

**CONSTRUCTION SERVICES AGREEMENT FOR LAKE MARY BOULEVARD
AT COUNTRY CLUB ROAD INTERSECTION IMPROVEMENTS PROJECT
(CC-5761-24/MAG)**

THIS AGREEMENT is dated as of the ____ day of _____ 202____, by and between **CENTRAL FLORIDA ENVIRONMENTAL CORPORATION**, duly authorized to conduct business in the State of Florida, whose address is 910 Belle Avenue, Suite.#1040, Winter Springs, Florida 32708, in this Agreement referred to as “**CONTRACTOR**”, and **SEMINOLE COUNTY**, a charter county and political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 E. 1st Street, Sanford, Florida 32771, in this Agreement referred to as “**COUNTY**”.

COUNTY and CONTRACTOR, in consideration of the mutual covenants set forth in this Agreement, agree as follows:

Section 1. Work. CONTRACTOR shall complete all work as specified or indicated in the Contract Documents, including the Scope of Services, attached to this Agreement as Exhibit A, and the solicitation package, all addenda to this package, and CONTRACTOR’s submission in response to this solicitation. The work is generally described as the Lake Mary Boulevard at Country Club Road Intersection Improvements Project.

Section 2. Engineer.

(a) (a) The Engineer of Record (“**ENGINEER**”) as named in the Contract Documents is Metric Engineering, Inc., whose address is 525 Technology Park, Suite #153, Lake Mary, Florida 32746.

(b) COUNTY’s contracted consultant for construction, engineering, and inspection (“**CEI**”) services as named in the Contract Documents is Seminole County Public Works Department, whose address is 200 West County Home Road, Sanford, Florida 32773.

Section 3. Contract Time.

(a) All provisions regarding contract time are essential to the performance of this Agreement.

(b) The work must be substantially completed as described in subsection 14.13 of the General Conditions within one hundred and eighty-five (185) calendar days after the date when the contract time begins to run as provided in subsection 2.2 of the General Conditions. The work must be finally completed and ready for final payment in accordance with subsection 14.9 of the General Conditions within thirty (30) calendar days after the actual date of substantial completion.

(c) The parties acknowledge that the contract time provided in this Section includes consideration of adverse weather conditions common to Central Florida, including the possibility of hurricanes and tropical storms.

(d) The contract time provided for in this Section includes thirty (30) days allocated specifically to CONTRACTOR's responsibility for utility coordination or relocation of utilities at or adjacent to the Project site. CONTRACTOR shall depict this thirty (30) days as float time not impacting controlling work items on CONTRACTOR's critical path scheduling. No contract time extensions will be considered related to utility coordination matters, including, but not limited to utility relocations and conflicts, unless the utility related time impacts exceed thirty (30) days impact on controlling items of work in accordance with the Project schedule.

(e) In the event that the work requires phased construction, then multiple points of substantial completion may be established in the Supplementary Conditions.

Section 4. Contract Price.

(a) COUNTY shall pay CONTRACTOR for performance of the work in accordance with the Contract Documents on the basis of the total bid (original contract price).

CONTRACTOR's total compensation is TWO MILLION NINE HUNDRED FIFTEEN THOUSAND TWO HUNDRED NINETY AND 75/100 DOLLARS (\$2,915,290.75), subject only to increases or decreases made in strict conformance with the Contract Documents.

(b) CONTRACTOR shall accept the contract price as full compensation: for performance of all work and providing all materials embraced in the Contract Documents; for all loss or damage arising out of performance of the work and from the action of the elements, or from any unforeseen or unknown difficulties or obstructions which may arise or be encountered in the prosecution of the work until the final acceptance; and for all risks of every description connected with the work.

(c) CONTRACTOR acknowledges that CONTRACTOR has studied, considered, and included in its total bid (original contract price) all costs of any nature relating to: (1) performance of the work under Central Florida weather conditions; (2) applicable law, licensing, and permitting requirements; (3) the Project site conditions, including, but not limited to subsurface site conditions; and (4) the terms and conditions of the Contract Documents, including, but not limited to the indemnification and no damage for delay provisions of the Contract Documents.

(d) CONTRACTOR acknowledges that performance of the work will involve significant work adjacent to, above, and in close proximity to underground facilities, including utilities which will require the support of active utilities as well as the scheduling and sequencing of utility installations and relocations (temporary and permanent) by CONTRACTOR.

(1) In addition to the acknowledgments previously made, CONTRACTOR acknowledges that its total bid (original contract price) specifically considered and relied upon CONTRACTOR's own study of underground facilities, utilities in their present, relocated

(temporary and permanent), and proposed locations, and conflicts relating to utilities and underground facilities.

(2) CONTRACTOR acknowledges that its total bid (original contract price) considered and included all of its costs relating to the responsibilities to coordinate and sequence the work of CONTRACTOR with the work of COUNTY, the work of other utility contractors, and the work of others at the Project site.

Section 5. Payment Procedures.

(a) Application for Payment. CONTRACTOR shall submit Applications for Payment in accordance with Section 14 of the General Conditions. Applications for Payment will be processed by ENGINEER as provided for in the General Conditions.

(b) Progress Payments. COUNTY shall make progress payments on the basis of CONTRACTOR's Applications for Payment as recommended by ENGINEER and in accordance with Section 14 of the General Conditions.

(c) Final Payment. Upon Final Completion and acceptance of the work in accordance with subsection 14.9.1 of the General Conditions, COUNTY shall pay the remainder of the contract price as provided in that subsection.

Section 6. Additional Retainage for Failure to Maintain Progress on the Work.

(a) Retainage under the Contract Documents is held as collateral security to secure completion of the work.

(b) In the event that CONTRACTOR fails to physically mobilize to the work site as required by Section 6.19 of the General Conditions, COUNTY may withhold additional retainage to secure completion of the work in an amount equal to the product of the number of days after the 31st day following the date of commencement of contract time and the liquidated damage amount

for substantial completion set forth in Section 9 of this Agreement. The additional retainage will be withheld from the initial and each subsequent progress payment. The additional retainage held under this subsection will be released to CONTRACTOR in the next progress payment following ENGINEER's approval of a supplementary progress schedule demonstrating that the requisite progress will be regained and maintained as required by Section 6.19.2 of the General Conditions.

(c) If CONTRACTOR is behind schedule and it is anticipated by COUNTY that the work will not be completed within the contract time, COUNTY may withhold additional retainage in anticipation of liquidated damages equal to the product of the number of days after the scheduled contract time (substantial completion or final completion) and the amount of liquidated damages set forth in Section 9 of this Agreement. The additional retainage under this subsection may, at COUNTY's discretion, be withheld from subsequent progress payments. Any additional retainage held under this subsection will be released to CONTRACTOR in the next progress payment following ENGINEER's approval of a supplemental progress schedule demonstrating that the requisite progress will be regained and maintained as required by Section 6.19.2 of the General Conditions.

Section 7. CONTRACTOR's Representations. In order to induce COUNTY to enter into this Agreement, CONTRACTOR makes the following representations:

(a) CONTRACTOR has familiarized itself with the nature and extent of the Contract Documents, work, locality, weather, utility locations, all local conditions, Chapter 220, Part 1, Purchasing Code, Seminole County Code, and Federal, State, and local laws, ordinances, rules, policies, and regulations that in any manner may affect cost, progress, or performance of the work.

(b) CONTRACTOR has studied carefully and considered in its bid all reports of investigations and tests of subsurface and physical conditions of the site affecting cost, progress, scheduling, or performance of the work.

(c) CONTRACTOR has studied carefully and considered in its bid the Plans and Specifications, performed necessary observations and examinations, and studied the physical conditions at the site related to underground facilities, utility installations, conflicts, relocations (temporary and permanent), and all other underground facilities and utility related conditions of the work and site that may affect cost, progress, scheduling, or any aspect of performance of the work, and that its bid reflects all such conditions. CONTRACTOR, by submitting its bid and executing this Agreement, acknowledges the constructability of the work under the Plans and Specifications. CONTRACTOR, by its study, excludes and releases COUNTY from any implied warranties, including, but not limited to the Spearin Doctrine, and acknowledges that the Plans and Specifications are adequate to perform the work.

(d) CONTRACTOR has made or caused to be made examinations, investigations, tests, and studies as it deems necessary for the performance of the work at the contract price, within the contract time, and in accordance with the other terms and conditions of the Contract Documents. CONTRACTOR does not and will not require any additional examinations, investigations, tests, reports, or similar data for such purposes.

(e) CONTRACTOR has correlated the results of all such observations, examinations, investigations, tests, reports, and data with the terms and conditions of the Contract Documents.

(f) CONTRACTOR has provided COUNTY written notice of all conflicts, errors, or discrepancies that CONTRACTOR has discovered in the Contract Documents. CONTRACTOR hereby accepts COUNTY's written resolution of all such conflicts, errors, or discrepancies.

(g) CONTRACTOR declares and agrees that the approval or acceptance of any part of the work or material by COUNTY, ENGINEER, or any agent relating to compliance with the Contract Documents will not operate as a waiver by COUNTY of strict compliance with the terms and conditions of the Contract Documents.

(h) CONTRACTOR's resident Superintendent at the work site will be **Richard Heath**. CONTRACTOR shall use only this person as Superintendent, unless otherwise approved by COUNTY's Project Manager after following the procedure indicated in the General Conditions.

(i) CONTRACTOR has studied carefully and considered all permit requirements related to performance of the work. CONTRACTOR declares and agrees that all costs related to performing the work in compliance with the requirements of all permits at the contract price are included in the contract price. CONTRACTOR agrees that it will be solely responsible for payment of all fines and penalties of any nature assessed to CONTRACTOR, COUNTY, or both, by any governmental entity, district, or authority, or other jurisdictional entity relating to all permits required for performance of the work.

(j) CONTRACTOR acknowledges that the performance of the work under the Contract Documents fulfills a COUNTY, CONTRACTOR, and public purpose. To that end, CONTRACTOR shall respond to citizen complaints related to alleged damage caused by CONTRACTOR's performance of the work within ten (10) days of receipt of the complaint from any citizen, ENGINEER, or COUNTY. CONTRACTOR shall respond separately to each complaint. When a complaint is brought to CONTRACTOR by a citizen, CONTRACTOR shall report the citizen, the street address, and a summary of the complaint and any action taken in response. Responses and action taken by CONTRACTOR must specifically identify the problem and specific actions taken. Generic statements such as "addressed the problem" are unacceptable.

If CONTRACTOR fails to respond within ten (10) days, COUNTY may take corrective action and deduct the actual costs of corrective action from subsequent progress payments or the retainage.

(k) CONTRACTOR acknowledges that COUNTY-owned property obtained for performance of the work within the project limits includes temporary construction easements. In the event that CONTRACTOR fails to perform the work within the contract time, then CONTRACTOR shall be solely responsible for payment of all costs for additional or extended temporary construction easements. CONTRACTOR authorizes COUNTY to deduct the actual costs of additional or extended temporary construction easements from subsequent progress payments or the retainage.

Section 8. Contract Documents.

(a) The Contract Documents, which constitute the entire agreement between COUNTY and CONTRACTOR, are made a part of this Agreement and are to be treated and interpreted as a unified whole to the maximum extent possible. The initial Contract Documents consist of the following items, listed in order of precedence below to the extent there may be any conflicts between them:

- (1) This Agreement and its Exhibits.
- (2) Any Addenda to COUNTY's Solicitation Package.
- (3) COUNTY's Solicitation Package, including the General Conditions.
- (4) Drawings and Plans.
- (5) Technical Specifications.

(b) As the Project progresses, additional Contract Documents may become part of the Agreement between COUNTY and CONTRACTOR and will consist of the following:

(1) Modifications through Change Orders as provided in the General Conditions or an Amendment to the Agreement, which will supersede the provisions in the Contract Documents affected by the Change Order or Amendment.

(2) Performance Bond.

(3) Payment Bond.

(4) Contractor's Certificate of Insurance and Insurance Policies.

(5) Notice to Proceed.

(6) Certificate of Substantial Completion.

(7) Contractor's Waiver of Lien (Partial).

(8) Contractor's Waiver of Lien (Final and Complete).

(9) Subcontractor/Supplier's Waiver of Lien (Final and Complete).

(10) Certificate of Final Completion.

(11) Contractor's Release.

(12) Consent of Surety to Final Payment.

(13) Material and Workmanship Bond.

(c) There are no Contract Documents other than those listed above in this Section. The Contract Documents may only be modified or amended by a change order as provided in the General Conditions or by an Amendment to this Agreement.

Section 9. Liquidated Damages.

(a) COUNTY and CONTRACTOR recognize that time is essential to the performance of this Agreement, and CONTRACTOR recognizes that COUNTY will suffer financial loss if the work is not substantially completed as described in subsection 14.13 of the General Conditions within the time specified below, plus any extensions of time allowed in accordance with Section

12 of the General Conditions. If the work is not completed on time, the parties also recognize the delays, expense, and difficulties involved in proving in a legal or alternative dispute resolution proceeding the damages resulting from the delay in the COUNTY's ability to use the completed Work. Accordingly, CONTRACTOR and CONTRACTOR's Surety agree to pay COUNTY as liquidated damages the amount of five hundred and 00/100 Dollars (\$500.00) per day for each day CONTRACTOR exceeds the contract time for substantial completion until the work is Substantially Complete. It is agreed that if the work is not completed by the final completion date in accordance with the Contract Documents, CONTRACTOR shall pay COUNTY as liquidated damages for delay one quarter (1/4) of the rate set forth above. The parties acknowledge and agree that the liquidated amounts described in this Section are not a penalty, but instead a reasonable measure of damages based upon the parties' experience in the relevant industry and given the nature of the losses to COUNTY that may result from delay in Substantial or Final Completion.

(b) CONTRACTOR shall pay or reimburse, in addition to the liquidated damages specified in this Agreement, COUNTY's actual damages which may include, but are not limited to, expenses for engineering fees and inspection costs arising from CONTRACTOR's failure in meeting either or both the substantial completion and final completion dates.

(c) The liquidated damages provided in this Section will apply regardless of whether CONTRACTOR is terminated, is in default, or has abandoned the work.

Section 10. Definitions, Assignment, and Binding Effect.

(a) Terms used in this Agreement that are defined in Section 1 of the General Conditions have the meanings indicated in the General Conditions.

(b) No assignments by a party of any rights under or interests in the Contract Documents will be binding on any other party without the written consent of the party sought to

be bound and any such assignment without such written consent will be void and of no effect. Specifically, but without limitation, monies that may become due and monies that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law). Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

(c) COUNTY and CONTRACTOR each binds itself and its partners, successors, assigns, and legal representatives to the other party, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

Section 11. CONTRACTOR's Specific Consideration. In consideration of CONTRACTOR's indemnity agreements as set out in the Contract Documents, COUNTY specifically agrees to pay CONTRACTOR the sum of Two Hundred Fifty and No/100 Dollars (\$250.00). CONTRACTOR acknowledges receipt of the specific consideration for CONTRACTOR's indemnification of COUNTY and that the specific consideration is included in the original contract price allocated by CONTRACTOR among all pay items, receipt of which is hereby acknowledged.

Section 12. Patents and Royalties. Unless otherwise provided, CONTRACTOR is solely responsible for obtaining the right to use any patented or copyrighted materials in the performance of this Agreement. CONTRACTOR, without exception, shall indemnify and save harmless COUNTY and its employees from liability of any nature or kind, including costs and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or supplied by CONTRACTOR. In the event of any claim against COUNTY of

copyright or patent infringement, COUNTY shall promptly provide written notification to CONTRACTOR. If such a claim is made, CONTRACTOR shall use its best efforts to promptly purchase for COUNTY the legitimate version of any infringing products or services or procure a license from the patent or copyright holder at no cost to COUNTY that will allow continued use of the service or product. If none of these alternatives are reasonably available, COUNTY shall return the article on request to CONTRACTOR and receive reimbursement, if any, as may be determined by a court of competent jurisdiction.

Section 13. Notices. Whenever either party desires to give notice to the other including, but not limited to contract claims, it must be given by written notice, hand delivered, signed and dated for receipt, or be sent by certified United States mail, return receipt requested, addressed to the party for whom it is intended at the place last specified. The place for giving of notice will remain such until it has been changed by written notice in compliance with the provisions of this Section. For the present, the parties designate the following as the respective places for giving of notice:

For COUNTY:

Seminole County Public Works Engineering Division
100 E. First Street
Sanford, FL 32771

With a copy to:

Seminole County Purchasing & Contracts Division
1301 E. Second Street
Sanford, FL 32771

Copy to ENGINEER:

Metric Engineering, Inc.
525 Technology Park, Suite #153
Lake Mary, FL 32746

For CONTRACTOR:

Central Florida Environmental Corporation
910 Belle Ave, Suite 1040
Winter Springs, FL 32708

Section 14. Conflict of Interest.

(a) CONTRACTOR shall not engage in any action that would create a conflict of interest in the performance of its obligations pursuant to this Agreement with COUNTY or which would violate or cause others to violate the provisions of Chapter 112, Part III, Florida Statutes, relating to ethics in government.

(b) CONTRACTOR certifies that no officer, agent, or employee of COUNTY has any material interest (as defined in Section 112.312(15), Florida Statutes, as over 5%), either directly or indirectly in the business of CONTRACTOR to be conducted under this Agreement and that no such person will have any such interest at any time during the term of this Agreement.



Section 15. Material Breaches of Agreement.

(a) The parties recognize that breaches of the Contract Documents may occur and that remedies for those breaches may be pursued under the Contract Documents. The parties further recognize that the safety of the traveling public is of paramount concern. Therefore, the parties agree that any breach of the Contract Documents related to life safety, including, but not limited to the maintenance of traffic requirements of the Contract Documents will be considered a material breach of the Contract Documents.

(b) Upon a material breach of the Contract Documents related to life safety as determined by COUNTY, COUNTY will issue a Stop Work Order suspending the work or any specific portion of the work until the conditions are corrected. If the life safety conditions giving rise to the Stop Work Order are not corrected within a reasonable time, as determined by

COUNTY, then the material breach will entitle COUNTY to terminate this Agreement. The recognition of breaches of the provisions of the Contract Documents related to life safety as material breaches will not be construed as a limitation on other remedies for breaches or material breaches of the Contract Documents.

Section 16. Indemnification of COUNTY. CONTRACTOR shall indemnify and hold harmless COUNTY, its commissioners, officers, and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of CONTRACTOR and persons employed or utilized by CONTRACTOR in the performance of this Agreement.

Section 17. Public Records Law.

(a) CONTRACTOR acknowledges COUNTY's obligations under Article 1, Section 24, Florida Constitution and Chapter 119, Florida Statutes, to release public records to members of the public upon request.  CONTRACTOR acknowledges that COUNTY is required to comply with Article 1, Section 24, Florida Constitution and Chapter 119, Florida Statutes, in the handling of the materials created under this Agreement and this statute controls over the terms of this Agreement. Upon COUNTY's request, CONTRACTOR shall provide COUNTY with all requested public records in CONTRACTOR's possession, or shall allow COUNTY to inspect or copy the requested records within a reasonable time and at a cost that does not exceed costs as provided under Chapter 119, Florida Statutes.

(b) CONTRACTOR specifically acknowledges its obligations to comply with Section 119.0701, Florida Statutes, with regard to public records and shall perform the following:

(1) CONTRACTOR shall keep and maintain public records that ordinarily and necessarily would be required by COUNTY in order to perform the services or provide the materials required under this Agreement.

(2) CONTRACTOR shall provide COUNTY with access to public records on the same terms and conditions that COUNTY 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.

(3) CONTRACTOR shall ensure public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed, except as authorized by law.

(c) Upon termination of this Agreement, CONTRACTOR shall transfer, at no cost to COUNTY, all public records in possession of CONTRACTOR, or keep and maintain public records required by COUNTY under this Agreement. If CONTRACTOR transfers all public records to COUNTY upon completion of this Agreement, CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If CONTRACTOR keeps and maintains the public records upon completion of this Agreement, CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to COUNTY, upon request of COUNTY, in a format that is compatible with the information technology systems of COUNTY.

(d) Failure to comply with this Section will be deemed a material breach of this Agreement for which COUNTY may terminate this Agreement immediately upon written notice to CONTRACTOR. CONTRACTOR may also be subject to statutory penalties as set forth in Section 119.10, Florida Statutes.

(e) IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONTRACTOR’S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTRACTOR MAY CONTACT THE CUSTODIAN OF PUBLIC RECORDS, THE SEMINOLE COUNTY PURCHASING AND CONTRACTS MANAGER, AT 407-665-7116, PURCH@SEMINOLECOUNTYFL.GOV, PURCHASING AND CONTRACTS DIVISION, 1301 E. SECOND STREET, SANFORD, FL 32771.

Section 18. Dispute Resolution.

(a) In the event of a dispute related to any performance or payment obligation arising under this Agreement, the parties shall exhaust COUNTY administrative dispute resolution procedures prior to filing a lawsuit or otherwise pursuing legal remedies. COUNTY administrative dispute resolution procedures for proper invoice and payment disputes are set forth in Section 22.15, “Prompt Payment Procedures,” Seminole County Administrative Code. COUNTY administrative dispute resolution procedures for contract claims related to this Agreement, other than for proper invoice and payment disputes, are set forth in Section 3.5541, “Contract Claims,” Seminole County Administrative Code.

(b) In any lawsuit or legal proceeding arising under this Agreement, CONTRACTOR hereby waives any claim or defense based on facts or evidentiary materials that were not presented for consideration in COUNTY administrative dispute resolution procedures set forth in subsection (a) above of which CONTRACTOR had knowledge and failed to present during COUNTY administrative dispute resolution procedures.

(c) In the event that COUNTY administrative dispute resolution procedures are exhausted, and a lawsuit or legal proceeding is filed, the parties shall exercise best efforts to resolve disputes through voluntary mediation and to select a mutually acceptable mediator. The parties participating in the voluntary mediation shall share the costs of mediation equally.

Section 19. All Prior Agreements Superseded. This Agreement incorporates and includes all prior negotiations, correspondence, conversations, agreements, or understandings applicable to the matters contained in this Agreement and the parties agree that there are no commitments, agreements, or understandings concerning the subject matter of this Agreement that are not contained or referred to in this document. Accordingly, it is agreed that no deviation from the terms of this Agreement may be predicated upon any prior representations or agreements, whether oral or written.

Section 20. Modifications, Amendments, or Alterations. No modification, amendment, or alteration in the terms or conditions contained in this Agreement will be effective unless contained in a written amendment executed with the same formality and of equal dignity with this Agreement.

Section 21. Independent Contractor. Nothing in this Agreement is intended or may be construed as in any manner creating or establishing a relationship of co-partners between the parties, or as constituting CONTRACTOR (including its officers, employees, and agents) as an agent, representative, or employee of COUNTY for any purpose or in any manner whatsoever. CONTRACTOR is and will remain forever an independent contractor with respect to all services performed under this Agreement.

Section 22. Employee Status. Persons employed by CONTRACTOR in the performance of services and functions pursuant to this Agreement will have no claim to pension, workers'

compensation, unemployment compensation, civil service, or other employee rights or privileges granted to COUNTY's officers and employees either by operation of law or by COUNTY.

Section 23. Services Not Provided For. No claim for services provided by CONTRACTOR not specifically provided for in this Agreement will be honored by COUNTY.

Section 24. Rights At Law Retained. The rights and remedies of COUNTY provided under this Agreement are in addition to any other rights and remedies provided by law.

Section 25. Governing Law, Jurisdiction, and Venue. The laws of the State of Florida govern the validity, enforcement, and interpretation of this Agreement. The sole jurisdiction and venue for any legal action in connection with this Agreement will be in the courts of Seminole County, Florida.

Section 26. Compliance with Laws and Regulations. In providing all services pursuant to this Agreement, CONTRACTOR must abide by all statutes, ordinances, rules, and regulations pertaining to or regulating the provision of such services, including those now in effect and subsequently adopted. Any violation of such statutes, ordinances, rules, or regulations will constitute a material breach of this Agreement and will entitle COUNTY to terminate this Agreement immediately upon delivery of written notice of termination to CONTRACTOR.

Section 27. Headings and Captions. All headings and captions contained in this Agreement are provided for convenience only, do not constitute a part of this Agreement, and may not be used to define, describe, interpret or construe any provision of this Agreement.

Section 28. Additional Requirements. CONTRACTOR shall comply with the Bid Form attached to this Agreement as Exhibit B, the Trench Safety Act document attached to this Agreement as Exhibit C, and the Americans with Disabilities Act Affidavit attached to this

Agreement as Exhibit D. CONTRACTOR shall use the Construction Forms attached to this Agreement as Exhibit E during the course of this Agreement as appropriate.

Section 29. E-Verify System Registration.

(a) CONTRACTOR must register with and use the E-Verify system to verify the work authorization status of all new employees prior to entering into this Agreement with COUNTY. If COUNTY provides written approval to CONTRACTOR for engaging with or contracting for the services of any subcontractors under this Agreement, CONTRACTOR must require certification from the subcontractor that at the time of certification, the subcontractor does not employ, contract, or subcontract with an unauthorized alien. CONTRACTOR must maintain a copy of the foregoing certification from the subcontractor for the duration of the agreement with the subcontractor.

(b) If COUNTY has a good faith belief that CONTRACTOR has knowingly violated this Section, COUNTY shall terminate this Agreement. If COUNTY terminates this Agreement with CONTRACTOR, CONTRACTOR may not be awarded a public contract for at least one (1) year after the date on which this Agreement is terminated. If COUNTY has a good faith belief that a subcontractor knowingly violated this Section, but CONTRACTOR otherwise complied with this Section, COUNTY must promptly notify CONTRACTOR and order CONTRACTOR to immediately terminate its agreement with the subcontractor.

(c) CONTRACTOR shall execute and return the Affidavit of E-Verify Requirements Compliance, attached to this Agreement as Exhibit F, to COUNTY.

IN WITNESS WHEREOF, the parties have executed this Agreement. All portions of the Contract Documents have been signed or identified by COUNTY and CONTRACTOR or by

ENGINEER on their behalf.

ATTEST:

CENTRAL FLORIDA ENVIRONMENTAL
CORPORATION

Witness

By: _____
DAVID STALOWY, President

Print Name

Date: _____

Witness

Print Name

[Remainder of this page intentionally left blank]



SEMINOLE COUNTY, FLORIDA

Witness

Print Name

Witness

Print Name

By: _____
ROBERT BRADLEY,
Procurement Administrator

Date: _____

For the use and reliance of
Seminole County only.

As authorized for execution by the Board of
County Commissioners at its _____,
20____, regular meeting.

Approved as to form and
legal sufficiency.

County Attorney
RM/dbd
5/15/2024



Attachments:

- Exhibit A – Scope of Services
- Exhibit B – Bid Form
- Exhibit C – Trench Safety Act
- Exhibit D – Americans with Disabilities Act Affidavit
- Exhibit E – Construction Forms
- Exhibit F – Affidavit of E-Verification Requirements Compliance

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SCOPE OF SERVICES:

LAKE MARY BLVD AT COUNTRY CLUB RD INTERSECTION IMPROVEMENTS

The scope of work is for the Lake Mary Blvd at Country Club Rd Intersection Improvements Project includes the following improvements:

1. Widening existing southbound lane along Country Club (from Lake Mary Blvd to 3rd St.)
2. Widening existing northbound right turn lane along Country Club (from existing driveway to Lake Mary Blvd).
3. Widening existing northbound right turn lane along Country Club (from Lake Mary Blvd to E. Lakeview Ave.).
4. Extension of existing eastbound left turn lane along Lake Mary Blvd.
5. Construct four (4) new mast arms at the intersection of Lake Mary Blvd at Country Club Rd



CIP NO. 01785134 LAKE MARY BLVD AT COUNTRY CLUB RD INTERSECTION IMPROVEMENTS - BID TAB

PAY ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY LK MARY BLVD	QUANTITY	QUANTITY TOTAL	UNIT PRICE	TOTAL AMOUNT
ROADWAY							
101 1	MOBILIZATION (MAXIMUM 8% OF SUBTOTAL OF ALL NON-LUMP SUM ITEMS)	LS	1		1		\$ -
102 1	MAINTENANCE OF TRAFFIC (MAXIMUM 10% OF SUBTOTAL OF ALL NON-LUMP SUM ITEMS)	LS	1		1		\$ -
102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	180		180		\$ -
104 10 3	SEDIMENT BARRIER	LF	1425		1425		\$ -
104 18	INLET PROTECTION SYSTEM	EA	14		14		\$ -
107 1	LITTER REMOVAL AND DISPOSAL	AC	1.49		1.49		\$ -
107 2	MOWING	AC	0.80		0.80		\$ -
110 1 1	CLEARING AND GRUBBING (MAXIMUM 2% OF SUBTOTAL OF ALL NON-LUMP SUM ITEMS)	LS	1		1		\$ -
120 1	REGULAR EXCAVATION	CY	1417.0		1417.0		\$ -
120 6	EMBANKMENT	CY	38.0		38.0		\$ -
160 4	TYPE B STABILIZATION	SY	2,433		2433		\$ -
285 709	OPTIONAL BASE GROUP 9	SY	1,846		1846		\$ -
327 70 1	MILLING EXISTING ASPHALT 1" AVERAGE DEPTH	SY	8,702		8702		\$ -
334 1 13	TYPE SP STRUCTURAL COURSE, (TRAFFIC C)	TN	178.8		178.8		\$ -
337 7 82	FRICTION COURSE, FC - 9.5 (TRAFFIC C) (PG 76-22) (1")	TN	584.0		584.0		\$ -
425 1 341	INLETS, CURB, TYPE P-4, <10'	EA	1		1		\$ -
425 1 351	INLETS, CURB, TYPE P-5, <10'	EA	2		2		\$ -
425 1 361	INLETS, CURB, TYPE P-6, <10'	EA	2		2		\$ -
425 1 521	INLETS, DT BOT, TYPE C, <10'	EA	2		2		\$ -
425 2 61	MANHOLES, P-8, <10'	EA	3		3		\$ -
425 4	INLET, ADJUST	EA	1		1		\$ -
430 175 115 A	CONCRETE PIPE CULVERT, SD, CLASS III, 15"	LF	78		78		\$ -
430 175 118 A	CONCRETE PIPE CULVERT, SD, CLASS III, 18"	LF	256		256		\$ -
430 175 218 A	ELLIPTICAL CONCRETE PIPE CULVERT, S/CD, CLASS HE-III, 14"x23"	LF	249		249		\$ -
430 175 224 A	ELLIPTICAL CONCRETE PIPE CULVERT, S/CD, CLASS HE-III, 19"x30"	LF	8		8		\$ -
515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM, F&I	LF	133		133		\$ -
520 1 10	CONCRETE CURB AND GUTTER, TYPE F	LF	1,965		1965		\$ -
520 2 1	CONCRETE CURB, TYPE A	LF	1,014		1014		\$ -
520 2 2	CONCRETE CURB, TYPE B	LF	61		61		\$ -
520 3	VALLEY GUTTER - CONCRETE	LF	144		144		\$ -
522 1	SIDEWALK CONCRETE, 4" THICK	SY	557		557		\$ -
522 2	SIDEWALK CONCRETE, 6" THICK	SY	243		243		\$ -
527 2	DETECTABLE WARNING (PERFORMED THERMOPLASTIC)	SF	166		166		\$ -
570 1 2	PERFORMANCE TURF, SOD	SY	1,621		1621		\$ -

SIGNING AND PAVEMENT MARKING							
700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	31		31		\$ -
700 1 50	SINGLE POST SIGN, RELOCATE	AS	4		4		\$ -
700 1 60	SINGLE POST SIGN, REMOVE	AS	25		25		\$ -
705 10 1	OBJECT MARKERM TYPE 1	EA	2		2		\$ -
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA	438		438		\$ -
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 6"	GM	1.235		1.235		\$ -
710 11 102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 8"	GM	0.012		0.012		\$ -
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD WHITE, SOLID 12" FOR CROSSWALK AND ROUNDABOUT	LF	2795		2,795		\$ -
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24" FOR STOP LINE OR CROSSWALK	LF	366		366		\$ -
710 11 131	PAINTED PAVEMENT MARKINGS, STANDARD WHITE, SKIP, 6" 10'-30' OR 3'-9' LANE DROP	GM	0.116		0.116		\$ -
710 11 133	PAINTED PAVEMENT MARKINGS, STANDARD WHITE, 3'-9' SKIP DROP LANE, 12"	GM	0.088		0.088		\$ -
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD WHITE, 2'-4' DOTTED GUIDELINE/ 6'-10' DOTTED EXT. 6"	GM	0.320		0.320		\$ -
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	9		9		\$ -
710 11 170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	51		51		\$ -
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID 6"	GM	0.767		0.767		\$ -
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, FOR DIAGONAL OR CHEVRON,18"	LF	74		74		\$ -
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2'-4' DOTTED GUIDE LINE/ 6'-10' DOTTED EXT. 6"	GM	0.089		0.089		\$ -
710 11 290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	8		8		\$ -
711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	2693		2,693		\$ -
711 11 125	THERMOPLASTIC, STANDARD WHITE, SOLID 24" FOR STOP LINE AND CROSSWALK	LF	366		366		\$ -
711 11 141	THERMOPLASTIC, STANDARD WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.320		0.320		\$ -
711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	2		2		\$ -
711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	40		40		\$ -
711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	74		74		\$ -
711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2'-4' DOTTED GUIDE LINE/ 6'-10' DOTTED EXT. 6"	GM	0.089		0.089		\$ -
711 14 123	THERMOPLASTIC, PERFORMED, WHITE, SOLID, 12" CROSSWALK	LF	102		102		\$ -
711 14 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	4		4		\$ -
711 14 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	3		3		\$ -
711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACE, WHITE, SOLID, 6"	GM	1.094		1.094		\$ -
711 16 131	THERMOPLASTIC, STANDARD-OTHER SURFACE, WHITE, SKIP, 6", 10'-30' SKIP OR 3'-9' LANE DROP	GM	0.116		0.116		\$ -
711 16 133	THERMOPLASTIC, STANDARD-OTHER SURFACE, WHITE, SKIP, 12" (3'-9' LANE DROP)	GM	0.088		0.088		\$ -
711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACE, YELLOW, SOLID 6"	GM	0.628		0.628		\$ -

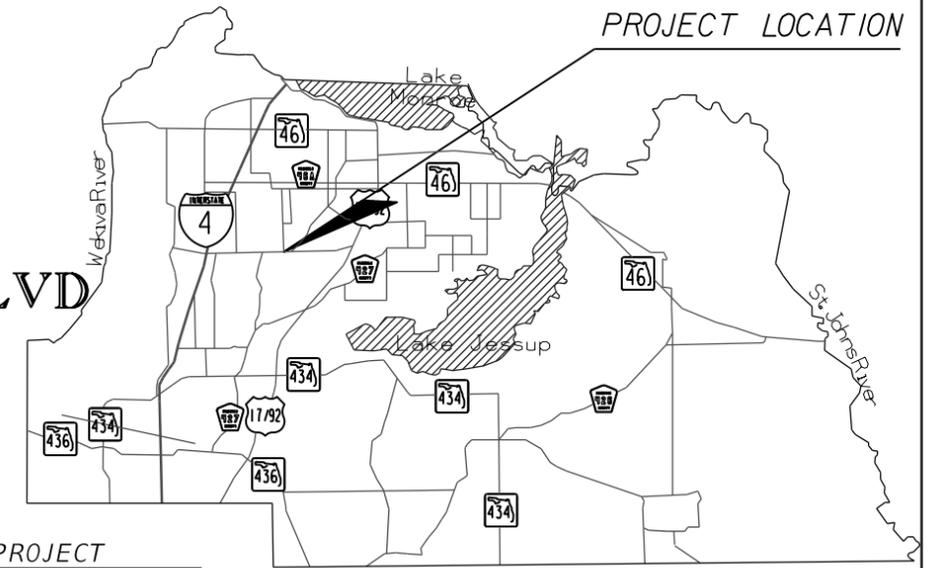
SIGNALIZATION							
630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	990		990	\$	-
630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2515		2,515	\$	-
632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1		1	\$	-
632 7 6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1		1	\$	-
633 1 122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	1620		1,620	\$	-
633 1 123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	9100		9,100	\$	-
633 1 620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	6835		6,835	\$	-
633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	208		208	\$	-
633 2 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	26		26	\$	-
633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	4		4	\$	-
633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	17		17	\$	-
633 3 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1		1	\$	-
635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	30		30	\$	-
635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE (24" DEEP)	EA	6		6	\$	-
635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE (24" DEEP)	EA	6		6	\$	-
639 1 121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS	1		1	\$	-
639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	150		150	\$	-
641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1		1	\$	-
641 2 60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	2		2	\$	-
646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8		8	\$	-
649 21 3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1		1	\$	-
649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	3		3	\$	-
649 26 3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION-BOLT ON ATTACHMENT	EA	4		4	\$	-
650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	14		14	\$	-
653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8		8	\$	-
660 1 110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA	8		8	\$	-
660 2 102	LOOP ASSEMBLY, F&I, TYPE B	AS	8		8	\$	-
660 2 106	LOOP ASSEMBLY, F&I, TYPE F	AS	16		16	\$	-
660 4 41	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE CABINET EQUIPMENT	EA	1		1	\$	-
660 4 42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA	2		2	\$	-
660 6 421	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, CABINET EQUIPMENT	EA	1		1	\$	-
660 6 422	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE ABOVE GROUND EQUIPMENT	EA	1		1	\$	-
663 1 112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA	4		4	\$	-
663 1 121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, CABINET ELECTRONICS	EA	1		1	\$	-
663 1 122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA	1		1	\$	-
665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8		8	\$	-
670 5 111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1		1	\$	-
670 5 600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1		1	\$	-
682 1 113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE PRESSURIZED, IP, HIGH DEFINITION	EA	1		1	\$	-
684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1		1	\$	-
685 1 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1		1	\$	-
700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4		4	\$	-
700 11 321	ELECTRONIC DISPLAY SIGN, F&I OVERHEAD MOUNT- AC POWERED, REGULATOR SIGN, UP TO 12 SF	AS	4		4	\$	-
	TOTAL					\$	-

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS

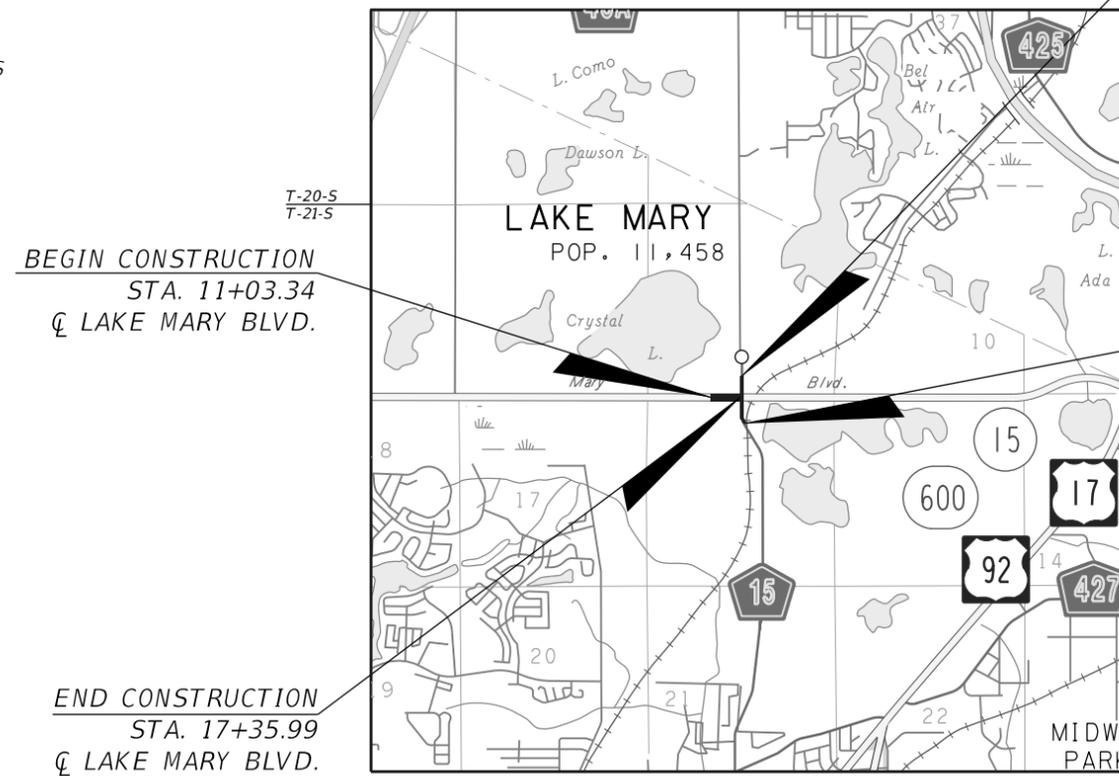
Exhibit "A"
**SEMINOLE COUNTY, FLORIDA
ENGINEERING DIVISION**

CONTRACT PLANS
**COUNTRY CLUB RD AT LAKE MARY BLVD
INTERSECTION IMPROVEMENTS**
CIP NO. 01785134



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3-6	TYPICAL SECTION
7	GENERAL/ TRAFFIC CONTROL NOTES
8-11	PLAN SHEETS
12-15, 15A	DRAINAGE STRUCTURES
16-30	CROSS SECTIONS
31-34	UTILITY ADJUSTMENT SHEETS
SQ-1-SQ-8	SUMMARY OF QUANTITIES
CTL-1-CTL-4	SURVEY CONTROL



END PROJECT
STA. 63+46.95
COUNTRY CLUB RD.

BOARD OF COUNTY OF COMMISSIONERS

- DISTRICT 1
BOB DALLARI
 - DISTRICT 2
JAY ZEMBOWER
 - DISTRICT 3
LEE CONSTANTINE
 - DISTRICT 4
AMY LOCKHART
 - DISTRICT 5
ANDRIA HERR
- DIRECTOR OF PUBLIC WORKS:
JEAN JREIJ, P.E.

GOVERNING STANDARD PLANS:

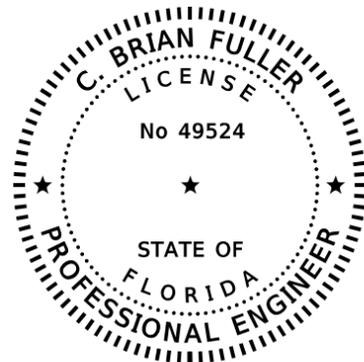
Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road and Bridge Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: N/A

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, Jan 2021 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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METRIC ENGINEERING, INC.
525 TECHNOLOGY PARKWAY, SUITE 153
SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION 2294

ROADWAY PLANS
ENGINEER OF RECORD:

C. BRIAN FULLER, P.E.
P.E. NO.: 49524
METRIC ENGINEERING INC
525 TECHNOLOGY PARK #153
LAKE MARY, FL 32746
VENDOR NO.: F-59-1685550

SEMINOLE COUNTY
PROJECT MANAGER:
HAROLD MCKNIGHT

FISCAL YEAR	SHEET NO.
24	1

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Exhibit "A"

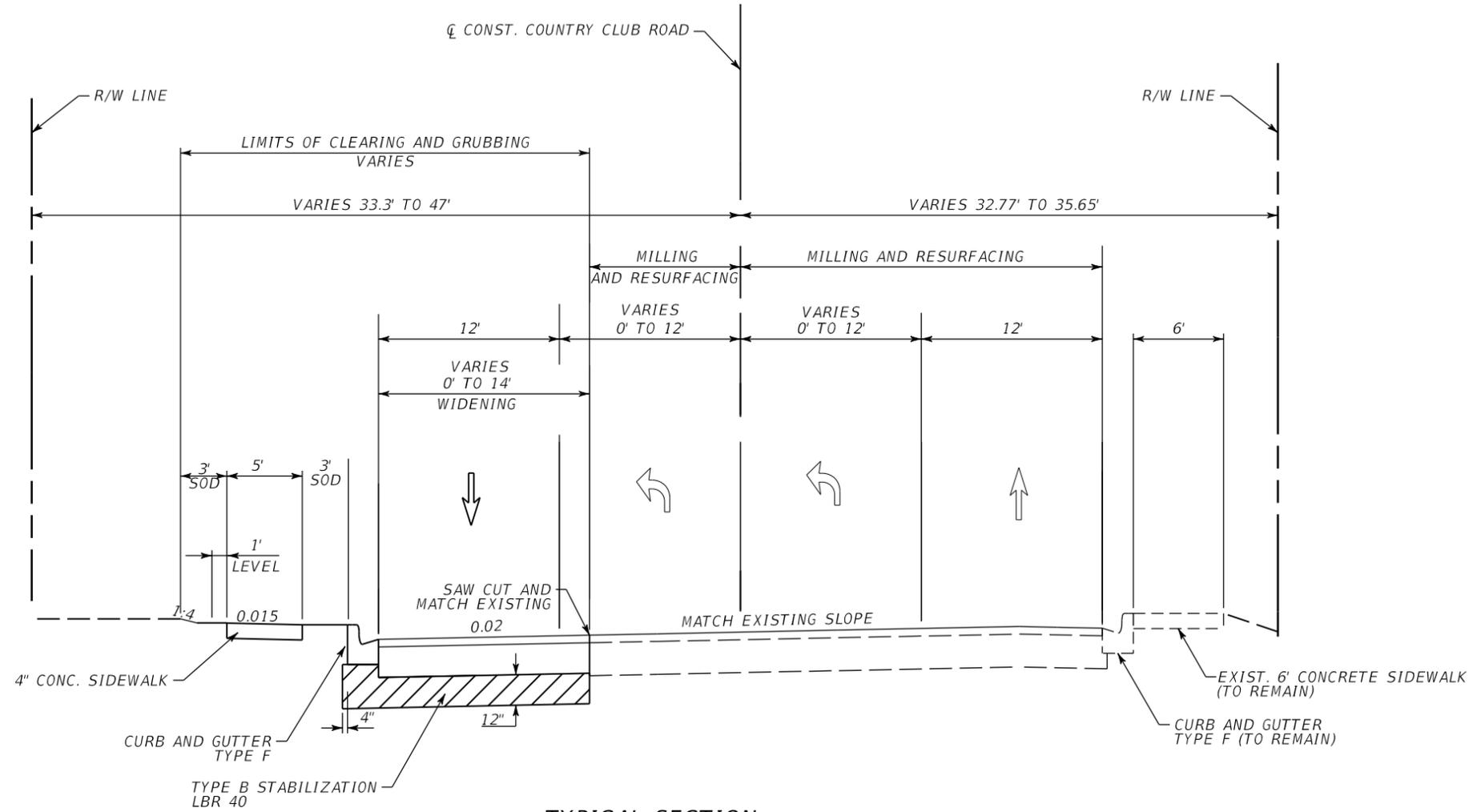
SUMMARY OF ROADWAY				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL	
			PLAN	FINAL
101 1	MOBILIZATION	LS	1	
102 1	MAINTENANCE OF TRAFFIC	LS	1	
104 10 3	SEDIMENT BARRIER	LF	1,425	
104 18	INLET PROTECTION SYSTEM	EA	14	
107 1	LITTER REMOVAL AND DISPOSAL	AC	1.49	
107 2	MOWING	AC	0.80	
110 1 1	CLEARING AND GRUBBING	LS	1	
110 4 1	REMOVAL OF EXISTING CONCRETE	SY	1181	
120 1	REGULAR EXCAVATION	CY	1,417	
120 6	EMBANKMENT	CY	38	
160 4	TYPE B STABILIZATION	SY	2,433	
285 709	OPTIONAL BASE GROUP 9	SY	1,846	
327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	8,702	
334 1 13	TYPE SP STRUCTURAL COURSE, (TRAFFIC C) (2")	TN	178.8	
337 7 82	FRICTION COURSE, FC - 9.5 (TRAFFIC C) (PG 76-22) (1")	TN	584.0	
425 1 341	INLETS, CURB, TYPE P-4, <10'	EA	1	
425 1 351	INLETS, CURB, TYPE P-5, <10'	EA	2	
425 1 361	INLETS, CURB, TYPE P-6, <10'	EA	2	
425 1 521	INLETS, DT BOT, TYPE C, <10'	EA	2	
425 2 61	MANHOLES, P-8, <10'	EA	3	
425 4	INLETS, ADJUST	EA	1	
430 175 115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD	LF	78	
430 175 118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	256	
430 175 218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 18" S/CD	LF	249	
430 175 224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 24" S/CD	LF	8	
133	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	133	
520 1 10	CONCRETE CURB AND GUTTER, TYPE F	LF	1,965	
520 2 1	CONCRETE CURB TYPE A	LF	1,014	
520 2 2	CONCRETE CURB TYPE B	LF	61	
520 3	VALLEY GUTTER - CONCRETE	LF	144	
522 1	SIDEWALK CONCRETE, 4" THICK	SY	557	
522 2	SIDEWALK CONCRETE, 6" THICK	SY	243	
527 2	DETECTABLE WARNING	SF	166	
570 1 2	PERFORMANCE TURF, SOD	SY	1,621	

SEE SHEET SQ-1 FOR PAY ITEM NOTES

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION <hr/> PROJECT NAME: COUNTRY CLUB ROAD PROJECT ID: 01785134	SUMMARY OF PAY ITEMS	SHEET NO. 2
REVISIONS																			
DATE	DESCRIPTION	DATE	DESCRIPTION																

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Exhibit "A"



**TYPICAL SECTION
COUNTRY CLUB ROAD
STA. 46+70.00 TO STA. 53+49.85**

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")

RESURFACING

FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

DRIVEWAY WIDENING

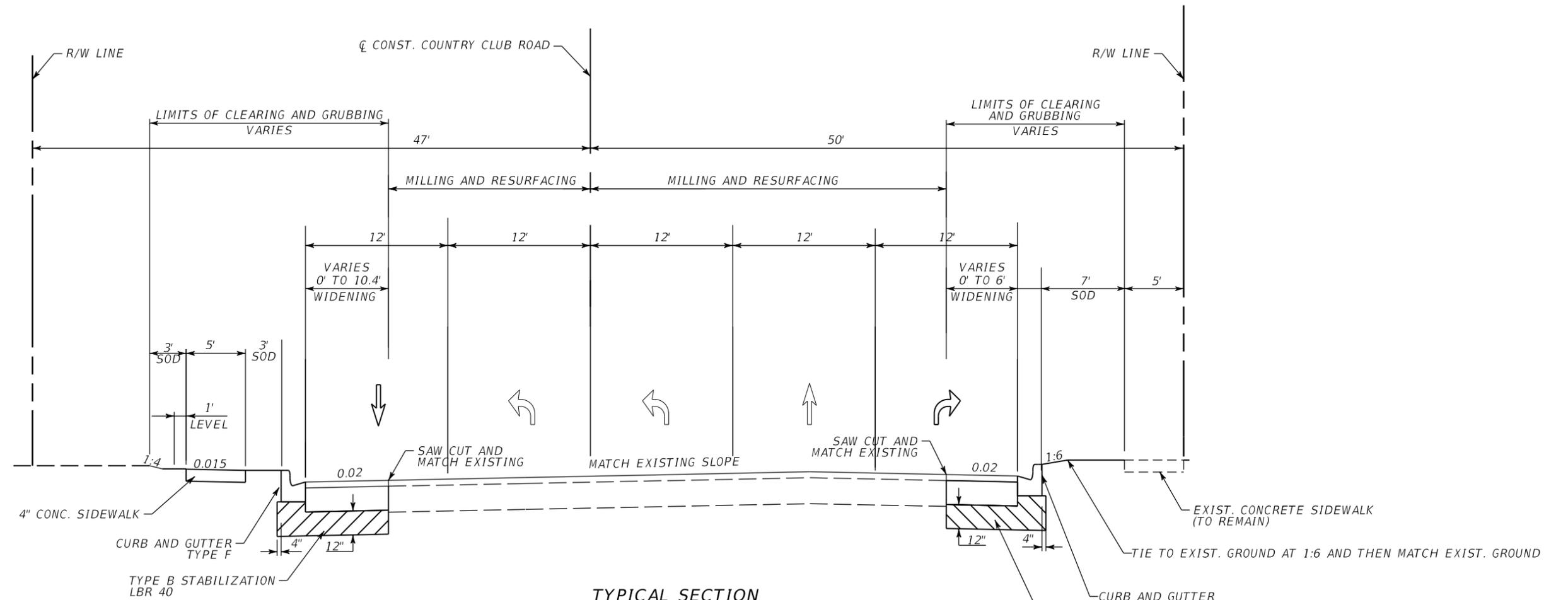
OPTIONAL BASE GROUP 9
AND FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

TRAFFIC DATA

POSTED SPEED = 35 MPH
DESIGN SPEED = 35 MPH

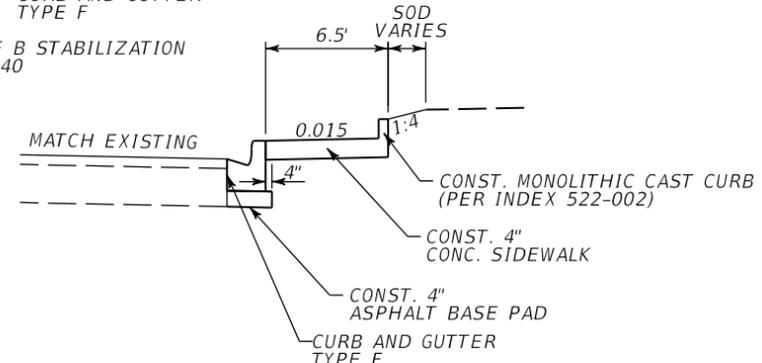
REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		TYPICAL SECTION (1)	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

Exhibit "A"



**TYPICAL SECTION
COUNTRY CLUB ROAD
STA. 53+49.85 TO STA. 57+00.00**

- MILLING**
MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")
- RESURFACING**
FRICTION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")
- WIDENING**
OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICTION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")
- DRIVEWAY WIDENING**
OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
AND FRICTION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")



**INTERSECTION DETAIL
OF ASPHALT BASE PAD**

- STA. 56+16.89, 27.85' LT TO STA. 56+34.03, 47.58' LT
- STA. 56+43.67, 53.17' RT TO STA. 56+47.72, 69.14' RT
- STA. 57+55.78, 47.79' LT TO STA. 57+97.26, 27.96' LT
- STA. 57+51.45, 62.29' RT TO STA. 57+51.32, 66.37' RT

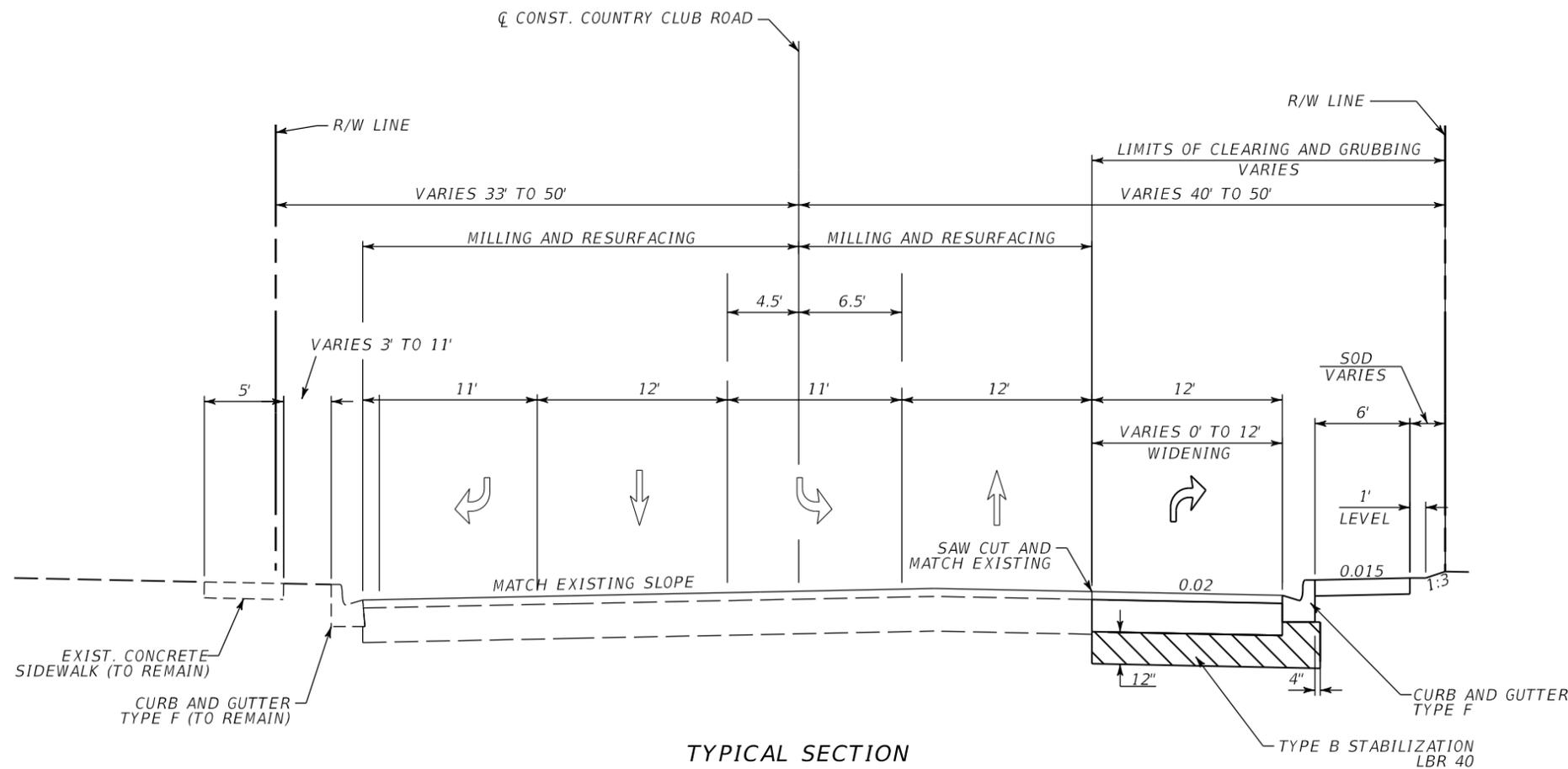
TRAFFIC DATA

POSTED SPEED = 35 MPH
DESIGN SPEED = 35 MPH

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID	
					COUNTRY CLUB ROAD	01785134	TYPICAL SECTION (2)

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Exhibit "A"



TYPICAL SECTION
COUNTRY CLUB ROAD
STA. 57+00.00 TO STA. 63+46.95

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")

RESURFACING

FRICTION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

WIDENING

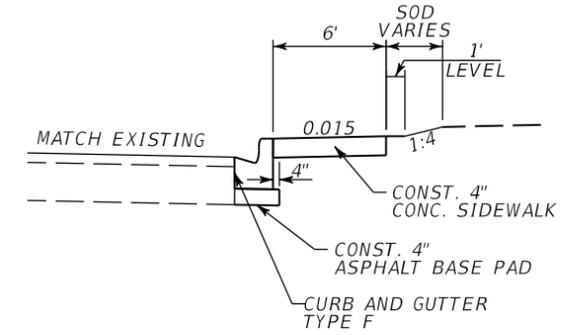
OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
 AND FRICTION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

DRIVEWAY WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
 AND FRICTION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

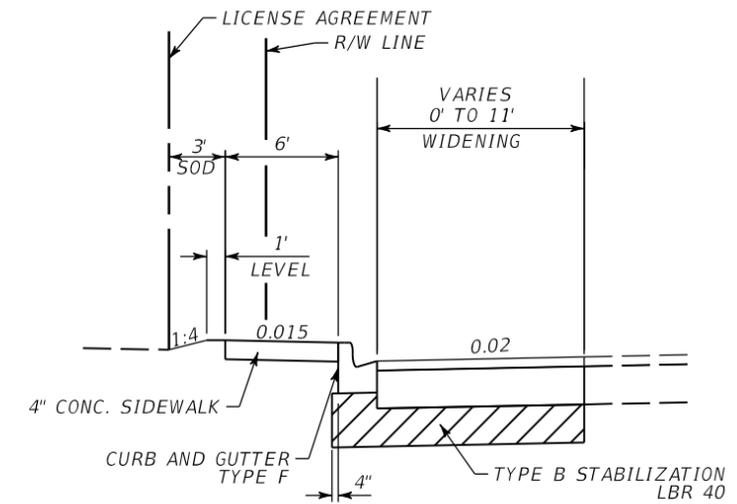
TRAFFIC DATA

POSTED SPEED = 35 MPH
 DESIGN SPEED = 35 MPH



CURB RETURN DETAIL
OF ASPHALT BASE PAD

STA. 58+60.75, 30.45' RT TO STA. 59+56.37, 46.64' RT
 STA. 60+81.10, 30.45' LT TO STA. 61+70.26, 39.91' LT



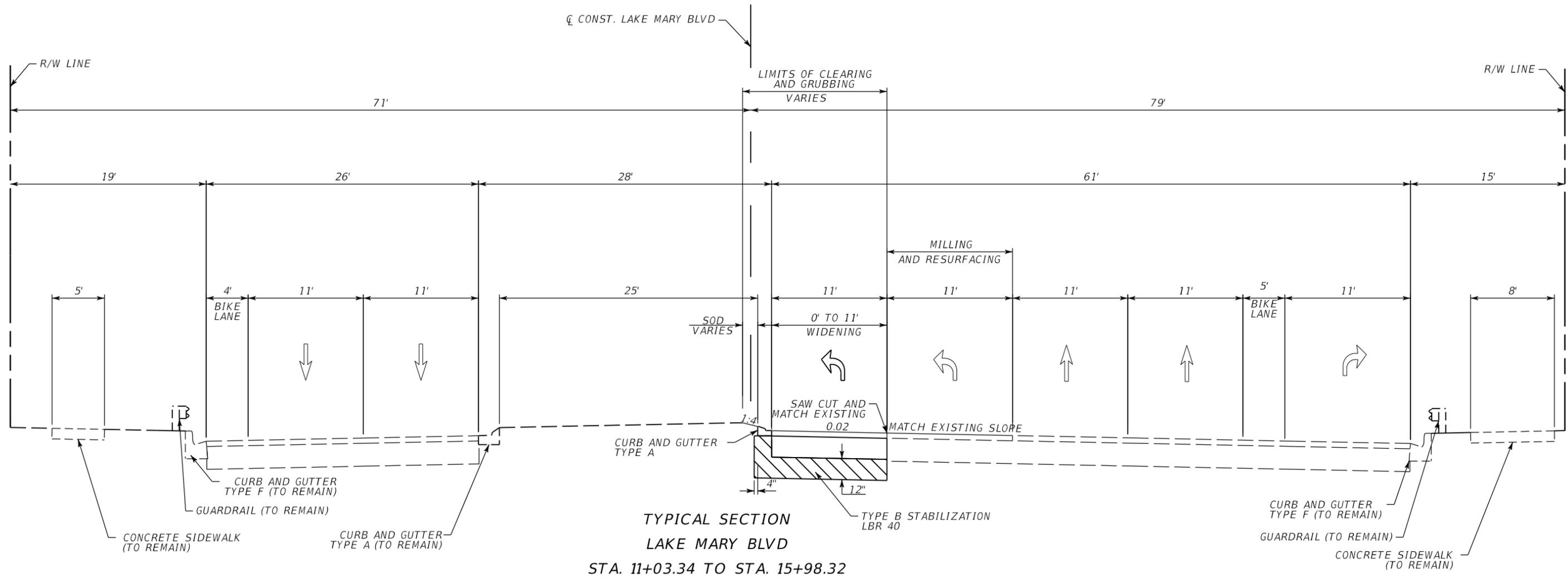
RIGHT TURN DETAIL

STA. 60+19.68, 27.16' LT TO STA. 61+38.88, 17.15' LT

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		TYPICAL SECTION (5)	SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

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Exhibit "A"



**TYPICAL SECTION
LAKE MARY BLVD
STA. 11+03.34 TO STA. 15+98.32**

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")

RESURFACING

FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICITION COURSE (TRAFFIC C) (FC-9.5) (PG 76-22) (1")

TRAFFIC DATA

POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID	
					COUNTRY CLUB ROAD	01785134	<p>TYPICAL SECTION (4)</p>

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GENERAL NOTES:

Exhibit "A"

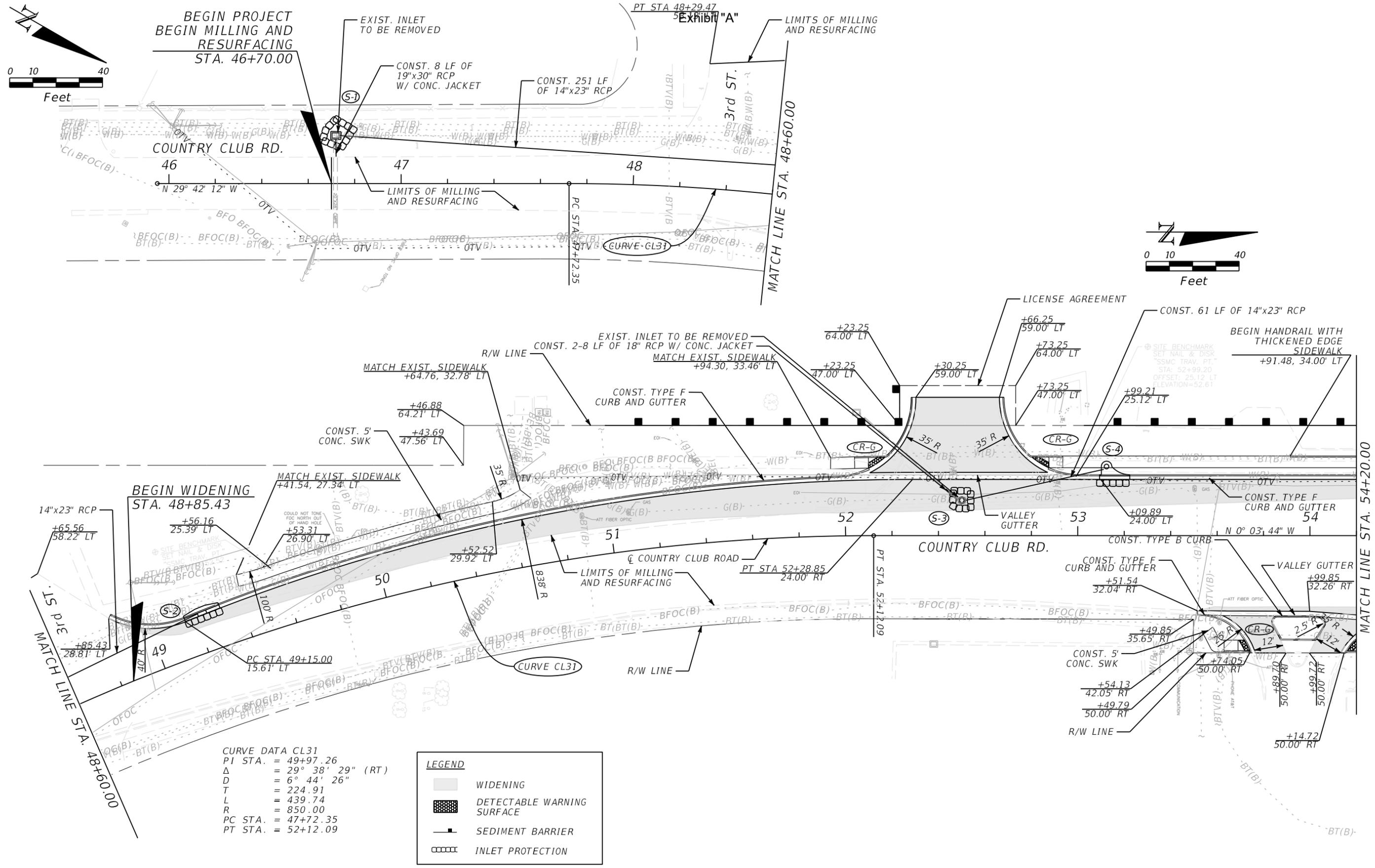
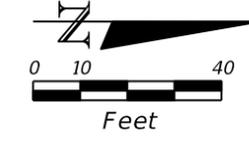
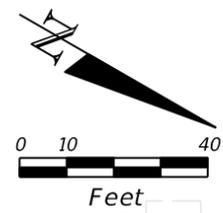
TEMPORARY TRAFFIC CONTROL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND HORIZONTAL DATUM SHOWN ON THE PLANS IS NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT, STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE.
2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
 JAMES L. PETERSEN, P.S.M.
 P.S.M. NO.: 4791
 SOUTHEASTERN SURVEYING AND MAPPING CORPORATION
 6500 ALL AMERICAN BOULEVARD
 ORLANDO, FL 32810
 CERTIFICATE OF AUTHORIZATION: LB2108
3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh.) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
4. UTILITY/AGENCY OWNERS:

	CONTACT	TELEPHONE NUMBERS
AT&T DISTRIBUTION	SHAUN PURVIS	407-321-6906
BRIGHT HOUSE NETWORKS, LLC DBA CHARTER/SPECTRUM	LAZLO WAGNER	407-467-6187
CITY OF LAKE MARY PUBLIC WORKS	DANIELLE KOURY	407-571-8342
DUKE ENERGY DISTRIBUTION	BRETT M GORDON	407-625-6018
FLORIDA PUBLIC UTILITIES	JOHNNY HILL	386-668-9842
5. UNLESS SPECIFIED IN THESE PLANS, UTILITIES ARE TO BE ADJUSTED BY OTHERS AND COORDINATED BY THE CONTRACTOR.
6. EXISTING DRAINAGE STRUCTURES AND FACILITIES SHALL BE MAINTAINED AND FULLY FUNCTIONAL DURING THE CONSTRUCTION.
7. EXISTING DRAINAGE STRUCTURES AND PIPE WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
8. ANY PUBLIC LAND CORNER OR COUNTY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE SEMINOLE COUNTY SURVEYOR IMMEDIATELY BY TELEPHONE.
9. WHEN PROPOSED SIDEWALK IS LOCATED ADJACENT TO EXISTING ASPHALT OR EXISTING SIDEWALK, THE PROPOSED SIDEWALK SHALL MATCH ELEVATION AND GRADE OF THE EXISTING ASPHALT OR SIDEWALK.
10. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
11. ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR PROPER INSTALLATION/RELOCATION OF UTILITY FACILITIES, AS INDICATED ON THE UTILITY WORK SCHEDULE, SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE IMPACTED UTILITIES AND STAKE THE ITEMS REQUESTED. THIS STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING FOR THE PROJECT.

1. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT STANDARD PLANS FOR ROAD CONSTRUCTION AND FLORIDA DESIGN MANUAL (LATEST PUBLISHED EDITIONS) AT ALL TIMES.
2. ALL TRAFFIC CONTROL DEVICES (TEMPORARY SIGNS, PAVEMENT MARKINGS, BARRIER WALL, ETC.) REQUIRED DURING A CONSTRUCTION PHASE SHALL BE APPROVED BY THE COUNTY ENGINEERING INSPECTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION AND WILL BE MAINTAINED IN ACCORDANCE WITH THE MUTCD (DEFER TO FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, GENERAL CONSTRUCTION OPERATIONS - MAINTENANCE OF TRAFFIC, IF TRAFFIC CONTROL CASE IS NOT COVERED IN MUTCD). FDOT STANDARD PLANS FOR ROAD CONSTRUCTION GENERAL CONSTRUCTION OPERATIONS - MAINTENANCE OF TRAFFIC SHALL BE USED IN CONJUNCTION WITH ALL OTHER STANDARD PLAN INDICES SPECIFICALLY MENTIONED.
3. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD CONSTRUCTION INDEX 102 SERIES.
4. ALL EXISTING SIGNS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE REMOVED OR TEMPORARILY RELOCATED AS NECESSARY.
5. ALL SIGNS 48" X 48" OR LARGER SHALL BE MAINTAINED ON TWO (2) BREAKAWAY SUPPORTS OR YIELDING POSTS AS SHOWN IN FIGURE 6F-1 OF THE MUTCD. THE CONTRACTOR SHALL USE THE MUTCD TO DETERMINE THE APPROPRIATE PLACEMENT AND ELEVATION OF CONSTRUCTION SIGNS. REFLECTIVITY SHALL ADHERE TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. VEHICULAR ACCESS TO RESIDENCES, BUSINESSES, AND SCHOOLS WILL BE MAINTAINED AT ALL TIMES.
7. MINIMUM LANE WIDTHS WILL BE TEN (10) FEET.
8. A MINIMUM OF 1' SHY DISTANCE SHALL BE MAINTAINED BETWEEN THE TRAVEL LANES AND BARRICADES.
9. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY ENGINEERING INSPECTOR.
10. THE EXISTING POSTED SPEED WILL BE MAINTAINED DURING CONSTRUCTION. COUNTRY CLUB ROAD IS POSTED AT 35 MPH AND LAKE MARY BLVD. IS POSTED AT 45 MPH.
11. IT IS THE COUNTY'S POLICY TO PLACE THE RESPONSIBILITY FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION ON THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE COUNTY PRIOR TO BEGINNING THE PROJECT. THIS TRAFFIC CONTROL DATA SHEET IS INTENDED TO DEMONSTRATE THAT THE PROJECT IS CONSTRUCTIBLE AS DESIGNED.
12. LANE CLOSURES SHOULD BE AVOIDED ON COUNTRY CLUB ROAD AND LAKE MARY BLVD. AS MUCH AS POSSIBLE. WHEN SCHOOL IS IN SESSION, LANE CLOSURES ARE PERMITTED MONDAY, TUESDAY, THURSDAY, AND FRIDAY BETWEEN 9 AM TO 2 PM AND WEDNESDAY 9 AM TO 1 PM. WHEN SCHOOL IS NOT IN SESSION, LANE CLOSURES ARE PERMITTED BETWEEN 9 AM TO 4 PM. ALL ACTIVITIES REQUIRING LANE CLOSURES SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY CONSTRUCTION REPRESENTATIVE. LANES SHALL ONLY BE CLOSED DURING ACTIVE WORK PERIODS.
13. THE CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN ROUTES FOR PEDESTRIANS AND CHILDREN ACCESSING LAKE MARY ELEMENTARY SCHOOL. THESE ROUTES SHALL BE COORDINATED WITH AND APPROVED BY THE SCHOOL BOARD.

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		GENERAL / TRAFFIC CONTROL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		7
					COUNTRY CLUB ROAD	01785134		



CURVE DATA CL31
 PI STA. = 49+97.26
 Δ = 29° 38' 29" (RT)
 D = 6° 44' 26"
 T = 224.91
 L = 439.74
 R = 850.00
 PC STA. = 47+72.35
 PT STA. = 52+12.09

LEGEND	
	WIDENING
	DETECTABLE WARNING SURFACE
	SEDIMENT BARRIER
	INLET PROTECTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
 P.E. LICENSE NUMBER 49524
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

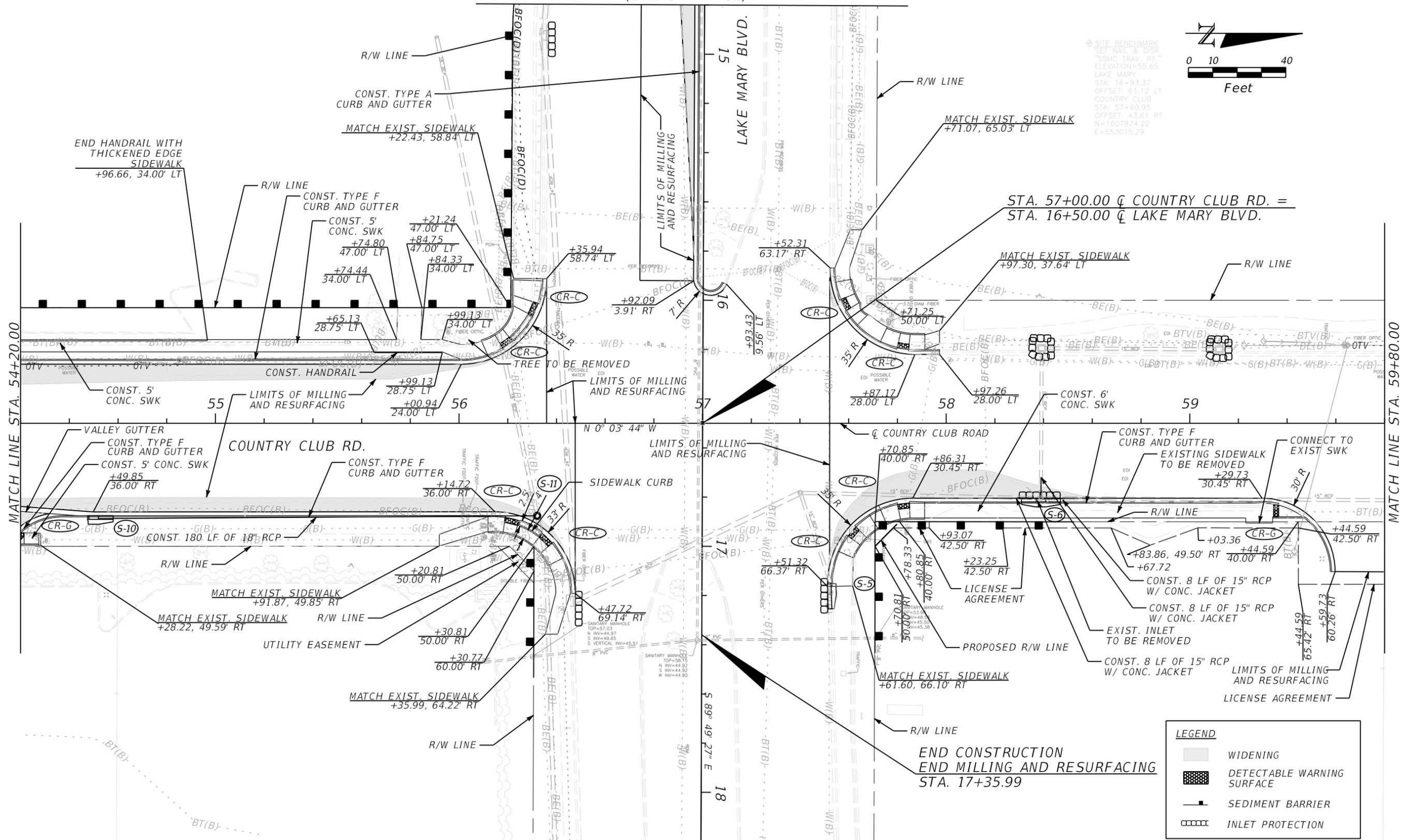
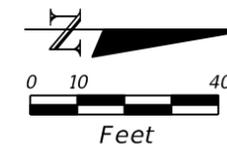
PLAN SHEET (1)

SHEET NO.
8

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Match Line "A" +80.00
(SEE SHEET 12)

⊕ SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEVATION=55.65
LAKE MARY
STA: 16+93.37
OFFSET: 61.12 LT
COUNTRY CLUB
STA: 57+60.95
OFFSET: 43.61 RT
N=1607874.22
E=553015.29



LEGEND	
	WIDENING
	DETECTABLE WARNING SURFACE
	SEDIMENT BARRIER
	INLET PROTECTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

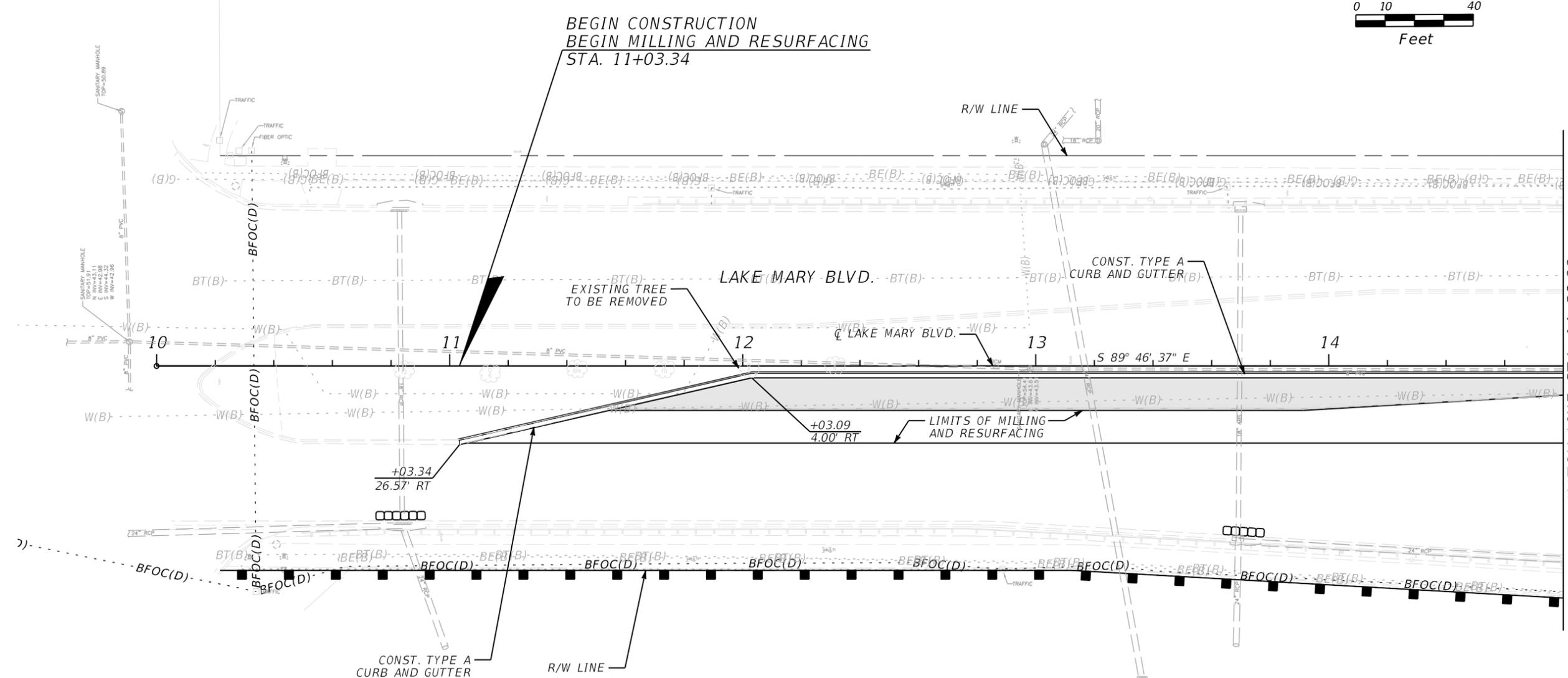
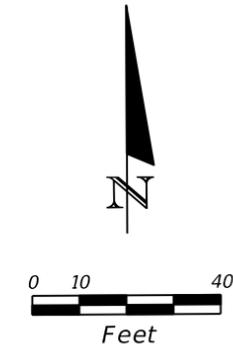
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

PLAN SHEET (2)

SHEET NO.
9

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Exhibit "A"



LEGEND	
	WIDENING
	DETECTABLE WARNING SURFACE
	SEDIMENT BARRIER
	INLET PROTECTION

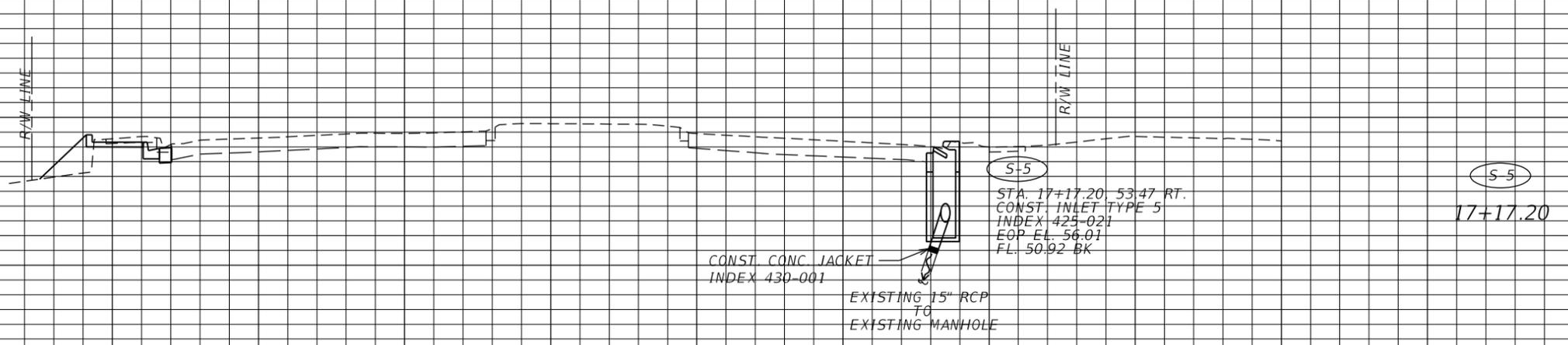
REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		PLAN SHEET (4)	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

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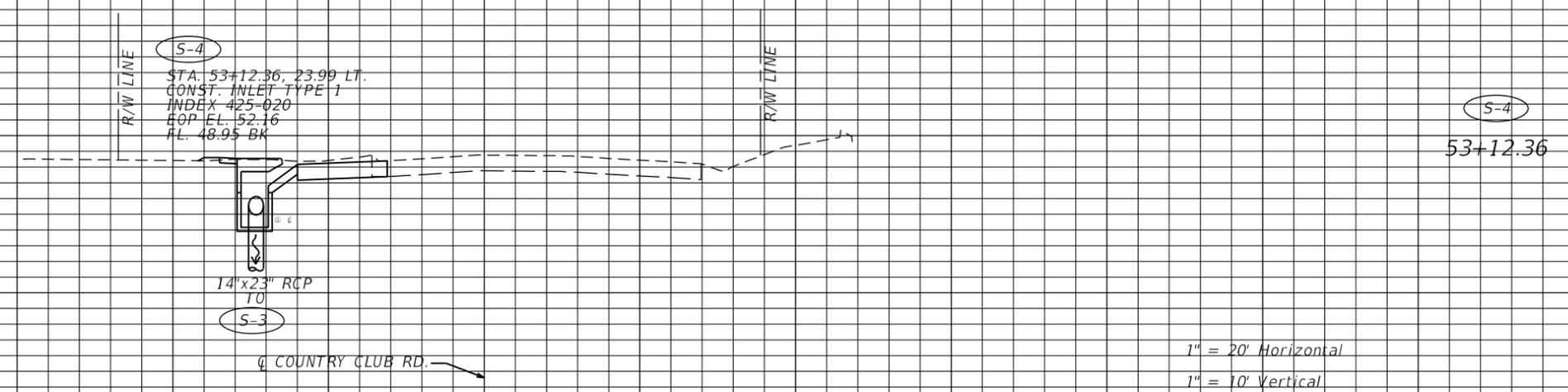
Exhibit "A"

CL LAKE MARY BLVD.

62
60
58
56
54
52
50
48
46
44
42



62
60
58
56
54
52
50
48
46



1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120

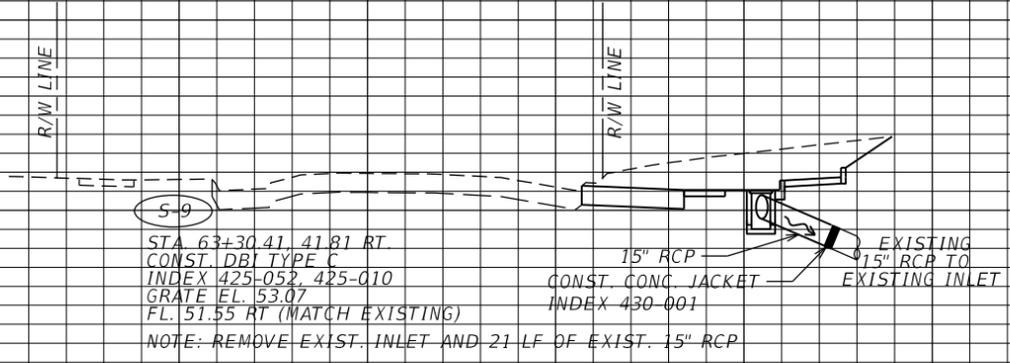
REVISIONS		C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SHEET NO. 13
DATE	DESCRIPTION		PROJECT NAME	PROJECT ID	
			COUNTRY CLUB ROAD	01785134	DRAINAGE STRUCTURES

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"

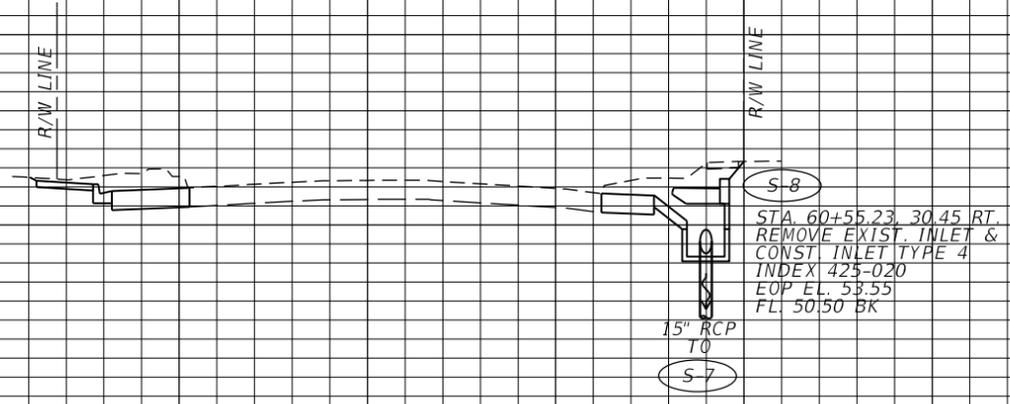
☐ COUNTRY CLUB RD.

62
60
58
56
54
52
50
48
46



S-9
63+30.41

62
60
58
56
54
52
50
48
46
44



S-8
60+55.23

☐ COUNTRY CLUB RD.

1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
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LAKE MARY, FLORIDA 32746

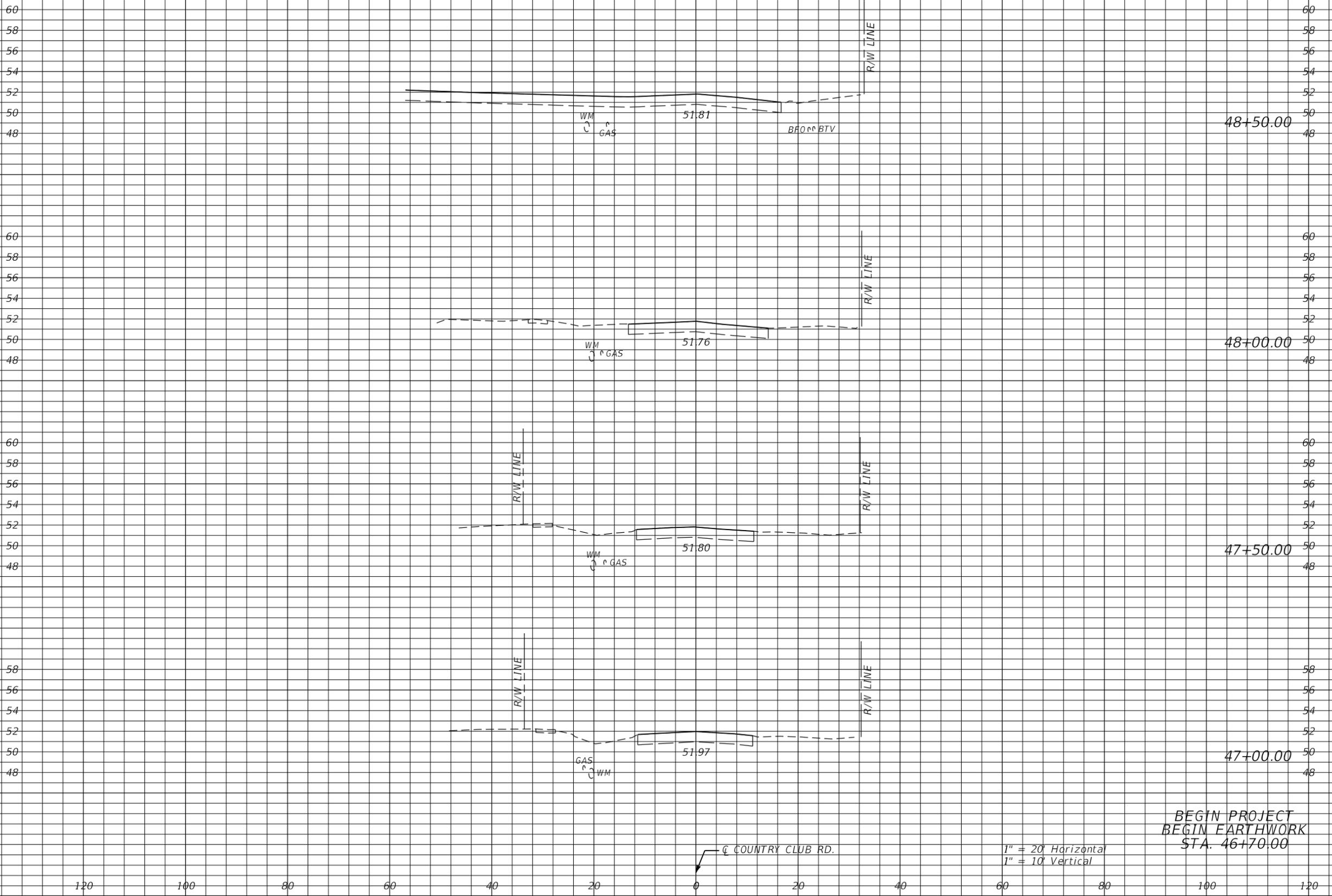
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

DRAINAGE STRUCTURES

SHEET NO.
15

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Exhibit "A" CLUB RD.



Regular		Exc.		Embankment	
A	V	A	V	A	V
0.0				0.0	
	0		0		0
0.0				0.0	
	0		0		0
0.0				0.0	
	0		0		0
0.0				0.0	
	0		0		0
0.0				0.0	

BEGIN PROJECT
BEGIN EARTHWORK
STA. 46+70.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

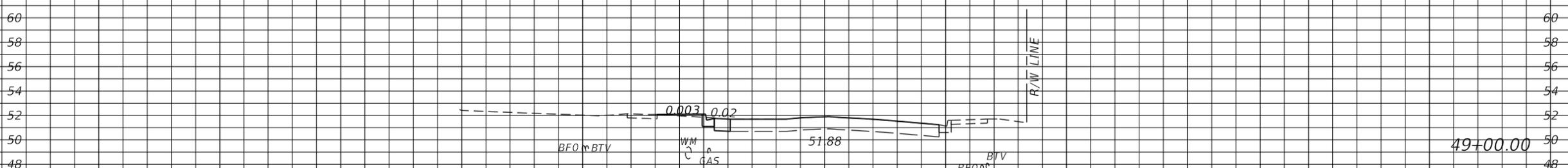
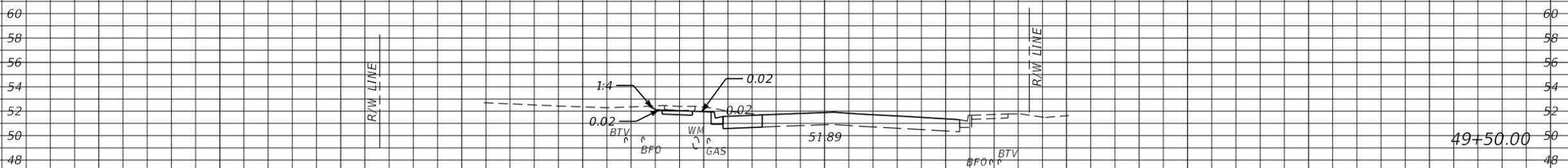
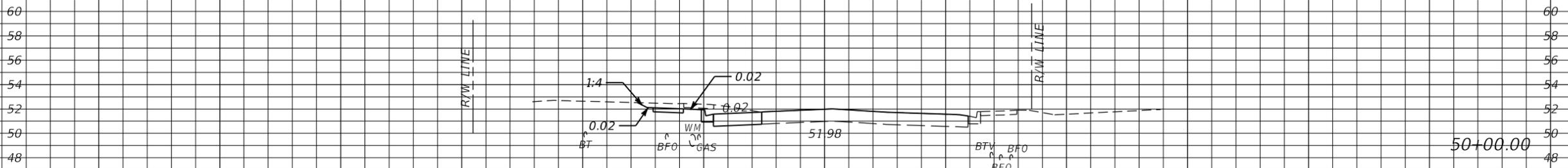
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
16

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Exhibit "A" CLUB RD.



BEGIN WIDENING
STA. 48+85.43

1" = 20' Horizontal
1" = 10' Vertical

Regular		Exc.		Embankment	
A	V	A	V	A	V
19.8				0.0	
	33				0
15.7				0.0	
	18				1
4.1				0.9	
	4				1

120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

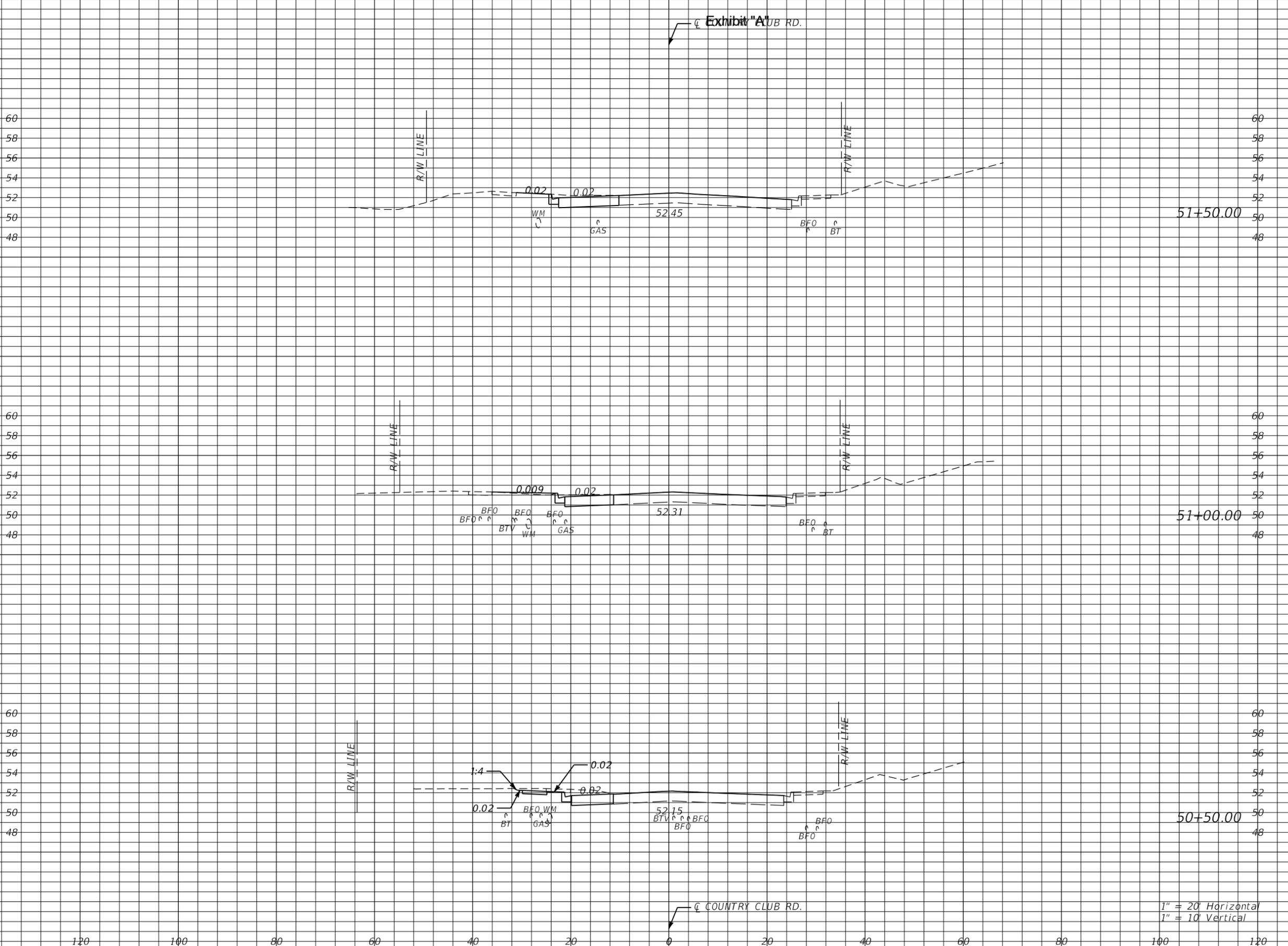
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P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
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LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
17

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Regular		Exc.		Embankment	
A	V	A	V	A	V
16.1	27	0	1		
12.7	29	1.5	1		
18.4	35	0.0	0		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

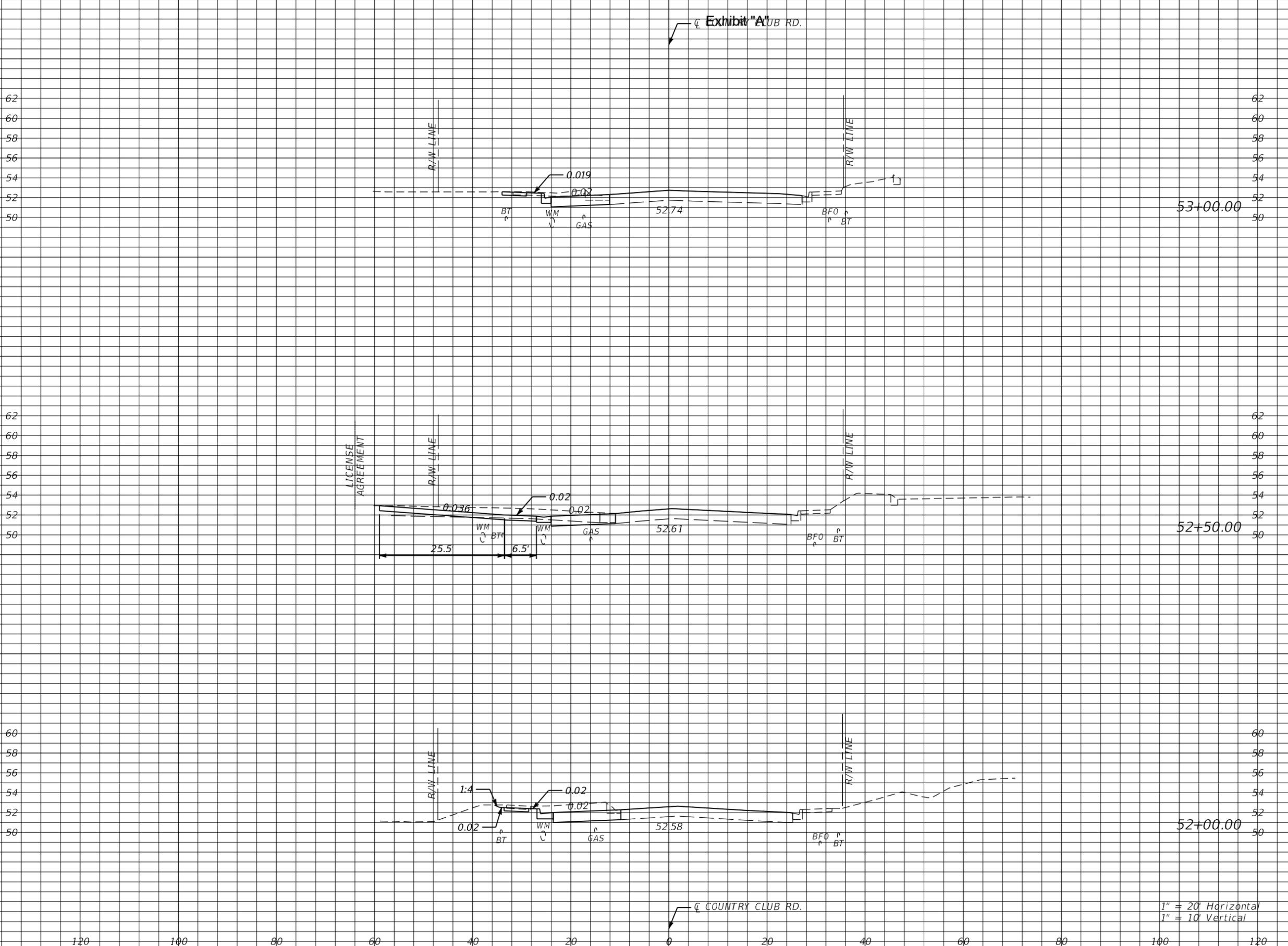
C. BRIAN FULLER, P.E.
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SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
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CROSS SECTIONS

SHEET NO.
18

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Regular		Exc.		Embankment	
A	V	A	V	A	V
19.8	65	0.0	0		
50.8	75	0.0	0		
30.4	43	0.0	0		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

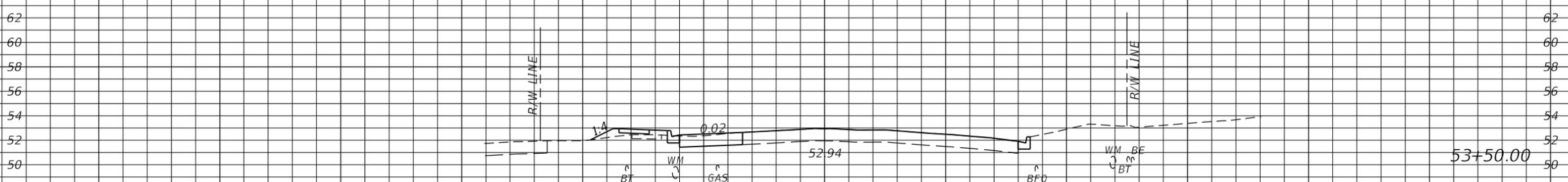
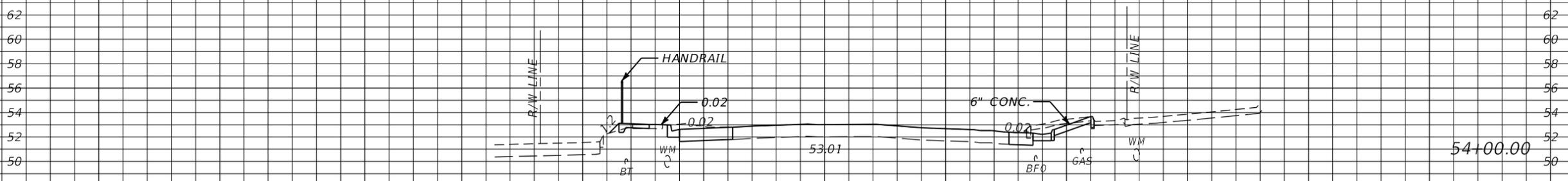
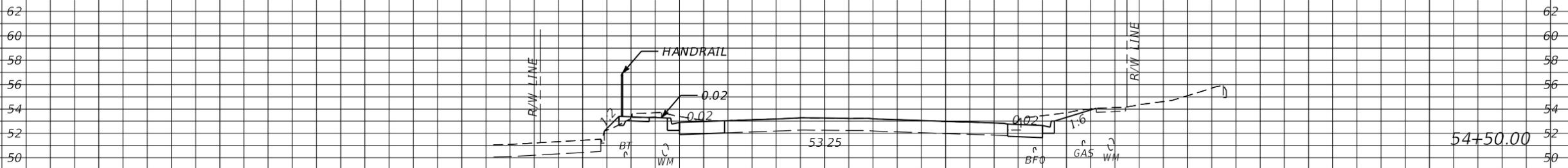
CROSS SECTIONS

SHEET NO.
19

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Exhibit "A" CLUB RD.

Regular		Exc.		Embankment	
A	V	A	V	A	V
28.0	57	0.9		1	
33.8	42	0.5		7	
11.9	29	6.6		6	



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

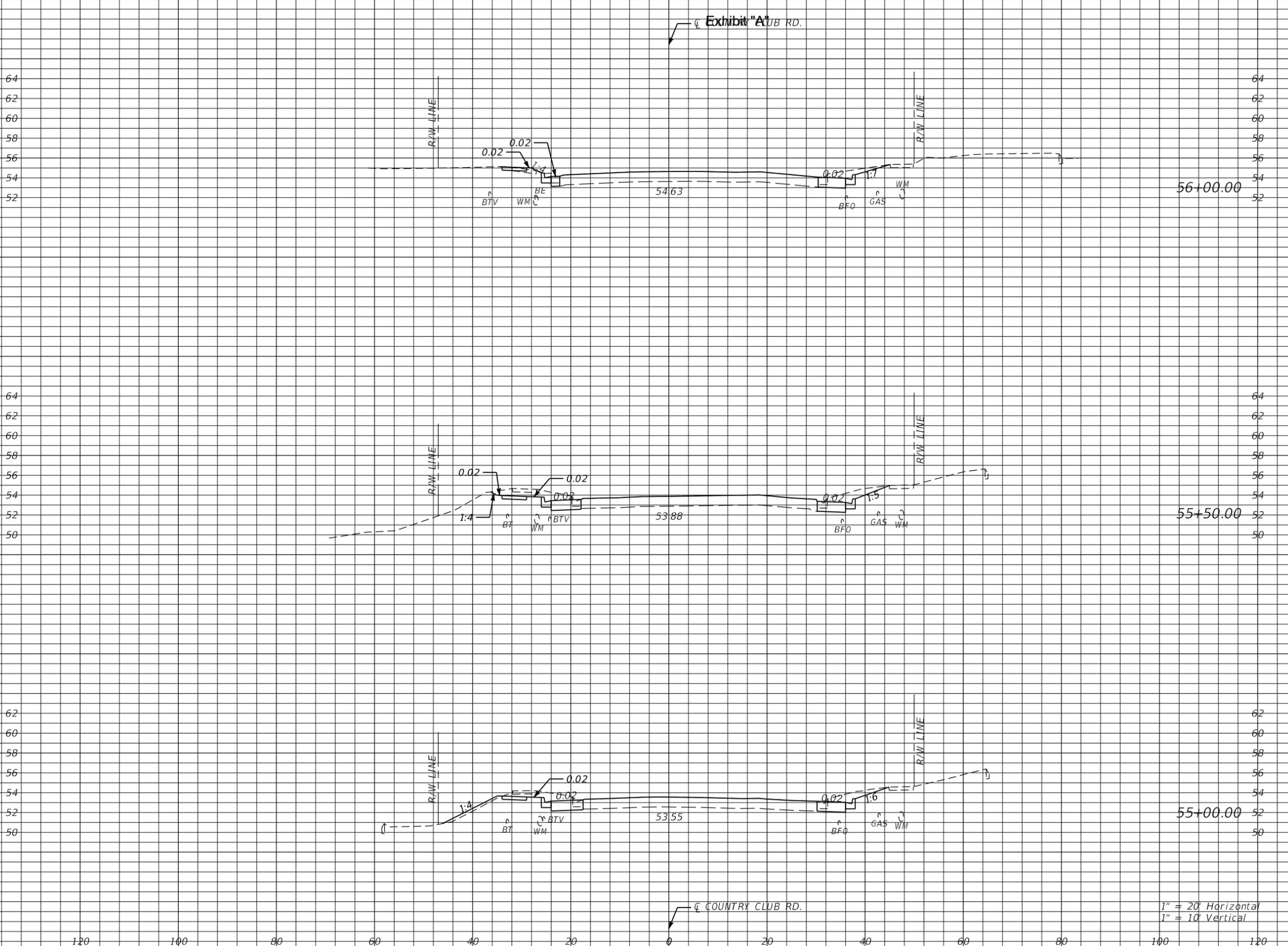
C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
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LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
17.6		0.0			
	48			0	
34.7		0.0			
	61			3	
31.1		2.9			
	55			4	

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

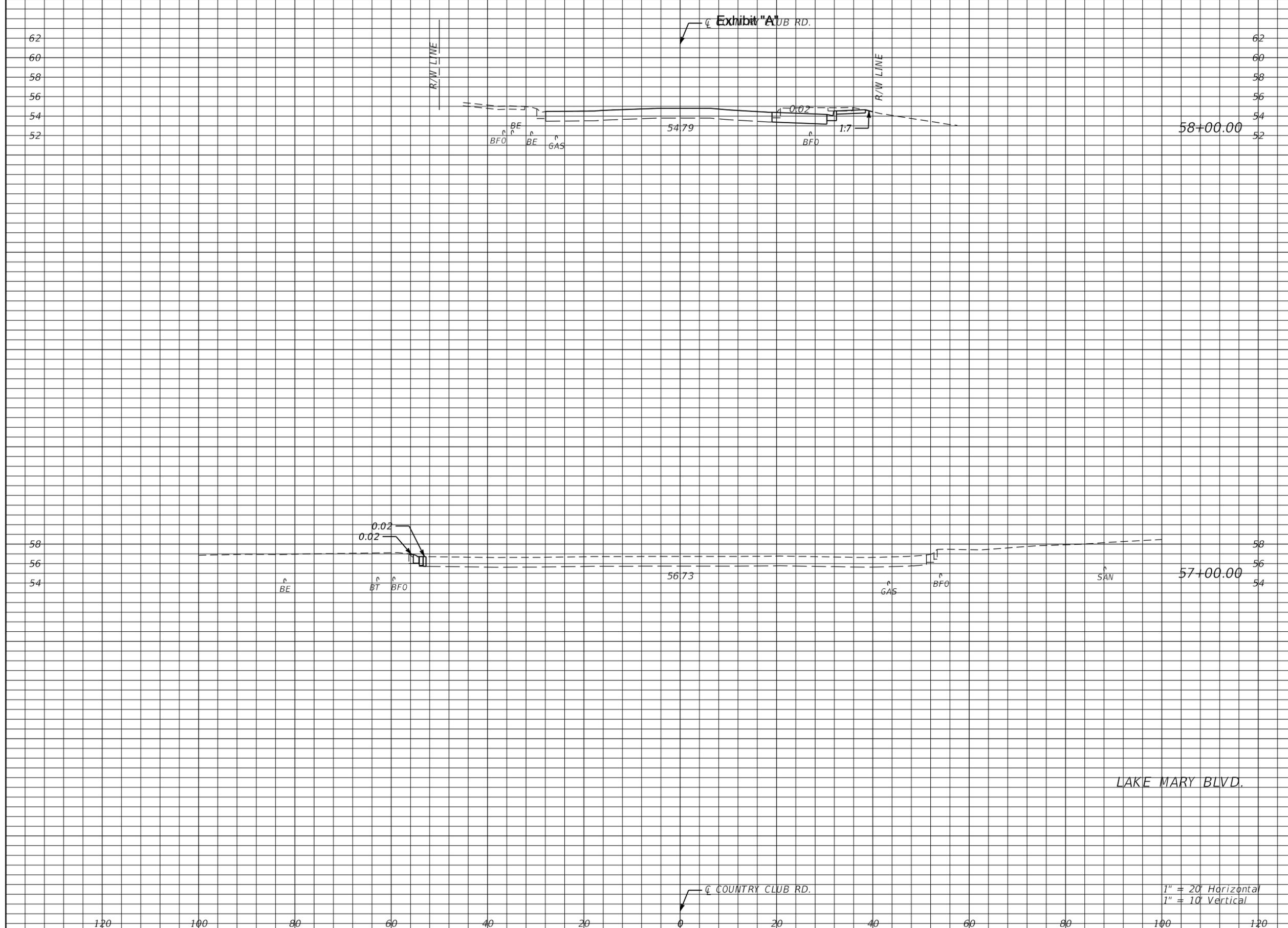
C. BRIAN FULLER, P.E.
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METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
21

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Regular		Exc.		Embankment	
A	V	A	V	A	V
23.3		0.0			
	47			0	
2.2		0.0			
	37			0	

LAKE MARY BLVD.

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

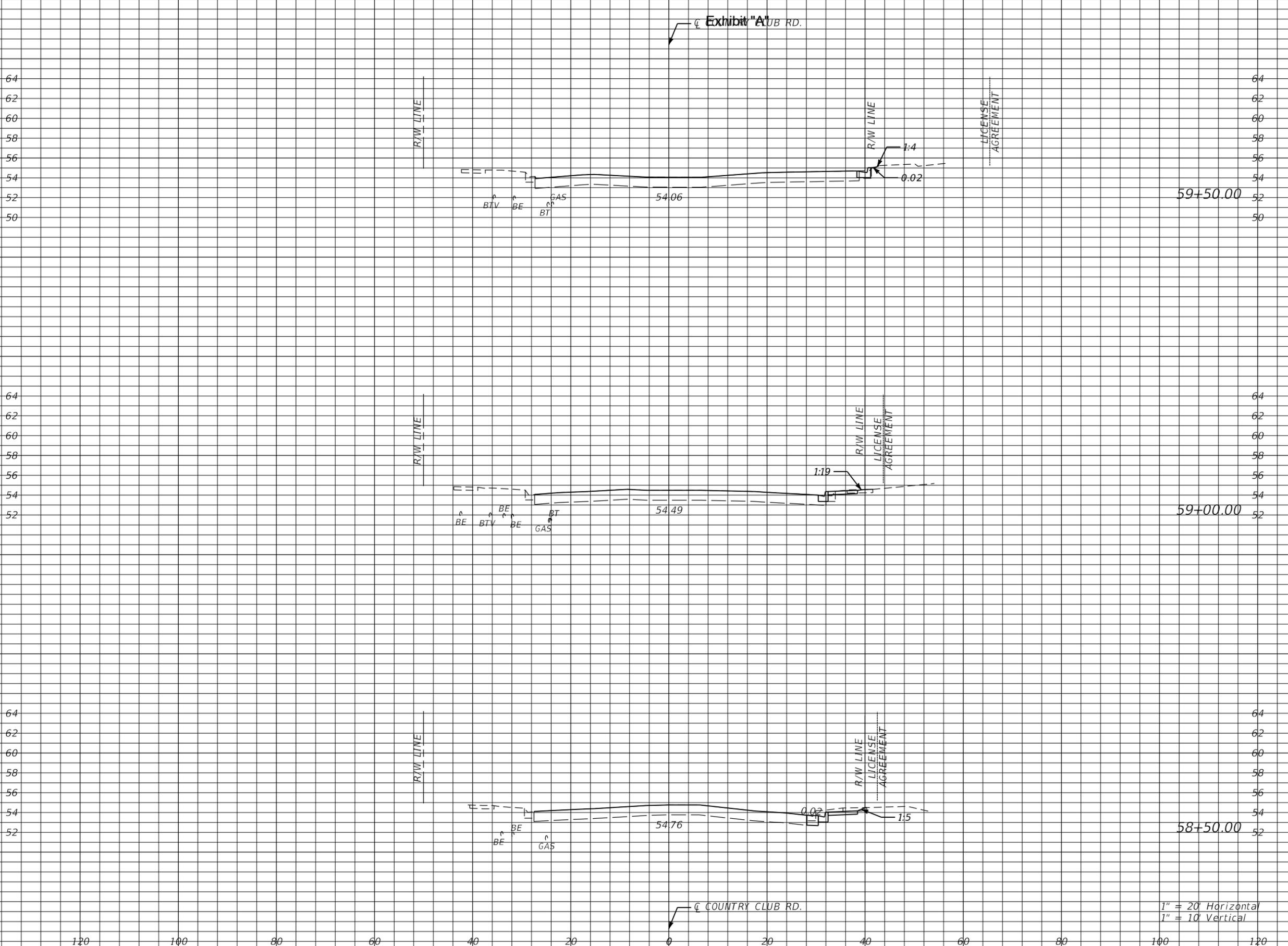
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SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
22

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Regular		Exc.		Embankment	
A	V	A	V	A	V
2.0		0.0			
	5		0		
3.1		0.0			
	11		0		
9.2		0.0			
	30		0		

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
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525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION

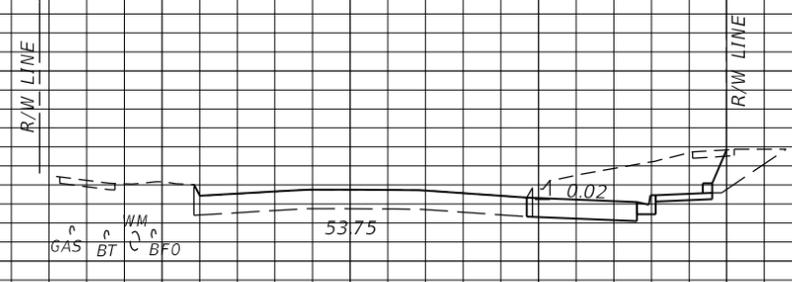
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
23

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62
60
58
56
54
52
50



62+50.00

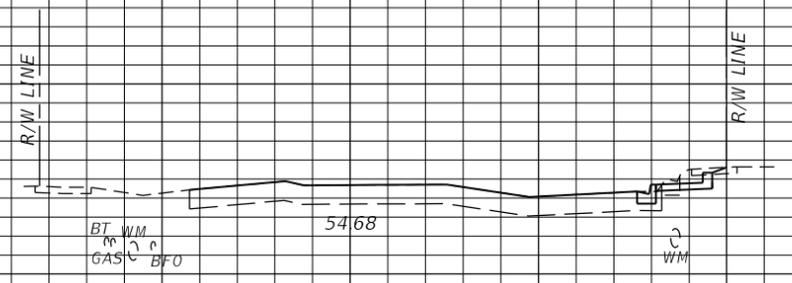
Regular		Exc.		Embankment	
A	V	A	V	A	V
56.4		0.0			
	52			0	
0.0		0.0			
	7			0	
7.7		0.0			
	24			0	

62
60
58
56
54
52



62+00.00

62
60
58
56
54
52



61+50.00

120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
25

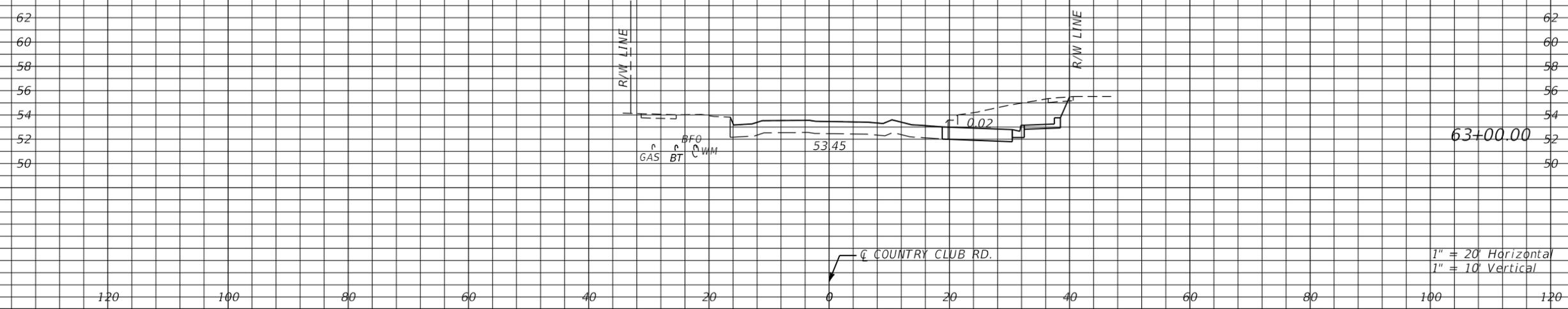
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

← Exhibit "A" ←
 ← COUNTRY CLUB RD.

Regular		Exc.		Embankment	
A	V	A	V	A	V

END PROJECT
 END WIDENING
 END EARTHWORK
 STA. 63+46.95

0.0		0.0			
	49			0	



1" = 20' Horizontal
 1" = 10' Vertical

← COUNTRY CLUB RD.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
 P.E. LICENSE NUMBER 49524
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

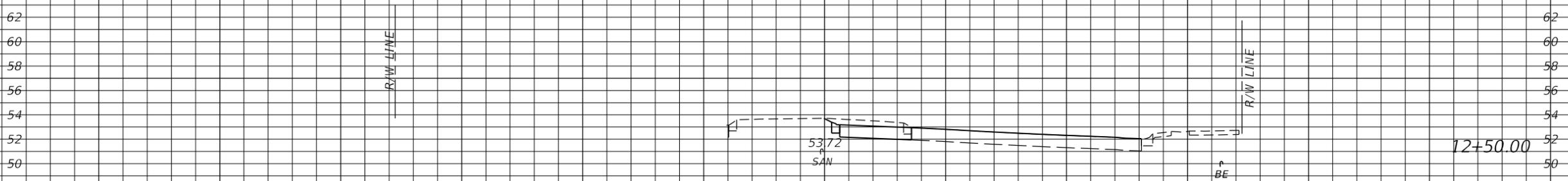
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

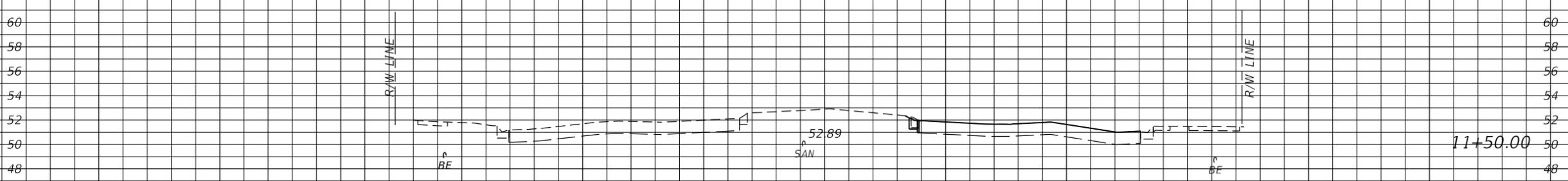
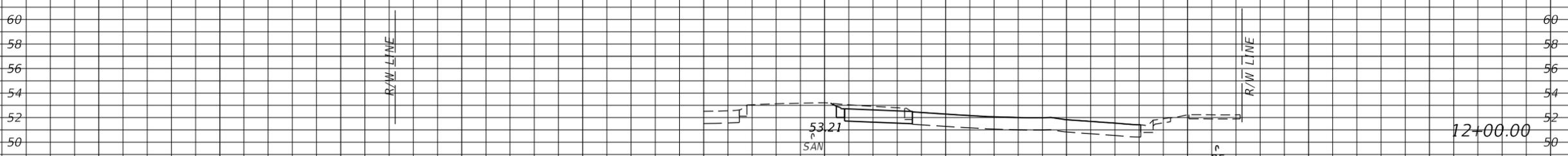
SHEET NO.
 26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CL LAKE MARY BLVD.
Exhibit A



Regular		Exc.		Embankment	
A	V	A	V	A	V
18.4		0.0		0	
	32				
15.9		0.0		0	
	16				
1.6		0.0		0	
	1				
0.0		0.0			



BEGIN EARTHWORK
BEGIN CONSTRUCTION
STA. 11+03.34

1" = 20' Horizontal
1" = 10' Vertical

120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

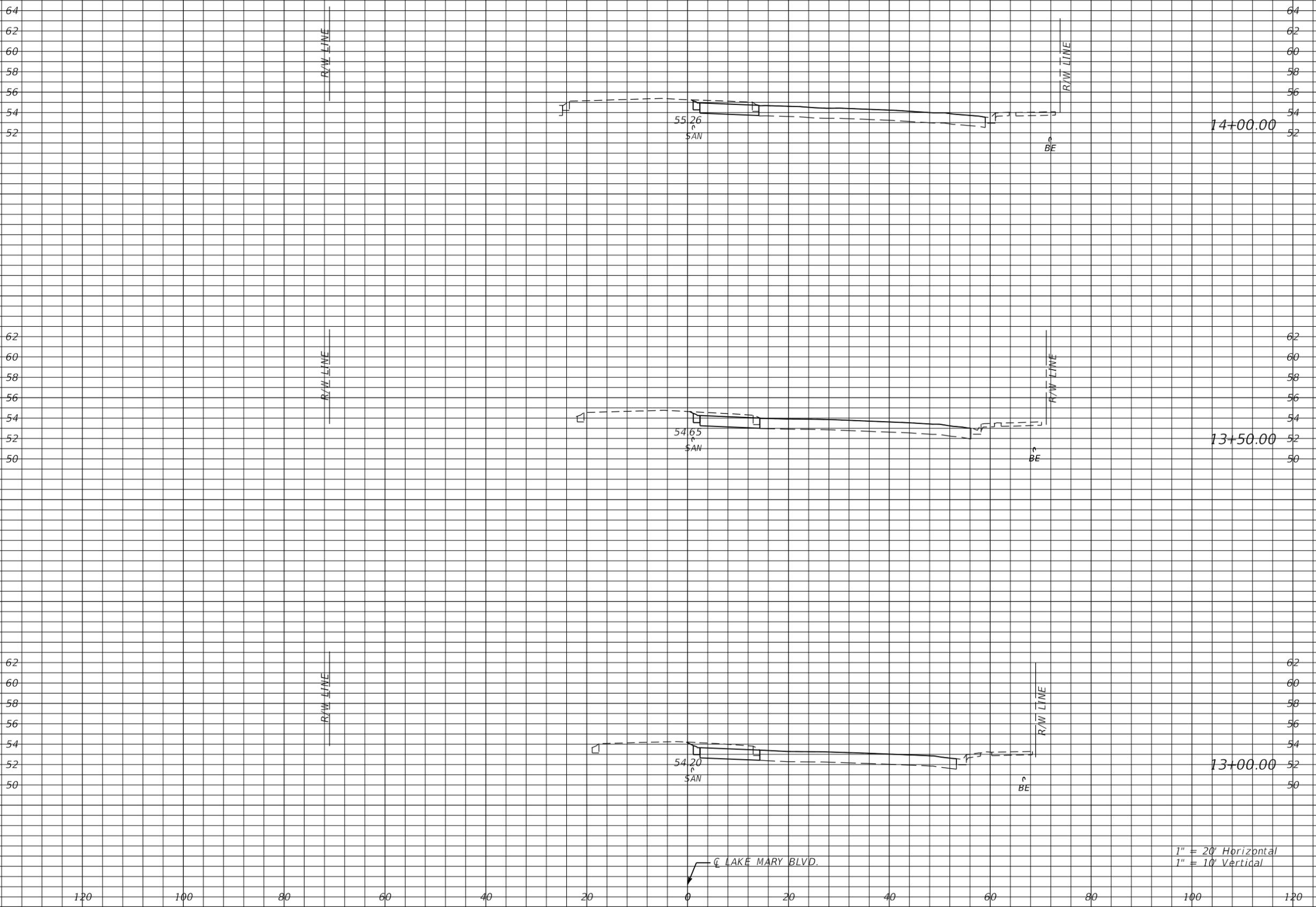
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CL LAKE MARY BLVD.
Exhibit A



Regular		Exc.		Embankment	
A	V	A	V	A	V
16.2		0.0			
	30				0
16.7		0.0			
	33				0
18.6		0.0			
	34				0

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

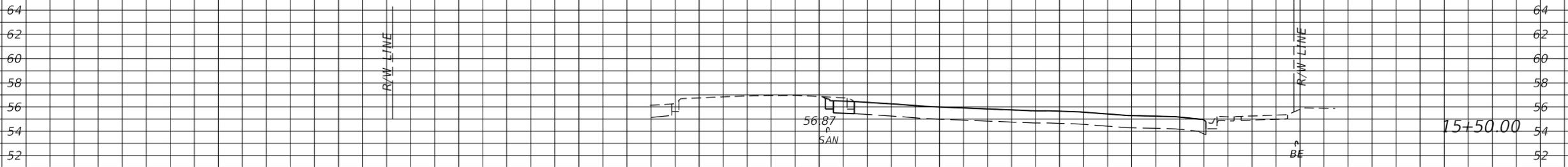
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

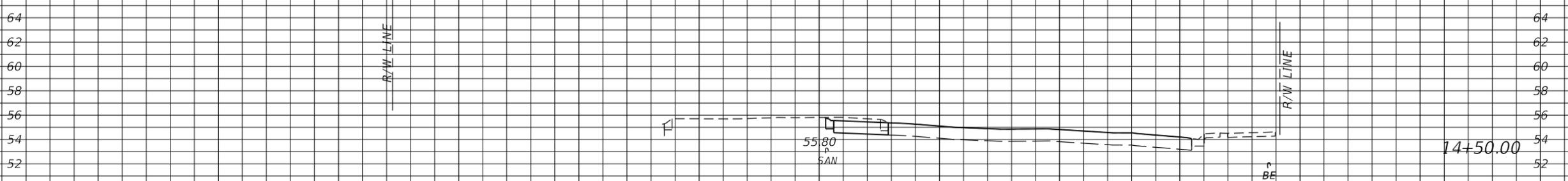
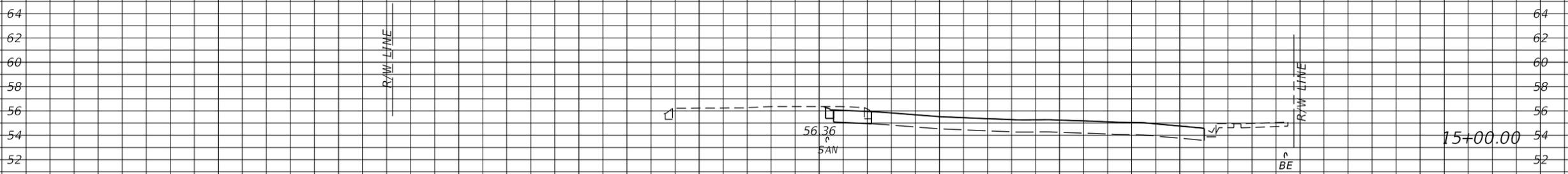
SHEET NO.
28

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CL LAKE MARY BLVD.
Exhibit A



Regular		Exc.		Embankment	
A	V	A	V	A	V
5.6	14	0.0	0	0.0	0
9.4	20	0.0	0	0.0	0
12.6	27	0.0	0	0.0	0



1" = 20' Horizontal
1" = 10' Vertical

120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION
PROJECT NAME: COUNTRY CLUB ROAD
PROJECT ID: 01785134

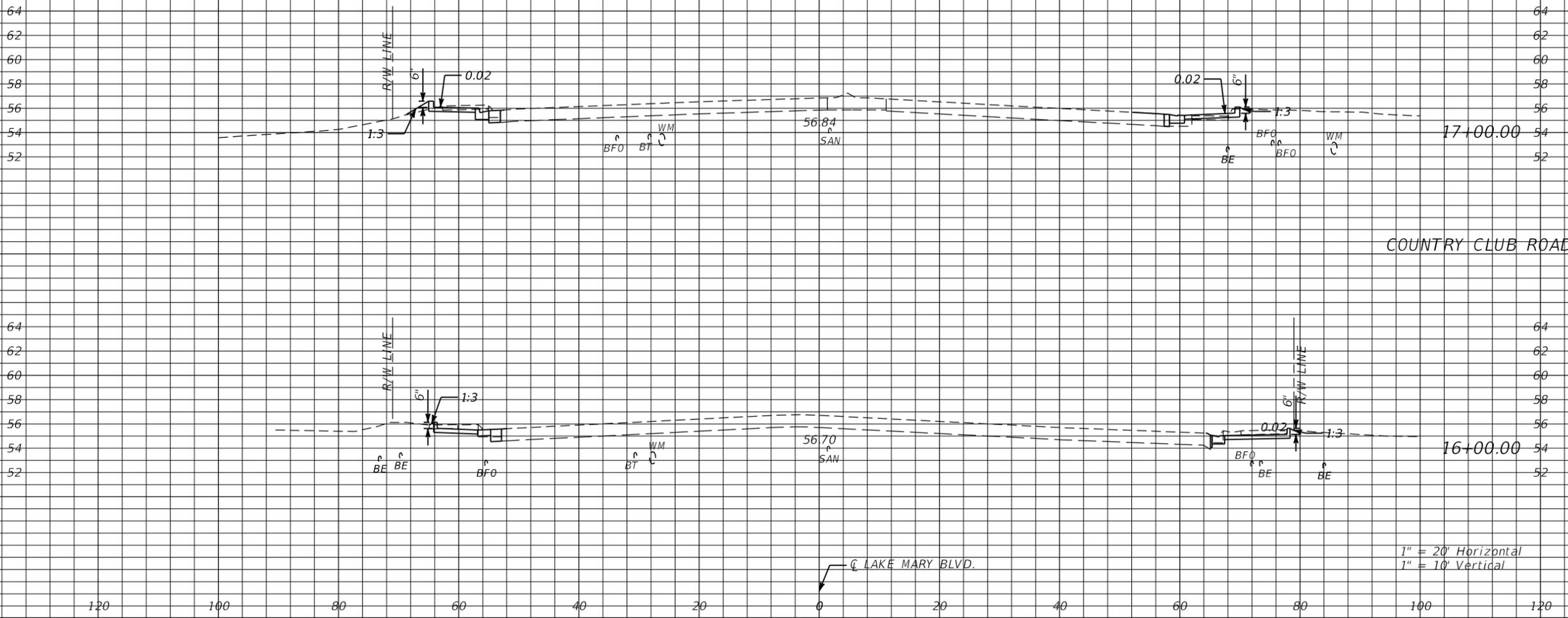
CROSS SECTIONS

SHEET NO.
29

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CL LAKE MARY BLVD.
Exhibit A

Regular		Exc.		Embankment	
A	V	A	V	A	V



END EARTHWORK
END CONSTRUCTION
STA. 17+35.99

COUNTRY CLUB ROAD

1" = 20' Horizontal
1" = 10' Vertical

0.0		0.0	
	7		3
9.9		4.1	
	42		9
12.7		0.7	
	17		1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

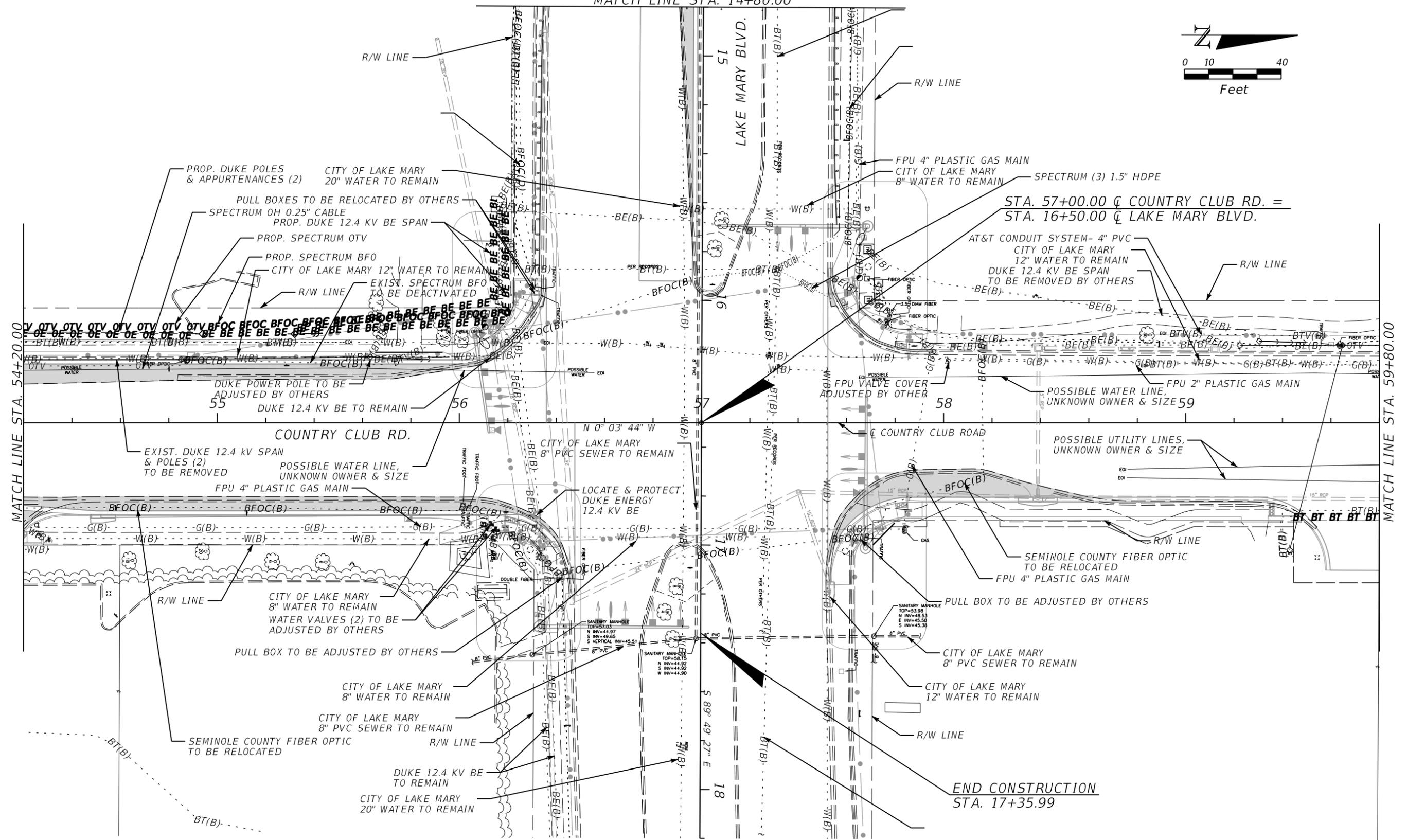
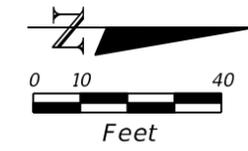
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

CROSS SECTIONS

SHEET NO.
30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"
MATCH LINE STA. 14+80.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

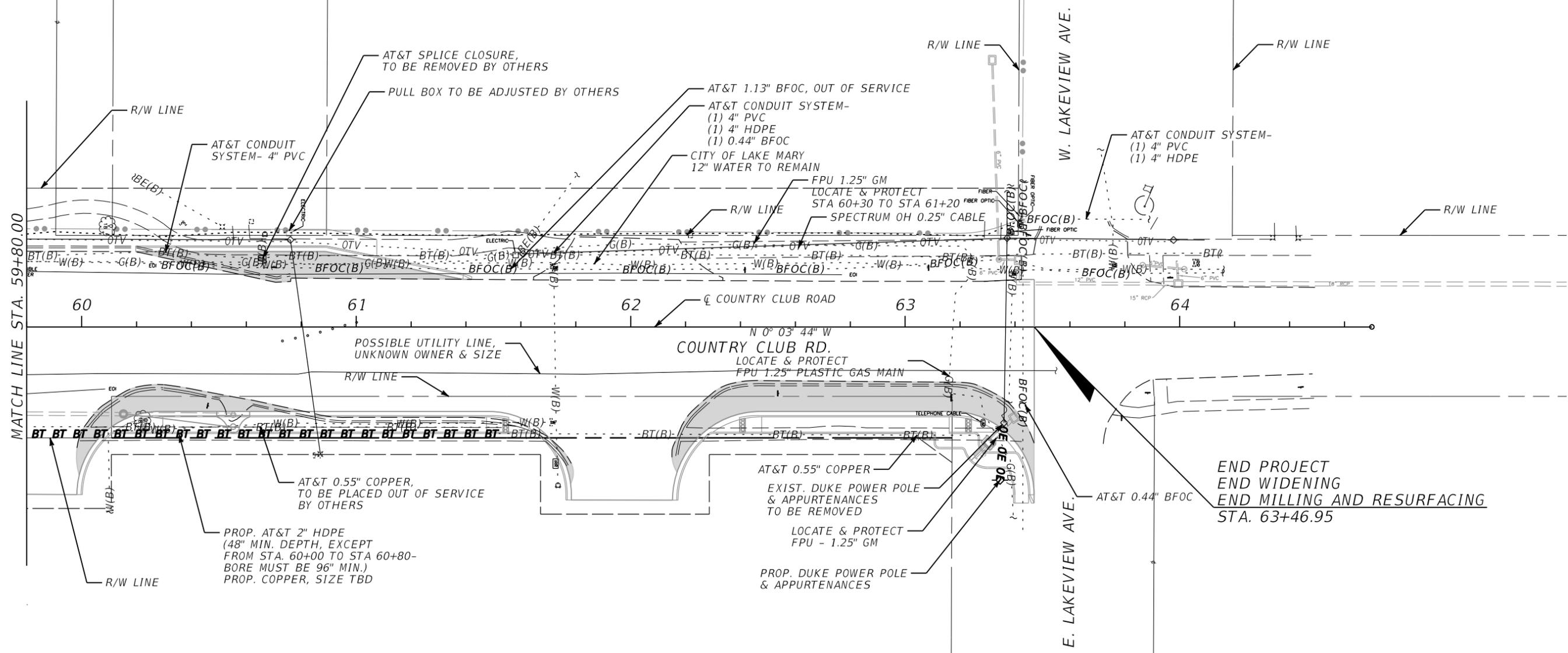
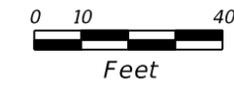
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

UTILITY ADJUSTMENT SHEET

SHEET NO.
32

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"



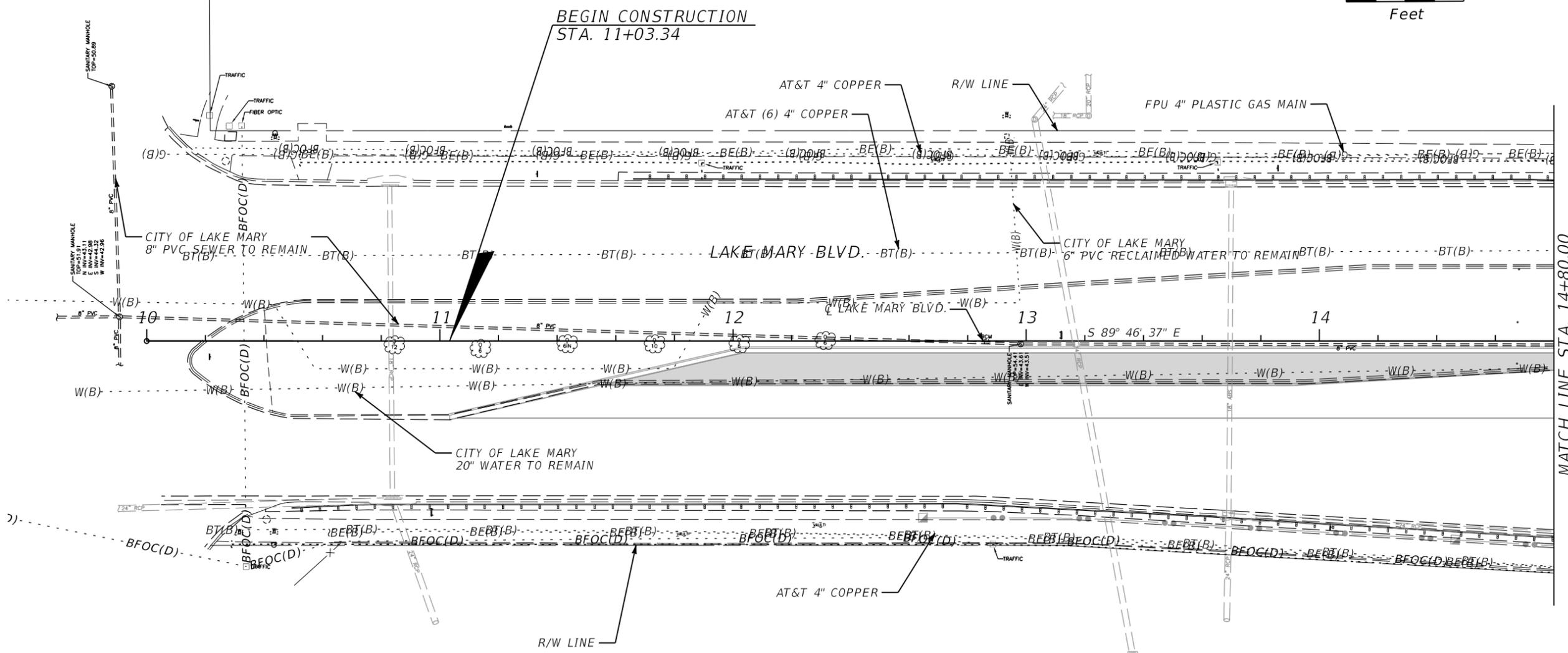
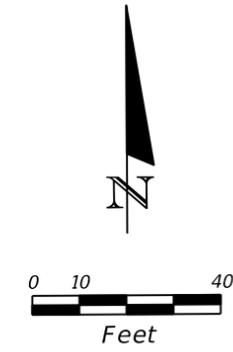
MATCH LINE STA. 59+80.00

END PROJECT
END WIDENING
END MILLING AND RESURFACING
STA. 63+46.95

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SHEET NO. 33
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID	
					COUNTRY CLUB ROAD	01785134	UTILITY ADJUSTMENT SHEET

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
 P.E. LICENSE NUMBER 49524
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

UTILITY ADJUSTMENT SHEET

SHEET NO.
34

PAY ITEM NOTES

Exhibit "A"

- 102-1 ALL ITEMS NECESSARY FOR TRAFFIC CONTROL NOT SPECIFICALLY INCLUDED IN THE SUMMARY OF PAY ITEMS ARE INCIDENTAL TO THE COST OF THIS PAY ITEM, I.E. SIGNS, BARRICADES, FLAGMAN, OFF-DUTY POLICE OFFICER AS NEEDED, ALL NECESSARY DETOUR FACILITIES, FURNISH AND INSTALL ALL TEMPORARY PAVEMENT AND TEMPORARY PAVEMENT MARKINGS, ETC. IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, STANDARD PLANS 102 SERIES & MUTCD LATEST PUBLISHED EDITION. ALSO INCLUDES THE COST OF THE MAINTENANCE OF TRAFFIC PLAN, SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO RESIDENCES, BUSINESSES AND SCHOOLS AT ALL TIMES. INCLUDES TEMPORARY PAINT PAVEMENT MARKINGS INSTALLATION DURING ASPHALT CURE PERIOD.

- 110-1-1 THE REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, VEGETATION, DEBRIS, FENCES, ASPHALT TREE RELOCATION, TRIMMING OF TREES AND SHRUBS AS NECESSARY AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT ARE INCIDENTAL TO THE COST OF THIS PAY ITEM. THE ADJUSTMENT OF THE EXISTING VALVE BOXES AND SEWER TOPS NOT SPECIFICALLY INCLUDED IN THE SUMMARY OF PAY ITEMS, RELOCATION OF THE EXISTING IRRIGATION HEADS AND LINES THAT IN CONFLICT WITH THE CONSTRUCTION ARE ALSO INCIDENTAL TO THE COST OF THIS PAY ITEM. CONTRACTOR TO COORDINATE LOCATION OF IRRIGATION SYSTEM WITH THE PROPERTY OWNER AND THE COUNTY. MAILBOX RELOCATION IS ALSO INCIDENTAL TO THE COST OF THIS PAY ITEM. NO TREES ARE TO BE REMOVED WITHOUT APPROVAL FROM THE COUNTY.

- 522-1 INCLUDES THE COST OF MONOLITHIC CAST CURB AND THICKENED EDGE.
- 522-2

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION		1		
0102 1	MAINTENANCE OF TRAFFIC		1		

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES								
LOCATION STA. TO STA.	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
			LF		EA			
			P	F	P	F		
46+72.45	LT.				1			
49+22.81	LT.				1			
51+02.95 TO 52+23.25	LT.	144.0						
52+50.05	LT.				1			
53+12.36	LT.				1			
53+02.61 TO 56+21.24	LT.	318.6						
57+70.85 TO 58+52.52	RT.	81.7						
58+38.92	RT.				1			
58+39.22	LT.				1			
60+11.17 TO 62+01.10	LT.	192.3						
60+55.23	RT.				1			
63+30.41	RT.				1			
63+41.50	LT.				1			
10+21.65 TO 16+03.39	RT.	582.0						
10+84.41	RT.				1			
13+71.89	RT.				1			
14+95.08	RT.				1			
16+89.72 TO 17+43.03	LT.	53.3						
17+00.29 TO 17+53.60	RT.	53.3						
17+17.22	LT.				1			
17+25.66	RT.				1			
SUB-TOTAL:			1425.2		14			
TOTAL:			1425		14			

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		SQ-1
					COUNTRY CLUB ROAD	01785134		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
					0107 1						0107 2							
	AREA ID				L	W	CYCLES	AREA		AREA ID	L	W	CYCLES	AREA				
								AC/CYCLE	TOTAL (AC)					AC/CYCLE	TOTAL (AC)			
	46+70.00 to 56+47.72	RT		30	11964													
	46+70.00 to 48+29.47	LT		30	11983													
	48+65.56 to 56+35.94	LT		30	11998													
	56+76.50 to 57+26.90	LT		30	12107													
	57+51.32 to 59+51.69	RT		30	11957													
	57+52.21 to 63+42.71	LT		30	12014													
	46+70.00 to 48+24.68	LT		30						12580					0.055			
	46+70.00 to 48+35.76	RT		30						12628					0.074			
	47+78.04 to 48+15.19	LT		30						12492					0.009			
	48+23.04 to 48+23.04	LT		30						12477					0.004			
	48+65.56 to 48+80.70	LT		30						12513					0.005			
	48+67.63 to 51+56.53	RT		30						12639					0.011			
	48+85.26 to 52+26.24	LT		30						12357					0.216			
	48+87.68 to 49+41.02	LT		30						12499					0.008			
	50+68.63 to 51+94.15	LT		30						12517					0.024			
	56+77.97 to 57+25.55	LT		30						12417					0.241			
	57+65.42 to 57+73.85	LT		30						12528					0.049			
	57+91.25 to 60+33.64	LT		30						12667					0.037			
	58+07.30 to 59+90.65	LT		30						12359					0.033			
	59+90.57 to 60+11.20	LT		30						12693					0.004			
	60+11.17 to 60+27.25	LT		30						12688					0.001			
	61+07.47 to 61+75.16	LT		30						12652					0.010			
	62+22.94 to 63+29.35	LT		30						12570					0.020			
					SUB-TOTAL:		1.493						SUB-TOTAL:		0.801			
					TOTAL:		1.49						TOTAL:		0.80			

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION <hr/> PROJECT NAME: COUNTRY CLUB ROAD PROJECT ID: 01785134	SUMMARY OF QUANTITIES	SHEET NO. SQ-2
REVISIONS																			
DATE	DESCRIPTION	DATE	DESCRIPTION																

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Exhibit "A"

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				AREA (AC)	P	F	P	F		
0110 1 1	CLEARING AND GRUBBING	46+67.85 to 46+83.77	LT	15127	LS/AC	0.002	1.000		1.000		TOTAL = 0.593 AC	
		48+86.06 to 52+08.68	LT	15090		0.078						
		49+41.54 to 50+64.76	LT	14670		0.011						
		52+09.60 to 52+94.34	LT	16494		0.048						
		52+76.07 to 55+74.45	LT	14861		0.016						
		53+01.06 to 56+15.01	LT	15068		0.062						
		53+65.73 to 54+27.38	RT	16439		0.025						
		54+19.67 to 56+32.45	RT	14768		0.025						
		56+39.98 to 56+45.34	RT	14786		0.002						
		56+74.29 to 56+96.38	LT	14889		0.143						
		56+88.19 to 57+00.16	LT	14885		0.081						
		57+50.12 to 57+55.74	RT	15129		0.001						
		57+64.01 to 59+35.54	RT	14711		0.025						
		60+03.28 to 61+54.10	RT	15039		0.019						
		60+21.92 to 61+42.08	LT	14754		0.015						
		62+20.28 to 63+42.14	RT	15018		0.040						
0110 4 10	REMOVAL OF EXISTING CONCRETE	49+41.02 to 50+68.63	LT	11621	SY		73.1		1181		EXISTING SIDEWALK	
		51+87.48 to 56+35.94	LT	16862			356.0				EXISTING SIDEWALK, VALLEY GUTTER, AND CURB	
		53+45.58 to 53+80.87	RT	11601			15.8				EXISTING CURB	
		53+51.36 to 53+74.41	RT	15999			13.1				EXISTING SIDEWALK	
		53+83.22 to 54+06.90	RT	16628			3.8				EXISTING CURB	
		53+89.89 to 53+99.83	RT	16407			1.7				EXISTING CURB	
		53+51.64 to 56+47.64	RT	16564			138.2				EXISTING SIDEWALK, VALLEY GUTTER, AND CURB	
		56+76.16 to 57+09.80	LT	16045			72.6				EXISTING CURB	
		57+52.19 to 57+97.30	LT	15706			56.8				EXISTING SIDEWALK AND CURB	
		57+51.52 to 59+54.22	RT	15451			160.9				EXISTING SIDEWALK AND CURB	
		59+99.31 to 61+78.40	RT	15386			133.2				EXISTING SIDEWALK AND CURB	
		60+19.68 to 60+76.14	LT	15642			12.5				EXISTING CURB	
		60+32.50 to 61+07.51	LT	11508			49.6				EXISTING SIDEWALK	
		62+16.21 to 63+46.90	RT	15563			93.7				EXISTING SIDEWALK AND CURB	

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		CY TOTAL	DESIGN NOTES	CONSTRUCTION REMARKS
		P	F			
0120 1	REGULAR EXCAVATION			1417		
		1144			COUNTRY CLUB RD	
		273			LAKE MARY BLVD	
120 6	EMBANKMENT			38		
		25			COUNTRY CLUB RD	
		13			LAKE MARY BLVD	

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

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Exhibit "A"

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	TYPE B STABILIZATION	52+48.95 to 52+48.95		LT	6008			SY	1053.1		2433			
		53+45.25 to 56+43.67		RT	17076				379.5					
		56+86.88 to 57+03.72		LT	6106				430.4					
		57+51.32 to 58+60.75		RT	5966				131.9					
		57+52.18 to 57+57.64		LT	5989				5.5					
		59+99.11 to 61+78.40		RT	5939				119.7					
		60+19.68 to 61+39.34		LT	5899				109.6					
		62+15.11 to 63+46.97		RT	5906				202.9					
285709	OPTIONAL BASE, BASE GROUP 9	48+85.70 to 56+16.89		LT	10796			SY	713.9		1846			
		52+10.45 to 52+87.08		LT	10826				168.1					
		53+51.54 to 56+43.67		RT	17113				143.4					
		53+59.80 to 54+29.03		RT	17128				52.5					
		56+34.03 to 56+35.69		LT	10756				0.2					
		56+86.88 to 56+98.23		LT	10833				358.2					
		56+99.61 to 57+09.84		LT	10837				0.3					
		57+51.45 to 58+60.75		RT	10732				98.6					
		57+52.18 to 57+55.78		LT	10759				1.6					
		59+99.11 to 60+81.10		RT	10691				65.3					
		60+19.68 to 61+38.88		LT	10686				78.4					
		61+70.26 to 61+78.40		RT	10749				2.6					
		62+15.11 to 63+46.97		RT	10706				163.1					
		0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	46+70.00 to 56+47.72		LT/RT	18051			SY		4442.5		8702
56+74.29 to 56+97.19				LT	18081				695.5					
57+51.32 to 63+46.98				LT/RT	18088				3564.3					
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	48+85.70 to 56+16.89		LT	10117			TN	78.52		178.8			
		53+51.54 to 56+43.67		RT	16996				15.80					
		56+34.03 to 56+35.69		LT	10249				0.02					
		56+86.88 to 56+98.23		LT	10232				39.40					
		56+99.61 to 57+09.84		LT	10236				0.04					
		57+51.45 to 58+60.75		RT	10162				10.84					
		57+52.18 to 57+55.78		LT	10241				0.18					
		59+99.11 to 60+81.10		RT	10184				7.18					
		60+19.68 to 61+38.88		LT	10179				8.62					
		61+70.26 to 61+78.40		RT	10225				0.28					
62+15.11 to 63+46.97		RT	10199				17.94							
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	46+70.00 to 56+47.72		LT/RT	17145			TN	291.41		584.0			
		52+10.45 to 52+87.08		LT	10555				9.25					
		53+59.80 to 54+29.03		RT	17175				5.94					
		56+74.29 to 56+96.38		LT	10577				58.84					
		57+52.18 to 63+46.98		LT/RT	10607				218.55					

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		SQ-4
					COUNTRY CLUB ROAD	01785134		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"

SUMMARY OF DRAINAGE STRUCTURES

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL				CURB INLETS			MANHOLES	DITCH BOTTOM INLETS	REMARKS	CONSTRUCTION REMARKS	
						ROUND		ELLIPTICAL	ELLIPTICAL	P-4	P-5	P-6	P-8	C			
						15"	18"	14"x23"	19"x30"	<10'	<10'	<10'	<10'	<10'			
P	S-1	46+72.45	LT.	DBI, PIPE	1				8					1	CONN. TO EXIST. PIPE W/ CONC. JACKET (ALT. A, DIA. 6.0)		
F																	
P	S-2	49+22.81	LT.	INLET, PIPE	1			249				1					
F																	
P	S-3	52+50.05	LT.	MANHOLE, PIPE	1		8					1			CONN. TO EXIST. PIPE W/ CONC. JACKET		
F																	
P	S-4	53+12.36	LT.	INLET, PIPE	1		60					1					
F																	
P	S-10	54+50.00	RT.	INLET, PIPE	1		180					1					
F																	
P	S-11	56+32.12	RT.	MANHOLE, PIPE	1		8					1			CONN. TO EXIST. PIPE W/ CONC. JACKETS		
F																	
P	S-5														SEE SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS TABLE		
F																	
P	S-6	58+38.92	RT.	PIPE, INLET, PIPE	1	24						1			CONN. TO EXIST PIPES W/ CONC. JACKET (CAST IN-PLACE TOP)		
F																	
P	S-7	60+15.23	RT.	MANHOLE, PIPE	1	8						1			CONN. TO EXIST. PIPE W/ CONC. JACKET		
F																	
P	S-8	60+55.23	RT.	INLET, PIPE	1	38						1					
F																	
P	S-9	63+30.41	RT.	DBI, PIPE	1	8								1	CONN. TO EXIST PIPE W/ CONC. JACKET		
F																	
Total:						78	256	249	8	1	2	2	3	2			

SUMMARY OF MISCELLANOUS DRAINAGE ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA.	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425 4	INLETS, ADJUST	17+17.22	LT	EA	1		1		Structure S-5	

SUMMARY OF RAILING

LOCATION	SIDE	PIPE HANDRAIL - GUIDERAIL (ALUMINUM)	DESIGN NOTES	CONSTRUCTION REMARKS
		0515 1 2		
STA. TO STA.		LF		
		P F		
53+91.48 to 54+96.66	LT	105.2		
55+65.13 to 55+93.13	LT	28.0		
SUB-TOTAL:		133.2		
TOTAL:		133		

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

C. BRIAN FULLER, P.E.
P.E. LICENSE NUMBER 49524
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION
PROJECT NAME: COUNTRY CLUB ROAD
PROJECT ID: 01785134

SUMMARY OF QUANTITIES

SHEET NO.
SQ-5

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	48+86.53 to 52+30.25	LT		LF	377.0			377.0		1965			
		52+28.75 to 52+28.75	LT			0.6			0.6					
		52+67.75 to 56+21.99	LT			376.7			376.7					
		53+51.54 to 53+79.40	RT			52.3			52.3					
		54+09.18 to 56+24.83	RT			236.9			236.9					
		56+17.87 to 56+18.12	LT			0.5			0.5					
		56+18.96 to 56+19.03	RT			0.5			0.5					
		56+21.23 to 56+30.11	LT			29.1			29.1					
		56+24.37 to 56+24.53	RT			0.5			0.5					
		56+24.37 to 56+33.78	RT			23.8			23.8					
		56+30.10 to 56+34.44	LT			16.8			16.8					
		56+32.31 to 56+32.78	LT			0.5			0.5					
		56+33.99 to 56+46.22	RT			29.2			29.2					
		57+52.82 to 59+58.23	RT			245.1			245.1					
		57+53.81 to 57+97.27	LT			65.7			65.7					
		57+56.38 to 57+56.84	LT			0.5			0.5					
		59+99.79 to 61+76.89	RT			212.9			212.9					
60+19.68 to 61+42.07	LT			123.9			123.9							
62+16.75 to 63+46.95	RT			172.2			172.2							
0520 2 1	CONCRETE CURB, TYPE A	11+03.33 to 15+93.97	LT/RT		LF	506.7			506.7		1014			
		56+77.62 to 57+09.83	LT			507.3			507.3					
0520 2 2	CONCRETE CURB, TYPE B	53+86.90 to 53+92.90	RT		LF	16.5			16.5		61			
		53+86.90 to 53+88.70	RT			4.4			4.4					
		53+88.70 to 54+02.70	RT			14.0			14.0					
		53+92.90 to 53+96.79	RT			5.4			5.4					
		53+96.79 to 54+04.18	RT			16.4			16.4					
		54+02.70 to 54+04.18	RT			4.4			4.4					
0520 3	VALLEY GUTTER - CONCRETE	52+10.39 to 52+87.07	LT		LF	76.7			76.7		144			
		53+61.39 to 54+28.66	RT			67.4			67.4					

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746		SEMINOLE COUNTY ENGINEERING DIVISION <hr/> PROJECT NAME: COUNTRY CLUB ROAD PROJECT ID: 01785134		SUMMARY OF QUANTITIES		SHEET NO. SQ-6
REVISIONS																						
DATE	DESCRIPTION	DATE	DESCRIPTION																			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522	1	0522	2	0527	2		
					SY		SY		SF			
					P	F	P	F	P	F		
49+41.04 to 50+68.63	LT	4735			72.7							
51+94.15 to 51+96.84	LT	4679			1.5							
53+01.25 to 56+00.73	LT	4684			181.1							
55+91.87 to 56+11.87	RT	4697			11.9							
56+35.43 to 56+45.72	RT	4702			10.2							
57+54.31 to 57+65.42	LT	4707			9.4							
57+90.58 to 59+28.46	RT	4719			91.9							
57+90.89 to 57+97.30	LT	4712			3.9							
60+29.56 to 61+47.48	RT	4725			78.6							
60+32.50 to 61+07.54	LT	4746			50.3							
62+47.73 to 63+16.05	RT	4730			45.5							
51+96.19 to 52+17.84	LT	4649					9.9					
52+79.91 to 53+01.25	LT	4643					9.9					
53+51.40 to 53+78.63	RT	4412					12.6					
53+92.20 to 54+00.95	RT	4407					3.9					
54+14.55 to 54+28.22	RT	4420					6.2					
56+00.73 to 56+33.94	LT	4618					40.6					
56+11.87 to 56+45.71	RT	4609					33.0					
57+53.32 to 57+90.57	RT	4600					38.9					
57+54.31 to 57+91.21	LT	4631					35.8					
59+28.46 to 59+47.47	RT	4593					8.7					
60+10.54 to 60+29.56	RT	4581					8.7					
61+47.48 to 61+66.13	RT	4587					8.5					
62+28.84 to 62+47.72	RT	4569					8.5					
63+16.04 to 63+34.69	RT	4575					8.5					
63+26.45 to 63+40.39	RT	9562					7.5					
52+09.86 to 52+16.86	LT	4178						12.8				
52+80.30 to 52+87.50	LT	4183						13.1				
53+74.93 to 53+78.43	RT	4188						9.6				
54+15.35 to 54+21.20	RT	4194						11.8				
56+16.84 to 56+21.87	LT	4216						9.5				
56+18.69 to 56+24.69	RT	4206						11.4				
56+28.39 to 56+32.30	LT	4211						10.7				
56+32.85 to 56+38.16	RT	4201						10.9				
57+56.84 to 57+60.81	LT	4226						9.7				
57+59.77 to 57+64.38	RT	7633						9.5				
57+79.95 to 57+84.79	LT	4221						9.1				
57+80.08 to 57+85.03	RT	7628						9.5				
59+34.46 to 59+36.46	RT	4241						9.8				
60+21.56 to 60+23.56	RT	4246						9.8				
61+53.48 to 61+55.48	RT	4251						9.6				
62+39.72 to 62+41.72	RT	4256						9.6				
SUB-TOTAL:					557.0		241.2		166.4			
TOTAL:					557		243		166			

REVISIONS				C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		SQ-7
					COUNTRY CLUB ROAD	01785134		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"

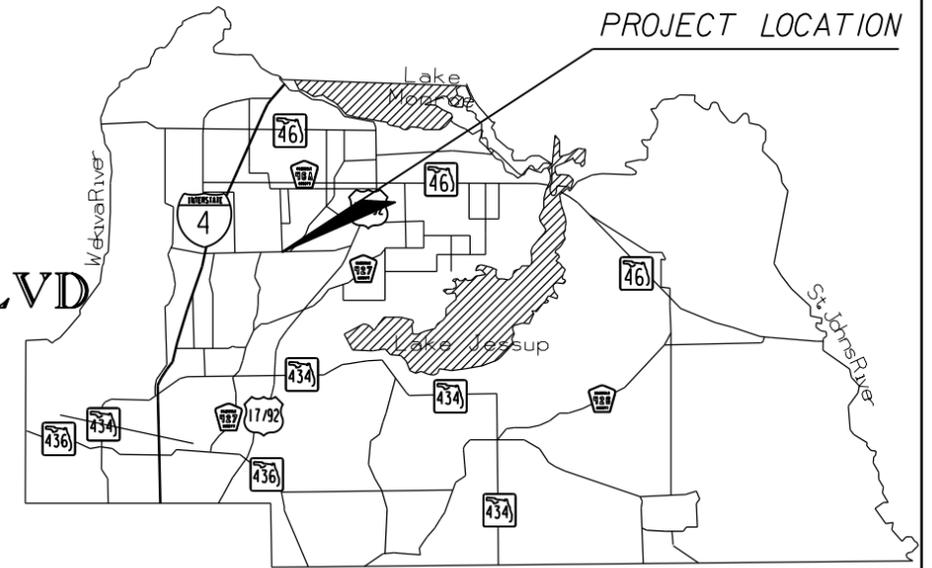
SUMMARY OF PERFORMANCE TURF								
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
49+40.61 to 50+73.88	LT	5251			47.5			
49+41.54 to 50+64.76	LT	5262			70.0			
51+94.05 to 52+09.98	LT	5272			4.1			
51+94.30 to 52+26.24	LT	5278			42.7			
52+70.51 to 55+74.80	LT	5567			326.4			
52+87.51 to 56+00.94	LT	5284			101.3			
53+43.85 to 53+78.22	RT	5357			49.2			
53+88.33 to 54+06.98	RT	5373			19.7			
53+93.13 to 53+98.27	RT	5380			1.9			
54+20.14 to 56+11.87	RT	5385			135.7			
55+84.33 to 56+22.43	LT	5301			51.8			
55+91.87 to 56+30.18	RT	5392			15.0			
56+20.81 to 56+30.80	RT	5400			5.5			
56+30.66 to 56+39.72	RT	5406			25.5			
56+40.50 to 56+45.47	RT	5415			4.2			
56+77.59 to 57+07.97	LT	9432			401.4			
57+54.06 to 57+60.59	LT	5536			5.3			
57+60.31 to 57+71.38	LT	5498			23.9			
57+61.60 to 57+70.84	RT	5420			17.5			
57+65.05 to 57+98.02	LT	5523			42.4			
57+70.81 to 57+80.85	RT	5427			4.0			
57+78.92 to 59+48.86	RT	5432			28.2			
59+44.59 to 59+54.59	RT	5444			5.8			
60+00.29 to 60+10.85	RT	5452			11.4			
60+09.16 to 61+70.63	RT	5459			87.9			
60+27.50 to 61+07.54	LT	5472			45.6			
62+24.04 to 63+11.33	RT	9490			47.0			
SUB-TOTAL:					1620.9			
TOTAL:					1621			

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					C. BRIAN FULLER, P.E. P.E. LICENSE NUMBER 49524 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION <hr/> PROJECT NAME: COUNTRY CLUB ROAD PROJECT ID: 01785134	SHEET NO. SQ-8
REVISIONS																		
DATE	DESCRIPTION	DATE	DESCRIPTION															
				SUMMARY OF QUANTITIES														

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Exhibit "A"
SEMINOLE COUNTY, FLORIDA
ENGINEERING DIVISION

CONTRACT PLANS
COUNTRY CLUB RD AT LAKE MARY BLVD
INTERSECTION IMPROVEMENTS
CIP NO. 01785134



INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3 - T-4	TABULATION OF QUANTITIES
T-5 - T-6	GENERAL NOTES
T-7 - T-8	SIGNALIZATION PLAN
T-9	DETECTOR CHART
T-10 - T-21	INTERCONNECT PLAN
T-22	MAST ARM TABULATION
T-23	POLE SCHEDULE
T-24	GUIDE SIGN WORKSHEET
T-25	CAMERA MOUNTING DETAIL
T-26	CABINET DETAIL & WIRING DIAGRAM
T-27 - T-29	SPLICING DIAGRAMS
T-30	AUGER BORING RESULTS
T-31	REPORT OF SPT BORINGS

BOARD OF COUNTY OF COMMISSIONERS

- DISTRICT 1
BOB DALLARI
- DISTRICT 2
JAY ZEMBOWER
- DISTRICT 3
LEE CONSTANTINE
- DISTRICT 4
AMY LOCKHART
- DISTRICT 5
ANDRIA HERR

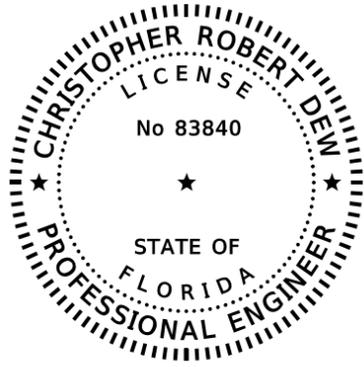
DIRECTOR OF PUBLIC WORKS:
JEAN JREIJ, P.E.

SIGNALIZATION PLANS
ENGINEER OF RECORD:
 CHRISTOPHER R DEW, P.E.
 P.E. NO.: 83840
 METRIC ENGINEERING INC
 525 TECHNOLOGY PARK #153
 LAKE MARY, FL 32746
 VENDOR NO.: F-59-1685550

SEMINOLE COUNTY
PROJECT MANAGER:
HAROLD MCKNIGHT

FISCAL YEAR	SHEET NO.
24	T-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK - SUITE 153
LAKE MARY, FLORIDA 32746
CHRISTOPHER R. DEW, P.E. NO. 83840

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3 - T-4	TABULATION OF QUANTITIES
T-5 - T-6	GENERAL NOTES
T-7 - T-8	SIGNALIZATION PLAN
T-9	DETECTOR CHART
T-10 - T-21	INTERCONNECT PLAN
T-22	MAST ARM TABULATION
T-23	POLE SCHEDULE
T-24	GUIDE SIGN WORKSHEET
T-25	CAMERA MOUNTING DETAIL
T-26	CABINET DETAIL & WIRING DIAGRAM
T-27 - T-29	SPLICING DIAGRAMS

Exhibit "A"

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
919 LAKE BALDWIN LANE
ORLANDO, FLORIDA 32814
DANIEL C. STANFILL, P.E. NO. 42763

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-30	AUGER BORING RESULTS
T-31	REPORT OF SPT BORINGS

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
P.E. LICENSE NUMBER 83840
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

SIGNATURE SHEET

SHEET NO.

T-2

Exhibit "A"
TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-7		T-8		T-10		T-11		T-12		T-13		T-14		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	410		350												760			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1075														1075			
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI			1												1			
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1														1			
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	100		105												205			
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	745		970			550	570		525		525		570		4455			
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	350					500	570		525		525		570		3040			
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			16		98										114			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA			24												24			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1			1									2			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA					9										9			
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA			1												1			
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	4		22												26			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			4												4			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA			2												2			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS			1												1			
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	85		30												115			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA			1												1			
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	2														2			
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA			8												8			
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA			1												1			
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA			3												3			
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA	4														4			
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	14														14			
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS			8												8			
660-1-110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA			8												8			
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS	4														4			
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	16														16			
660-4-41	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE CABINET EQUIPMENT	EA			1												1			
660-4-42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA	2														2			
660-6-421	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, CABINET EQUIPMENT	EA	1														1			
660-6-422	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, ABOVE GROUND EQUIPMENT	EA	1														1			
663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA	4														4			
663-1-121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS	EA			1												1			
663-1-122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA			1												1			
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA			8												8			
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS			1												1			
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1														1			
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, 1P, HIGH DEFINITION	EA	1														1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA			1												1			
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA			1												1			
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4														4			
700-11-321	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT, REGULATORY SIGN, UP TO 12 SF	AS	4														4			

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		TABULATION OF QUANTITIES	SHEET NO. T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

Exhibit "A"
TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-15		T-16		T-17		T-18		T-19		T-20		T-21		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF					10						220				230		990	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			155		220						365		700		1440		2515	
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																	1	
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI																	1	
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF			460							955					1415		1620	
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	520		990		1025		645		315				1150		4645		9100	
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	520		1440		575		645		215				390		3785		6825	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			4						90						94		208	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA			24												24		26	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1		1										2		4	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA									8						8		17	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA																	1	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA			1		2						1				4		30	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA											1		1		2		6	
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA			1		1						1		1		4		6	
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS																	1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF											35				35		150	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA																	1	
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA																	2	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																	8	
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA																	1	
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA																	3	
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA																	4	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS																	14	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS																	8	
660-1-110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA																	8	
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS			2		2										4		8	
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																	16	
660-4-41	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE CABINET EQUIPMENT	EA																	1	
660-4-42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA																	2	
660-6-421	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, CABINET EQUIPMENT	EA																	1	
660-6-422	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, ABOVE GROUND EQUIPMENT	EA																	1	
663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA																	4	
663-1-121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS	EA																	1	
663-1-122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA																	1	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA																	8	
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																	1	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS																	1	
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA																	1	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																	1	
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA																	1	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																	4	
700-11-321	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT, REGULATORY SIGN, UP TO 12 SF	AS																	4	

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		TABULATION OF QUANTITIES	SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGNALIZATION GENERAL NOTES:

Exhibit A

GENERAL NOTES:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE LATEST FDOT "ROADWAY AND TRAFFIC STANDARD PLANS". ATTENTION IS DIRECTED TO THE INDEX 102.
2. FOR TRAFFIC SIGNALS INSTALLATIONS INFORMATION SEE THE MOST CURRENT FDOT ROADWAY AND TRAFFIC STANDARD PLANS. ALL INSTALLATIONS SHALL ALSO BE IN ACCORDANCE WITH THE MOST CURRENT SEMINOLE COUNTY STANDARDS.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST 48 HOURS IN ADVANCE OF ANY OPERATION THAT MAY CONFLICT WITH OVERHEAD, UNDERGROUND, OR AREA UTILITIES.
4. THE CONTRACTOR SHALL COORDINATE AND SEEK ANY NECESSARY APPROVAL, FROM OTHER UTILITIES, PRIOR TO WORKING ON OR INSTALLING JOINT-USE POLES, SPAN WIRE ASSEMBLIES, OR SIGNAL POLES ADJACENT TO THEIR FACILITIES OR POWER LINES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND WORKING NEAR AND AROUND ANY AND ALL UTILITIES WITHIN THE CONSTRUCTION AREA. IN ADDITION, THE CONTRACTOR SHALL BE SOLELY AND DIRECTLY RESPONSIBLE TO THE OWNERS AND OPERATORS OF SUCH PROPERTIES FOR ANY DAMAGE, INJURY, EXPENSE, LOSS, INCONVENIENCE, OR DELAY, CAUSED BY THE CONTRACTOR'S OPERATIONS.
6. THE CONTRACTOR SHALL NOTIFY SEMINOLE COUNTY TRAFFIC ENGINEERING TONY MOZICK (407) 665-5588, 24 HOURS PRIOR TO DESTROYING EXISTING ROADWAY SENSORS. EXISTING LOOPS OR SENSORS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. AT NO TIME IS THE CONTRACTOR TO CHANGE ANY SIGNAL TIMINGS WITHOUT COMMUNICATION WITH SEMINOLE COUNTY TRAFFIC ENGINEERING. IF LOOPS (NOT TEMPORARY DETECTION) ARE FUNCTIONING, RECALLS MAY BE REMOVED BY THE CONTRACTOR WITH APPROVAL FROM SEMINOLE COUNTY TRAFFIC ENGINEERING.
7. THE MAINTENANCE RESPONSIBILITY FOR ALL SIGNALS WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN THE FULL RESPONSIBILITY OF THE CONTRACTOR, FROM THE TIME CONTRACT WORK BEGINS UNTIL FINAL ACCEPTANCE BY SEMINOLE COUNTY TRAFFIC ENGINEERING, ON A BY INTERSECTION BASIS. THE CONTRACTOR SHALL HAVE AN I.M.S.A LEVEL 2 SIGNAL TECHNICIAN ON SITE THROUGH ALL PHASES OF CONSTRUCTION AND ON CALL WITH 2 HOUR MAXIMUM RESPONSE TIME.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE, SCHEDULE, AND PAY FOR LAW ENFORCEMENT OFFICER ASSISTANCE, WHEN DEEMED NECESSARY, WHILE WORKING SIGNALS WITHIN THE INTERSECTION.
9. LANE CLOSURES SHOULD BE AVOIDED ON SAND LAKE ROAD AS MUCH AS POSSIBLE. WHEN SCHOOL IS IN SESSION, LANE CLOSURES ARE PERMITTED MONDAY, TUESDAY, THURSDAY, AND FRIDAY BETWEEN 9 AM TO 2 PM AND WEDNESDAY 9 AM TO 1 PM. WHEN SCHOOL IS NOT IN SESSION, LANE CLOSURES ARE PERMITTED BETWEEN 9 AM TO 4 PM. LANE CLOSURES ON SR 434 AT THE SIGNALIZED INTERSECTION WITH SAND LAKE ROAD ARE PERMITTED BETWEEN 10:00 PM TO 5:30 AM. ALL ACTIVITIES REQUIRING LANE CLOSURES SHALL BE BROUGHT TO THE ATTENTION OF THE SEMINOLE COUNTY PROJECT MANAGER. LANES SHALL ONLY BE CLOSED DURING ACTIVE WORK PERIODS.
10. A CLEARANCE OF NO LESS THAN 17'-6" SHALL BE MAINTAINED BETWEEN THE SIGNAL HEADS AND THE ROADWAY. MAXIMUM SIGNAL HEAD HEIGHT AND SPACING SHALL BE IN ACCORDANCE WITH THE MUTCD AND FDOT STANDARDS.
11. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND ATTACHMENT HEIGHTS PRIOR TO ORDERING AND FABRICATION OF POLES. ALSO, THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND CLEAR THE LOCATION OF POLE FOUNDATIONS (THROUGH SOFT DIGS) PRIOR TO ORDERING AND FABRICATION OF POLES.
12. A TERMINAL BLOCK WITH A MINIMUM OF A 6mm WIRE INSERTION ORIFICE SHALL BE USED TO CONNECT CABLES AT THE SIGNAL POLE HAND HOLE WITH A MAXIMUM OF THREE 14 GAUGE CONDUCTORS PER LUG. AT LEAST 6' OF SLACK CABLE SHALL BE AVAILABLE FOR TROUBLESHOOTING.
13. SIGNAL CABLE AND LOOP WIRE ARE NOT TO BE IN THE SAME PULL BOX.
14. INDIVIDUAL PEDESTRIAN POLES SHALL BE INSTALLED PER INDEX 646-001 ALUMINUM POST AND PEDESTAL MOUNTED PEDESTRIAN DETECTORS AND SIGNALS.
15. ALL VEHICLE AND PEDESTRIAN DISPLAYS, STREET ID'S AND BLANK OUT SIGNS SHALL BE L.E.D. ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE LUMINAIRES SHOULD BE L.E.D.

16. THE LUMINARIES/ILLUMINATED STREET ID'S SHALL BE POWERED FROM A SEPARATE BREAKER LOCATED IN THE BREAKER BOX, NOT THE SIGNAL CABINET. ALL PHOTOCELLS SHALL BE MOUNTED ON THE BREAKER BOX AND BE 15 AMPERE CAPACITY MINIMUM. ALL ILLUMINATED STREET ID'S SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY ON DIAGONAL MAST ARMS, SWIVEL BRACKETS SHOULD BE USED AND SHALL BE A MINIMUM HEIGHT OF 17' OVER ROADWAY.
17. ALL CABLES WILL HAVE THREE SPARE CONDUCTORS.
18. ALL SIGNAL HEADS, PEDESTRIAN HEADS AND PEDESTRIAN BUTTONS SHALL HAVE WEEP HOLES.
19. ALL POLES, FOUNDATIONS, AND CABINET ASSEMBLIES SHALL HAVE 50' OF GROUND ROD AND SHALL BE BONDED TO THE SIGNAL PULL BOX NEXT TO THE TRAFFIC SIGNAL CABINET.
20. SEMINOLE COUNTY HAS UNIQUE PHASING. ALL INTERSECTIONS SHALL BE BUILT TO SEMINOLE COUNTY STANDARDS. CALL CHAD DICKSON TRAFFIC SIGNAL SHOP AT 407-665-5585 FOR FURTHER INFORMATION.
21. ALL EQUIPMENT AND MATERIAL SHALL BE APPROVED BY SEMINOLE COUNTY TRAFFIC ENGINEERING.
 - A. ALL SIGNAL HEADS TO BE DIE CAST ALUMINUM OR POLY WITH TUNNEL VISORS.
22. CONTRACTOR IS TO ENSURE THAT ALL ADA REQUIREMENTS ARE MET.
23. CONDUIT SHALL BE INSTALLED ON ALL 4 SIDES OF THE INTERSECTION, CONDUIT THAT STARTS ON THE CABINET CORNER SHALL HAVE FOUR EACH, 2" INCH CONDUIT FOR EACH CROSSING BORE. CONDUIT FOR ELECTRICAL POWER SERVICE SHALL BE 1½" RIGID GALVANIZED. ALL OTHER CONDUIT TO BE 2" (MINIMUM) SCHEDULE 40 P.V.C., PAYMENT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT IN TRENCH. IT SHALL BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED.
24. BEFORE ORDERING SIGNAL CABLE, THE CONTRACTOR SHALL VERIFY COLOR CODES WITH SEMINOLE COUNTY TRAFFIC ENGINEERING. ALL WIRING TO BE PER SEMINOLE COUNTY SPECIFICATIONS.
25. PULL BOXES SHALL BE NON-METALLIC 20K RATED, AND INSTALLED PER INDEX 635-001 SPECIFICATIONS SECTION AND STANDARD SPEC SECTION 630. PULL BOXES SHALL BE INSTALLED AT INTERVALS OF NOT MORE THAN 200 FEET AND SHALL NOT BE PLACED ON ANY DRIVEWAYS. PULL BOX COVERS SHALL BE FDOT APPROVED OF NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE.
26. ELECTRICAL SERVICE FOR MAST ARM INTERSECTIONS IS TO BE MOUNTED ON A TYPE P-II SERVICE POLE WITH UNDERGROUND CONDUIT TO CLOSEST POWER SERVICE. THE LOAD CENTER SHALL BE 125AMP, 8 SPACE, NEMA 3R RAINPROOF ENCLOSURE.
27. ADAPTIVE LOOPS IF SHOWN ON PLANS SHALL BE 6'x20' AND SHALL STOP 1' BEFORE THE STOP BAR. LOOP WINDOW SHALL BE INSTALLED IN CONCRETE CURB. ALL LOOP LEAD IN'S SHALL BE CUT FROM THE BACK OF THE LOOP TO A PULL BOX AWAY FROM THE ROAD RADIUS AND TRENCHED, NOT SAW CUT, TO THE CABINET. ALL LOOP SPLICES SHALL BE SOLDERED AND COVERED WITH A WATERPROOF SEAL.
28. CONTRACTOR SHALL COMPLETELY RELOCATE ALL EXISTING OPTICOM SYSTEMS WHEN REQUIRED. COST TO BE INCLUDED WITHIN THE MOBILIZATION. IF NEW INSTALL, THE ASSEMBLY AND INCLUDED EQUIPMENT SHALL BE COMPATIBLE WITH THE RESPONSIBLE AGENCY'S FIRE DEPARTMENT STANDARDS FOR A COMPLETE IR/GPS DUAL MODE SYSTEM.
29. CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING (TONY MOZICK 407-665-5588) TO OBTAIN CABINET BASE TEMPLATE PRIOR TO CONSTRUCTING CABINET BASE.

30. EXISTING CONTROLLER CABINET SHALL BE RETURNED TO SEMINOLE COUNTY TRAFFIC ENGINEERING. CONTROLLER SHALL BE NAZTEC ATC TYPE 1 ETHERNET AND SHALL BE COMPATIBLE WITH SEMINOLE COUNTY ADVANCED TRAFFIC MANAGEMENT SYSTEM. ALL CABINET ASSEMBLIES SHALL BE 70006-TS2/FL (68 INCH, TYPE 6, REAR DOOR, ALPHA UPS w/AUX RELAY AND TWO FANS) WITH 16 LOAD BAY POSITIONS THAT ARE CAPABLE OF HANDLING SIGNAL, PED OR OVERLAP PHASING, NAZTEC TS2 MMU MODEL 516L w/ETHERNET, 4 NAZTEC TS2 BIU MODEL 130, 16 NEMA LOAD SWITCHES, 1 NEMA FLASHER, 8 TRANSFER RELAYS, SPARE INTERFACE PANEL WIRED TO POWER PANEL, NAZTEC TS2 CABINET POWER SUPPLY, 64 CHANNEL DETECTOR RACK, 4 CHANNEL OPTICOM RACK & FIELD PANEL WITH SUPPRESSION, 64 LOOP DETECTOR PANEL w/64 SRA-6LC SURGE ARRESTORS, PED ISOLATOR CARD, ALL LOOP DETECTORS SHALL BE NAZTEC MENU DRIVEN LCD DETECTORS, SET OF FDOT SPEC LOAD RESISTORS FOR BACK PANEL, ONE BALL BEARING ROLLER DRAWER. INCLUDES THE RELOCATION OF ALL INTERCONNECT/COMMUNICATION EQUIPMENT AND FIBER OPTIC CABLE. THE CONTROLLER SHALL REVERT TO FULLY ACTUATED OPERATIONS UPON DISCONNECTING THE COORDINATION UNIT, INCLUDES COST FOR RE-INSTALLING AND RE-SPLICING OF ALL EXISTING FIBER OPTIC CABLE AS REQUIRED FOR A COMPLETE INSTALLATION. THE CLOCK SHALL BE PROGRAMMABLE FROM THE FRONT PANEL.
31. FIBER OPTIC CABLE/INTERCONNECT: SEMINOLE COUNTY TRAFFIC ENGINEERING FIBER OPTIC CABLE SPEC IS 96SM FIBER OR 72SM FIBER FOR NEW FIBER INSTALLATIONS (CORNING CABLE, ALL-DIELECTRIC, LOOSE TUBE, DRY BLOCK OR APPROVED EQUIVALENT). CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING JOHN BROWN (407) 665-5644 FOR EXACT FIBER COUNTS AND SPLICE DETAIL FOR LOCATIONS WHERE EXISTING FIBER IS BEING REPLACED. THERE SHALL BE A SEPARATE 12 GAUGE SOLID COPPER LOCATE WIRE, LOCATE WIRE SHALL BE ONE CONTINUOUS PIECE & GROUNDED IN THE PULL BOX. FIBER OPTIC CABLE SHALL NOT BE BROKEN, ONE CONTINUOUS PIECE FROM START OF THE JOB TO THE END OF THE JOB OR A SPLICE POINT FROM OUTSIDE OF THE JOB LIMITS. EACH SIGNAL CABINET SHALL HAVE 24" X 36" PULL BOX IN FRONT OF THE CABINET WITH 100FT OF SLACK. CONNECTION TO THE SIGNAL CABINET SHALL BE A 12 FIBER SINGLE-MODE DROP WITH ST CONNECTORS AND A MID-ENTRY SPLICE INTO THE BACKBONE CABLE. NO FIBER STRAND SHALL BE LEFT UN-TERMINATED OR UN-SPLICED UNLESS OTHERWISE SPECIFIED. FIBER OPTIC CABLE IS CONSIDERED "CRITICAL COMMUNICATIONS" AND SHALL BE IN SERVICE AT ALL TIMES, CUT OVER TO NEW FIBER SHALL BE DONE DURING OFF PEAK HOURS AND COORDINATED WITH SEMINOLE COUNTY TRAFFIC ENGINEERING (407-665-5677).
32. FIELD TESTS: THE CONTRACTOR SHALL HAVE A QUALIFIED REPRESENTATIVE PRESENT AT ALL INSPECTIONS. CONTACT FDOT STRUCTURES MAINTENANCE AT (386) 740-3463 AT LEAST TWO WEEKS PRIOR TO PROJECT COMPLETION TO SCHEDULE AN INSPECTION. FOR FDOT SIGNALS, A SIGNAL INSPECTION IS TO BE SCHEDULED WITH MR. RAY MARLIN AT (386) 943-5336, OF TRAFFIC OPERATIONS, 10 DAYS PRIOR TO THE SIGNAL BEING PLACED INTO OPERATION. SHOULD THE CONTRACTOR REQUEST AN INSPECTION AND THE CONTRACTOR IS NOT PREPARED FOR THE INSPECTION, THE CONTRACTOR WILL BE BACK CHARGED FOR THE CONSULTANT INSPECTOR'S TIME. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A 90 DAY WARRANTY PERIOD AS OUTLINED IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
33. EXISTING DETECTION SHALL BE MAINTAINED FOR ALL ACTUATED MOVEMENTS. IF TEMPORARY OVERHEAD DETECTION IS USED, THE CONTRACTOR SHALL WIRE ISOLATION PANELS BETWEEN THE CONTROLLER ASSEMBLY AND OVERHEAD DETECTION WITHIN 24 HOURS OF COMPROMISING EXISTING DETECTION.
34. EXISTING 3M OPTICOM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. ALL OPTICOM DETECTORS ON MAST ARMS SHALL BE MOUNTED IN AN UPRIGHT POSITION. IF NEW OPTICOM IS INSTALLED, ALL THE EXISTING EQUIPMENT SHALL BE TURNED OVER TO SEMINOLE COUNTY.
35. EXISTING RED LIGHT CONFIRMATION LIGHTS SHALL REMAIN AT THE INTERSECTION, AND BE RELOCATED TO THE NEW INTERSECTION DURING THE CHANGEOVER TO NEW SIGNALS.
36. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH SEMINOLE COUNTY AND FDOT IF APPLICABLE, ONE SET EACH OF CONSTRUCTION AS-BUILT PLANS.
37. THE SHAFT FOR MAST ARM #3 FOUNDATION SHALL BE HAND EXCAVATED TO A MINIMUM OF 8 FEET FOR THE DRILLED SHAFT LOCATION.
38. THE CONTRACTOR SHALL USE A STEEL CASING FOR THE DRILLED SHAFT FOR MAST ARM #3. THE STEEL CASING SHALL EXTEND TO A DEPTH 2 FEET DEEPER THAN THE BOTTOM OF TECO GAS MAIN AND CENTURY LINK FIBER OPTIC LINES.

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SHEET NO. T-5
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID	
					COUNTRY CLUB ROAD	01785134	

GENERAL NOTES

SIGNALIZATION GENERAL NOTES:

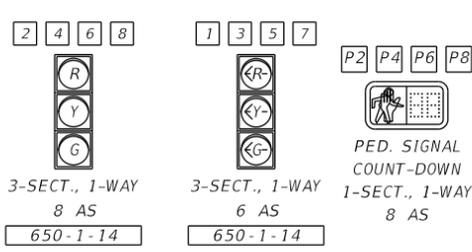
Exhibit A

39. THE CONTRACTOR IS TO PLACE FLOWABLE FILL IN THE EXCAVATED AREAS BETWEEN THE DRILLED SHAFT FOR MAST ARM #3 AND TECO GAS MAIN AND CENTURY LINK FIBER OPTIC LINES. PRIOR TO COMPLETING THE DRILLED SHAFT FOUNDATION.
40. THE CONTRACTOR SHALL CONTACT SHAWN WINSOR WITH TECO AT 407-420-6663, KEVIN HARDER WITH TERRA TECHNOLOGIES LLC ON BEHALF OF CENTURYLINK 815-451-1668, kharder@terratechkkc.net, NATHAN HARPER WITH TERRA TECHNOLOGIES LLC ON BEHALF OF CENTURYLINK 352-531-0404, nharper@terratechkkc.net, AND/OR ROB GODEK WITH CENTURYLINK 407-830-3421, Rob.M.Godek@centurylink.com 7 DAYS PRIOR TO BEGINNING EXCAVATION OF THE DRILLED SHAFT FOR MAST ARM #3.
41. CONTRACTOR SHALL HAVE 2X4'S AND 1/2" INCH OR 5/8" PLYWOOD SHEETS AVAILABLE DURING EXCAVATION OF MAST ARM #3 FOUNDATION TO USE AS SHEETING AND BRACING IN THE EVENT SOIL SHOULD START TO BE UNDERMINED FROM GAS MAIN OR TELECOMMUNICATION CONDUIT.
42. AS REQUIRED CCTV CAMERA ASSEMBLIES WILL BE BOSCH AUTODOME DYNAMIC 7000 1080P WITH 30x ZOOM LENS PROVIDED WITH "CANDY CANE" PARAPET MOUNT AND HARDWARE.
43. SEMINOLE COUNTY IS THE MAINTAINING AGENCY FOR MAST ARM LIGHTING.
44. THE CONTRACTOR SHALL CONTACT THE FDOT DISTRICT FIVE STRUCTURES MAINTENANCE OFFICE AT 386-740-3463 TWO WEEKS PRIOR TO COMPLETION OF THE PROJECT TO SCHEDULE AN INSPECTION OF THE COMPLETED TRAFFIC SIGNAL MAST ARM STRUCTURES AT SR 434.
45. PRIOR TO MAST ARM INSTALLATION, CONTRACTOR TO SUBMIT A SUMMARY OF THE DRILLED SHAFT INFORMATION TO THE ENGINEER OF RECORD, SEMINOLE COUNTY, AND FDOT DISTRICT 5 FOR REVIEW.

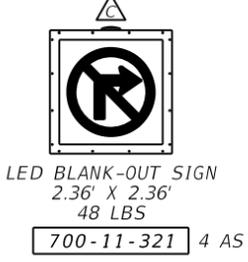
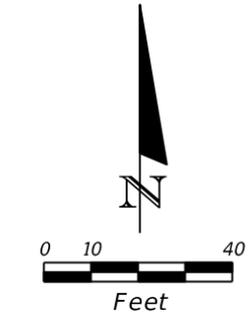
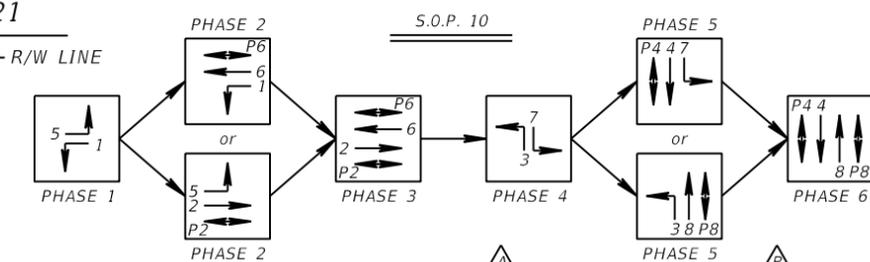
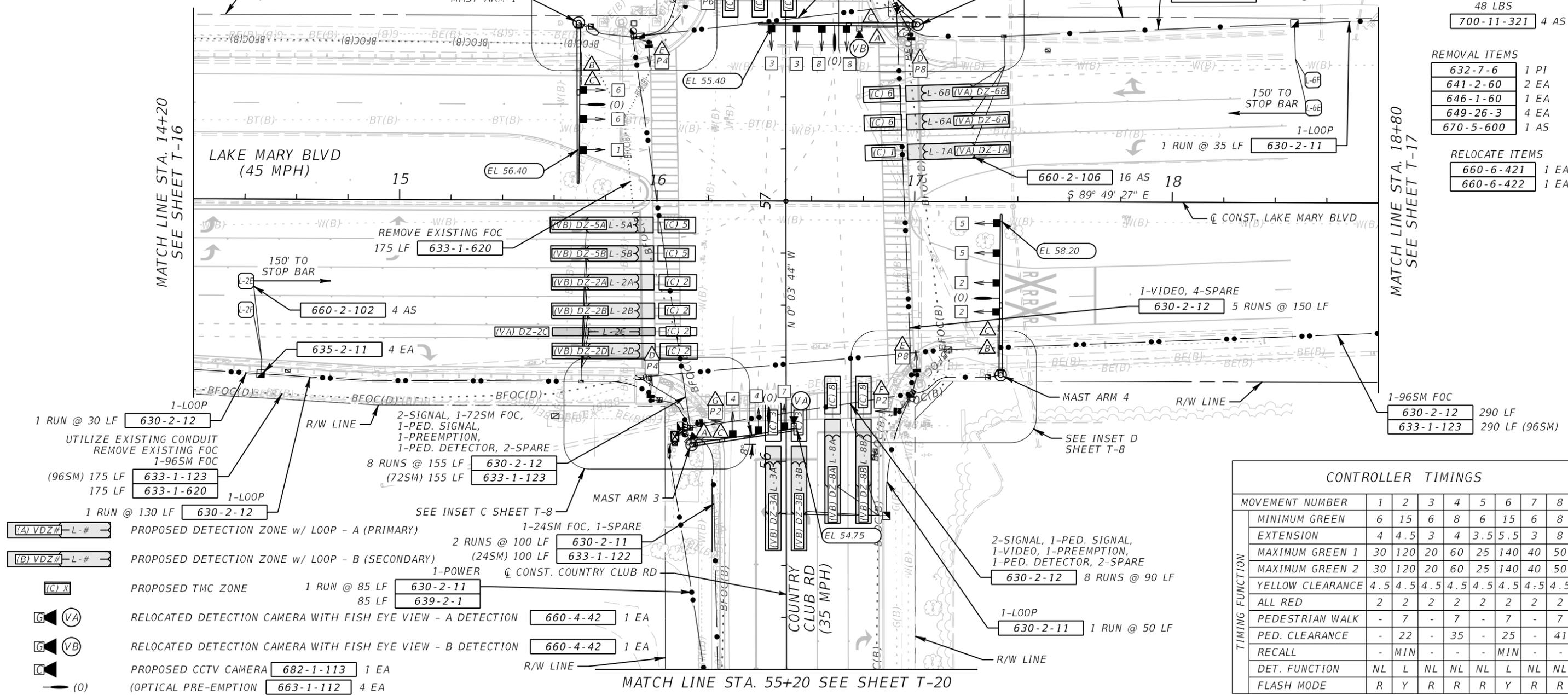
PAY ITEM NOTES:

1. 660-2-102: TYPE "B" LOOPS SHALL BE 6' X 6'.
2. 682-1-113: CCTV CAMERA SHALL BE A HIGH DEFINITION IP DOME CAMERA WITH 30X ZOOM, DAY/NIGHT MODE, INTERNAL H.264 ENCODER AND NTCIP, AS PER BOSCH 7000i SERIES 1080P CAMERA.
3. 700-11-321: SEMINOLE COUNTY TO DETERMINE THE HOURS OF OPERATION FOR BLANK-OUT SIGNS.
4. 715-5-31: SHALL PAY FOR THE FURNISHING AND INSTALLING OF THE BRACKET ARM ONLY AS SHOWN IN THE PLANS. THE LUMINAIRE SHALL NOT BE FURNISHED OR INSTALLED WITHIN THIS PROJECT.
5. 635-2-11: SHALL BE 17" X 30" PULLBOX UNLESS OTHERWISE NOTED ON SHEETS T-6 TO T-19. ALL 17" X 30" PULLBOXES ARE TO BE ACCOUNTED FOR UNDER THIS PAY ITEM NUMBER.

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		T-6
					COUNTRY CLUB ROAD	01785134		



NOTE: 1. VIDEO DETECTION TO BE CONNECTED VIA SDLC CONNECTOR.
 2. D-CAM CABLE SHALL BE OUTSIDE PLANT, UV RESISTANT.
 3. DETECTOR RACK PROPOSED CONDITIONS, SEE T-26.
 4. THE DETECTION CAMERA AND SIZE OF THE TMC ZONES SHALL BE DETERMINED IN THE FIELD BASED ON THE VIEWING ANGLE OF THE CAMERA TO MAXIMIZE ACCURACY OF THE VOLUME DATA COLLECTED. DATA COLLECTED IS TO BE STORED IN THE GRIDSMART PROCESSOR.
 5. CCTV CAMERA TO BE INSTALLED ON A 10' CANDY-CANE MOUNTING ARM.



REMOVAL ITEMS

632-7-6	1 PI
641-2-60	2 EA
646-1-60	1 EA
649-26-3	4 EA
670-5-600	1 AS

RELOCATE ITEMS

660-6-421	1 EA
660-6-422	1 EA

CONTROLLER TIMINGS								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	6	15	6	8	6	15	6	8
EXTENSION	4	4.5	3	4	3.5	5.5	3	8
MAXIMUM GREEN 1	30	120	20	60	25	140	40	50
MAXIMUM GREEN 2	30	120	20	60	25	140	40	50
YELLOW CLEARANCE	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
ALL RED	2	2	2	2	2	2	2	2
PEDESTRIAN WALK	-	7	-	7	-	7	-	7
PED. CLEARANCE	-	22	-	35	-	25	-	41
RECALL	-	MIN	-	-	-	MIN	-	-
DET. FUNCTION	NL	L	NL	NL	NL	L	NL	NL
FLASH MODE	R	Y	R	R	R	Y	R	R

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

SIGNALIZATION PLAN

SHEET NO.
T-7

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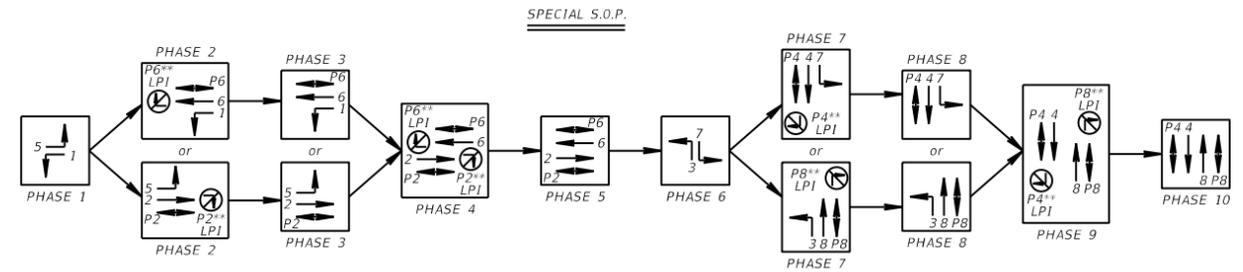
COUNTRY CLUB ROAD AT EXHIBIT A BLVD - DETECTOR CHART

SIGNAL ID	BIU NO.	CARD NO.	CHANNEL NO.	DETECTOR ID	DETECTOR	DIRECTION	MOVEMENT TYPE	APP. SPEED MPH.	PROTECTED PHASE	PERMISSIVE PHASE	OVERLAP	DELAY SEC.	CAMERA ID	DETECTOR SYSTEM	ZONE SIZE	DISTANCE TO STOP BAR	DETECTOR TYPE	LANE TYPE	LANE NO.		
****	1	1	1	XXXX01	L-1A	WB	L	45	1		5		N/A	LOOP	6' x 20'	2	PD	V	*		
			2	XXXX02	DZ-1A	WB	L	45	1			5		VA	VIDEO	6' x 40'	-5	PD, C	V	*	
		2	3	XXXX03	L-6A	WB	T	45	6	1		2		N/A	LOOP	6' x 20'	2	PD	V	*	
			4	XXXX04	DZ-6A	WB	T	45	6	1		2		VA	VIDEO	6' x 40'	-5	PD, C	V	*	
		3	5	XXXX05	L-6B	WB	TR	45	6	1		2		5	N/A	LOOP	6' x 20'	2	PD	V	*
			6	XXXX06	DZ-6B	WB	TR	45	6	1		2		5	VA	VIDEO	6' x 40'	-5	PD, C	V	*
		4	7	XXXX07	L-6E	WB	T	45	6	1		2			N/A	LOOP	6' x 6'	150	AD	V	*
			8	XXXX08	L-6F	WB	TR	45	6	1		2			N/A	LOOP	6' x 6'	150	AD	V	*
		5	9	XXXX09	L-6G	WB	T	45	6	1		2			N/A	LOOP	6' x 6'	330	AD	V	*
			10	XXXX10	L-6H	WB	TR	45	6	1		2			N/A	LOOP	6' x 6'	330	AD	V	*
		6	11	XXXX11	SPARE																*
			12	XXXX12	SPARE																*
		7	13	XXXX13	SPARE																*
			14	XXXX14	SPARE																*
		8	15	XXXX15	SPARE																*
			16	XXXX16	SPARE																*
	2	9	17	XXXX17	L-3A	NB	L	35	3			7		N/A	LOOP	6' x 20'	2	PD	V	*	
			18	XXXX18	DZ-3A	NB	L	35	3			7		VB	VIDEO	6' x 40'	-5	PD, C	V	*	
		10	19	XXXX19	L-3B	NB	L	35	3			7		N/A	LOOP	6' x 20'	2	PD	V	*	
			20	XXXX20	DZ-3B	NB	L	35	3			7		VB	VIDEO	6' x 40'	-5	PD, C	V	*	
		11	21	XXXX21	L-8A	NB	L	35	8	3		4			N/A	LOOP	6' x 20'	2	PD	V	*
			22	XXXX22	DZ-8A	NB	T	35	8	3		4			VB	VIDEO	6' x 40'	-5	PD, C	V	*
		12	23	XXXX23	L-8B	NB	R	35	8	3		4		5	N/A	LOOP	6' x 20'	2	PD	V	*
			24	XXXX24	DZ-8B	NB	R	35	8	3		4		5	VB	VIDEO	6' x 40'	-5	PD, C	V	*
		13	25	XXXX25	SPARE																*
			26	XXXX26	SPARE																*
		14	27	XXXX27	SPARE																*
			28	XXXX28	SPARE																*
		15	29	XXXX29	SPARE																*
			30	XXXX30	SPARE																*
		16	31	XXXX31	SPARE																*
			32	XXXX32	SPARE																*
	3	17	33	XXXX33	L-5A	EB	L	45	5			1		N/A	LOOP	6' x 20'	2	PD	V	*	
			34	XXXX34	DZ-5A	EB	L	45	5			1		VB	VIDEO	6' x 40'	-5	PD, C	V	*	
		18	35	XXXX35	L-5B	EB	L	45	5			1		N/A	LOOP	6' x 20'	2	PD	V	*	
			36	XXXX36	DZ-5B	EB	L	45	5			1		VB	VIDEO	6' x 40'	-5	PD, C	V	*	
		19	37	XXXX37	L-2A	EB	T	45	2	5		6			N/A	LOOP	6' x 20'	2	PD	V	*
			38	XXXX38	DZ-2A	EB	T	45	2	5		6			VB	VIDEO	6' x 40'	-5	PD, C	V	*
		20	39	XXXX39	L-2B	EB	T	45	2	5		6			N/A	LOOP	6' x 20'	2	PD	V	*
			40	XXXX40	DZ-2B	EB	T	45	2	5		6			VB	VIDEO	6' x 40'	-5	PD, C	V	*
		21	41	XXXX41	L-2C	EB	T	45	2	5		6			N/A	LOOP	3' x 20'	2	PD	B	*
			42	XXXX42	DZ-2C	EB	T	45	2	5		6			VB	VIDEO	3' x 40'	-5	PD, C	B	*
		22	43	XXXX43	L-2D	EB	R	45	2	5		6		5	N/A	LOOP	6' x 20'	2	PD	V	*
			44	XXXX44	DZ-2D	EB	R	45	2	5		6		5	VB	VIDEO	6' x 40'	-5	PD, C	V	*
		23	45	XXXX45	L-2E	EB	T	45	2	5		6			N/A	LOOP	6' x 6'	150	AD	V	*
			46	XXXX46	L-2F	EB	T	45	2	5		6			N/A	LOOP	6' x 6'	150	AD	V	*
		24	47	XXXX47	L-2G	EB	T	45	2	5		6			N/A	LOOP	6' x 6'	330	AD	V	*
			48	XXXX48	L-2H	EB	T	45	2	5		6			N/A	LOOP	6' x 6'	330	AD	V	*
	4	25	49	XXXX49	L-7A	SB	L	35	7		3			N/A	LOOP	6' x 20'	2	PD	V	*	
			50	XXXX50	DZ-7A	SB	L	35	7			3			VA	VIDEO	6' x 40'	-5	PD, C	V	*
		26	51	XXXX51	L-4A	SB	T	35	4			8			N/A	LOOP	6' x 20'	2	PD	V	*
			52	XXXX52	DZ-4A	SB	T	35	4			7			VA	VIDEO	6' x 40'	-5	PD, C	V	*
		27	53	XXXX53	L-4B	SB	R	35	4			8		5	N/A	LOOP	6' x 20'	2	PD	V	*
			54	XXXX54	DZ-4B	SB	R	35	4			7		5	VA	VIDEO	6' x 40'	-5	PD, C	V	*
		28	55	XXXX55	SPARE																*
			56	XXXX56	SPARE																*
		29	57	XXXX57	SPARE																*
			58	XXXX58	SPARE																*
		30	59	XXXX59	SPARE																*
			60	XXXX60	SPARE																*
		31	61	XXXX61	SPARE																*
			62	XXXX62	SPARE																*
		32	63	XXXX63	SPARE																*
			64	XXXX64	SPARE																*

LEGEND:
 PD - PRESENCE DETECTION
 AD - ADVANCE DETECTION
 QD - QUEUE DETECTION
 V - VEHICLE
 B - BIKE
 L - LEFT
 T - THRU
 R - RIGHT
 TL - THRU-LEFT
 TR - THRU-RIGHT
 TLR - THRU-LEFT-RIGHT

* CONFIRM THE LANE NUMBER VALUES WITH SEMINOLE COUNTY TRAFFIC ENGINEERING DIVISION DURING CONSTRUCTION.
 *** CONFIRM THE DETECTOR ID VALUES WITH SEMINOLE COUNTY TRAFFIC ENGINEERING DIVISION DURING CONSTRUCTION.
 **** CONFIRM THE SIGNAL ID VALUES WITH SEMINOLE COUNTY TRAFFIC ENGINEERING DIVISION DURING CONSTRUCTION.
 BIU NO., CARD NO., CHANNEL NO., AND DETECTOR ID TO BE UPDATED AS NECESSARY.

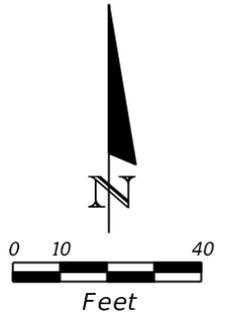
CONTROLLER TIMING AND SOP NOTES:
 P2** LPI SHALL ONLY ACTIVATE ONCE PER CYCLE DURING PHASE 2 OR PHASE 4.
 P6** LPI SHALL ONLY ACTIVATE ONCE PER CYCLE DURING PHASE 2 OR PHASE 4.
 P4** LPI SHALL ONLY ACTIVATE ONCE PER CYCLE DURING PHASE 6 OR PHASE 8.
 P8** LPI SHALL ONLY ACTIVATE ONCE PER CYCLE DURING PHASE 6 OR PHASE 8.



REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SHEET NO. T-9
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID	
					COUNTRY CLUB ROAD	01785134	

DETECTOR CHART

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(96SM) 150 LF	633-1-123
100 LF	633-1-620
98 EA	633-2-31
1 EA	633-3-11
9 EA	633-3-12

633-1-123	310 LF (96SM)
633-1-620	310 LF

(96SM) 50 LF	633-1-123
50 LF	633-1-620

(96SM) 40 LF	633-1-123
40 LF	633-1-620

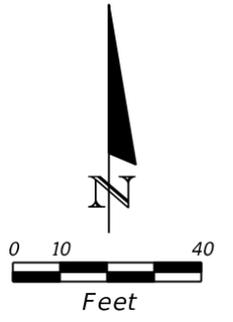
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

SHEET NO.
T-10



MATCH LINE A SEE SHEET T-10

MATCH LINE B SEE SHEET T-12

EIGHTH ST

LAKE MARY BLVD (45 MPH)

UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC

633-1-123	270 LF (96SM)
633-1-620	270 LF

UTILIZE EXISTING FOC PULLBOX
REMOVE EXISTING FOC

633-1-123	(96SM) 50 LF
633-1-620	50 LF

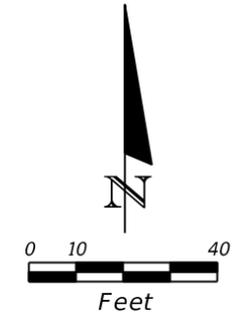
UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC

633-1-123	250 LF (96SM)
633-1-620	250 LF

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		INTERCONNECT PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		T-11
					COUNTRY CLUB ROAD	01785134		

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Exhibit "A"



SEVENTH ST

MATCH LINE B SEE SHEET T-11

MATCH LINE C SEE SHEET T-13

LAKE MARY BLVD (45 MPH)

.....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....

UTILIZE EXISTING CONDUIT
 REMOVE EXISTING FOC
 1-96SM FOC
 633-1-123 525 LF (96SM)
 633-1-620 525 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

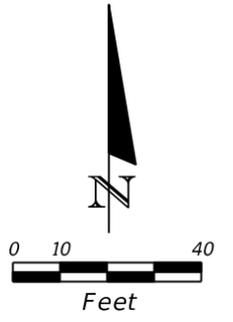
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 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

SHEET NO.
 T-12

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MATCH LINE C SEE SHEET T-12

MATCH LINE D SEE SHEET T-14

LAKE MARY BLVD (45 MPH)

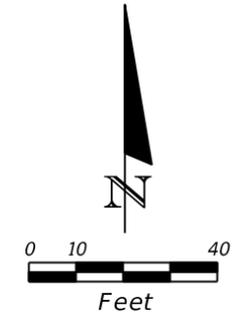
.....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....BFOC(D).....

UTILIZE EXISTING CONDUIT
 REMOVE EXISTING FOC
 1-96SM FOC
 633-1-123 525 LF (96SM)
 633-1-620 525 LF

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		INTERCONNECT PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		T-13
					COUNTRY CLUB ROAD	01785134		

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Exhibit "A"



MATCH LINE E SEE SHEET T-14

MATCH LINE F SEE SHEET T-16

LAKE MARY BLVD (45 MPH)

UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC

633-1-123	520 LF (96SM)
633-1-620	520 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

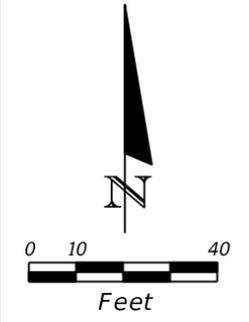
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525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

SHEET NO.
T-15

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REVISIONS			
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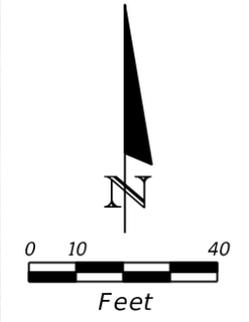
CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

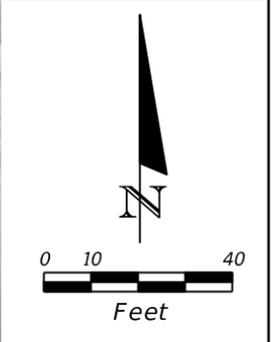
SHEET NO.
T-16

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DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		T-17
					COUNTRY CLUB ROAD	01785134		

Exhibit "A"



MATCH LINE G SEE SHEET T-17

MATCH LINE H SEE SHEET T-19

LAKE MARY BLVD (45 MPH)

FOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)-----BFOC(D)

UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC
633-1-123 320 LF (96SM)
633-1-620 320 LF

UTILIZE EXISTING FOC PULLBOX
REMOVE EXISTING FOC
(96SM) 50 LF 633-1-123
50 LF 633-1-620

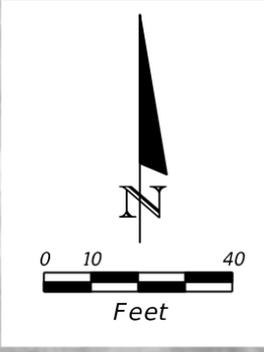
UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC
(96SM) 180 LF 633-1-123
180 LF 633-1-620

UTILIZE EXISTING FOC PULLBOX
REMOVE EXISTING FOC
(96SM) 50 LF 633-1-123
50 LF 633-1-620

UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC
(96SM) 45 LF 633-1-123
45 LF 633-1-620

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		INTERCONNECT PLAN	SHEET NO. T-18
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

Exhibit "A"



MATCH LINE H SEE SHEET T-18

UTILIZE EXISTING CONDUIT
REMOVE EXISTING FOC
1-96SM FOC

633-1-123	215 LF (96SM)
633-1-620	215 LF

UTILIZE EXISTING SPLICE VAULT
BUTT SPLICE COLOR TO COLOR

633-1-123	100 LF (96SM)
633-2-31	90 EA
633-3-12	8 EA

EXISTING SEMINOLE COUNTY 72SM FOC AND 16SM FOC
TO REMAIN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

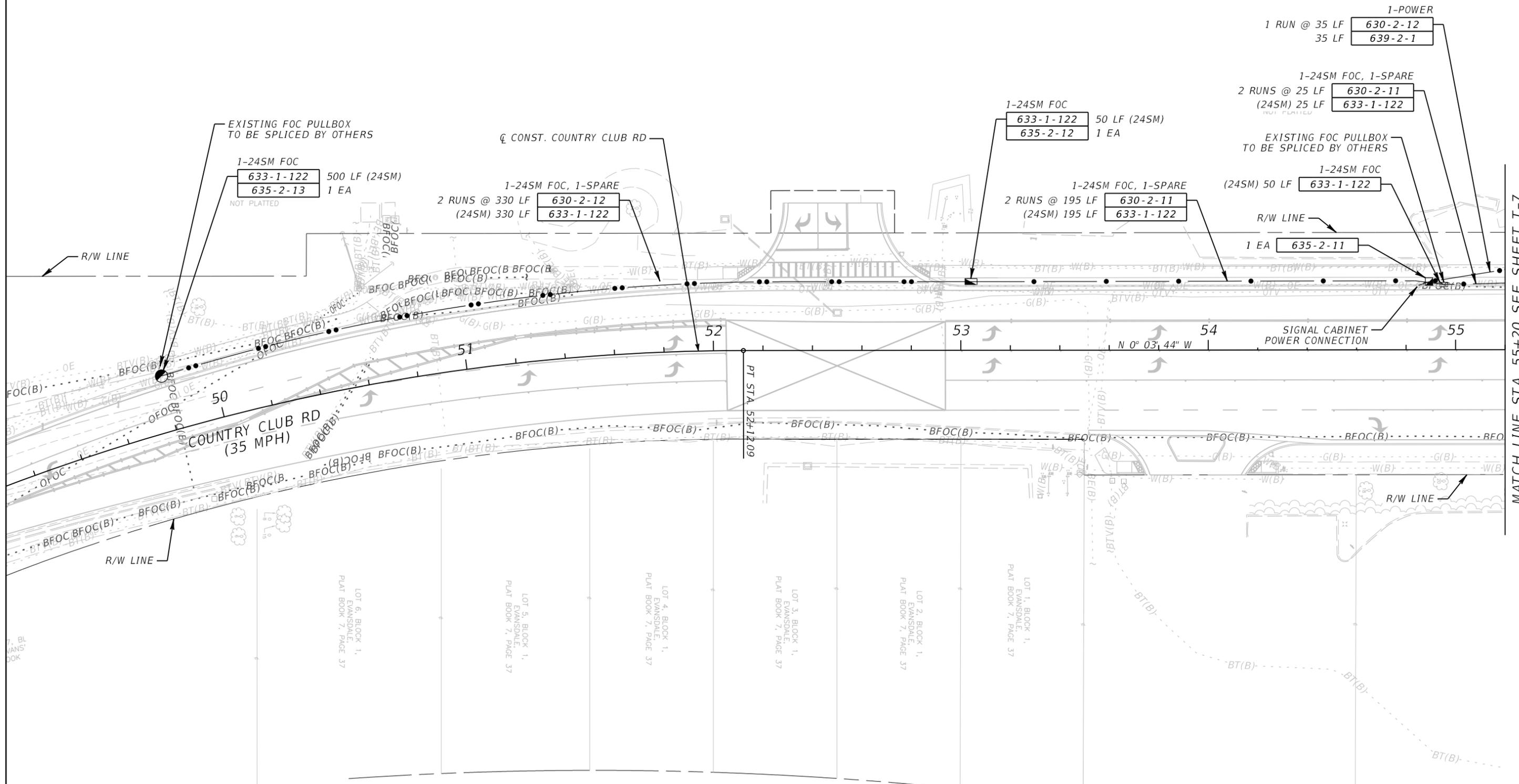
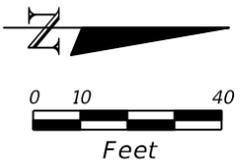
CHRISTOPHER R. DEW, P.E.
P.E. LICENSE NUMBER 83840
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

SHEET NO.
T-19

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA. 55+20 SEE SHEET T-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

SHEET NO.
 T-20

Exhibit "A"

CITY HALL



0 10 40

Feet

(72SM) 400 LF	1-72SM FOC
1 EA	633-1-123
1 EA	635-2-12
1 EA	635-2-13

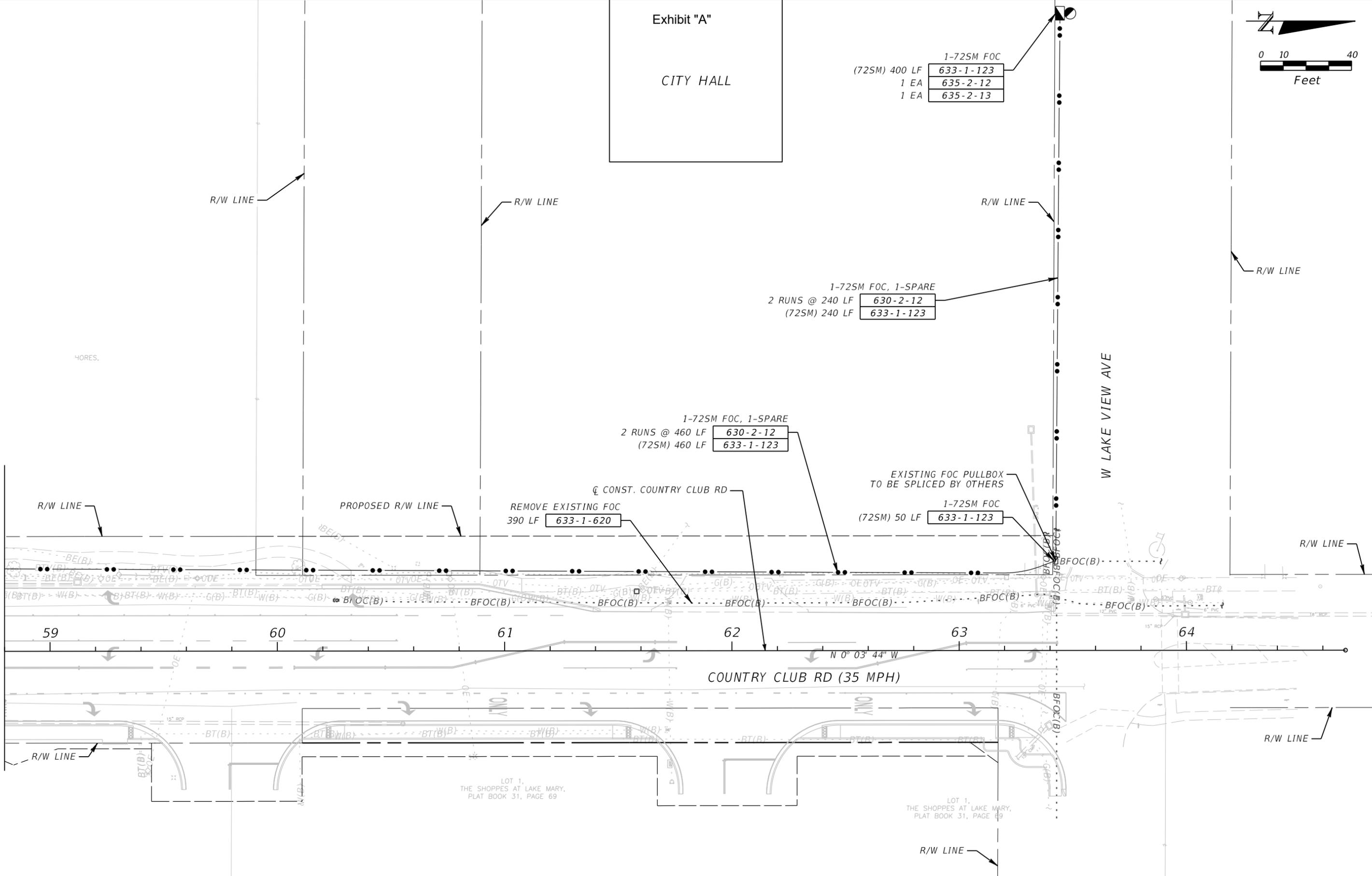
1-72SM FOC, 1-SPARE	
2 RUNS @ 240 LF	630-2-12
(72SM) 240 LF	633-1-123

1-72SM FOC, 1-SPARE	
2 RUNS @ 460 LF	630-2-12
(72SM) 460 LF	633-1-123

REMOVE EXISTING FOC	
390 LF	633-1-620

EXISTING FOC PULLBOX TO BE SPLICED BY OTHERS	
1-72SM FOC	
(72SM) 50 LF	633-1-123

MATCH LINE STA. 58+80 SEE SHEET T-7



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

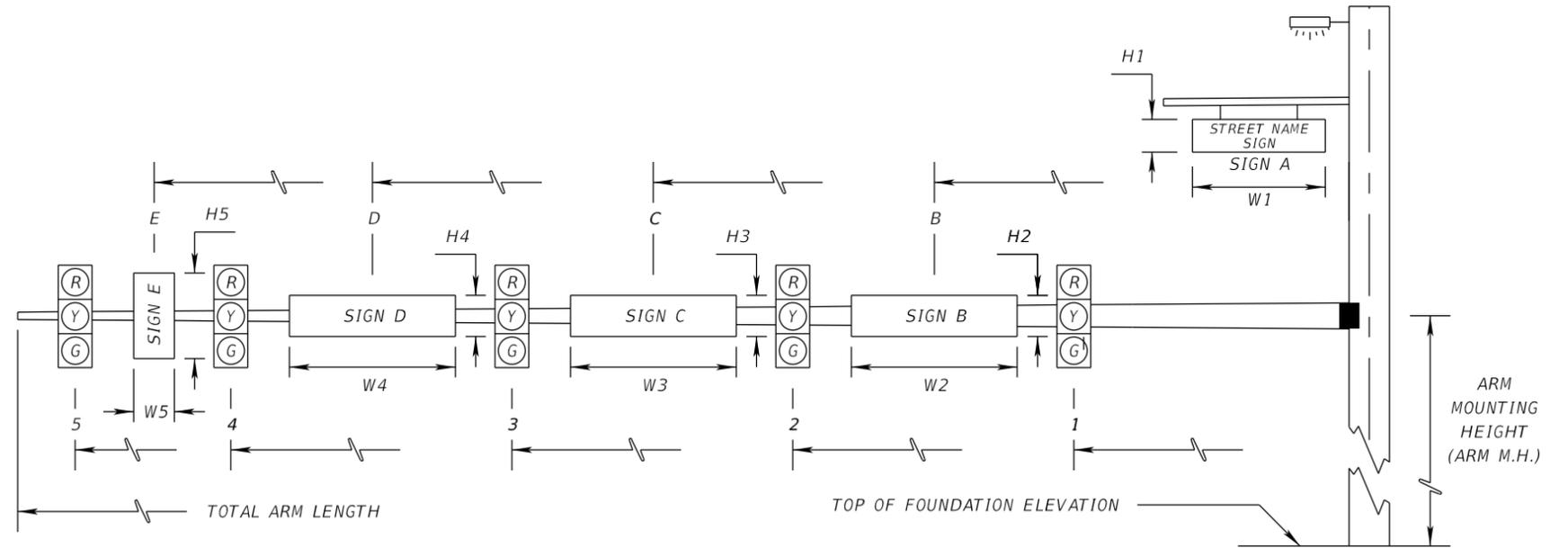
CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

INTERCONNECT PLAN

SHEET NO.
T-21

Exhibit "A"



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY
 ** DENOTES FUTURE SIGNAL HEAD LOADING

ID NO.	SHEET NO.	LOCATION BY STA.	GROUND ELEVATION	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA										VIDEO DATA		SIGN DATA							PAINT COLOR						
							SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE										TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN									
										1	*	2	*	3	*	4	*	5	*				1	2	A		H1	W1	B	H2	W2	C
1	T-7	15+69.31, 68.25' LT	56.00	56.50		56.40	V	Y	N	24.0	3	35.0	3	47.0	3					60	20.5		14	2'	9'	20.5	2.36'	2.36'				BLACK
2	T-7	17+00.94, 68.03' LT	55.80	56.30		55.40	V	Y	N	26.0	3	35.5	3	45.0	3	55.0	3		21.0	60	20		11	2'	9'	18	2.36'	2.36'				BLACK
3	T-7	16+13.75, 93.86' RT	55.20	55.70		54.75	V	Y	N	15.0	3	25.0	3	35.0	3				39	40	20		5	2'	9'	11.5	2.36'	2.36'				BLACK
4	T-7	17+33.58, 66.62' LT	57.00	57.50		58.20	V	Y	N	22.5	3	33.5	3	45.0	3	56.5	3			60	21		9.5	2'	9'	16	2.36'	2.36'				BLACK

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746		SEMINOLE COUNTY ENGINEERING DIVISION <hr/> PROJECT NAME: COUNTRY CLUB ROAD PROJECT ID: 01785134		<h2>MAST ARM TABULATION</h2>		SHEET NO. T-22
REVISIONS																						
DATE	DESCRIPTION	DATE	DESCRIPTION																			

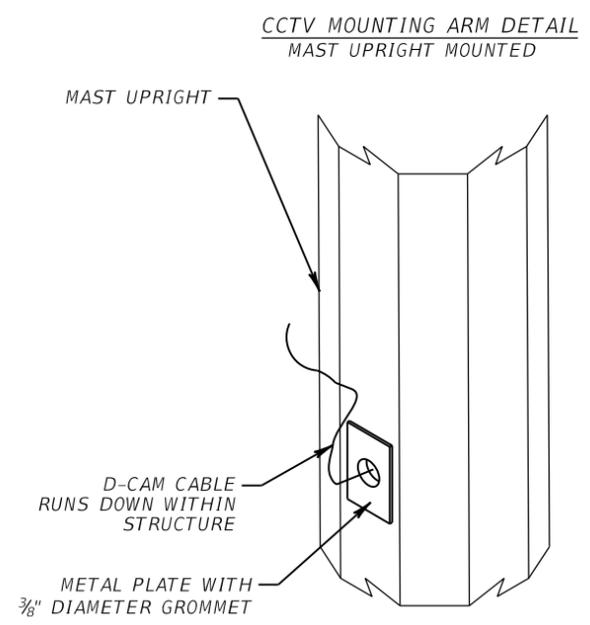
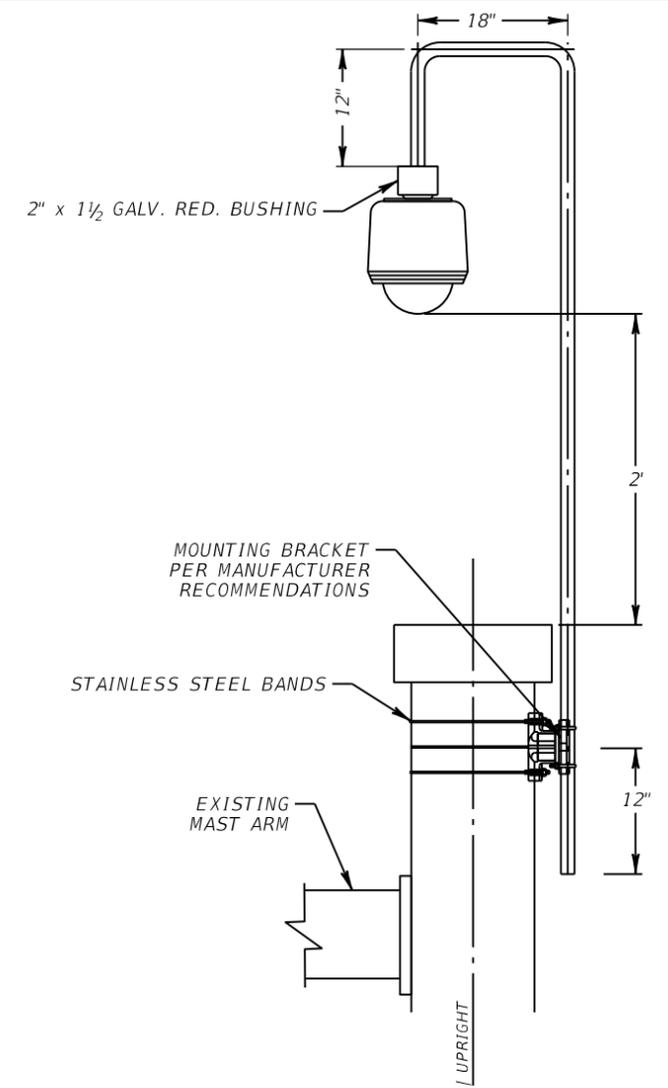
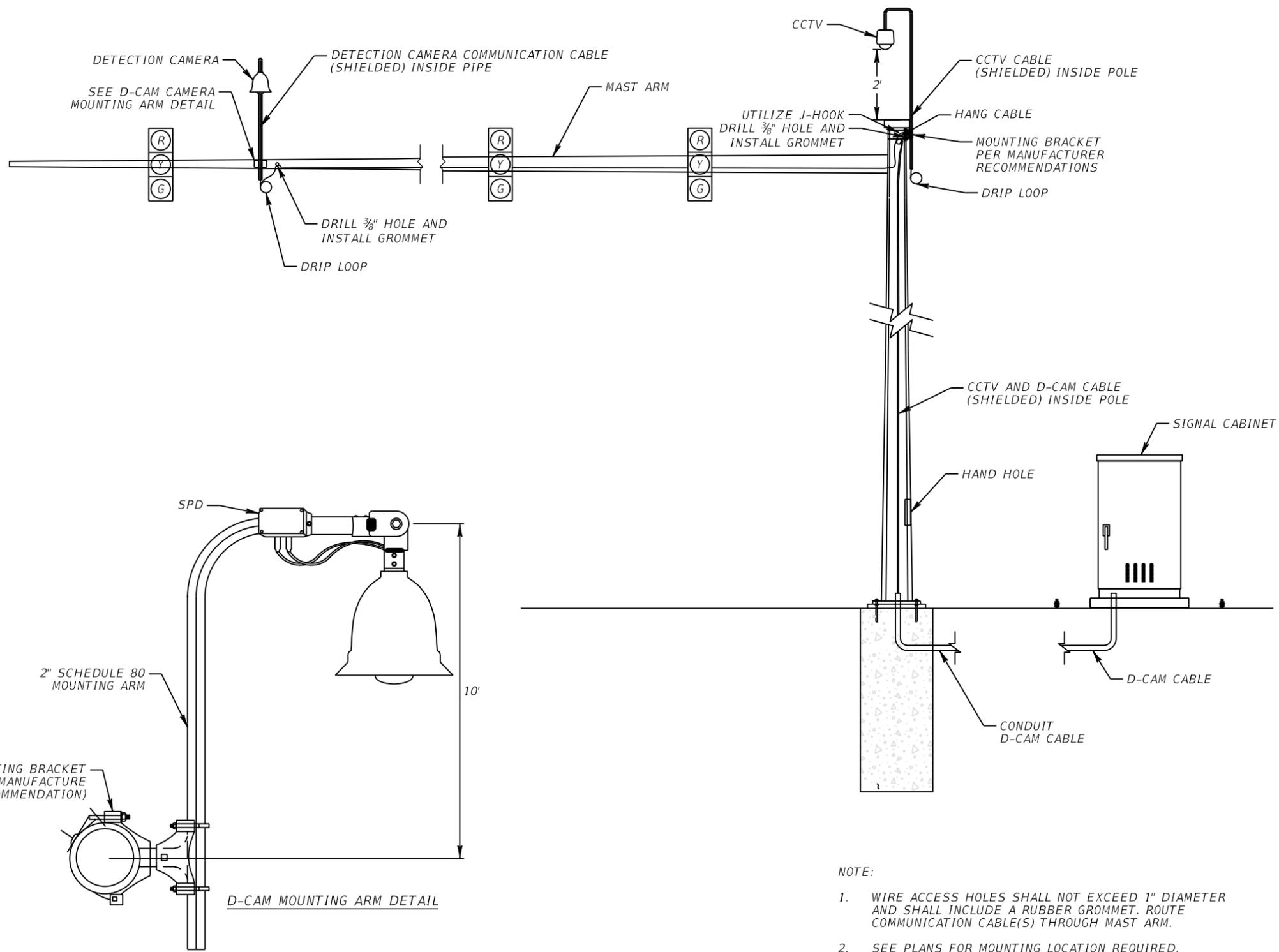
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POLE SCHEDULE DATA TABLE

POLE I.D.	POLE TYPE	POLE STYLE	ARM STYLE	COLOR	LUMINAIRE	BASE	BANNER	FIRST ARM LENGTH	SECOND ARM LENGTH	ANGLE BETWEEN ARMS
POLE 1	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOE BOX	NUT COVERS	NONE	60	-	-
POLE 2	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOE BOX	NUT COVERS	NONE	60	-	-
POLE 3	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOE BOX	NUT COVERS	NONE	40	-	-
POLE 4	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOE BOX	NUT COVERS	NONE	60	-	-

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		POLE SCHEDULE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		T-23
					COUNTRY CLUB ROAD	01785134		

**CCTV AND D-CAM MOUNTING MAST ARM
DETAILS**



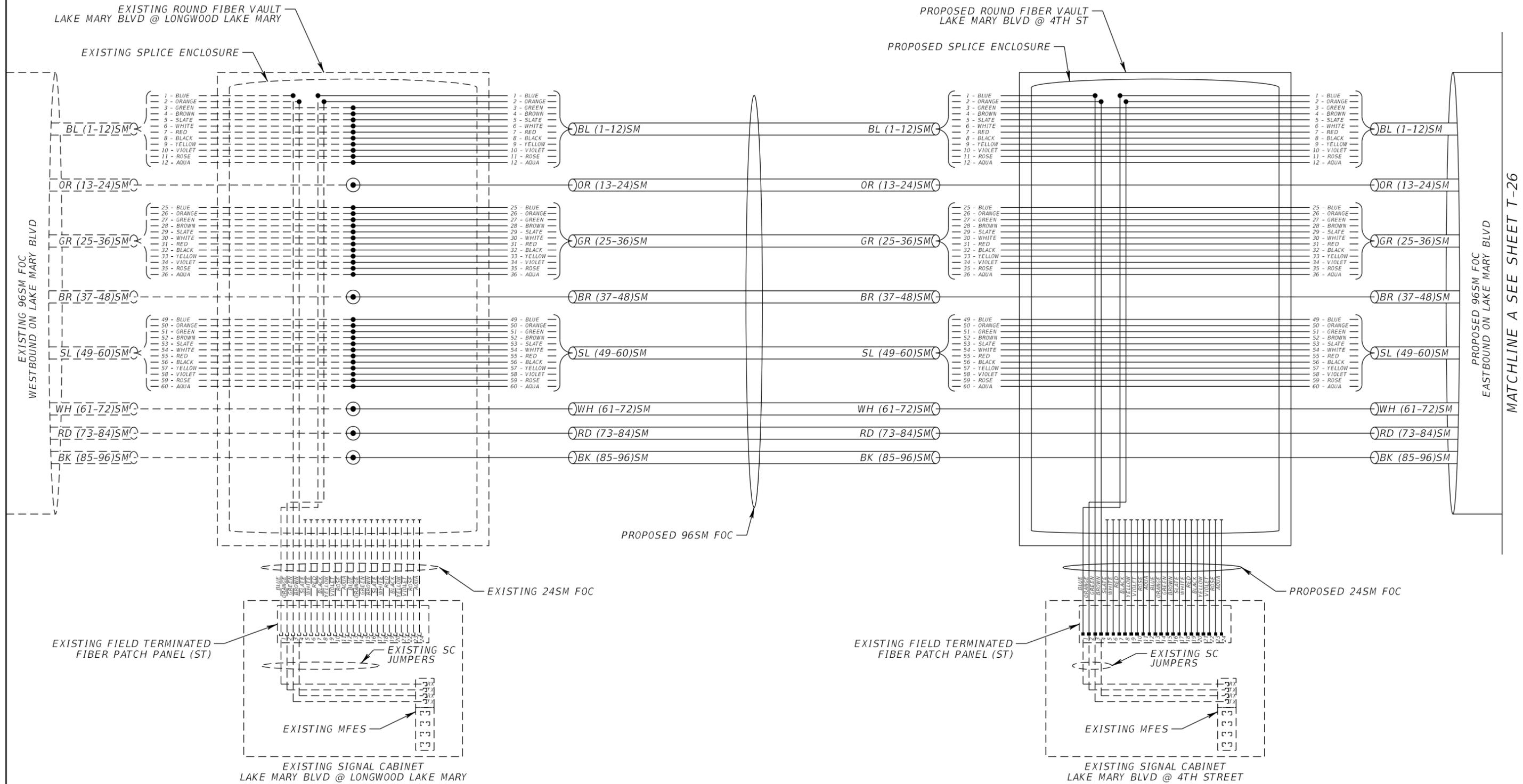
- NOTE:
1. WIRE ACCESS HOLES SHALL NOT EXCEED 1" DIAMETER AND SHALL INCLUDE A RUBBER GROMMET. ROUTE COMMUNICATION CABLE(S) THROUGH MAST ARM.
 2. SEE PLANS FOR MOUNTING LOCATION REQUIRED.
 3. CONTRACTOR SHALL MARK OUT VERTICAL REINFORCEMENTS PRIOR TO DRILLING HOLE FOR GROMMETS.

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		CAMERA MOUNTING DETAIL	SHEET NO. T-25
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEGEND

- FUSION SPLICE (PROPOSED) (SM BLUE) BUFFER TUBE
- FUSION SPLICE COLOR TO COLOR (PROPOSED) SM UNTERMINATED FIBER
- FUSION SPLICE (EXISTING) SC STD. CONNECTOR
- ⊗ BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- FIBER
- - - EXISTING FIBER
- ETHERNET SWITCH
- PATCH PANEL



MATCHLINE A SEE SHEET T-26

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
			EXISTING SIGNAL CABINET LAKE MARY BLVD @ 4TH STREET

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

SPlicing DIAGRAMS

SHEET NO.
T-27

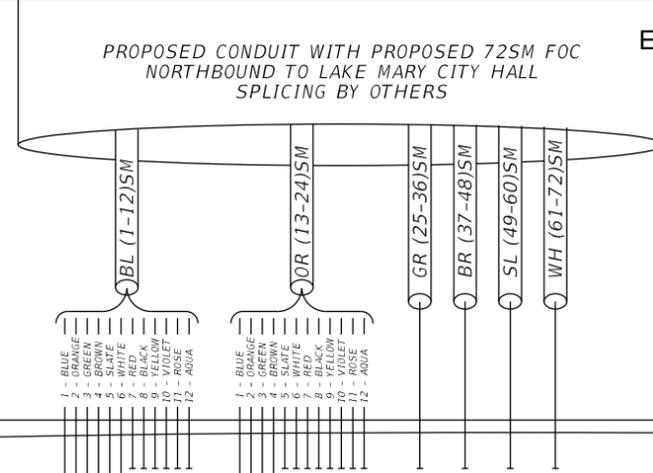
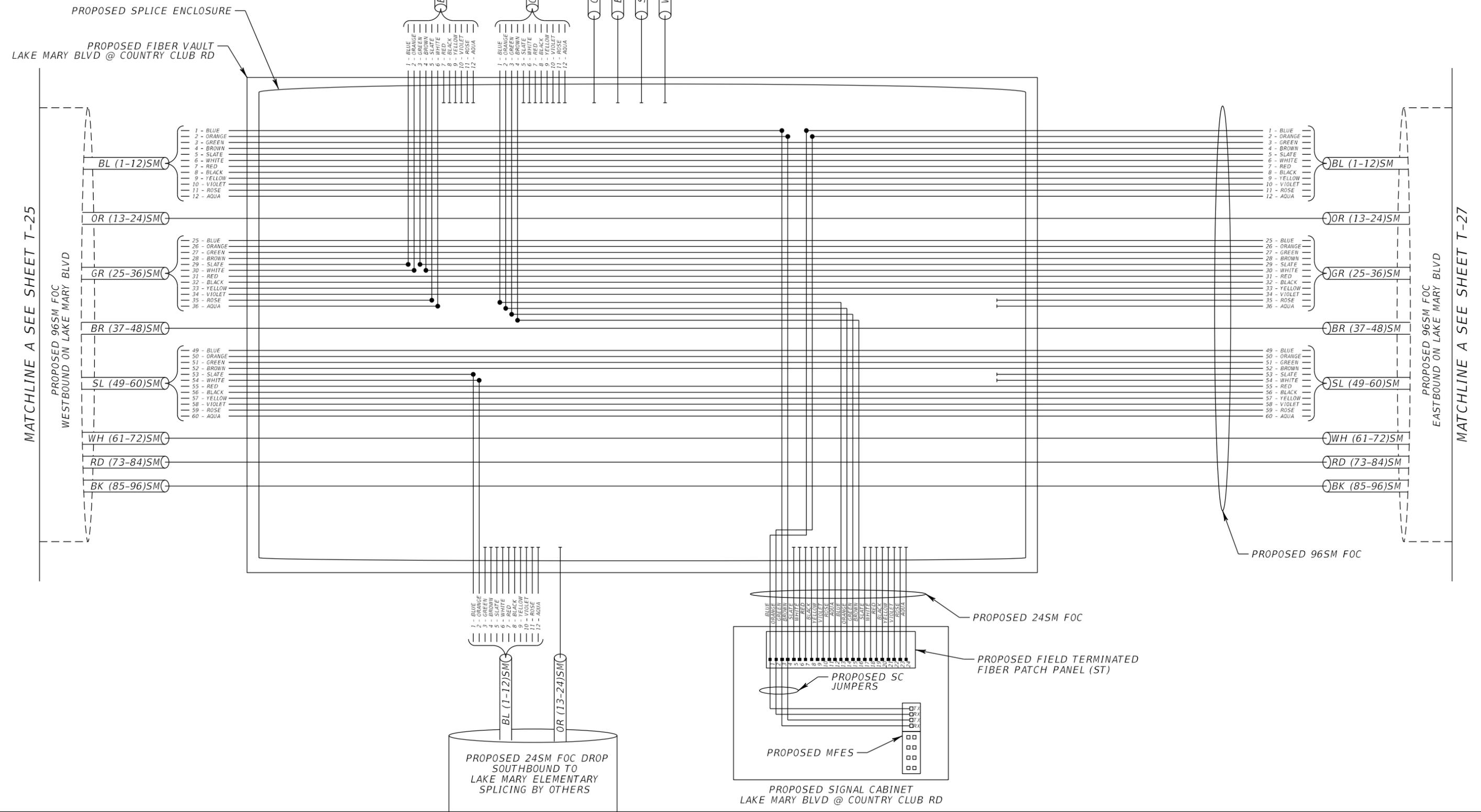


Exhibit "A"

LEGEND

●	FUSION SPLICE (PROPOSED)	○ SM BLUE	BUFFER TUBE	⊗	BREAK EXISTING FUSION SPLICE	—	FIBER
●	FUSION SPLICE COLOR TO COLOR (PROPOSED)	—	UNTERMINATED FIBER	□	CONNECTORIZED (EXISTING)	- -	EXISTING FIBER
○	FUSION SPLICE (EXISTING)	SM	SINGLE MODE	■	CONNECTORIZED (PROPOSED)	□ □ □ □ □ □ □ □	ETHERNET SWITCH
		SC	STD. CONNECTOR			▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬	PATCH PANEL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

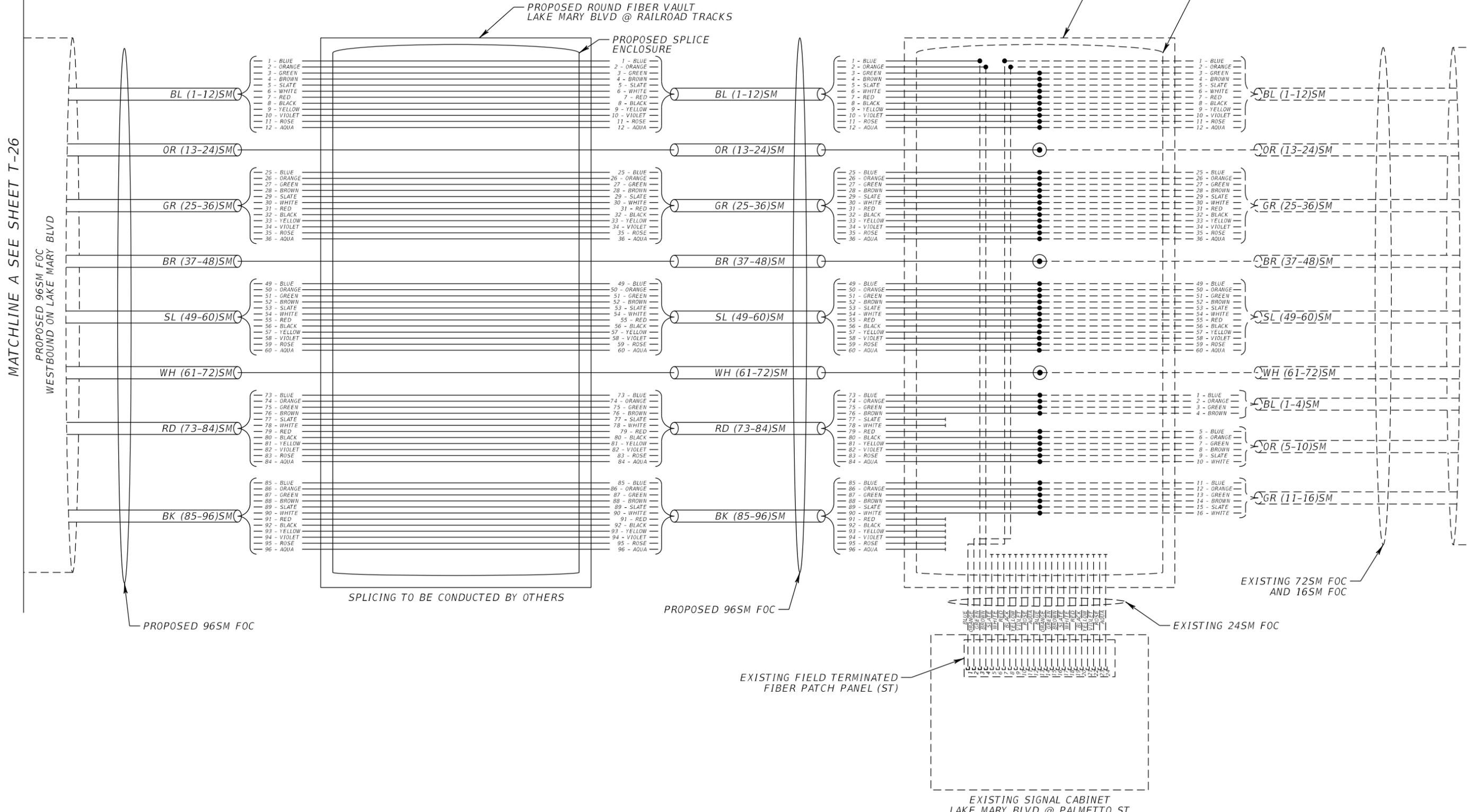
SPLICING DIAGRAMS

SHEET NO.
T-28

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LEGEND

- FUSION SPLICE (PROPOSED) (SM BLUE) BUFFER TUBE
- FUSION SPLICE COLOR TO COLOR (PROPOSED) UNTERMINATED FIBER
- FUSION SPLICE (EXISTING) STD. CONNECTOR
- ⊠ BREAK EXISTING FUSION SPLICE
- CONNECTORIZED (EXISTING)
- CONNECTORIZED (PROPOSED)
- FIBER
- - - EXISTING FIBER
- ETHERNET SWITCH
- PATCH PANEL



MATCHLINE A SEE SHEET T-26

EXISTING 72SM FOC AND 16SM FOC EASTBOUND ON LAKE MARY BLVD

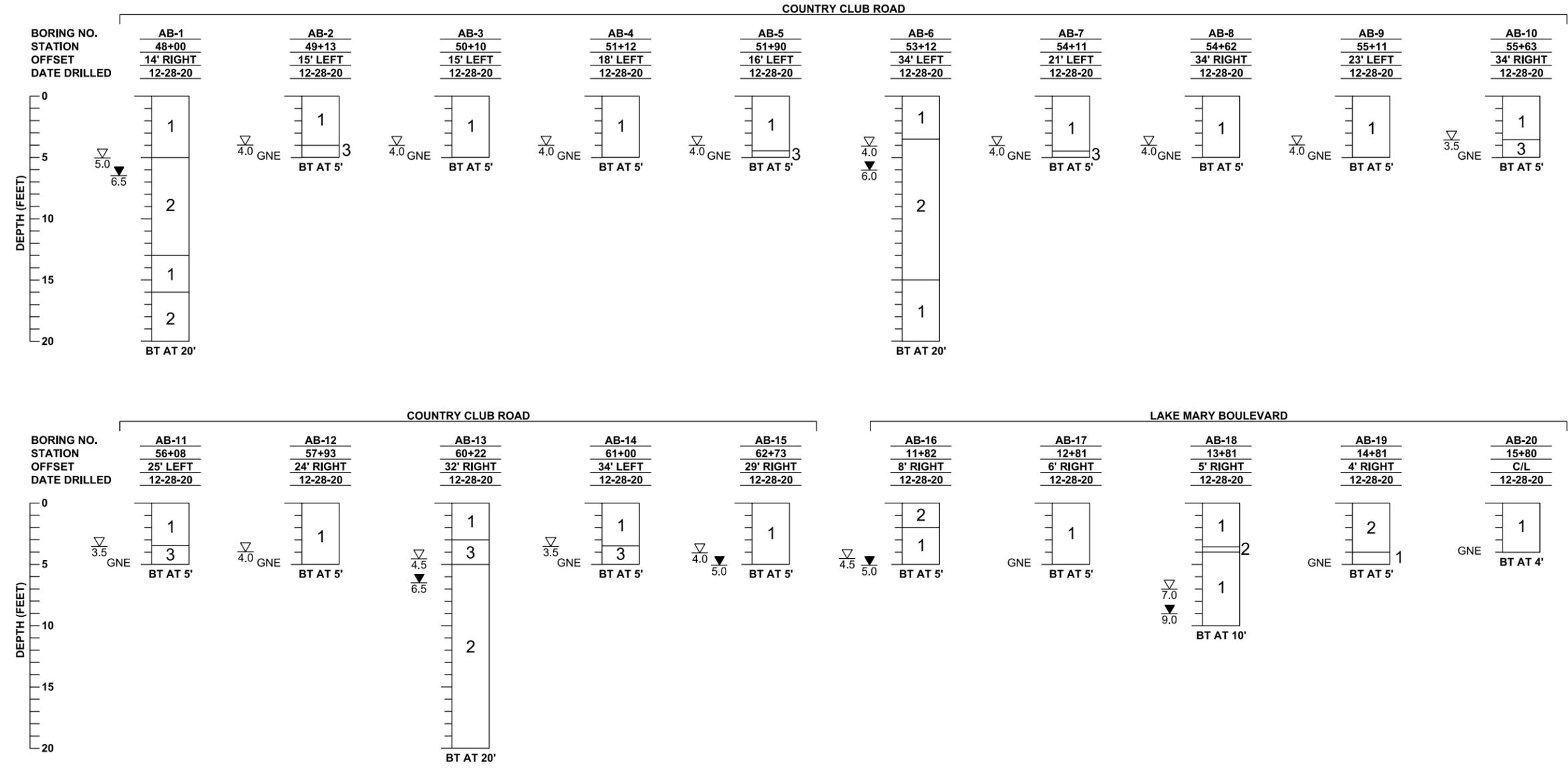
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

SPlicing DIAGRAMS

SHEET NO.
T-29



BORING LEGEND

- 1 STRATUM NUMBER
- ▽ 5.0 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
- ▼ 6.5 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
- GNE GROUNDWATER NOT ENCOUNTERED
- BT BORING TERMINATED AT DEPTH (FT.) INDICATED

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. AASHTO SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND LABORATORY TESTING PERFORMED.

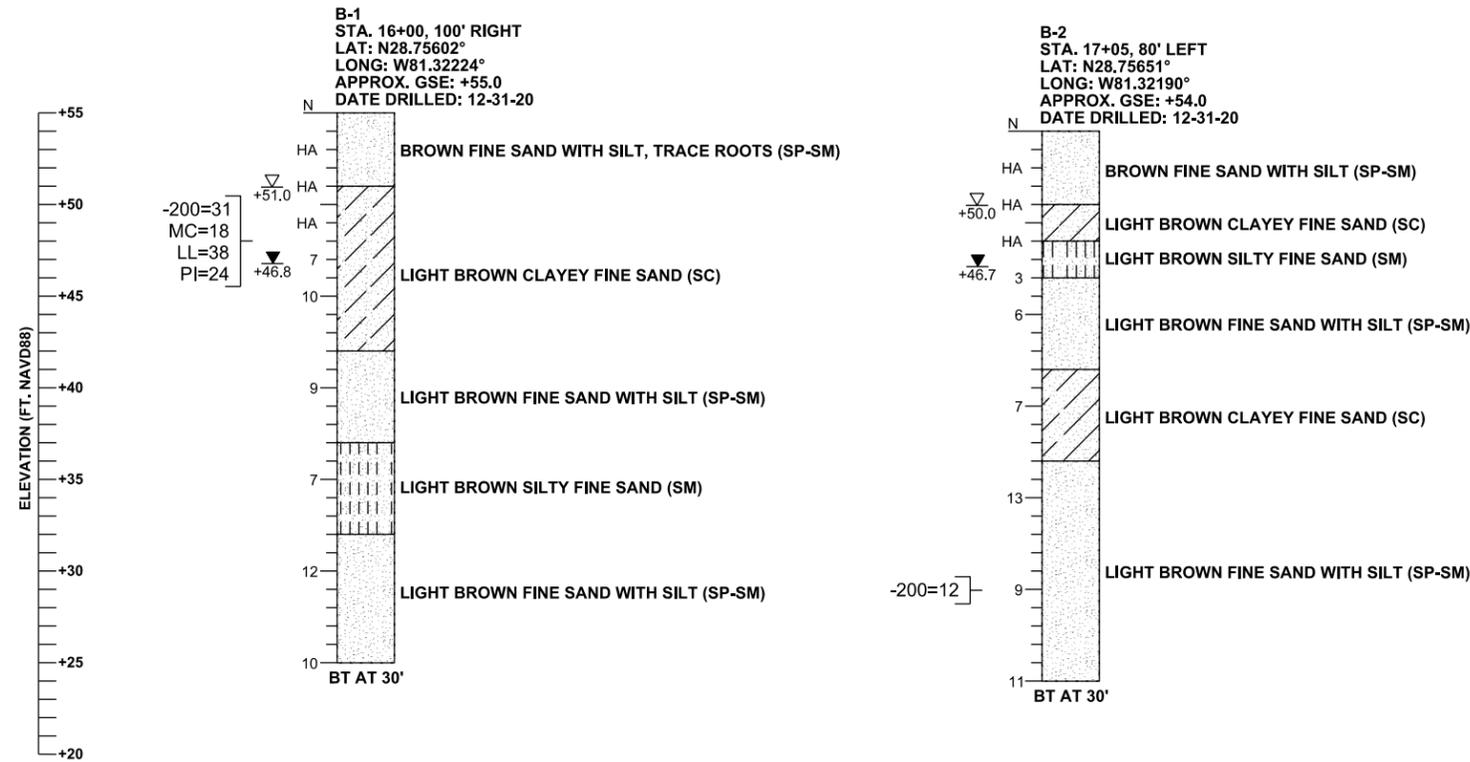
BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS TRIMBLE GPS UNIT.

STRATUM NO.	AASHTO CLASSIFICATION	SOIL DESCRIPTION
1	A-3	LIGHT BROWN TO BROWN TO LIGHT GRAY TO GRAY FINE SAND TO FINE SAND WITH SILT, OCCASIONAL LITTLE LIMESTONE AND FEW ASPHALT AND ROOTS
2	A-2-4	LIGHT BROWN FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL FEW LIMESTONE AND ROOTS
3	A-2-6	LIGHT BROWN TO BROWN TO GRAY CLAYEY FINE SAND

FIGURE 4

REVISIONS				DANIEL C. STANFILL, P.E. P.E. LICENSE NUMBER 42763 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FL. 32814	LAKE MARY BLVD. AT COUNTRY CLUB ROAD INTERSECTION IMPROVEMENTS		AUGER BORING RESULTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY		
					COUNTRY CLUB ROAD	SEMINOLE		

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LEGEND

- APPROX. GSE APPROXIMATE GROUND SURFACE ELEVATION (FT. NAVD88)
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- HA HAND AUGERED FOR UTILITY CLEARANCE
- ▽+51.0 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)
- ▼+46.8 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DATE DRILLED
- BT BORING TERMINATED AT DEPTH INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
- MC= PERCENT NATURAL MOISTURE CONTENT
- LL= LIQUID LIMIT
- PI= PLASTICITY INDEX
- SAND
- SAND AND SILT
- SAND AND CLAY

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

THE BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY TRIMBLE GPS UNIT.

APPROXIMATE GROUND SURFACE ELEVATIONS ARE BASED ON ROADWAY CROSS SECTIONS.

ACCORDING TO THE FDEP SEPTEMBER 2017 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDA AQUIFER IN THE VICINITY OF THE SUBJECT INTERSECTION IS APPROXIMATELY +30 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +30 FEET NGVD. BASED ON REVIEW OF THE U.S.G.S. SANFORD QUADRANGLE MAP, EXISTING GROUND SURFACE ELEVATIONS ARE APPROXIMATELY +50 TO +55 FEET NGVD AND ARTESIAN CONDITIONS ARE NOT ANTICIPATED.

SPLIT SPOON SAMPLER:
 INSIDE DIAMETER: 1.375 IN.
 OUTSIDE DIAMETER: 2.0 IN.
 AVERAGE HAMMER DROP: 30 IN.
 HAMMER WEIGHT: 140 LBS.
 HAMMER TYPE: AUTOMATIC

SECTIONS: 9 AND 16
 TOWNSHIP: 20 SOUTH
 RANGE: 30 EAST

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

AUTOMATIC HAMMER		
GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-3	VERY LOOSE
	3-8	LOOSE
	8-24	MEDIUM DENSE
	24-40	DENSE
	OVER 40	VERY DENSE
AUTOMATIC HAMMER		
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-1	VERY SOFT
	1-3	SOFT
	3-6	FIRM
	6-12	STIFF
	12-24	VERY STIFF
	OVER 24	HARD

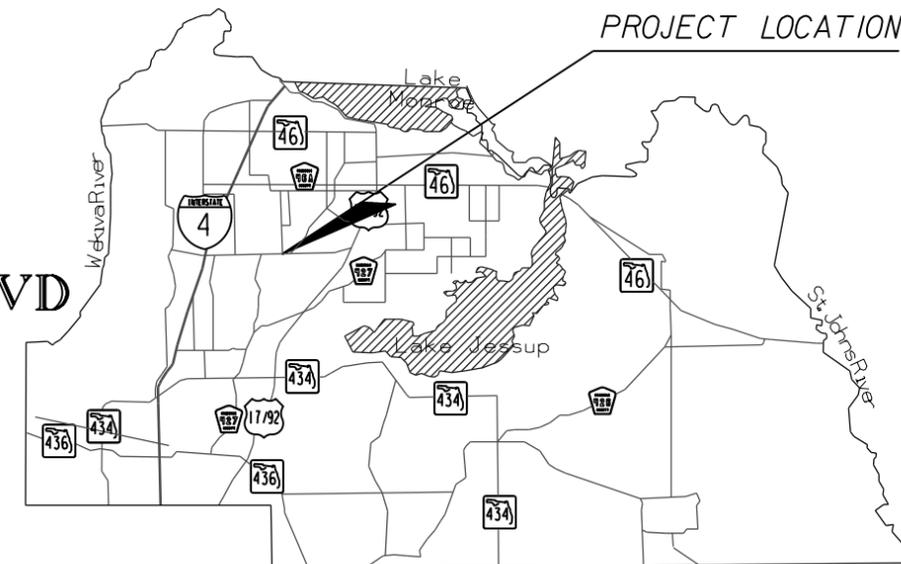
FIGURE 5

REVISIONS				DANIEL C. STANFILL, P.E. P.E. LICENSE NUMBER 42763 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FL 32814	LAKE MARY BLVD. AT COUNTRY CLUB ROAD INTERSECTION IMPROVEMENTS		SPT BORING RESULTS FOR MAST ARM SIGNAL POLES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY		
						COUNTRY CLUB ROAD		SEMINOLE

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Exhibit "A"
SEMINOLE COUNTY, FLORIDA
ENGINEERING DIVISION

CONTRACT PLANS
COUNTRY CLUB RD AT LAKE MARY BLVD
INTERSECTION IMPROVEMENTS
CIP NO. 01785134



INDEX OF SIGNING AND MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3	TABULATION OF QUANTITIES
S-4	GENERAL NOTES
S-5 - S-9	SIGNING AND PAVEMENT MARKING PLAN

BOARD OF COUNTY OF COMMISIONERS

DISTRICT 1

BOB DALLARI

DISTRICT 2

JAY ZEMBOWER

DISTRICT 3

LEE CONSTANTINE

DISTRICT 4

AMY LOCKHART

DISTRICT 5

ANDRIA HERR

DIRECTOR OF PUBLIC WORKS:
 JEAN JREIJ, P.E.

SIGNING AND MARKING PLANS
 ENGINEER OF RECORD:

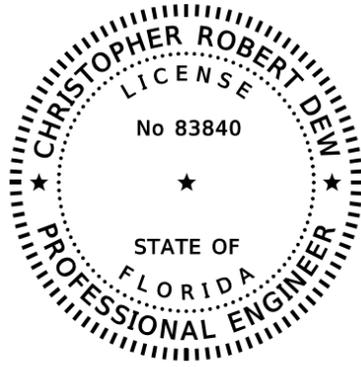
CHRISTOPHER R DEW, P.E.
 P.E. NO.: 83840
 METRIC ENGINEERING INC
 525 TECHNOLOGY PARK #153
 LAKE MARY, FL 32746
 VENDOR NO.: F-59-1685550

SEMINOLE COUNTY
 PROJECT MANAGER:
 HAROLD MCKNIGHT

FISCAL YEAR	SHEET NO.
24	S-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT
ARE NOT CONSIDERED SIGNED AND
SEALED AND THE SIGNATURE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK - SUITE 153
LAKE MARY, FLORIDA 32746
CERTIFICATE OF AUTHORIZATION 2294
CHRISTOPHER R. DEW, P.E. NO. 83840

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3	TABULATION OF QUANTITIES
S-4	GENERAL NOTES
S-5 - S-9	SIGNING AND PAVEMENT MARKING PLAN

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		S-2
					COUNTRY CLUB ROAD	01785134		

Exhibit "A"
TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			S-5		S-6		S-7		S-8		S-9		PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	4		8		11		6		2						31		31	
700-1-50	SINGLE POST SIGN, RELOCATE	AS					2		1		1						4		4	
700-1-60	SINGLE POST SIGN, REMOVE	AS	4		6		9		4		2						25		25	
705-10-1	OBJECT MARKER, TYPE 1	EA					2										2		2	
706-1-3	RAISED PAVEMENT MARKING, TYPE B	EA																		
*	RETRO-REFLECTIVE PAVEMENT MARKERS, WHITE-RED	EA	5		30		102		31		37						205		205	
*	RETRO-REFLECTIVE PAVEMENT MARKERS, MONO-YELLOW	EA					60										60		60	
*	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW-YELLOW	EA	52		83		20		18								173		173	
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.125		0.219		0.527		0.189		0.176						1.235		1.235	
711-11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM							0.012								0.012		0.012	
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, FOR CROSSWALK & ROUNDABOUT, 12"	LF	227		663		1905										2795		2795	
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, FOR STOP LINE OR CROSSWALK, 24"	LF	44		29		249		44								366		366	
710-11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM					0.038				0.078						0.116		0.116	
710-11-133	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 3'-9' SKIP DROP LINE AND APPROACH TO TOLL PLAZA, 12"	GM					0.037		0.051								0.088		0.088	
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	GM	0.009		0.054		0.126		0.021		0.111						0.320		0.320	
710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	1				5		2		1						9		9	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	1		10		25		8		7						51		51	
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.130		0.217		0.217		0.116		0.088						0.767		0.767	
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, FOR DIAGONAL OR CHEVRON, 18"	LF	22		52												74		74	
710-11-241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE /6-10 DOTTED EXTENSION, 6"	GM	0.030				0.049		0.010								0.089		0.089	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF					8										8		8	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	227		561		1905										2693		2693	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	44		29		249		44								366		366	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.009		0.054		0.126		0.021		0.111						0.320		0.320	
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					2										2		2	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	1		10		21		2		6						40		40	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	22		52												74		74	
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.030				0.049		0.010								0.089		0.089	
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF			102												102		102	
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	1				2				1						4		4	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA					2				1						3		3	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.125		0.219		0.491		0.084		0.176						1.094		1.094	
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM					0.038				0.078						0.116		0.116	
711-16-133	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA OR 3-9 LANE DROP	GM					0.037		0.051								0.088		0.088	
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID 6"	GM	0.130		0.217		0.188		0.006		0.088						0.628		0.628	

THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

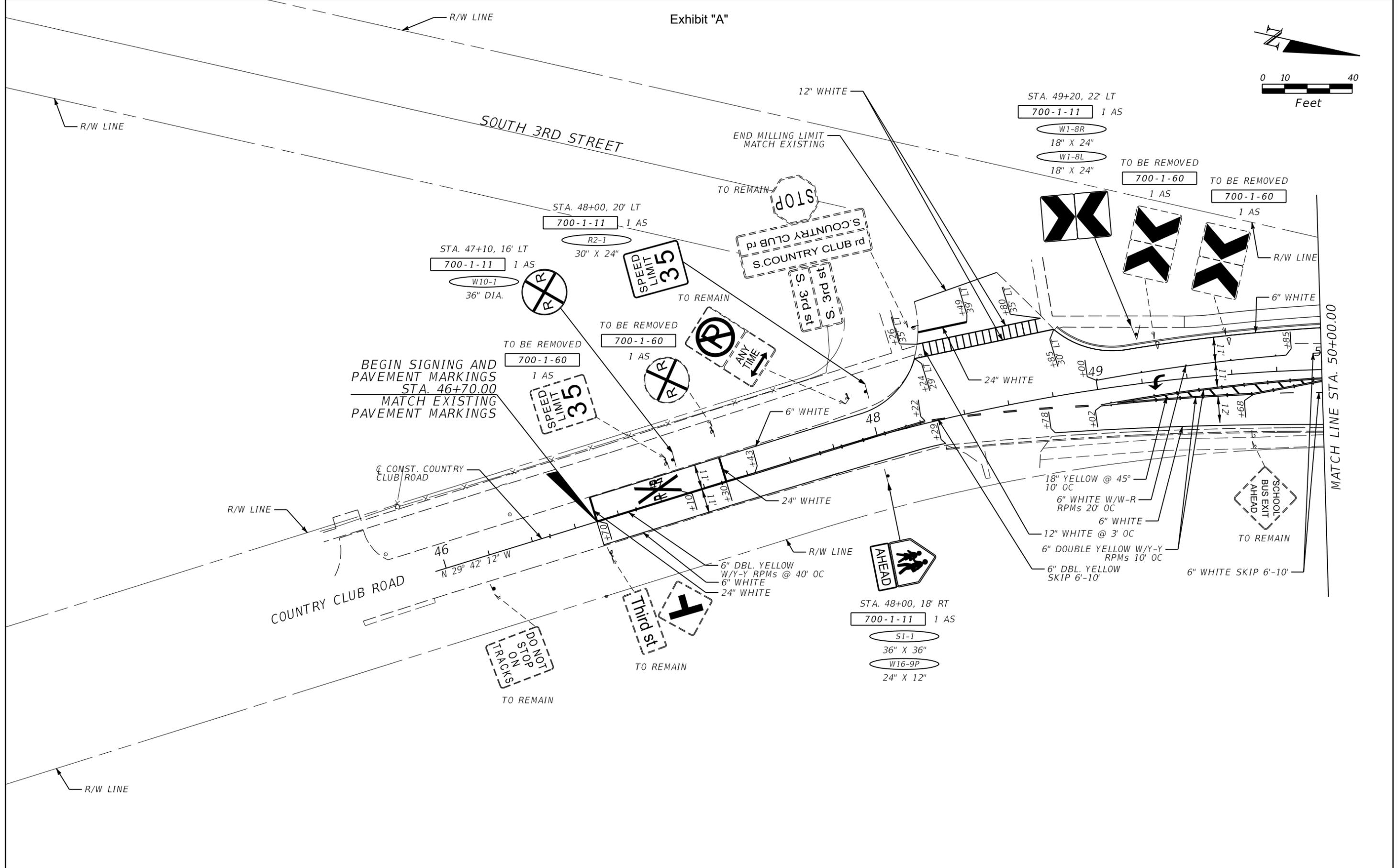
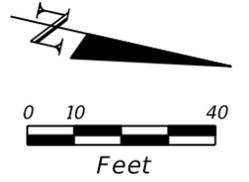
REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		S-3
					COUNTRY CLUB ROAD	01785134		

Exhibit "A"

SIGNING AND PAVEMENT MARKING GENERAL NOTES:

- COORDINATE WITH LYNX, PROVIDING AT LEAST 14 DAYS NOTICE TO REMOVE OR RELOCATE SIGNS AND BENCHES. COORDINATE WITH THE LYNX BUS STOP COORDINATOR AT (407) 254-6180 AND LYNX FACILITIES MAINTENANCE AT (407) 254-6010.

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		S-4
					COUNTRY CLUB ROAD	01785134		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

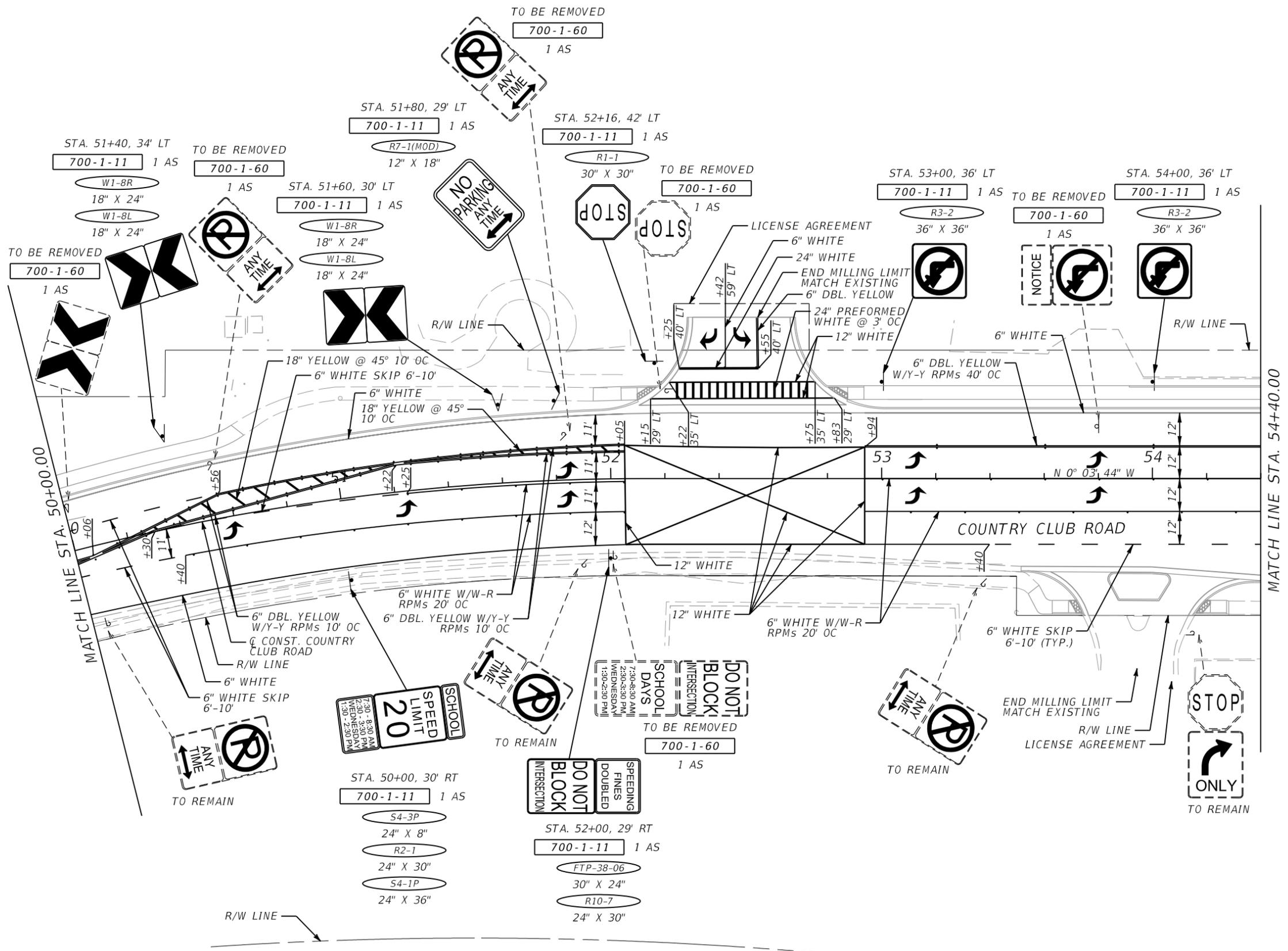
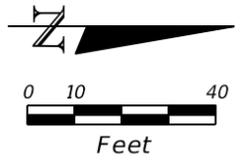
SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET NO.
S-5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Exhibit "A"



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER R. DEW, P.E.
 P.E. LICENSE NUMBER 83840
 METRIC ENGINEERING, INC.
 525 TECHNOLOGY PARK, SUITE 153
 LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-6

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTE: NORTH OF LAKE MARY BLVD ALL NORTHBOUND MARKINGS SHALL BE PAINTED. ALL SOUTHBOUND MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

Exhibit "A"

MATCH LINE STA. 14+90.00 SEE SHEET S-9



Feet
0 10 40

STA. 59+80, 33' LT
700-1-11 1 AS

W10-2L
36" X 36"

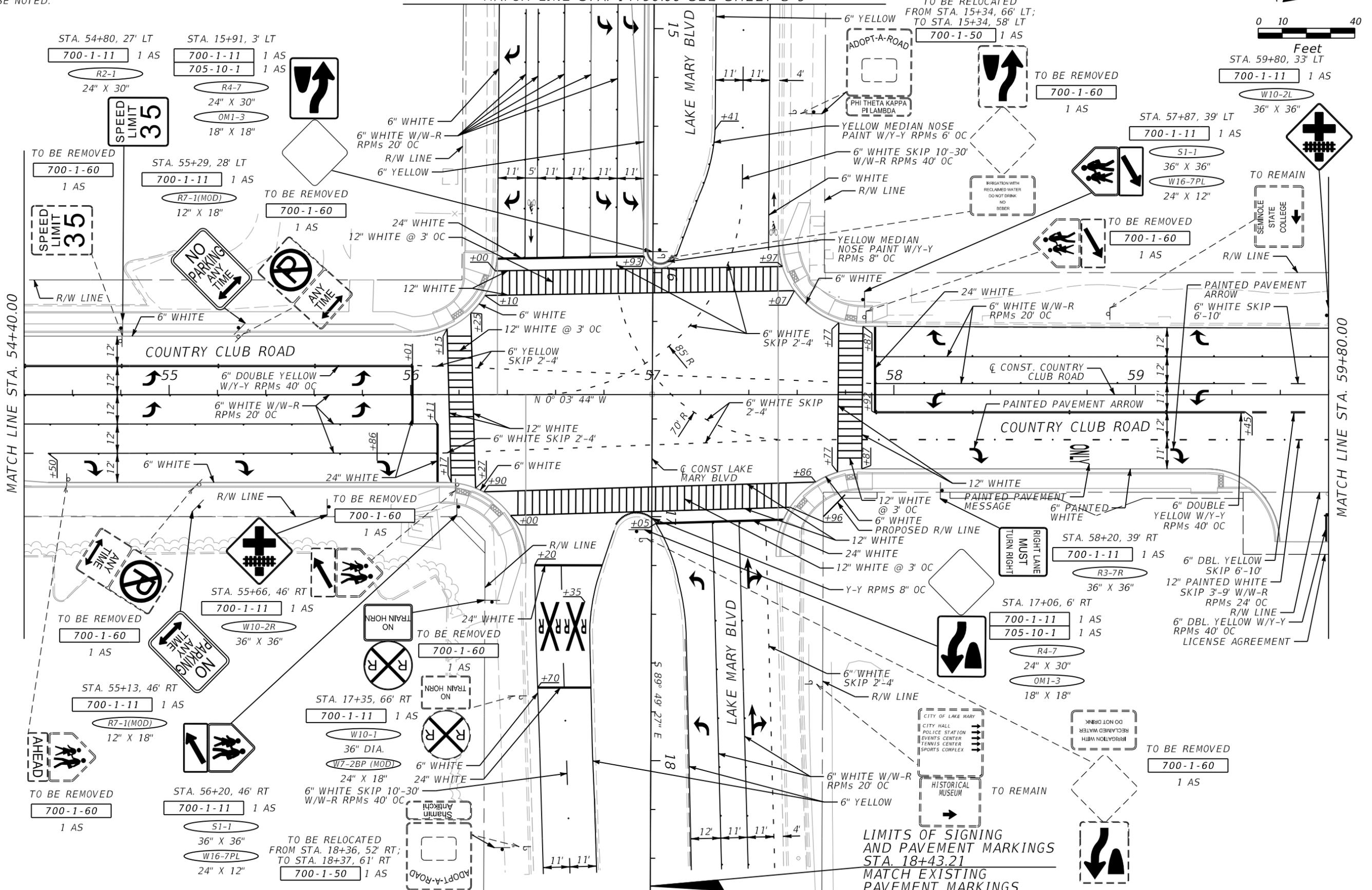
STA. 57+87, 39' LT
700-1-11 1 AS

S1-1
36" X 36"

W16-7PL
24" X 12"

TO REMAIN
SEMINOLE STATE COLLEGE

TO BE REMOVED
700-1-60 1 AS



MATCH LINE STA. 54+40.00

MATCH LINE STA. 59+80.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

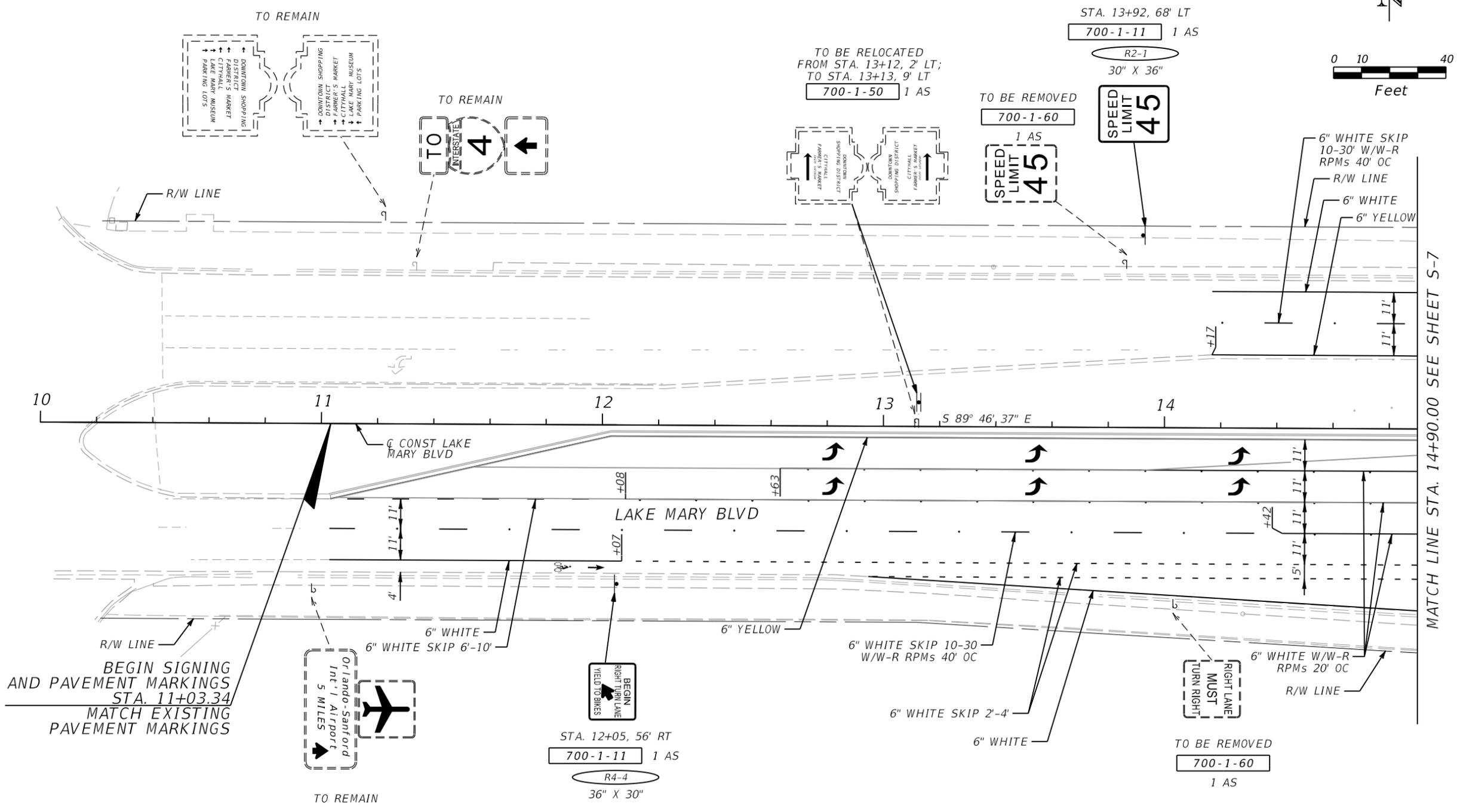
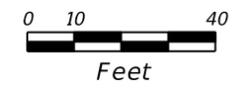
CHRISTOPHER R. DEW, P.E.
P.E. LICENSE NUMBER 83840
METRIC ENGINEERING, INC.
525 TECHNOLOGY PARK, SUITE 153
LAKE MARY, FLORIDA 32746

SEMINOLE COUNTY ENGINEERING DIVISION	
PROJECT NAME	PROJECT ID
COUNTRY CLUB ROAD	01785134

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
S-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BEGIN SIGNING AND PAVEMENT MARKINGS STA. 11+03.34
MATCH EXISTING PAVEMENT MARKINGS

REVISIONS				CHRISTOPHER R. DEW, P.E. P.E. LICENSE NUMBER 83840 METRIC ENGINEERING, INC. 525 TECHNOLOGY PARK, SUITE 153 LAKE MARY, FLORIDA 32746	SEMINOLE COUNTY ENGINEERING DIVISION		SIGNING AND PAVEMENT MARKING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME	PROJECT ID		
					COUNTRY CLUB ROAD	01785134		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Exhibit "A"

St. Johns River

Water Management District

Ann B. Shortelle, Ph.D., Executive Director

601 South Lake Destiny Road, Suite 200 • Maitland, FL 32751 • 407-659-4800 • www.sjrwmd.com

June 24, 2021

Dino Lucarelli
Metric Engineering
100 East 1st Street
Sanford, FL 32771-1302
Sent via email: dlucarelli@seminolecountyfl.gov

Re: Country Club Rd at Lake Mary Blvd - Intersection Improvements
PDEX: 168078-1
(Please reference the exemption number on all correspondence.)

Dear Mr. Lucarelli:

On March 26, 2021, the St. Johns River Water Management District received your application, construction plans, drainage report, and determination fee requesting an exemption verification for the above referenced safety improvement project. Based on this submittal, the proposed project involves the construction of multiple turn lane improvements at Lake Mary Boulevard and Country Club Road with associated stormwater conveyance adjustments and milling and resurfacing.

Pursuant to 62-330.051(4)(c), Florida Administrative Code (F.A.C.), an Environmental Resource Permit is not required since the project meets the exemption requirements.

Please be advised that this determination only applies to the District and does not relieve you from the permitting requirements of other agencies.

Thank you for your cooperation with the permitting and compliance process. If you have any questions, please contact the District at (407) 659-4871 or by email at sjoiner@sjrwmd.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sandra Joiner'.

Sandra Joiner, P.E.
Supervising Professional Engineer
Division of Regulatory Services

CC: Regulatory File

GOVERNING BOARD

Douglas Burnett, CHAIRMAN
ST. AUGUSTINE

Doug Bourmique
VERO BEACH

Rob Bradley, VICE CHAIRMAN
FLEMING ISLAND

Cole Oliver
MERRITT ISLAND

Susan Dolan, SECRETARY
SANFORD

J. Chris Peterson
WINTER PARK

Ron Howse, TREASURER
COCOA

Janet Price
FERNANDINA BEACH

Alicia Lowenstein, DEP CD

Sent via email: Alicia.lowenstein@floridadep.gov

Jessica Bloomfield, Metric Engineering

Sent via email: JBloomfield@metriceng.com



LAKE MARY AT COUNTRY CLUB INTERSECTION IMPROVEMENTS
CIP # 01785134

BID TABULATION

ITEM NUMBER	ITEM	UNIT	QUANTITY	UNIT PRICE	PROJECT PRICE
102-99	CHANGEABLE VARIABLE MESSAGE SIGN (TEMPORARY)	ED	180	\$ 25.70	\$ 4,626.00
104-10-3	SEDIMENT BARRIER	LF	1425	\$ 3.05	\$ 4,346.25
104-18	INLET PROTECTION SYSTEM	EA	14	\$ 85.00	\$ 1,190.00
107-1	LITTER REMOVAL	AC	1.49	\$ 6,292.00	\$ 9,375.08
107-2	MOWING	AC	0.80	\$ 5,156.25	\$ 4,125.00
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	1181	\$ 43.20	\$ 51,019.20
120-1	REGULAR EXCAVATION	CY	1417	\$ 59.25	\$ 83,957.25
120-6	EMBANKMENT	CY	38.0	\$ 153.00	\$ 5,814.00
160-4	TYPE B STABILIZATION	SY	2433	\$ 23.10	\$ 56,202.30
285-709	OPTIONAL BASE, BASE GROUP 09	SY	1846	\$ 71.10	\$ 131,250.60
327-70-1	MILLING EXISTING ASPHALT PAVEMENT (1" AVG DEPTH)	SY	8702	\$ 13.50	\$ 117,477.00
334-1-13	SUPERPAVE, ASPHALTIC CONCRETE, TRAFFIC C	TN	178.8	\$ 225.00	\$ 40,230.00
337-7-82	ASPHALT CONCRETE FRICTION COURSE (TRAFFIC C) (PG76-22) (FC-9.5)	TN	584	\$ 255.00	\$ 148,920.00
425-1-341	INLETS, CURB TYPE P-4, <10'	EA	1	\$ 10,500.00	\$ 10,500.00
425-1-351	INLETS, CURB TYPE P-5, <10'	EA	2	\$ 12,690.00	\$ 25,380.00
425-1-361	INLETS, CURB TYPE P-6, <10'	EA	2	\$ 10,190.00	\$ 20,380.00
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	2	\$ 5,875.00	\$ 11,750.00
425-2-61	MANHOLE, P-8, <10'	EA	3	\$ 6,375.00	\$ 19,125.00
425-4	INLET, ADJUST	EA	1	\$ 4,562.50	\$ 4,562.50
430-175-115	CONCRETE PIPE CULVERT, S/CD, CLASS III, 15"	LF	78	\$ 357.25	\$ 27,865.50
430-175-118	CONCRETE PIPE CULVERT, S/CD, CLASS III, 18"	LF	196	\$ 214.65	\$ 42,071.40
430-175-218	ELLIPTICAL CONCRETE PIPE CULVERT, S/CD, CLASS HE-III, 14"x23"	LF	310	\$ 237.00	\$ 73,470.00
430-175-224	ELLIPTICAL CONCRETE PIPE CULVERT, S/CD, CLASS HE-III, 19"x30"	LF	8	\$ 758.75	\$ 6,070.00
515-1-2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM, F&I	LF	133	\$ 76.10	\$ 10,121.30
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	1965	\$ 38.70	\$ 76,045.50
520-2-1	CONCRETE CURB, TYPE A	LF	1014	\$ 38.65	\$ 39,191.10
520-2-2	CONCRETE CURB, TYPE B	LF	61	\$ 92.20	\$ 5,624.20
520-3	CONCRETE VALLEY GUTTER	LF	144	\$ 75.50	\$ 10,872.00
522-1	CONCRETE SIDEWALK 4" THICK	SY	557	\$ 65.50	\$ 36,483.50
522-2	CONCRETE SIDEWALK 6" THICK	SY	243	\$ 72.55	\$ 17,629.65
527-2	DETECTABLE WARNING (PERFORMED THERMOPLASTIC)	SF	166	\$ 37.65	\$ 6,249.90
570-1-2	PERFORMANCE TURF, SOD	SY	1621	\$ 10.78	\$ 17,474.38
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	990	\$ 36.35	\$ 35,986.50
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2515	\$ 45.70	\$ 114,935.50
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION, F&I	LF	2295	\$ 5.95	\$ 13,655.25
632-7-6	SIGNAL CABLE REMOVE- INTERSECTION	LF	2000	\$ 1.32	\$ 2,640.00
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF	1620	\$ 3.75	\$ 6,075.00
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	9100	\$ 4.20	\$ 38,220.00
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	6835	\$ 2.40	\$ 16,404.00
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	208	\$ 67.50	\$ 14,040.00
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	48	\$ 112.50	\$ 5,400.00
633-3-11	FIBER OPTIC CONNECTION, HARDWARE, F&I, SPLICE ENCLOSURE	EA	4	\$ 2,175.00	\$ 8,700.00
633-3-12	FIBER OPTIC CONNECTION, HARDWARE, F&I, SPLICE TRAY	EA	17	\$ 135.00	\$ 2,295.00

Exhibit "B"

633-3-16	FIBER OPTIC CONNECTION, HARDWARE, F&I, PATCH PANEL-FIELD TERMINATED	EA	1	\$	2,700.00	\$	2,700.00
635-2-11	PULL & SPLICE BOX, F&I, 13"x24" COVER SIZE	EA	30	\$	2,335.50	\$	70,065.00
635-2-12	PULL & SPLICE BOX, F&I, 24"x36" COVER SIZE (24" DEEP)	EA	6	\$	4,139.70	\$	24,838.20
635-2-13	PULL & SPLICE BOX, F&I, 30"x60" RECT. OR 36" ROUND COVER SIZE (24" DEEP)	EA	6	\$	7,564.60	\$	45,387.60
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS	1	\$	5,211.25	\$	5,211.25
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	150	\$	10.90	\$	1,635.00
641-2-12	PRESTRESSES CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA	1	\$	3,118.60	\$	3,118.60
641-2-60	PRESTRESSES CONCRETE POLE, COMPLETE POLE REMOVAL-PEDESTAL/SERVICE POLE	EA	2	\$	1,059.00	\$	2,118.00
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8	\$	4,481.00	\$	35,848.00
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 40'	EA	1	\$	133,303.50	\$	133,303.50
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	EA	3	\$	83,725.70	\$	251,177.10
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION-BOLT ON ATTACHMENT	EA	4	\$	10,524.00	\$	42,096.00
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	14	\$	2,037.50	\$	28,525.00
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8	\$	1,565.70	\$	12,525.60
660-1-110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	EA	8	\$	656.70	\$	5,253.60
660-2-102	LOOP ASSEMBLY - F&I, TYPE B	AS	8	\$	1,603.65	\$	12,829.20
660-2-106	LOOP ASSEMBLY - F&I, TYPE F	AS	16	\$	1,792.65	\$	28,682.40
660-4-41	VEHICLE DETECTION SYSTEM-VIDEO, RELOCATE CABINET EQUIPMENT	EA	1	\$	1,980.00	\$	1,980.00
660-4-42	VEHICLE DETECTION SYSTEM-VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA	2	\$	3,840.00	\$	7,680.00
660-6-421	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH RELOCATE, CABINET EQUIPMENT	EA	1	\$	2,640.00	\$	2,640.00
660-6-422	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH RELOCATE, ABOVE GROUND EQUIPMENT	EA	1	\$	3,390.00	\$	3,390.00
663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA	4	\$	3,696.00	\$	14,784.00
663-1-121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, GPS, CABINET ELECTRONICS	EA	1	\$	11,905.60	\$	11,905.60
663-1-122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, GPS, DETECTOR	EA	1	\$	10,435.00	\$	10,435.00
665-1-11	PEDESTRIAN DETECTOR. F&I, STANDARD	EA	8	\$	593.00	\$	4,744.00
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1	\$	68,973.30	\$	68,973.30
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1	\$	2,112.00	\$	2,112.00
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE-PRESSURIZED, IP, HIGH DEFINITION	EA	1	\$	10,200.00	\$	10,200.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1	\$	5,625.00	\$	5,625.00
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH & INSTALL, LINE INTERACTIVE WITH CABINET	EA	1	\$	14,619.70	\$	14,619.70
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4	\$	12,621.00	\$	50,484.00
700-11-321	ELECTRONIC DISPLAY SIGN, F&I OVERHAED MOUNT-AC POWERED, REGULATOR SIGN, UP TO 12 SF	AS	4	\$	8,252.65	\$	33,010.60
700-1-11	SIGNLE POST SIGN, F&I GROUT MOUNT (UP TO 12 SF)	AS	31	\$	481.25	\$	14,918.75
700-1-50	SIGNLE POST SIGN, RELOCATE	AS	5	\$	187.50	\$	937.50
700-1-60	SIGNLE POST SIGN, REMOVE	AS	24	\$	62.50	\$	1,500.00
705-10-1	OBJECT MARKER, TYPE 1	EA	2	\$	331.25	\$	662.50
706-1-1	RAISED PAVEMENT MARKINGS, TYPE B	EA	438	\$	5.00	\$	2,190.00
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 6"	LF	6523	\$	0.45	\$	2,935.35
710-11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 8"	LF	64	\$	0.55	\$	35.20
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 12" FOR CROSSWALK & ROUNDABOUT	LF	2693	\$	1.90	\$	5,116.70
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID 24" FOR STOP LINE OR CROSSWALK	LF	468	\$	3.75	\$	1,755.00
710-11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6" 10-30 OR 3-9 LANE DROP	LF	614	\$	0.20	\$	122.80
710-11-133	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 3'-9" SKIP DROP LINE, 12"	GM	0.088	\$	2,640.00	\$	232.32
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT.6"	LF	1691	\$	0.20	\$	338.20
710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	9	\$	31.25	\$	281.25
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	51	\$	31.25	\$	1,593.75
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID 6"	LF	4049	\$	0.45	\$	1,822.05
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, FOR DIAGONAL ORCHEVRON, 18"	LF	74	\$	3.15	\$	233.10
710-11-241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXT.6"	LF	472	\$	0.20	\$	94.40
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	8	\$	3.15	\$	25.20
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	5777	\$	1.75	\$	10,109.75
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	2693	\$	4.40	\$	11,849.20
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE OR CROSSWALK	LF	366	\$	6.90	\$	2,525.40
711-11-131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6" 10-30 OR 3-9 LANE DROP	LF	614	\$	0.60	\$	368.40

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS
CONSTRUCTION FORMS
EXHIBIT TO THE AGREEMENT

TO BE PROVIDED TO THE CONTRACTOR WITH THE AGREEMENT

Application for Payment	C-01
Continuation Sheet for Application for Payment.....	C-01 (2)
Change Order Form	C-02
Shop Drawing Submittals	C-03
Authorized Field Change (AFC)	C-04
Certificate of Substantial Completion	C-05
Certificate of Final Completion	C-06
Contractor’s Release	C-07
Contractor’s Waiver of Lien (Partial)	C-08
Subcontractor’s Waiver of Lien (Partial)	C-09
Contractor’s Waiver of Lien (Final and Complete)	C-10
Subcontractor’s Waiver and Release of Lien (Final)	C-11
Consent of Surety to Final Payment	C-12

Any manipulations of these documents would be grounds for fraud and misrepresentation.

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

APPLICATION FOR PAYMENT

Contract for: _____ Payment Application No.: _____

County Contract No.: _____ CIP No.: _____

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by County	\$ _____	\$ _____
Total approved this month	\$ _____	\$ _____
TOTAL	\$ _____	\$ _____
NET CHANGES by Change Order	\$ _____	

1. ORIGINAL CONTACT SUM \$ _____
2. NET CHANGE BY CHANGEORDER \$ _____
3. CONTACT SUM TO DATE (Line 1 & Line 2) \$ _____
4. TOTAL COMPLETED AND STORED TO DATE..... \$ _____
5. RETAINAGE:
 - (a) _____ % of Completed Work..... \$ _____
 - (b) _____ % of Stored Material \$ _____
 - Total Retainage (Lines 5a + 5b, or Total in Column 1) \$ _____
6. TOTAL EARNED LESS RETAINAGE \$ _____
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$ _____
(Line 6 from Prior Payment Application)
8. CURRENT PAYMENT DUE..... \$ _____
9. BALANCE TO FINISH INCLUDING RETAINAGE (Line 3 minus Line 6)..... \$ _____

The undersigned Contractor certifies that (1) all previous payments for Work performed have been applied to discharge in full all obligations on the Contractor incurred in connection with Work covered by prior payment applications (1 through ___) under this Agreement; (2) all Materials and Equipment incorporated in the project are free and clear of liens, security interests and encumbrances; (3) all previous payments have been applied to pay in full, minus retainage, all amounts owed to its subcontractors and suppliers; (4) all information provided is true and accurate.

CONTRACTOR: _____ **DATE:** _____

By: _____ (Print) _____ (Signature)

STATE OF FLORIDA
COUNTY OF _____

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this _____ day of _____, 20____, by _____ (name of person making statement)

Signature of Notary Public – State of Florida

Print/Type/Stamp Commissioned Name of Notary Public

____ Personally Known OR _____ Produced Identification Identification Type: _____

COUNTY: In accordance with the Contract Documents, the undersigned recommend payment as presented.

Engineer: _____ Date: _____

Project Manager: _____ Date: _____

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

CHANGE ORDER
CONSTRUCTION PROJECTS

CONTRACTOR: _____ Date: _____

Contract No.: _____ Project Name: _____

Change Order No.: _____ Work Order No.: (if applicable) _____

Original Contract / Work Order Amount: \$ _____

Amount prior to this Change Order, if different: \$ _____

Change Order Amount: [] Increase [] Decrease [] No Change \$ _____

Revised Contract / Work Order Amount including this Change Order: \$ _____

Change Order Time: [] Increase [] Decrease [] No Change _____ Days

Date of Substantial Completion through this Change Order: _____

Date of Final Completion through this Change Order: _____

Waiver: This Change Order constitutes full and mutual accord and satisfaction for the adjustment of Contract / Work Order Price and Time as a result of increases or decreases in costs and time of performance caused directly and indirectly from the change.

Acknowledgements: The aforementioned change, and work affected thereby, is subject to all provisions of the original Agreement not specifically changed by this Change Order; and it is expressly understood and agreed by the County and the Contractor that the approval of this Change Order will have no effect on the original Agreement other than matters expressly provided herein.

This Change Order _____ does or _____ does not involve changes to the design of the project, which would require the approval and signature of the Architect or Engineer of Record and County Project Manager.

County Project Manager:

Architect / Engineer of Record:

Contractor:

Name: _____

Address: _____

Sign: _____

Date: _____

PURCHASING AND CONTRACTS DIVISION:

Signature: _____ Date _____

Procurement Administrator

As authorized by Section 3.554, Seminole County Administrative Code

WITNESS: _____

WITNESS: _____

[] For Board approved Items: Meeting Date: _____ Item # _____

Seminole County Board of County Commissioners

SHOP DRAWING SUBMITTALS

Date: _____

Submittal #: _____

ENGINEER OF RECORD:

CONTRACTOR:

Attention: _____
 Project Manager

Project Name: _____

Contract No.: _____ CIP# _____ Contractor: _____

Item No.	Copies	Description	Previous Submission No.	Specification Section(s)	Plan Sheet No.

Contractor's Authorized Representative: _____

TO BE COMPLETED BY ENGINEER OF RECORD:

Item No.	Copies	Resubmit		Comments
		Yes	No	

Engineer of Record: _____

Date: _____

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

AUTHORIZED FIELD CHANGE (AFC)

FIELD ORDER NO.:	
AGREEMENT TITLE:	
CONTRACT NO.:	
CIP #:	
CONTRACTOR:	
ARCHITECT/ENGINEER:	
AGREEMENT DATE:	
CONTRACT DAY:	_____ OF _____
<p>Note: An AFC is not an instrument that amends the Contract Documents. This AFC issued by ENGINEER to CONTRACTOR authorizes minor variations in the Work and not a change in the Work. An AFC does not entitle CONTRACTOR to any adjustment in Contract Price or Contract Time. FINAL AS-BUILT PLANS WILL REFLECT AFC.</p>	

I. Minor Variations Authorized:	
II. Justification	
III. Acknowledgements: Mutually agreed to by the CONTRACTOR and the COUNTY.	
This AFC authorized by: Includes _____ attachments:	_____ ARCHITECT/ENGINEER By: _____ Date: _____
Receipt of this AFC: Acknowledged By:	_____ CONTRACTOR By: _____ Date: _____

Seminole County Board of County Commissioners

CERTIFICATE OF SUBSTANTIAL COMPLETION

Construction Projects

Contractor: _____ Date: _____

Contract No.: _____ Project Name: _____

Master Agreement (if applicable): _____

CIP No.: _____

This Certificate of Substantial Completion applies to all work under the Contract Documents or the following specified parts thereof:

To: _____ (Print)
Architect/Engineer of Record

To: _____ (Print)
Contractor

The work to which this Certificate applies has been inspected by authorized representatives of CONTRACTOR, and ARCHITECT/ENGINEER, and that Work is hereby declared to be substantially completed in accordance with the Contract Documents on:

Date of Substantial Completion

A list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete and warrant all the Work in accordance with the Contract Documents. All items on the list shall be completed or corrected by CONTRACTOR within _____ calendar days of the above date of Substantial Completion.

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligations to complete the Work in accordance with the Contract Documents, including "As-Built" drawings.

Executed by ARCHITECT/ENGINEER on the _____ day of _____, 20____

ARCHITECT/ENGINEER:

Print Name

Signature

Accepted by CONTRACTOR on the _____ day of _____, 20____

CONTRACTOR:

Print Name

Signature

Executed by County's PROJECT MANAGER on the _____ day of _____, 20____

PROJECT MANAGER:

Print Name

Signature

Seminole County Board of County Commissioners

CERTIFICATE OF FINAL COMPLETION
Construction Projects

Contractor: _____ Date: _____

Contract No.: _____ Project Name: _____

Master Agreement (if applicable): _____

CIP No.: _____

This Certificate of Final Completion applies to all work under the Contract Documents.

To: _____ (Print)
Architect/Engineer of Record

To: _____ (Print)
Contractor

To: Seminole County Board of County Commissioners or Designee

The Work to which this Certificate applies has been inspected on _____ (date) by authorized representatives of CONTRACTOR, and ARCHITECT/ENGINEER, and that Work is hereby declared to be finally completed in accordance with the Contract Documents on:

Date of Final Completion

This Final Completion Certificate constitutes an acceptance of Work excepting latent defects, warranty work, maintenance, and other post Final Completion obligations of the CONTRACTOR under the Contract Documents.

Executed by ARCHITECT/ENGINEER on the _____ day of _____, 20_____

ARCHITECT/ENGINEER:

Print Name

Signature

Accepted by CONTRACTOR on the _____ day of _____, 20_____

CONTRACTOR:

Print Name

Signature

Accepted by SEMINOLE COUNTY on the _____ day of _____, 20_____

WITNESSES:

BOARD OF COUNTY COMMISSIONERS
SEMINOLE COUNTY, FLORIDA

Procurement Administrator

**As authorized by Section 3.554, Seminole County
Administrative Code**

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACTOR'S RELEASE

This Release must be submitted simultaneously with the Contractor's request for Final Payment and Subcontractor Affidavits.

Agreement Title: _____ County Contract No.: _____
Construction Contract # OR Master Services Agreement # & Work Order #

Contractor: _____ CIP No.: _____

BEFORE ME, the undersigned authority in said County and State, appeared _____
(Name of Affiant) who, being duly sworn and personally know to me,
deposes and says that he/she is _____ (Title of Affiant) of _____
(Full Legal Company Name), a company and/or corporation authorized to do business
under the laws of Florida, which is the CONTRACTOR on _____
(Agreement Title), located in Seminole County, Florida, dated the day of
_____, 20__, that the deponent is duly authorized to make this affidavit by resolution of the Board of
Directors of said company and/or corporation; that deponent knows of their own knowledge that said Agreement
has been complied with in every particular by said CONTRACTOR and that all parts of the Work have been
approved by the COUNTY's Architect/Engineer; that there are no bills remaining unpaid for labor, Materials, or
otherwise, in connection with said Agreement and Word, and that there are no suits pending against the
undersigned as CONTRACTOR or anyone in connection with the Work done and Materials furnished or
otherwise under this Agreement.

Affiant further says that the final estimate in the amount of \$_____ which has been submitted
to the COUNTY simultaneously with the making of this affidavit constitutes all claims and demands against the
COUNTY on account of said Agreement or otherwise, and that acceptance of the sum specified in said final
estimate in the amount of \$_____ will operate as a full and final release and discharge of the
COUNTY from any further claims, demands or compensation by CONTRACTOR under the above Agreement.
Deponent further agrees that all guarantees under this Agreement shall start and be in full force from the date of
this release as spelled out in the Contract Documents.

Affiant

State of Florida
County of _____

Sworn to (or affirmed) and subscribed before me by means of physical presence OR online notarization, this ___ day
of _____, 20__, by _____
(Name of Affiant)

Signature of Notary Public – State of Florida

Print, Type, Stamp Commissioned Name of Notary Public

_____ Personally Known OR _____ Produced Identification

Type of Identification Produced: _____

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACTOR'S WAIVER OF LIEN (Partial)

Copy of Waiver to be submitted with Each Pay Request

Agreement Title: _____ County Contract No.: _____
Construction Contract # OR Master Services Agreement # & Work Order #

CIP No.: _____

From: _____
Full Legal Name of Contractor

To: Seminole County Board of County Commissioners

Pursuant to the Contract, identified above, entered into on the _____ day of _____, 20____, between the Contractor and Seminole County for the following project: _____.

CONTRACTOR CERTIFIES THAT:

- 1. All Work covered by Application For Payment No: _____ has been performed in accordance with the terms of the Contract Documents;
2. The materialmen, subcontractors, mechanics, and laborers have been paid from previous payments received from the County on account of Work performed;
3. All Material and Equipment obligations of the Contractor have been paid from previous payments received from the County on account of Work performed; and
4. All just and lawful claims of the Contractor arising out of the performance of the Work covered by this Application for Payment have been paid and satisfied.

IN WITNESS WHEREOF, the undersigned has signed and sealed this instrument this _____ day of _____, 20____.

Witness: _____

Signature – Contractor's Representative

Witness: _____

Printed Name & Title

State of Florida
County of _____

Sworn to (or affirmed) and subscribed before me by means of [] physical presence OR [] online notarization, this _____ day of _____, 20__, by _____
Name of Person making statement

Signature of Notary Public – State of Florida

Print, Type, Stamp Commissioned Name of Notary Public

_____ Personally Known OR _____ Produced Identification

Type of Identification Produced: _____

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

SUB-CONTRACTOR'S WAIVER OF LIEN (Partial)

Copy of Waiver to be submitted with Each Pay Request

Agreement Title: _____ County Contract No.: _____
Construction Contract # OR Master Services Agreement # & Work Order #

CIP No.: _____

From: _____
Full Legal Name of Sub-Contractor

To: **Seminole County Board of County Commissioners**

Pursuant to the Contract, identified above, entered into on the _____ day of _____, 20____, between the Contractor and Seminole County for the following project: _____.

SUB-CONTRACTOR CERTIFIES THAT:

1. The materialmen, subcontractors, mechanics, and laborers have been paid from previous payments received from the County on account of Work performed;
2. All Material and Equipment obligations of the Contractor have been paid from previous payments received from the County on account of Work performed; and
3. All just and lawful claims of the Contractor arising out of the performance of the Work covered by this Application for Payment have been paid and satisfied.

IN WITNESS WHEREOF, the undersigned has signed and sealed this instrument this _____ day of _____, 20____.

Witness: _____

Signature – Sub-Contractor's Representative

Witness: _____

Printed Name & Title

State of Florida
County of _____

Sworn to (or affirmed) and subscribed before me by means of physical presence OR online notarization, this _____ day of _____, 20__, by _____
Name of Person making statement

Signature of Notary Public – State of Florida

Print, Type, Stamp Commissioned Name of Notary Public

_____ Personally Known OR _____ Produced Identification

Type of Identification Produced: _____

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACTOR'S WAIVER OF LIEN (Final and Complete)

Copy of Waiver to be submitted with Final Pay Request

Agreement Title: _____ County Contract No.: _____
Construction Contract # OR Master Services Agreement # & Work Order#

Contractor: _____ CIP No.: _____

_____ (Affiant), being duly sworn according to law, deposes and states that he/she is the _____ (Title) of _____ (Full Legal Name of Contractor), Contractor in a Contract entered into between the Contractor and Seminole County for the _____ (Agreement Title) and that he is authorized to and does make this affidavit on behalf of the Contractor.

THE AFFIANT FURTHER DEPOSES AND STATES THAT:

- 1. All Work has been performed in accordance with the terms of the Contract Documents, the Contractor alone has made all subcontracts, and the Contractor and his subcontractors have purchased all materials and fixtures and employed all labor in the performance of the Work.
2. All laborers, materialmen, mechanics, manufacturers and subcontractors who have furnished any one or all of the following: services, labor, fixtures, or materials have been satisfied and paid in full for the Work performed, and for materials, fixtures, and/or services supplied, and that the Contractor is not indebted to any person or firm in connection with the Work in any amount whatsoever.
3. There are no outstanding claims of any nature, contractual or otherwise, or for any personal injury, death or property damage, arising from or associated with the performance of the Work that might be the basis of any claim, suit, lien or demand that could be asserted against either the County or the Contractor.
4. All Bonds and Insurance policies required by the Contract are presently in effect and shall not be permitted to expire within the time periods stated in the Contract Documents.
5. This affidavit is made for the purpose of inducing the County to make Final Payment, and acceptance of such Final Payment by the Contractor shall release the County from any further liability under the Contract Documents.

IN WITNESS WHEREOF, the undersigned has signed and sealed this instrument this ___ day of _____, 20__.

Witness: _____

Signature - Contractor's Representative

Witness: _____

Printed Name & Title

State of Florida
County of _____

Sworn to (or affirmed) and subscribed before me by means of [] physical presence OR [] online notarization, this ___ day of _____, 20__, by _____
Name of Person making statement

Signature of Notary Public - State of Florida

Print, Type, Stamp Commissioned Name of Notary Public

_____ Personally Known OR _____ Produced Identification

Type of Identification Produced: _____

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

SUB-CONTRACTOR'S WAIVER AND RELEASE OF LIEN UPON FINAL PAYMENT

Copy of Waiver to be submitted with Contractor's Final Pay Request

Agreement Title: _____ County Contract No.: _____
Construction Contract # OR Master Services Agreement # & Work Order #

Contractor: _____ CIP No.: _____

State of: _____ County of: _____

_____ (Affiant), being duly sworn according to law, deposes and states that he/she is the
_____ (Title) of _____ (Full Legal Name of
Subcontractor), Subcontractor/Vendor/Lienor to the above Contractor under Contract with Seminole County for the _____
_____ (Agreement Title) and that he is authorized to and does make this affidavit
on behalf of the Subcontractor.

The undersigned, in consideration of the final payment in the amount of \$ _____, hereby waives its lien and right
to claim a lien for labor, services, or materials furnished to _____ (Contractor) on the
above listed project to the following described property:

Property Address: _____

Tax Parcel Number: _____

Legal Description: _____

IN WITNESS WHEREOF, the undersigned has signed this instrument this _____ day of _____
_____, 20____.

Signature of Subcontractor's Representative

Title

STATE OF FLORIDA

COUNTY OF: _____

The Foregoing instrument was acknowledged before me by means of physical presence OR online notarization, on
this ____ day of _____, 20____, by _____ (Name of Affiant), who
is personally known to me or who has produced _____ as identification.

Signature of Notary Public – State of Florida

Printed/Typed/Stamped Commissioned Name of Notary Public

Title or Rank

Serial Number (if any)

SEMINOLE COUNTY BOARD OF COUNTY COMMISSIONERS

CONSENT OF SURETY TO FINAL PAYMENT

Agreement Title: _____ County Contract No.: _____
Construction Contract # OR Master Services Agreement # & Work Order #

Contractor: _____ CIP No.: _____

We, _____ (Name of Surety), having heretofore executed Performance and Payment Bonds for the above named Contractor covering the Project referenced above in the sum of _____ Dollars (\$ _____) hereby agree that the County may make full payment of the final estimate, including the retained percentage, to said Contractor. The Surety concurs that full payment to the Contractor is appropriate and the Surety expressly releases the County from all liability to Surety resulting from full payment to the Contractor.

It is fully understood that the granting of the right to the County to make payment of the final estimate to the Contractor and/or his assigns shall in no way relieve this Surety of its obligations under its bonds as set forth in the Contract Documents and Bonds pertaining to the above referenced Project. By execution of this Consent, Surety specifically acknowledges that, in the event it is discovered that the Contractor has failed to pay any subcontractors under this Project, the Surety will make such payments as are due, either in whole or in part, and hold the County harmless therefrom.

IN WITNESS WHEREOF, _____ (Name of Surety) has caused this instrument to be executed on behalf of its _____ and its duly authorized attorney-in-fact, and its corporate seal shall be affixed, on this _____ day of _____, 20__.

Signature – Surety’s Representative

Signature – Attorney-in-Fact

*Power of Attorney must be attached if signed by Attorney-in-Fact

Printed Name & Title

STATE OF FLORIDA
COUNTY OF: _____

The Foregoing instrument was acknowledged before me by means of physical presence OR online notarization, on this _____ day of _____, 20__, by _____ (Name of Affiant), who is personally known to me or who has produced _____ as identification.

Signature of Notary Public – State of Florida

Printed/Typed/Stamped Commissioned Name of Notary Public

Title or Rank

Serial Number (if any)

Agreement Name: Lake Mary Blvd at Country Club Rd Intersection Improvements

Agreement Number: CC-5761-24/MAG

AFFIDAVIT OF E-VERIFY REQUIREMENTS COMPLIANCE

The CONSULTANT/CONTRACTOR agrees to comply with section 448.095, Florida Statutes, and to incorporate in all subcontracts the obligation to comply with section 448.095, Florida Statutes.

1. The CONSULTANT/CONTRACTOR 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 CONSULTANT during the term of the Agreement and shall expressly require any subcontractors performing work or providing services pursuant to the Agreement 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 Agreement term.
2. That the CONSULTANT/CONTRACTOR understands and agrees that its failure to comply with the verification requirements of Section 448.095, Florida Statutes or its failure to ensure that all employees and subcontractors performing work under Agreement Number 2419447 are legally authorized to work in the United States and the State of Florida, constitutes a breach of this Agreement for which Seminole County may immediately terminate the Agreement without notice and without penalty. The CONSULTANT/CONTRACTOR further understands and agrees that in the event of such termination, the CONSULTANT/CONTRACTOR shall be liable to the county for any costs incurred by the County as a result of the CONSULTANT'S/CONTRACTOR'S breach. DATED this 17th day of April, 2024.

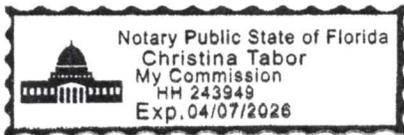
Central Florida Environmental Corp
Consultant Name

By: David Stalowy
Print/Type Name: David Stalowy
Title: President

STATE OF Florida

COUNTY OF Seminole

Sworn to (or affirmed) and subscribed before me by means of physical presence OR online notarization, this 17th day of April, 2024, by David Stalowy (Full Name of Affiant).



Christina Tabor
Print/Type Name Christina Tabor
Notary Public in and for the County
and State Aforementioned
My commission expires: 4/7/2026