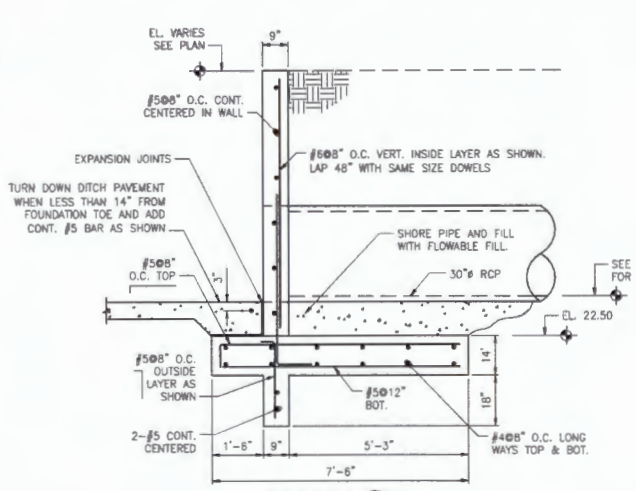
- BEARING SOILS SHALL BE FREE OF ORGANIC MATERIAL AND MEET THE 2020 FBC REQUIREMENTS TO PROVIDE A MINIMUM OF 2000 PSF SOIL BEARING DESIGN PRESSURES. PER TABLE 1806.2, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE SOIL CONDITIONS ARE SUITABLE FOR THESE ASSUMPTIONS. IT IS RECOMMENDED THAT PRIOR TO CONSTRUCTION OF THE FOUNDATION THAT A GEOTECHNICAL ENGINEER TO VERIFY THE BEARING PRESSURE AND SUBSURFACE CONDITIONS.
- REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION, WHERE NECESSARY, SHEET AND SHORE THE EXCAVATION WITH ALL REQUIRED TIEBACKS AND BRACING AS DETERMINED BY CONTRACTOR'S STRUCTURAL ENGINEER.
- STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIA. ALL PROOFROLL AREAS UNDER STRUCTURES WITH TWO COMPLETE COVERSAGES OF A LOADED DUMP-TRUCK OR SCRAPER, REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE GEOTECHNICAL REPORT.
- DENSITY CONSTRUCTION AREAS AND A MINIMUM OF 10'-0" OUTSIDE THE PERIMETER OF STRUCTURES USING A VIBRATORY ROLLER (SEE SPECIFICATIONS).

MINIMUM REQUIRED LAP SPLICES FOR REINFORCING ROD (GRADE 60 STEEL)		
SIZE	LAP/SPICE	
	OTHER BARS	TOP BARS*
No. 4	24"	24"
No. 5	30"	30"
No. 6	36"	36"
No. 7	42"	42"

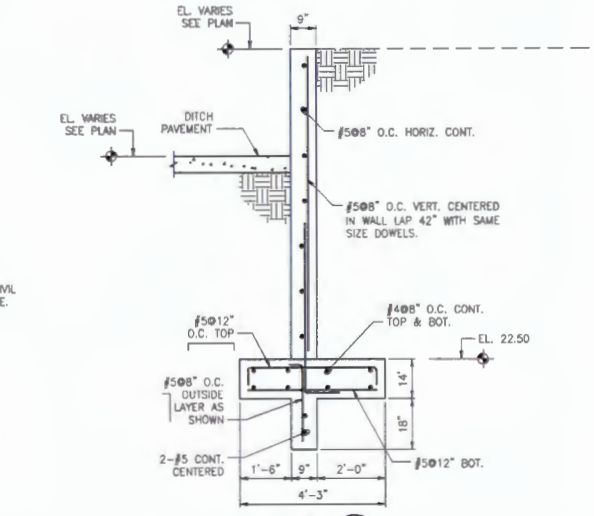
*TOP BARS ARE ANY HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE FOUR. HORIZONTAL WALL BARS SHALL BE CONSIDERED TOP BARS.



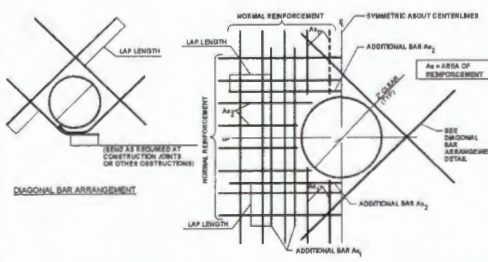
PARTIAL PLAN OF NEW CONCRETE RETAINING WALL & DITCH PAVEMENT
N.T.S.



SECTION A
N.T.S.



SECTION B
N.T.S.



ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS
SCALE: NOT TO SCALE

- NOTES:**
- THIS DETAIL TO BE USED AT ALL CIRCULAR OPENINGS EXCEPT WHEN OTHER DETAILING IS INDICATED ON THE DRAWINGS.
 - CUT TYPICAL REINFORCEMENT AT OPENING.
 - CUT TYPICAL REINFORCEMENT AT OPENING:
A. ALL BARS ARE TO BE SHOWN ON TOTAL CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
 - UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCEMENT BAR CUT.
 - INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO PROVIDE A MINIMUM CLEARANCE OF 1" BETWEEN BARS.
 - WHERE A BAR OR ENTER SETTING WALL CONTACTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE OF THE OPENING MAY BE OMITTED.
 - WHEN THE LAP LENGTH OF THE ADDITIONAL BARS CANNOT BE ACHIEVED DUE TO AN OBSTRUCTION, THE BARS SHALL BE LAPPED WITHIN ONE WALL THICKNESS OF THE OPENING. THE LAP LENGTH SHALL BE INCLUDED IN THE ADJACENT WALL OR SLAB TO LAP WITH THE ADDITIONAL BARS.



This form has been digitally signed by **Monrad R Thue** on **2023.06.27** at **12:33:33 PM**.
To the extent permitted by law, the signatory and the signatory's signature must be verified on any electronic copies.

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CHECKED	JNEWCOMBE
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ROADWAY AND INFRASTRUCTURE IMPROVEMENTS
KINGS ESTATE ROAD AND HILLTOP ROAD
ST. JOHNS COUNTY, FLORIDA

S-100 CONCRETE RETAINING WALL
PLAN AND DETAILS

PROJECT NO:	19270-198-01	DATE:	JUNE 2023
INDEX NO:		DWG NO:	S1

100% SUBMITTAL