STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION AGREEMENT

850-040-89 MAINTENANCE 0GC - 07/13

Construction Agreement No.: 2022-C-491-00012 THIS CONSTRUCTION AGREEMENT (this "Agreement") is made and entered into by and between the State of Florida, Department of Transportation, (3400 West Commercial Boulevard, Fort Lauderdale, FL 33309) (hereinafter referred to as the "DEPARTMENT") and City of Hollywood (1948 Harrison Street, Hollywood, FL 33020) (hereinafter referred to as the "Construction Coordinator"). WITNESSETH: WHEREAS, the DEPARTMENT is authorized and required by Section 334.044(13), Florida Statutes, to coordinate the planning, development, and operation of the State Highway System; and WHEREAS, pursuant to Section 339.282, Florida Statutes, the DEPARTMENT may contract with a property owner to finance, construct, and improve public transportation facilities; and WHEREAS, the Construction Coordinator proposes to construct certain improvements to SR A1A Section 86030 Subsection 000 from Begin MP 3.459 to End MP 3.812 Local Name Ocean Drive located in Broward County (hereinafter referred to as the "Project"); and WHEREAS, the parties desire to enter into this Agreement for the Construction Coordinator to make improvements within the DEPARTMENT'S right of way to construct the Project, which will become the property of the Department upon acceptance of the work. NOW, THEREFORE, based on the premises above, and in consideration of the mutual covenants contained herein, the parties hereby agree that the construction of the Project shall proceed in accordance with the following terms and conditions: The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement. The Construction Coordinator is authorized, subject to the conditions set forth herein, to enter the DEPARTMENT'S right of way to perform all activities necessary for the construction of See attached exhibit A scope of services/special provisions. The Project shall be designed and constructed in accordance with the latest edition of the DEPARTMENT'S Standard Specifications for Road and Bridge Construction and DEPARTMENT Design Standards and Manual of Uniform Traffic Control Devices

- 2. The Project shall be designed and constructed in accordance with the latest edition of the DEPARTMENT'S Standard Specifications for Road and Bridge Construction and DEPARTMENT Design Standards and Manual of Uniform Traffic Control Devices ("MUTCD"). The following guidelines shall apply as deemed appropriate by the DEPARTMENT: the DEPARTMENT Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, the DEPARTMENT Plans Preparation Manual ("PPM") Manual for Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the "Florida Green Book") and the DEPARTMENT Traffic Engineering Manual. The Construction Coordinator will be required to submit any construction plans required by the DEPARTMENT for review and approval prior to any work being commenced. Should any changes to the plans be required during construction of the Project, the Construction Coordinator shall be required to notify the DEPARTMENT of the changes and receive approval from the DEPARTMENT prior to the changes being constructed. The Construction Coordinator shall maintain the area of the project at all times and coordinate any work needs of the DEPARTMENT during construction of the project.
- 3. The Construction Coordinator shall notify the DEPARTMENT a minimum of 48 hours before beginning construction within DEPARTMENT right of way. The Construction Coordinator shall notify the DEPARTMENT should construction be suspended for more than 5 working days.

 4. Pursuant to Section 7-13 of the DEPARTMENT Standard Specifications, the Construction Coordinator is required to
- possess a general liability insurance naming the DEPARTMENT as an additional insured and insuring the DEPARTMENT and the Construction Coordinator against any and all claims for injury or damage to persons and property, and for the loss of life or property that may occur (directly or indirectly) by reason of the Construction Coordinator accessing DEPARTMENT right of way and the Construction Coordinator's performance of the Project. Such amount shall be carried in a minimum amount of not less than and 00/100 Dollars (\$ 0.00) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than zero and 00/100 Dollars) for property damage, or a combined coverage of not less than zero (\$ 0.00 00/100 Dollars (\$ 0.00 __). Additionally, the Construction Coordinator shall supply the DEPARTMENT with a payment and performance bond in the amount of the estimated cost of construction, provided by a surety authorized to do business in the State of Florida, payable to the DEPARTMENT. The bond and insurance shall remain in effect until completion of construction and acceptance by the DEPARTMENT. Prior to commencement of the Project and on such other occasions as the DEPARTMENT may reasonably require, the Construction Coordinator shall provide the DEPARTMENT with certificates documenting that the required insurance coverage is in place and effective. If the Construction Coordinator is a governmental entity they will be exempt from these requirements.
- 5. The Construction Coordinator shall be responsible for monitoring construction operations and the maintenance of traffic ("MOT") throughout the course of the project in accordance with the latest edition of the DEPARTMENT Standard Specifications, section 102. The Construction Coordinator is responsible for the development of a MOT plan and making any changes to that plan as necessary. The MOT plan shall be in accordance with the latest version of the DEPARTMENT Design Standards, Index 600 series. Any MOT plan developed by the Construction Coordinator that deviates from the DEPARTMENT Design Standards must be signed and sealed by a professional engineer. MOT plans will require approval by the DEPARTMENT prior to implementation.
- 6. The Construction Coordinator shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations be accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.

- 7. The Construction Coordinator will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.
- 8. It is hereby agreed by the parties that this Agreement creates a permissive use only and all improvements resulting from this agreement shall become the property of the DEPARTMENT. Neither the granting of the permission to use the DEPARTMENT right of way nor the placing of facilities upon the DEPARTMENT property shall operate to create or vest any property right to or in the Construction Coordinator, except as may otherwise be provided in separate agreements. The Construction Coordinator shall not acquire any right, title, interest or estate in DEPARTMENT right of way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Construction Coordinator's use, occupancy or possession of DEPARTMENT right of way. The parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to chapter 163, Florida Statutes.
- 9. The Construction Coordinator shall perform all required testing associated with the design and construction of the project. Testing results shall be made available to the DEPARTMENT upon request. The DEPARTMENT shall have the right to perform its own independent testing during the course of the Project.
- 10. The Construction Coordinator shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the DEPARTMENT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, the Army Corps of Engineers, the United States Coast Guard and local governmental entities.
- 11. If the DEPARTMENT determines a condition exists which threatens the public's safety, the DEPARTMENT may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from its right of way at the sole cost, expense, and effort of the Construction Coordinator. The Construction Coordinator shall bear all construction delay costs incurred by the DEPARTMENT.
- 12. All work and construction shall be completed within <u>365</u> days of the date of the last signature affixed to this agreement. If construction is not completed within this time, the DEPARTMENT may make a claim on the bond. The DEPARTMENT may terminate this Agreement at any time, with or without cause and without DEPARTMENT liability to the Construction Coordinator, by providing sixty (60) days prior written notice of termination to the Construction Coordinator.
- 13. The Construction Coordinator shall be responsible to maintain and restore all features that might require relocation within the DEPARTMENT right of way.
- 14. The Construction Coordinator will be responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.
- 15. Upon completion of construction, the Construction Coordinator will be required to submit to the DEPARTMENT final as-built plans and an engineering certification that construction was completed in accordance to the plans. Prior to the termination of this Agreement, the Construction Coordinator shall remove its presence, including, but not limited to, all of the Construction Coordinator's property, machinery, and equipment from DEPARTMENT right of way and shall restore those portions of DEPARTMENT right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.
- 16. If the DEPARTMENT determines that the Project is not completed in accordance with the provisions of this Agreement, the DEPARTMENT shall deliver written notification of such to the Construction Coordinator. The Construction Coordinator shall have thirty (30) days from the date of receipt of the DEPARTMENT'S written notice, or such other time as the Construction Coordinator and the DEPARTMENT mutually agree to in writing, to complete the Project and provide the DEPARTMENT with written notice of the same (the "Notice of Completion"). If the Construction Coordinator fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the DEPARTMENT, within its discretion may: 1) provide the Construction Coordinator with written authorization granting such additional time as the DEPARTMENT deems appropriate to correct the deficiency(ies); or 2) correct the deficiency(ies) at the Construction Coordinator's sole cost and expense, without DEPARTMENT liability to the Construction Coordinator for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the DEPARTMENT elects to correct the deficiency(ies), the DEPARTMENT shall provide the Construction Coordinator with an invoice for the costs incurred by the DEPARTMENT and the Construction Coordinator shall pay the invoice within thirty (30) days of the date of the invoice.
- 17. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the DEPARTMENT'S sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes. The DEPARTMENT'S liability for breach of this Agreement is limited in amount and shall not exceed the limitations of liability for tort actions as set forth in Section 768.28(5), Florida Statutes.
- 18. All formal notices, proposed changes and determinations between the parties hereto and those required by this Agreement, including, but not limited to, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States mail, postage prepaid, to the parties at the contact information listed below.
- 19. The Construction Coordinator shall not cause any liens or encumbrances to attach to any portion of DEPARTMENT right of way.
- 20. This Agreement shall be governed by the laws of the State of Florida in terms of interpretation and performance. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.
- 21. The Construction Coordinator may not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the DEPARTMENT'S District Secretary or his/her designee. The DEPARTMENT has the sole discretion and authority to grant or deny proposed assignments, with or without cause. Nothing herein shall prevent the Construction Coordinator from delegating its duties hereunder, but such delegation shall not release the Construction Coordinator from its obligation to perform this Agreement.

- 22. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.
- 23. This instrument, together with the attached exhibits and documents made part hereof by reference, contain the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of this Agreement, and any part hereof, are waived, merged herein and superseded hereby.
- 24. By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in this Agreement and forever waive the right to object to or otherwise challenge the same.
- 25. The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquished in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same.
- 26. No term or provision of this Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.
- 27. If any section, paragraph, clause or provision of this Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of this Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of this Agreement remain enforceable.
- 28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.
- 29. The Construction Coordinator agrees to promptly indemnify, defend, save and hold harmless the DEPARTMENT and all of its officers, agents and employees from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, penalties, costs, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, or arising out of or related to the performance or breach of this Agreement by the Construction Coordinator, including, without limitation, performance of the Project within the DEPARTMENT'S right of way. The term "liabilities" shall specifically include, without limitation, any act, action, neglect or omission by the Construction Coordinator, its officers, agents, employees or representatives in any way pertaining to this Agreement, whether direct or indirect, except that neither the Construction Coordinator nor any of its officers, agents, employees or representatives will be liable under this provision for damages arising out of injury or damages directly caused or resulting from the sole negligence, intentional or wrongful acts of the DEPARTMENT or any of its officers, agents or employees. The Construction Coordinator shall notify the DEPARTMENT in writing immediately upon becoming aware of such liabilities. The Construction Coordinator's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities assumed by the Construction Coordinator shall survive termination of this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.
 - 30. Construction Coordinator:
 - (1) shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Construction Coordinator during the term of the contract; and
 - (2) shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

31. COMPLIANCE WITH LAWS

The Construction Coordinator shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the Construction Coordinator in conjunction with this Agreement. Specifically, if the Construction Coordinator is acting on behalf of a public agency the Construction Coordinator shall:

- (1) Keep and maintain public records that ordinarily and necessarily would be required by the Department in order to perform the services being performed by the Construction Coordinator.
- (2) Provide the public with access to public records on the same terms and conditions that the Department would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- (4) Meet all requirements for retaining public records and transfer, at no cost, to the Department all public records in possession of the Construction Coordinator upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the Department in a format that is compatible with the information technology systems of the Department. Failure by the Construction Coordinator to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the Department. The Construction Coordinator shall promptly provide the Department with a copy of any request to inspect or copy public records in possession of the Construction Coordinator and shall promptly provide the Department a copy of the Construction Coordinator's response to each such request.

850-040-89 MAINTENANCE OGC – 07/13 Page 4 of 5

CONSTRUCTION COORDINATOR CONTACT INFORMATION

Name Sarita Shamah		Title <u>Senior Project Manager</u>	
Office No. <u>954 924 2980</u>	Cell	Email sshamah@hollywoodfl	.org
Name		Title	
Office No.	Cell	_ Title Email	
Mail Address			
	OF, Construction Coordinator	and the DEPARTMENT have execu	ted this Agreement for the purposes
CONSTRUCTION COORDINAT	OR	DEPARTMENT OF TRAI	NSPORTATION
Ву:	(Signature)	Ву:	(Signature)
Sarita Shamah	(Print Name)		(Print Name)
City Project Manager	(Title)		(Title)
	(Date)		(Date)
		Legal Review:	

EXHIBIT A

Permit #

I. SCOPE OF SERVICES

The City of Hollywood is proposing improvements along SR-A1A/Ocean Boulevard at Nebraska Street, Carolina Street, and Scott Street.

II. PROJECT PLANS

The Construction Coordinator is authorized to install the Project in accordance with the attached:

Signalization Plans prepared by Matthew Fursetzer dated 8/29/22 Structural Plans prepared by Jerry Piccolo dated 8/29/22

III. SPECIAL PROVISIONS FOR CONSTRUCTION

This permit is only valid for work within FDOT R/W.

Construction Coordinator will coordinate all work with the Broward County Operations Permits Dept. via Phone (954) 777-4372. A pre-construction conference must be coordinated with Mr. Anthony Beecher via Phone (954) 777-4372 prior to construction. This permit is valid only for work proposed within the D.O.T. right-of-way. Certification acceptance and final approval is contingent upon conformity of all work completed according to this permit and the restoration of the Right of Way.

All materials and construction within the Florida Department of Transportation Design (F.D.O.T.) right-of-way shall conform to the "latest version" of FDOT Standard Plans for Road and Bridge Construction and latest version of the Standard Specifications for Road and Bridge Construction.

All thermoplastic traffic stripes, markings and signage will be installed per the FDOT Standard Plans and Traffic Design Standards.

It is the Construction Coordinator's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right-of-Way from the Department prior to usage.

Construction Coordinator will provide the necessary densities in accordance with the Department's latest edition of the Standard Specifications for Road & Bridge Construction prior to final acceptance by the Department.

Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Construction Coordinator, at their cost & expense from the site to the Broward Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

Construction Coordinator will restore the Right of Way as a minimum, to its original condition or better in accordance w/ Florida Department of Transportation's latest Standard Specifications for Road & Bridge Construction or as directed by the Resident Operations Engineer.

During the removal/installation of any curb and gutter section, the Construction Coordinator will be responsible for any damage done to the abutting asphalt. The damaged asphalt repair will be in accordance with the current specifications and/or as directed by the Resident Operations Engineer.

Page 1 of 2

During the removal/installation of any curb and gutter section, the Construction Coordinator will be responsible for any damage done to the abutting asphalt. The damaged asphalt repair will be in accordance with the current

specifications and/or as directed by the Resident Operations Engineer.

Sodded areas will be in accordance with FDOT Index 570-010 and sections 162, 981, 982, 983, 987 of the FDOT's Standard Specifications for Road and Bridge Construction, latest edition. All disturbed areas will be sodded within one (1) week of installation of said permitted work.

Storm Water Pollution Prevention Plan - The Construction Coordinator shall implement best management practices for erosion and pollution control to prevent violation of state water quality standards. The Construction Coordinator shall be responsible for the correction of any erosion, shoaling, or water quality problems that result from the construction or operation of the surface water management system.

During construction, highest priority must be given to pedestrian safety. If permission is granted to temporarily close a sidewalk, it should be done with the express condition that an alternate route will be provided and shall continuously maintain pedestrian features to meet Americans Disability Act (ADA) standards.

A copy of this agreement and plans must be on the job site at all times during the construction of this facility.

Restricted hours of operation for lane closures, excavation and construction work will be from 7:00 am to 6:00 pm (Monday-Friday) and from 8:00 am to 6:00 pm (Saturday), unless otherwise approved by the Operations Engineer, or designee. MOT shall be picked up by 6:00 pm and not start before 7:00 am.

Prior to any work requiring lane closures, mobile operations or traffic pacing operations, the contractor or permittee shall submit a request to the Department that includes the time, location, and description of work being performed. The lane closure request shall be submitted to the Department a minimum of 2 weeks prior to the proposed closure date and must be approved by the Department before work requiring the closure may begin within the FDOT Right of Way. URL address: https://LCIS.dot.state.fl.us.

All maintenance of traffic (MOT) will be in accordance with the Department's current edition of the Standard Plans for Road and Bridge Construction Index (102-600 series). The Operations Engineer or his designee reserves the right to direct the removal/relocation/modification of any traffic device(s) at the Construction Coordinator's sole expense. Traffic Control Plans (TCP) must be submitted and reviewed during the preconstruction meeting.

Maintenance of Traffic (lane closures on the state road system occurring during peak hours (7:00-9:00 AM or 4:00-6:00 PM) and/or lasting over twenty-four hours must contact Barbara Kelleher two weeks prior to closures. You must also comply with the lane closure analysis as outlined in the FDOT Design Manual 240.4 TTC Plan. All lane closures occurring on an interstate or limited access facility, regardless of time of day or duration, must comply with the lane closure analysis in the FDOT Design Manual 240.4 TTC Plan.

Barbara Kelleher can be reached at 954-777-4090.

Florida Department of Transportation Public Information Office 3400 West Commercial Blvd. Fort Lauderdale, Florida 33309

CITY OF HOLLYWOOD

INDEX OF SIGNALIZATION PLANS

SHEET NO. SHEET DESCRIPTION

T-1 KEY SHEET
T-2 SIGNATURE SHEET

T-3 TO T-5 SIGNALIZATION GENERAL NOTES
T-6 TABULATION OF QUANTITIES
T-7 TO T-9 SIGNALIZATION PLAN

T-10 STANDARD MAST ARM TABULATION

T-11 STANDARD MAST ARM ASSEMBLIES DATA TABLE

T-12 TO T-14 GUIDESIGN WORKSHEET

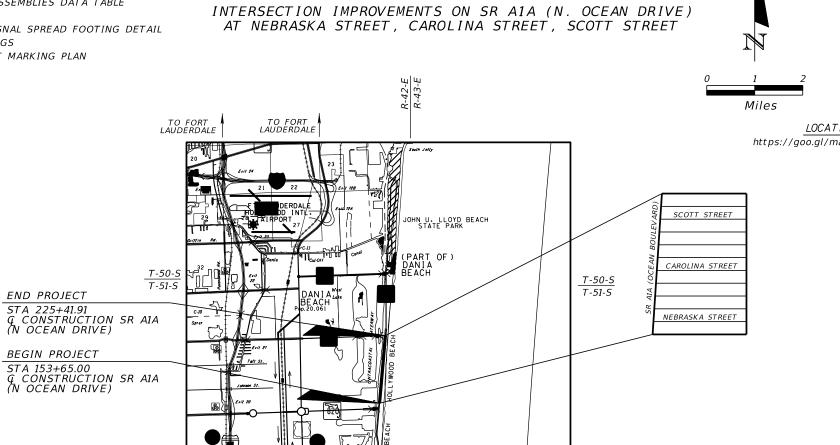
T-15 PEDESTAL MOUNTED SIGNAL SPREAD FOOTING DETAIL

T-16 TO T-17 REPORT OF CORE BORINGS

S-1 TO S-6 SIGNING AND PAVEMENT MARKING PLAN

SIGNALIZATION PLANS

BROWARD COUNTY (86000)



TO MIAMI BEACH

LOCATION MAP

TO MIAMI

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: $\frac{http:}{www.fdot.gov/design/standardplans}$

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SIGNALIZATION PLANS ENGINEER OF RECORD:

MATTHEW B. FURSETZER, P.E. NO.: 63997 KIMLEY-HORN AND ASSOCIATES, INC. CONSULTING ENGINEERS AND PLANNERS 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 CONTRACT NO.: C9F23 VENDOR NO.: VF-560-885-615-001 REGISTRY NO. 35106

CITY OF HOLLYWOOD PROJECT MANAGER: SARITA SHAMAH, P.E.



TALLAHASSEE

PANAMA
CITY

ST AUGUSTINE

GENESVILLE

OCALA

DOCALA

ST PETERSBURG

SARASOTA

BARTOW

FT MYERS

FT PIERCE

MIAMI

MILES

LOCATION OF PROJECT

https://goo.gl/maps/HaHSmnDkaBs

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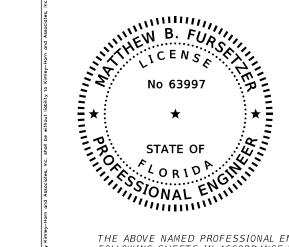
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KEY SHEET

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

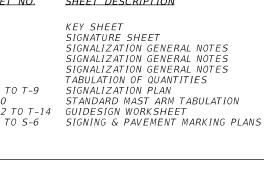
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KIMLEY-HORN AND ASSOCIATES, INC. 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FLORIDA 33411 CERTIFICATE OF AUTHORIZATION NO. 696 MATTHEW B. FURSETZER, P.E. NO. 63997

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

PLANS	
SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
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I - I	KEY SHEET
T-2	SIGNATURE SHEET
T-3	SIGNALIZATION GENERAL NOTES
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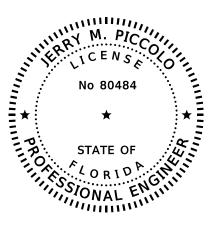
TIERRA SOUTH FLORIDA 2765 VISTA PARKWAY, S-10 WEST PALM BEACH, FLORIDA 33411 CERTIFICATE OF AUTHORIZATION NO. 28073 RAJAN KRISHNASAMY, P.E. NO. 53567

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

<u>PLANS</u> SHEET NO.

SHEET DESCRIPTION

T-16 TO T-17 REPORT OF CORE BORINGS



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ON THE DATE ADJACENT TO THE SEAL

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KIMLEY-HORN AND ASSOCIATES, INC. 1920 WEKIVA WAY, SUITE 200

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PLANS SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-11	STANDARD MAST ARM ASSEMBLIES DATA TABLE
T-15	PEDESTAL MOUNTED SIGNAL SPREAD FOOTING DETAIL

No 53567 STATE OF A CHANGE WEST PALM BEACH, FLORIDA 33411 CERTIFICATE OF AUTHORIZATION NO. 696 JERRY M. PICCOLO, P.E. NO. 80484

> SHEET SIGNATURE

Kimley » Horn

MATTHEW B.

AND ASSOCIATES, INC.
WEST PALM BEACH, FL 3
5 FAX: 561-863-8175
COM CA 00000696

© 2018 KIMLI WEKIVA WAY S PHONE: 561-WWW.KIMLE

1A UNDERGROUNDING OF OVERHEAD UTILITIES AND COMPLETE STREET BEAUTIFICATION CRA PREPARED FOR YWOOD HOLL

SURVEY

- THERE MAY BE ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, OR OTHER RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF BROWARD COUNTY.
- THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DISTURBANCE ALL SURVEY MONUMENTS, STAKES AND BENCH MARKS. ALL MAJOR SURVEY MONUMENTS THAT HAVE BEEN DAMAGED BY THE CONTRACTOR, INCLUDING SECTION CORNERS, ¼ SECTION CORNERS, PROPERTY CORNERS OR BLOCK CONTROL POINTS SHALL BE REPLACED UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR AND MAPPEN BY THE SURVEYOR AND MAPPEN BY THE SURVEYOR AND MAPPEN BY THE SURVEYOR. APPROVED BY THE SURVEYOR.

UTILITIES

- THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS IS BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
- IT IS THE INTENT OF THESE PLANS THAT THE PROPOSED EQUIPMENT TO BE INSTALLED IS TO BE PLACED IN SUCH A MANNER SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION TO PLAN THEIR WORK WITHIN THE DESIGN OR SPECIFIED PARAMETERS, AND THE SPECIFIED TIMEFRAME. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES.
- THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, OR WHERE HAND-DIGGING IS SPECIFIED ON THE PLANS. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND EXISTING UTILITIES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION, REPAIR AND/OR REPLACEMENT OF ALL UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS
- THE CONTRACTOR SHALL COORDINATE WITH FPL AND FIELD VERIFY LOCATION(S) OF FPL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT, AND PULL BOXES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRIC POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, THE FEE SHALL BE REFLECTED IN THE CONTRACTORS BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.
- THE CONTRACTOR IS ADVISED THAT THE PRESENCE OF OVERHEAD ELECTRIC CONDUCTORS IN CLOSE PROXIMITY TO THE LOCATIONS OF THE PROPOSED SIGNAL MAST ARMS MAY LIMIT THE TYPE OF EQUIPMENT THAT CAN BE USED IN CONSTRUCTION OF THE MAST ARM AND ITS FOUNDATION. CONTRACTOR SHALL COORDINATE WITH FPL TO DEACTIVATE LINES IF NECESSARY.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW TWO (2) BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. A CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT WHEN THE UTILITY COMPANY LOCATES THEIR FACILITIES. THE LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AND THE UTILITY REPRESENTATIVE WHEN NECESSARY DURING
- UTILITY/AGENCY OWNERS:

COMPANY	<u>CONTACT</u>	TELEPHONE NUMBERS
AT&T - D/A PEA	GREG PETRIE	(407) 578-8000
AT&T DISTRIBUTION	LARRY SIXTO	(772) 332-7382
BROWARD COUNTY PUBLIC WORKS	DAVID J O'CONNOR	(954) 831-0910
CITY OF HOLLYWOOD UTILITIES	CLECE AURELUS	(954) 921-3930
COMCAST CABLE	LEONARD MAXWELL-NEWBOLD	(754) 221-1254
FLORIDA POWER & LIGHT	BYRON SAMPLE	(954) 321-2056
TECO PEOPLES GAS	DAVID RIVERA	(954) 453-0794
INTERCONNECT COMMUNICATIONS	ROBERT BLOUNT	(954) 847-2745
CABLES		

GENERAL

- UNLESS OTHERWISE NOTED IN THE TECHNICAL SPECIFICATIONS: INSTALLATION, ACCEPTANCE, AND PAYMENT FOR ALL ITEMS REQUIRED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING, REFERENCED IN THE KEY SHEET: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS), FOOT STANDARD PLANS FOR ROADWAY CONSTRUCTION, BROWARD COUNTY MINIMUM STANDARDS, BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS, AND ANY OR ALL BROWARD COUNTY TRAFFIC ENGINEERING REQUIREMENTS THAT MEET OR EXCEED THOSE FOUND IN THE ABOVE REFERENCED DOCUMENTS.
- ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN, INCLUDING LOOP ASSEMBLIES, IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS BCTED IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 3. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS.
- EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
- SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION
- THE REMOVAL OF CONCRETE CURB & GUTTER AND FLEXIBLE PAVEMENT IN AREAS BEYOND THE LIMITS OF CLEARING AND GRUBBING WHICH IS NECESSARY FOR THE PROPER CONSTRUCTION OF THE PROPOSED IMPROVEMENTS IS INCIDENTAL TO THE COST OF THE IMPROVEMENT.
- THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND FOR THE AMOUNT OF COORDINATION REQUIRED. THE CONTRACTOR SHALL COORDINATE ANY AND ALL CONSTRUCTION ACTIVITIES AND TRAFFIC CONTROL PHASES WITH ANY OTHER CONTRACTOR WITHIN OR ADJACENT TO PROJECT LIMITS.
- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENCES ALONG THE PROPOSED CONSTRUCTION AREA.
- OFFSETS TO POLES, CABINETS AND PULL BOXES ARE TO THE CENTER OF THOSE ITEMS. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. FIELD ADJUSTMENT OF ALL PROPOSED EQUIPMENT MAY BECOME NECESSARY TO ACCOMMODATE EXISTING FIELD CONDITIONS. VARIATIONS FROM THE PROPOSED LOCATION MUST BE PRE-APPROVED BY THE ENGINEER OF RECORD IN WRITING.
- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO ANY FURTHER

STRUCTURES

THE CONTRACTOR SHALL VERIFY STRUCTURE ORIENTATION PRIOR TO PLACEMENT. STRUCTURES OF INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES AND FOUNDATIONS ARE SET TO ELEVATIONS THAT WILL MEET GRADING REQUIREMENTS AT SIDEWALKS AND SLOPES, AND VERTICAL CLEARANCE REQUIREMENTS SPECIFIED IN FDOT, MUTCD, AND COUNTY STANDARDS PRIOR TO INSTALLING STRUCTURAL MATERIAL. IF A DISCREPANCY IS FOUND, CONTACT THE ENGINEER OF RECORD.

Kimley » Horn AND ASSOCIATES, INC.
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NOTES SIGNALIZATION GENERAL NOTES

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INSPECTIONS

- 1. ALL FINAL INSPECTIONS ARE TO BE SCHEDULED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL CONTACT THE FDOT PLANNING DEPARTMENT TRAFFIC ENGINEER NO LESS THAN FIVE (5) FULL WORKING DAYS PRIOR TO CUTTING THE INDUCTIVE LOOPS INTO THE STRUCTURE COURSE, IN ORDER TO PERFORM A FINAL INSPECTION PRIOR TO FINAL ACCEPTANCE. CONTACT KARA SCHWARTZ AT (954) 777-4364 OR EMAIL AT KARA.SCHWARTZ@DOT.STATE.FL.US.
- 3. CONTRACTOR SHALL HAVE THE APPROVED SHOP DRAWINGS AVAILABLE ON THE PROJECT SITE.
- ALL WORK WHICH WILL NOT BE READILY VISIBLE UPON COMPLETION SHALL NOT BE CONCEALED UNTIL AN APPROVED INSPECTION. IN THE EVENT THAT ITEMS ARE CONCEALED, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO EXPOSE THE QUESTIONED ITEM(S) FOR THE INSPECTORS APPROVAL, AT NO ADDITIONAL COST TO THE COUNTY. THIS INCLUDES, BUT IS NOT LIMITED TO:
 - BURIED OR IMBEDDED CONDUIT
 - GROUND WIRE, RODS, AND ARRAY
 - COMMUNICATIONS WIRING AND HOMERUNS
 - SPLICES BEFORE ENCAPSULATING (Provide Digital photographs of splice trays in electronic format to BCTED prior to inspection)

ALL MEG OHM AND CONTINUITY TESTING SHALL BE DONE IN THE PRESENCE OF THE COUNTY INSPECTOR.

- THE APPLICATION OF THE FOLLOWING MATERIALS TO VARIOUS TRAFFIC SIGNAL COMPONENTS SHALL BE PERFORMED DURING ASSEMBLY:
 - THREADED HARDWARE: ALL NON-ELECTRICAL THREADED HARDWARE (i.e. ASTRO BRACKET HARDWARE, POLE HARDWARE OR ANY THREADED SURFACE) SHALL BE COATED WITH AN ANTI-SEIZE LUBRICANT APPROVED BY THE ENGINEER OF RECORD. NO SPRAY ON ANTI-SEIZE COMPOUND WILL BE ACCEPTED.
 - GASKETING SURFACES: ALL GASKET SURFACES SHALL BE LIGHTLY COATED WITH COUNTY APPROVED SILICONE GREASE.
 - ELECTRICAL CONNECTIONS: ALL MECHANICAL/ELECTRICAL CONNECTIONS SHALL HAVE THE VARIOUS COMPONENTS OF THE SPLICE OR TERMINATION COATED WITH A COUNTY APPROVED OXIDE
 - GALVANIZED SURFACES: ALL SCRATCHES AND FIELD-DRILLED HOLES SHALL BE TREATED IN ACCORDANCE WITH THE 'MAST ARM PAINT SPECIFICATION' PROVISIONS AS POSTED ONLINE AT THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PUBLICATIONS WEBSITE AT http://www.broward.org/Traffic/Pages/Publications.aspx
 - WEATHERPROOFING: IRREGULAR MATING SURFACES SHALL BE RENDERED WEATHERPROOF BY APPLYING AN APPROPIATE BEAD OF CLEAR SILICON CAULK. THESE AREAS INCLUDE SERRATED SIGNAL COUPLINGS, CONTROLLER CABINET FOUNDATION, PEDESTRIAN PUSH BUTTONS, AND ANY OTHER AREAS TYPICALLY PRONE TO MOISTURE INFILTRATION.
 - <u>CABLE_ENTRY/EXIT: WHENEVER A C</u>ABLE ENTERS OR EXITS A FIELD DRILLED HOLE, THE CABLE SHALL BE PROTECTED FROM ABRASION WITH AN APPROVED MEANS.
- 6. IN AN INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT INCLUDING A TWO MAN BUCKET TRUCK OR PLATFORM LIFT TRUCK FOR USE BY THE INSPECTOR AND MAINTENANCE STAFF.

AS-BUILTS

- THE CONTRACTOR SHALL PROVIDE SIX (6) SETS OF MARKED UP (AS-BUILT) CONSTRUCTION PLANS AND ONE CAD FILE OF SUCH TO THE ENGINEER AND MAINTAINING AGENCY AS DEFINED IN FDOT STANDARDS AND BRIDGE SPECIFICATIONS SECTION 611, SEVEN (7) DAYS PRIOR TO SIGNAL CONDITIONAL ACCEPTANCE INSPECTION BY THE MAINTAINING AGENCY. THE CONTRACTOR SHALL BE REQUIRED TO BECOME FAMILIAR WITH BCTED'S INSPECTION PROCEDURE.
- THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, IF THE HORIZONTAL AND/OR VERTICAL PLACEMENT OF EQUIPMENT VARIES FROM THE DESIGNATED LOCATION OF THE PLAN.

SUBMITTALS

ALL SUBMITTALS SHOULD BE SUBMITTED TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, CARE OF LIANA CARMONA AT THE ADDRESS LISTED BELOW. THE CONTRACTOR SHALL ALLOW FOR 30 DAY TURN AROUND ON SUBMITTALS. EOR IS THE ONLY APPROVAL REQUIRED FOR ALL FDOT PROJECTS.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 2300 W COMMERCIAL BLVD, FORT LAUDERDALE, FL 33309

PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATIONS, OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THIS PROJECT.

INTERCONNECT NOTES

- EXISTING INTERSECTION DESIGNED USING WIRELESS COMMUNICATION ROUTERS.
- PROPOSED SIGNALIZED INTERSECTIONS TO BE DESIGNED USING WIRELESS CISCO ROUTERS. CONTRACTOR IS RESPONSIBLE FOR ORDERING THE FOLLOWING WIRELESS CISCO ROUTERS & ANY ADDITIONAL EQUIPMENT:

IR1101-A-K9 SL-IR1101-NA IOT-OTHER SIR1101UK99-173 P-LTE-MNA PWR-IE50W-AC-IEC+ CAB-AC-RA

EQUIPMENT LISTED ABOVE TO BE INSTALLED AT EACH INTERSECTION.

COMMUNICATIONS NOTES

- THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS COMMUNICATION INFRASTRUCTURE" DOCUMENT. PLEASE REFER TO (BCTED'S) COMMUNICATIONS POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS. IF FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT WWW.BROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.
- IF THERE ARE COPPER INTERCONNECT CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG
- IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
- IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
- 5. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.
- COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE TRAFFIC SIGNAL TECHNICIAN III AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM.
- FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. DISTUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM

Horn SSOCIATES, INC.
PALM BEACH, FL.
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SIGNAL GENERAL NOTES

- AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE OF COMMENCEMENT, VIA EMAIL, TO TEINSPECTION@BROWARD.ORG. NOTICE SHALL INCLUDE THE DATE OF COMMENCEMENT, LOCATION AND TYPE OF WORK & INFORMATION REGARDING ANY MALFUNCTIONING SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND FILL OUT THE COUNTY'S "ACCEPTANCE OF TRAFFIC SIGNAL MAINTENANCE AND TIMING BY CONTRACTOR DURING CONSTRUCTION AND BURN-IN PERIOD" FORM LETTER, AVAILABLE AT BCTED, PRIOR TO COMMENCEMENT OF ANY WORK. MAINTENANCE OF THE SIGNAL OPERATION, INCLUDING TIMING ADJUSTMENTS, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE COUNTY ISSUES WRITTEN FINAL ACCEPTANCE OF THE INTERSECTION, AT WHICH TIME MAINTENANCE RESPONSIBILITIES ARE PROPERLY TRANSFERRED TO THE COUNTY.
- 2. APPROVAL OF SHOP DRAWINGS DOES NOT CONSTITUTE A WARRANTY THAT THE SIGNAL EQUIPMENT COMPLIES WITH THE STANDARDS OF THE MAINTAINING AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE PROPOSED SIGNAL EQUIPMENT MEETS THE REQUIREMENTS SPECIFIED IN THE CONTRACT, SPECIFICATIONS AND CONTRACT PLANS.
- 3. THE VIDEO DETECTION SYSTEM SHALL BE IN ACCORDANCE TO THE TECHNICAL SPECIFICATIONS INCLUDED IN THE Vehicle Detection Pay Item Notes' DOCUMENT POSTED ON THE BROWARD COUNTY TRAFFIC ENGINEERING WEBSITE AT http://www.broward.org/Traffic/Pages/Publications.aspx. THE VIDEO DETECTION SYSTEM SHALL BE ON THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) APPROVED PRODUCTS LIST AND MEET ALL QUALIFYING SPECIFICATIONS.AS DESCRIBED IN FDOT SECTION 660 "VEHICLE DETECTION SYSTEM" AS IT APPLIES TO VIDEO VEHICLE DETECTION SYSTEMS.
- 4. THE CONTRACTOR SHALL COORDINATE A FIELD MEETING WITH THE SIGNAL SUPERVISOR, PRIOR TO REMOVING ANY EXISTING EQUIPMENT, TO DETERMINE WHICH EQUIPMENT SHOULD BE DELIVERED TO BCTED. THE AGREED UPON EQUIPMENT SHALL BE DISASSEMBLED INTO THEIR COMPONENT PARTS, TAGGED AS TO LOCATION, PACKAGED AS NEEDED FOR PROTECTION FROM DAMAGE AND DELIVERED TO:

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION 2300 WEST COMMERCIAL BLVD FORT LAUDERDALE, FL 33309

ALL SIGNALIZATION EQUIPMENT THAT IS REMOVED AND NOT REQUESTED BY BCTED SHALL BE PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE IN A MANNER AND LOCATION APPROVED BY THE SIGNAL SUPERVISOR.

THE SIGNAL SUPERVISOR IS TO BE CONTACTED AT 954-847-2600 AT LEAST 48 HOURS PRIOR TO DELIVERY. WRITTEN ACKNOWLEDGEMENT OF EQUIPMENT RECEIPT SHALL BE OBTAINED FROM THE SIGNAL SUPERVISOR IN THE FORM OF A SIGNED RECEIPT BEARING THE CONTRACTOR'S LETTERHEAD. THIS ITEMIZED RECEIPT SHALL STATE THAT ALL OF THE EQUIPMENT REMOVED FROM EACH LOCATION WAS RETURNED TO BCTED IN GOOD CONDITION. THE CONTRACTOR SHALL PRESENT THE RECEIPT TO BCTED AT THE TIME OF SIGNAL INSPECTION. ABSENCE OF SUCH RECEIPT SHALL BE RECORDED ON THE PUNCH LIST AS AN ITEM TO BE CORRECTED PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

FDOT GENERAL NOTES

- CONTRACTOR SHALL REPAIR ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION &/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
- 2. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT LANDSCAPE ARCHITECT.
- PATTERNED PAVEMENT INSTALLATION SHALL COMPLY WITH CURRENT FDOT STANDARD SPECIFICATION 523.
 FRICTION TESTING WILL BE REQUIRED AT INTERVALS IN ACCORDANCE WITH FDOT FM 5-592, ASTM E274,
 OR ASTM E1911. ALL COSTS FOR FRICTION TESTING WITHIN THE TRAVEL WAY ARE THE RESPONSIBILITY
 OF THE AGENCY.
 ONLINE REFERENCE:

 $HTTPS://FDOTWWW.BLOB.CORE.WINDOWS.NET/SITEFINITY/DOCS/DEFAULTSOURCE/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS/JANUARY-2022/JANUARY2022-EBOOK.PDF?SFVRSN=752D1333_4$

4. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST & EXPENSE FROM THE SITE TO THE FDOT BROWARD OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.

				DATE	
				REVISIONS	
				No.	

Kimley// Horn AND ASSOCIATES, INC.
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MATTHEW B. FURSETZER FL LICENSE NUMBER PE#63997

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> SIGNALIZATION GENERAL NOTES

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UTILITIES AND COMPLETE STREET
BEAUTIFICATION
PREPARED FOR
HOLLYWOOD CRA

	TABULATION OF QUANTITIES - SIGNALIZAT	TION F	PLANS			
PAY ITEM NO.	DESCRIPTION	UNIT	T - 7	T - 8	T - 9	GRAND TOTAL
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	45	50	55	150
630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	35	75	75	185
630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	212	357	235	804
632 7 1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION, F&I	PΙ	1	1	1	3
635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	18	12	14	44
639 1 122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1	1	1	3
639 2 1	ELECTRICAL SERVICE WIRE, F&I	LF	50	50	50	150
639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1	1	1	3
641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1	1	1	3
646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	5	4	4	13
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	EA	1			1
649-21-11	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, DOUBLE ARM 60'-30'	EA		1	1	2
650 1 14	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY	AS	6	6	6	18
653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	4	4	4	12
660 4 11	VEHICLE DETECTION SYSTEM-VIDEO, F&I CABINET EQUIPMENT	EA	1	1	1	3
660 4 12	VEHICLE DETECTION SYSTEM-VIDEO, F&I ABOVE GROUND EQUIPMENT	EA	3	3	3	9
665 1 11	PEDESTRIAN DETECTOR, F&I STANDARD	EA	4	4	4	12
670 5 140	TRAFFIC CONTROLLER ASSEMBLY, F&I, MODEL 2070	AS	1	1	1	3
684 1 1	MANAGED FIELD ETHERNET SWITCH, F&I	EA	1	1	1	3
684 1 11	WIRELESS COMMUNICATION DEVICE, F&I, CELLULAR ROUTER	EA	1	1	1	3
700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	3	3	3	9

	TABULATION OF QUANTITIES - SIGNING	G & PAVEM	IENT MARI	KING PLAI	VS				
PAY ITEM NO.	DESCRIPTION	UNIT	S - 1	5-2	5-3	5 - 4	S - 5	5-6	GRAND TOTAL
0700 - 1 - 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1	1	1	1	1	1	6
0710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS							
*	RETRO-REFLECTIVE PAVEMENT MARKERS (Y/Y)	EA	8	4	4	2	6	6	30
*	RETRO-REFLECTIVE PAVEMENT MARKERS (W/R)	EA	13	2	11	1	12	3	42
0711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	104		105		101		310
0711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	182		180		144		506
0711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	1				1		2
0711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE	GM	0.02						0.02
0711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.04	0.01	0.05	0.02	0.04	0.01	0.17
0711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.03	0.01	0.09	0.09	0.02	0.02	0.26
0711-17-1	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS - SURFACE TO REMAIN	SF	460	100	570	70	250	80	1530

			SUMM.	ARY OF	MONITO	R EXIST	TING ST	RUCTUR	ES	
SITE	LOCATION	STRUCTURE	INSPEC SETTL MONIT			AT I ON OR I NG		DW AT E R OR I NG	DESIGN	CONSTRUCTION
NO.		USAGE	0108	3 1	010	3 2	0108	8 3	NOTES	REMARKS
	ADDRESS AND/OR STA.	1	L	LS		LS		.S		
	ADDRESS AND/OR STA.		Р	F	Р	F	Р	F		
	327 Nebraska Street	Parking Garage	Х		Х				DRILLED SHAFT INSTALLATION	
		TOTAL.	1		1					

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

PAY ITEM CHART IS FOR INFORMATIONAL PURPOSES ONLY. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS, AND MATERIAL QUANTITIES IN ORDER TO COMPLETE THE INTENT OF THE PROJECT.

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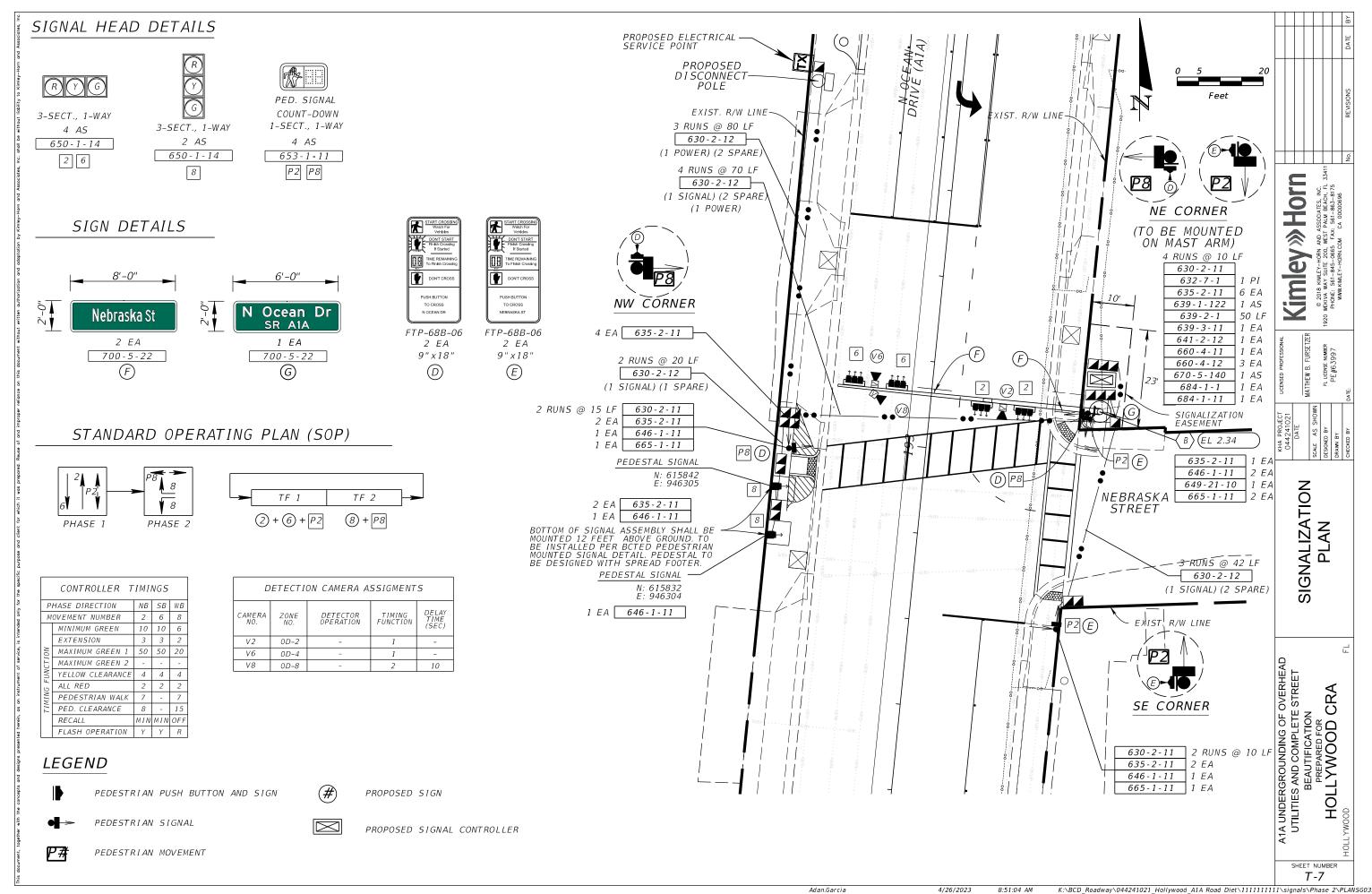
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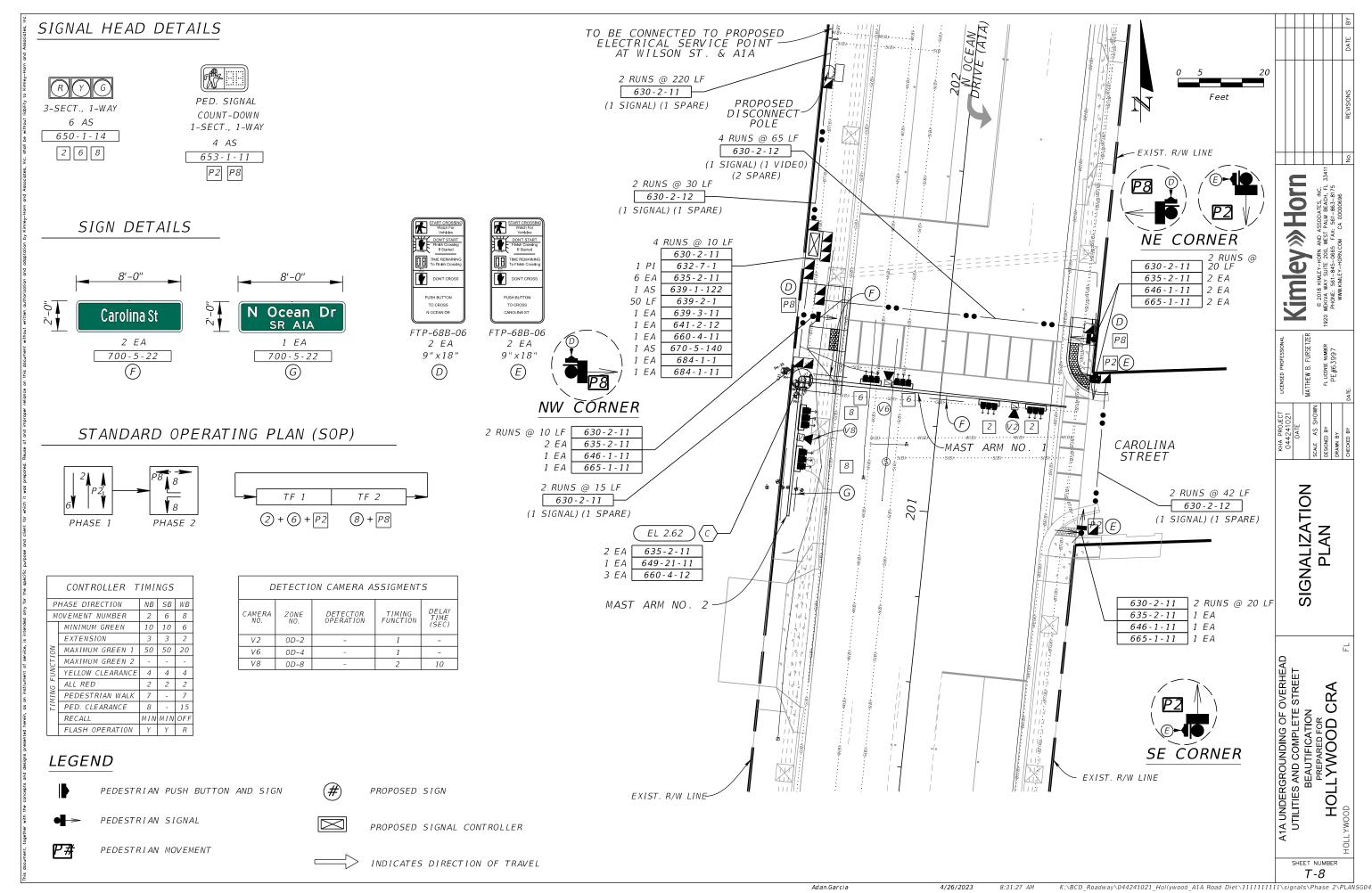
TABULATION OF QUANTITIES

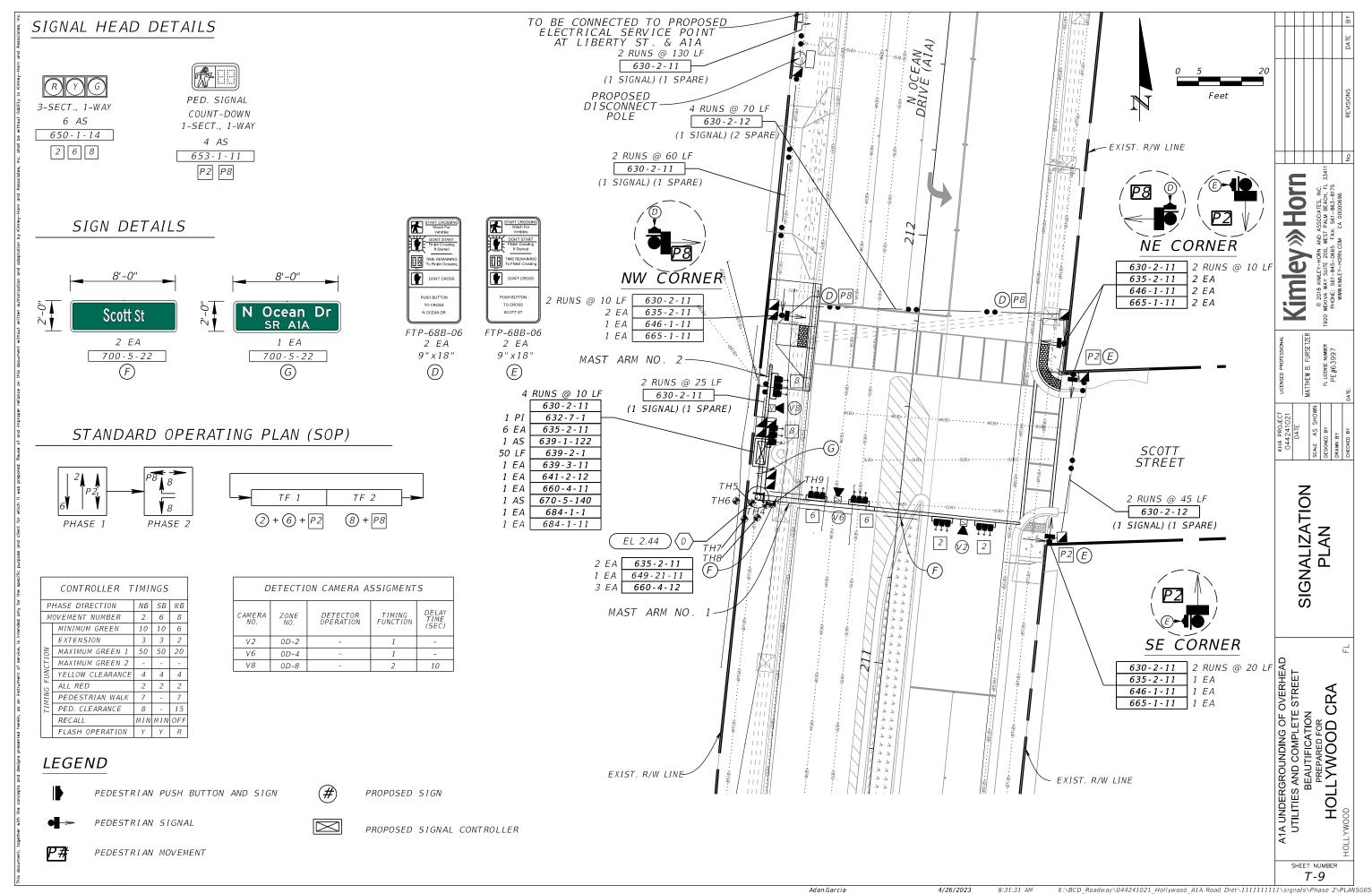
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HOLLYWOOD CRA

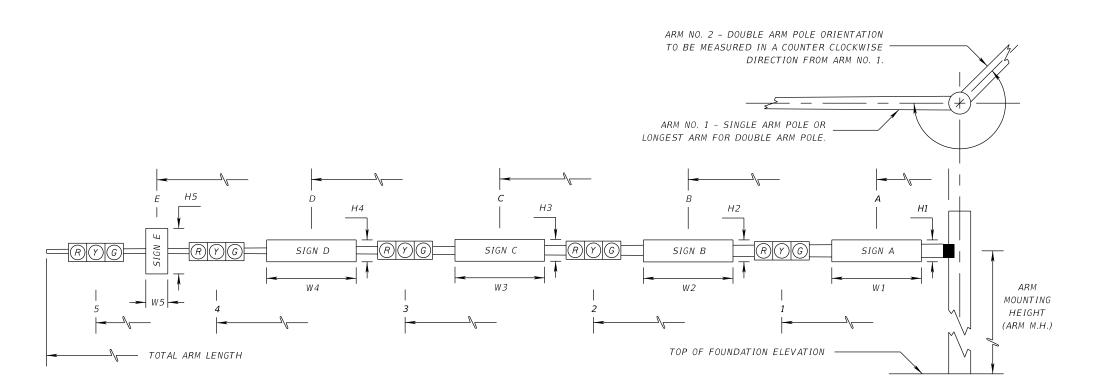
SHEET NUMBER

Adan.Garcia









										S I GN A	AL I	DATA															SIGN	I DAT	-A				
I D NO .	SHEET	LOCATION	TOP OF FOUND. ELEVATION	RDWY	CROWN	SIGNAL	BACK PED. PLATES SIGNAL Y/N Y/N			D	IST	ANCE	FROI	M P	POLE			VIDEO DETECTION CAMERA	VIDEO DETECTI ON	TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN	Di	ISTAN	CE F	ROM F		/ HEI SIGN	GHT	AND	WIDT	H OF	PAINT
NO.	NO.	BY STA.	ELEVATION	NO.	ELEV.	V/H	Y/N Y/N	1	*	2	*	3	*		4 *	5	*	CAMERA	ON CAMERA	LENGTH	М.Н.	DUAL ARMS 90/270	Α	H1	W 1	В	H2	W2	С	Н3	W3	V I D	COLOR
В	T - 7	NE Corner of Nebraska Street & N Ocean Drive (SR A1A)	2.34	1	2.7	Н	Y	12.5	5 3	23.0	3	43.0) 3		53 3			18.0	48.0	60.0	20		0	2	6	6	2	2 8	34	2	8		
С	T - 8	SW Corner of Carolina Street & N Ocean Drive (SR A1A)	2.62	1	2.9	Н	Y	14.0	3	23.0	3	42.0) 3		53 3			18.0	48.0	60.0	20	270	6	2	8	32	2	2 8					
				2		Н	Y	14.0	3	25.0	3							20.0		30.0			6	2	8	3							
D	T - 9	SW Corner of Scott Street & N Ocean Drive (SR A1A)	2.44	1	2.7	н	Y	12.0	3	22.0	3	42.1) 3		52 3			17.0	47.0	60.0	19.75	90	6	2	8	32	2	? 8					
				2		Н	Υ	14.5	3	25.0	3							20.0		30.0			6	2	8	3							
																												T					

NOTE:

MAST ARMS AND SIGNAL POLES SHALL BE PAINTED THOMARIOS POWER COATING COLOR BLACK NO. 27038.

AST
Scale AS SHOWN
FILLENSE NAMER PROFESSOR NAME OF PROFESSOR NAME

STANDARD MAST ARM TABULATION

A1A UNDERGROUNDING OF OVERHEAD
UTILITIES AND COMPLETE STREET
BEAUTIFICATION
PREPARED FOR
HOLLYWOOD CRA

		57	ANDARI	D MAST	ARM AS	SSEMBLI	ES DAT	A TABLE	<u> </u>					Т	able Date	11-01-16
STRUCTURE	TRUCTURE FIRST ARM SECOND ARM POLE SPECIAL DRILLED															
ID NUMBERS	DESIGNATION	ARM	FAA	ARM	SAA	UF (deg)	LL (deg)	POLE	UAA	UB		SH	VD REIN	REINF.		
NONBERG		ID	(ft.)	ID	(ft.)			ID	(ft.)	(ft.)	DA(ft)	DB(ft)	RA	RB	RC	RD(in)
МА-В	A60/S-P4/S-*	A60/S	_	_	-	_	-	P4/S	23	20	35	4.5	16	11	37	6
MA-C	A60/D-A30/D-P4/D-*	A60/D	-	A30/D	-	270	-	P4/D	23	20	35	4.5	16	11	37	6
MA-D	A60/D-A30/D-P4/D-*	A60/D	-	A30/D	-	90	-	P4/D	22.75	19.75	35	4.5	16	11	37	6

NOTES [Notes Date 11-01-16]:

- 1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- 2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- 3. Arm mounting height UB must be between 18-22 feet.
- 4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
- 5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- 6. Work with Index 649-030 and 649-031.

FOUNDATION NOTES:

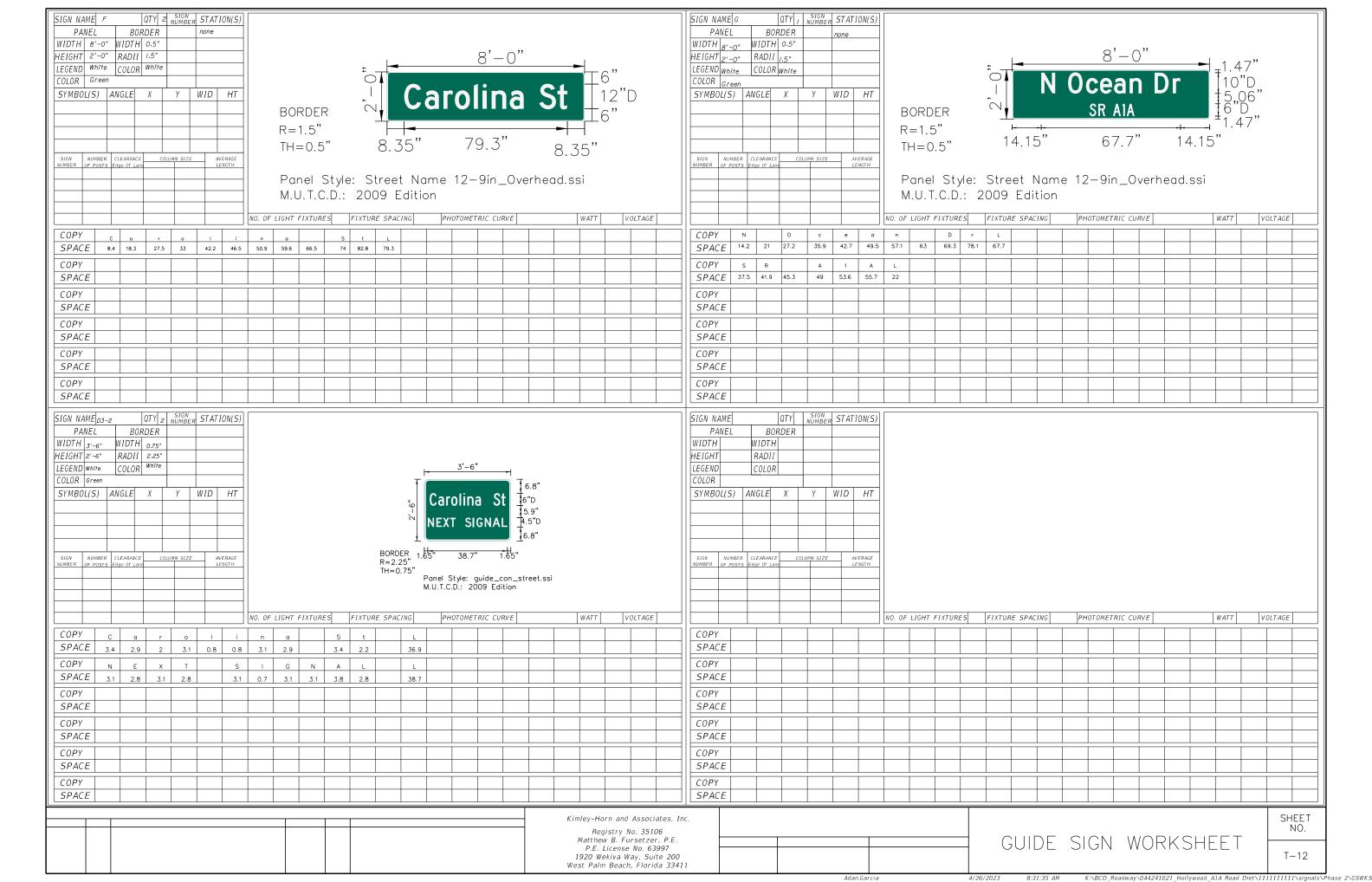
- 1. Foundation design is based on subsurface soil exploration and Geotechnical Engineering Services Report provided by TIERRA SOUTH FLORIDA, INC. (TSF) dated December 14, 2021 (TSF Project No. 7111-18-476-2).
- 2. Values used in design:

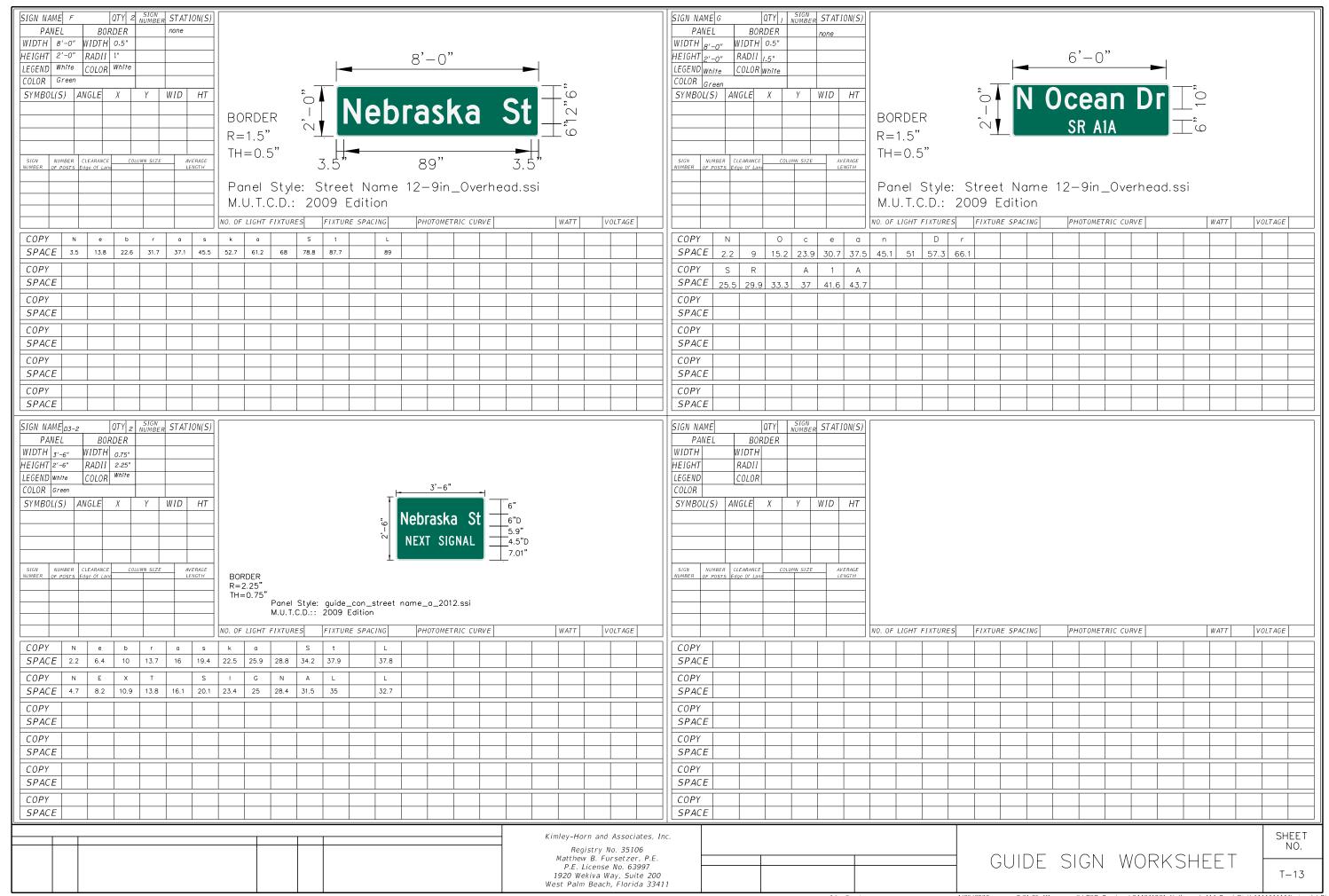
MA-5
Soil Friction Angle = 30°
Soil Weight = 53 pcf (submerged)
SPT "N" Value = 10
*Top 15 feet of organic soils were neglected in foundation design

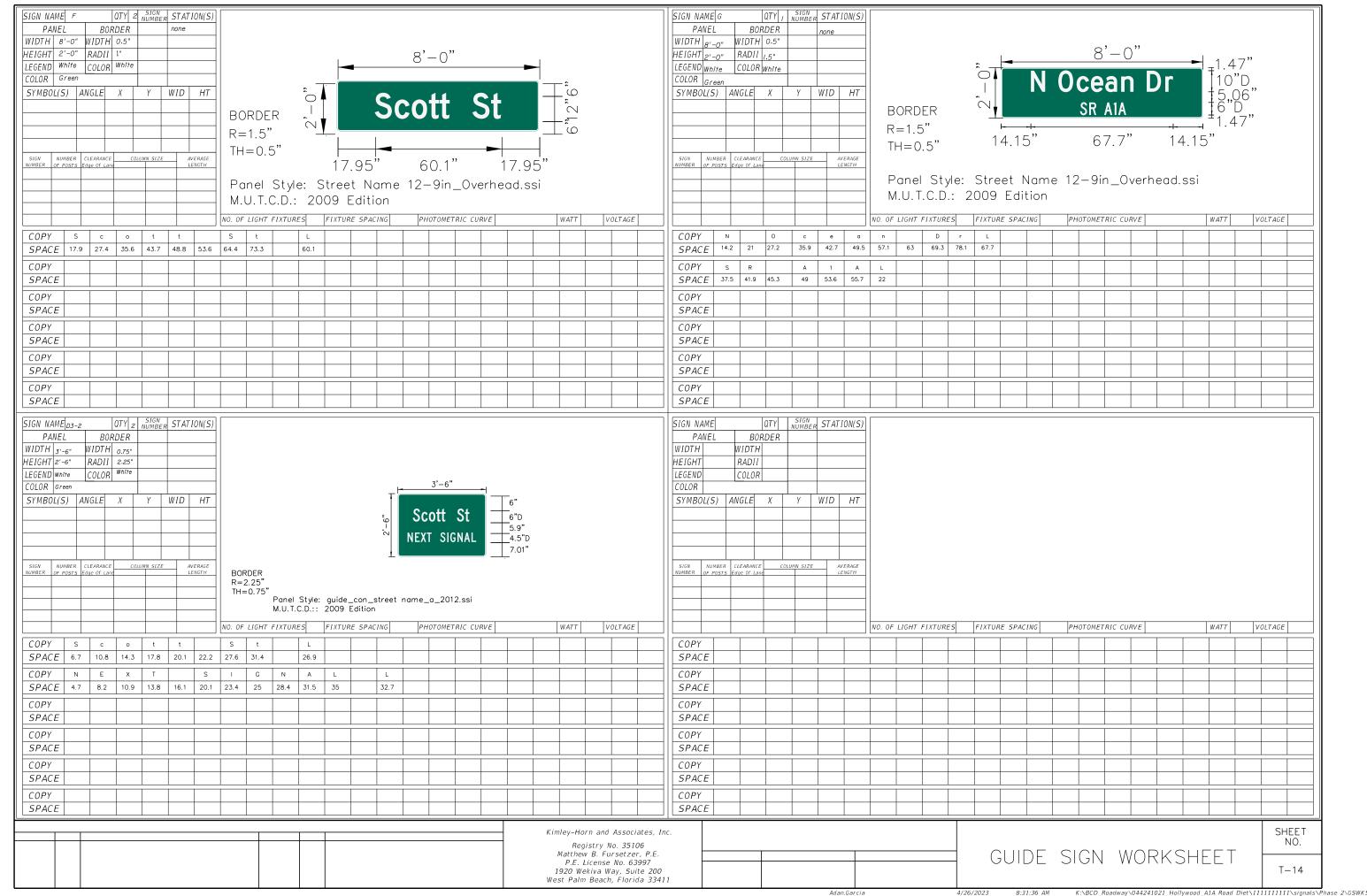
- 3. Geotechnical Recommendations
 - The Contractor shall anticipate difficult drilled shaft installation due to the presence of very dense to very loose soil conditions and limestone. The presence of difficult soil conditions may occur at varying depths below the ground. The Contractor shall anticipate potential cave-in of the fill/organic soils and limestone, difficult conditions to retain bentonite slurry inside the drilled holes and difficult casing installation and excavation conditions.
 - The foundation for MA-B shall be installed using the "Permanent Casing Method" in accordance with Standard Specification 455-15. The permanent casing is permitted to extend up to 15 feet below grade. After the drilled shaft concrete has reached 7-day cure, remove the top portion of the permanent casing to a depth of 2 feet below finish grade.
 - The Contractor shall use non-vibratory methods for permanent casing installation for the foundation of MA-B and shall take all precautions to avoid undermining nearby existing foundations.

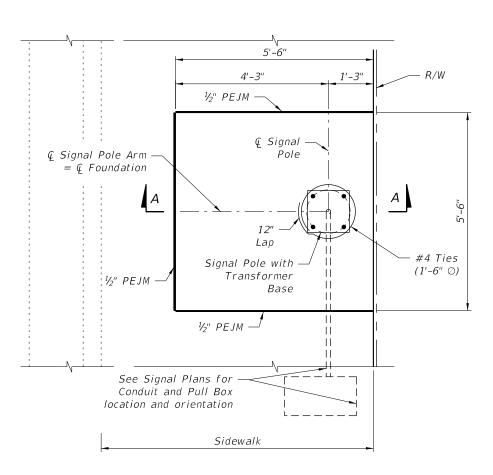
UNDERGROUNDING OF OVER STILITIES AND COMPLETE STRE BEAUTIFICATION PREPARED FOR HOLLYWOOD CRA

STANDARD MAST ARM ASSEMBLIES DATA TABLE









PLAN 5'-6" 4'-3" 1'-3" 6-#5 Equally Spaced 4" Ø Nominal Schedule 80 € Signal Aluminum Pipe Pole Breakaway Transformer Base per Manufacturer 6-#5 Equally Spaced -SEALTH ----— #4 "U" bars @ 12" Max. 41/2" 6-#5 Equally Spaced

SECTION A-A

General Notes:

- 1) Design is in accordance with FDOT Structures Manual dated January 2022 and subsequent structures bulletins. 2) Concrete shall be Class IV in accordance with FDOT Standard Specification 346. (Minimum 28-day Compressive Strenath of 5.500 psi)
- 3) Reinforcing Steel: A615 Grade 60 carbon steel per Specifications Section 931.
- 4) The footing is designed to the following loads [Extreme Load Case]:

Axial Dead load $= 0.3 \, kip$ Wind Load Moment about Transverse Axis = 12 kip-ft Wind Load Moment about Longitudinal Axis = 12 kip-ft Dead Load Moment about Longitudinal Axis = 0 kip-ft Shear in Longitudinal Axis = 0.9 kipShear in Transverse Axis $= 0.9 \, kip$ Torsion about Pole Axis = 0 kip-ft

The design wind speed is 170 mph reduced to 160 mph per FDOT Structures Manual Vol. 3.

- 5) Payment: The cost of Wire Screen, Anchor Bolts, Nuts, Washers, and Anchor Plates shall be included in the Bid Price for Signal Poles. The cost of all labor, concrete and reinforcing steel required for the construction of the spread footing and miscellaneous hardware required for the completion of the electrical system shall be included in the Bid Price for the Signal Pole.
- 6) The soil below the footing shall be compacted to a Nominal Bearing Resistance of 3 ksf.
- 7) The department will permit the use of coarse aggregate below the minimum elevation at which mechanical tampers would not be effective. Use a minimum compacted layer thickness of 12 inches coarse aggregate as specified in Section 901 for aggregate size number 57. Place the coarse aggregate such that it will be stable and firm. Fully wrap the aggregate with a layer of Type R-1 geosynthetic material, as specified in Section 985. Compact coarse aggregate backfill with a minimum of 10 passes with a vibratory compactor weighing between 200 and 600 pounds, or 5 passes with a compactor weighing more than 600 pounds. Use the highest vibration level that does not cause excessive fracture of the aggregate in the opinion of the engineer. Continue compaction until there is no additional movement. Sheepsfoot, grid rollers, or other types of equipment employing a foot are not allowed for any backfill type.
- 8) Construct the signal pole spread footings in accordance with Section 455 of the Construction Specifications except that no payment for the foundation will be made under Section 455.
- 9) Signal Pole anchor bolts and transformer base shall be installed per Manufacturer Specifications.
- 10) Shift footing reinforcement as required to clear the anchor bolts.
- 11) Reinforcement shall be in accordance with FDOT Standard Specification 415.
- 12) Maintain a 3" minimum cover between reinforcement and external surfaces unless noted otherwise.

The Contractor is responsible for ensuring the anchor bolt configuration is compatible with the signal pole base.

Abbreviations: PEJM - Premolded Expansion Joint Material UNO - Unless Noted Otherwise

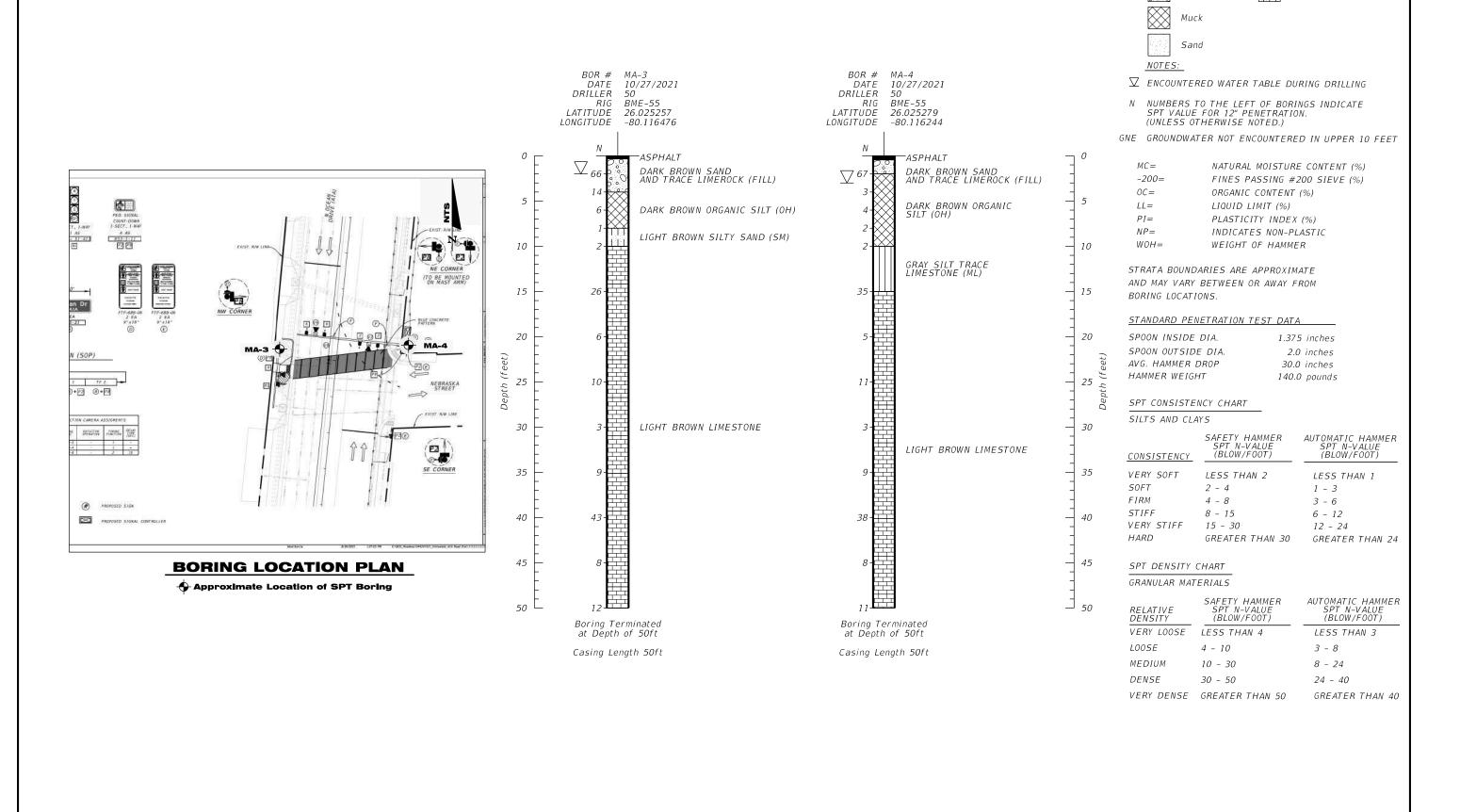
_	_	_	\vdash	\vdash	_	
					DATE	
					REVISIONS	
					No.	

Kimley»Horn AND ASSOCIATES, INC.
WEST PALM BEACH, FL 3
5 FAX: 561-863-8175
COM CA 00000696

MOUNTED SPREAD G DETAIL SIGNAL SF FOOTING I **PEDESTAL**

OVERHEAD E STREET

CRA PREPARED FOR HOLLYWOOD



RAJ KRISHNASAMY, P.E.

P.E. LICENSE NUMBER 53567

TIERRA SOUTH FLORIDA, INC.

2765 VISTA PARKWAY, S-10

WEST PALM BEACH, FL 33411

DESCRIPTION

REVISIONS

DESCRIPTION

COUNTY PROJECT ID

REPORT OF CORE BORINGS

MAST ARMS

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

COUNTY

BROWARD

CHECKED BY: MN 04-2019

DESIGNED BY:

CHECKED BY:

ROAD NO.

SR A1A

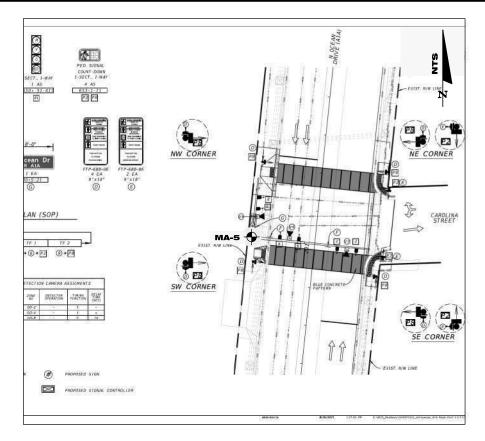
Asphalt

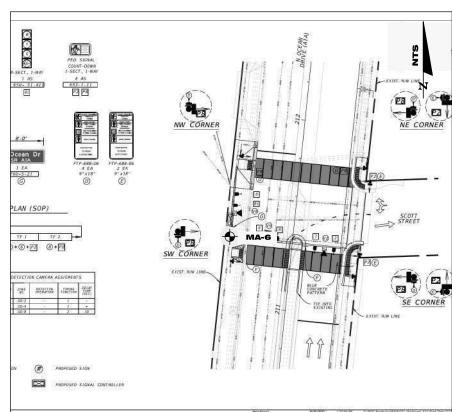
Gravelly Sand

Limestone Silty Sand

REF. DWG. NO.

SHEET NO.





BORING LOCATION PLAN

◆ Approximate Location of SPT Boring

REVISIONS

DESCRIPTION

DATE BY

RAJ KRISHNASAMY, P.E. DESCRIPTION P.E. LICENSE NUMBER 53567 TIERRA SOUTH FLORIDA, INC. 2765 VISTA PARKWAY, S-10 WEST PALM BEACH, FL 33411

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION CHECKED BY: MN 04-2019 COUNTY PROJECT ID COUNTY DESIGNED BY: **BROWARD** CHECKED BY: SR A1A

BOR #

DRILLER

LATITUDE

WOH

WOH

10-

15-

50/3-

Boring Terminated

at Depth of 50ft Casing Length 25ft

LONGITUDE

DATE

RIG

MA-6

CME45

10/27/2021 25

26.030276

-80.115857

⁻ASPHALT

DARK BROWN SAND WITH TRACE LIMEROCK (FILL)

DARK BROWN ORGANIC

GRAY SILT TRACE LIMESTONE (ML)

LIGHT BROWN LIMESTONE

LIGHT BROWN SAND WITH SOME LIMESTONE (SP)

LIGHT BROWN LIMESTONE

REF. DWG. NO. REPORT OF CORE BORINGS SHEET NO. MAST ARMS T-17 N OCEAN DRIVE (SR A1A) AND CAROLINA AND SCOTT STREET

Gravelly Sand Limestone Soft Muck Sand NOTES:

Silt

10

15

20

25

30

35

40

45

50

Asphalt

- □ ENCOUNTERED WATER TABLE DURING DRILLING
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
- GNE GROUNDWATER NOT ENCOUNTERED IN UPPER 10 FEET

MC =NATURAL MOISTURE CONTENT (%) -200= FINES PASSING #200 SIEVE (%) 0C= ORGANIC CONTENT (%) LL =LIQUID LIMIT (%) PI =PLASTICITY INDEX (%) NP =INDICATES NON-PLASTIC WOH =WEIGHT OF HAMMER

STRATA BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

STANDARD PENETRATION TEST DATA SPOON INSIDE DIA. 1.375 inches SPOON OUTSIDE DIA. 2.0 inches AVG. HAMMER DROP 30.0 inches HAMMER WEIGHT 140.0 pounds

SPT CONSISTENCY CHART

SILTS AND CLAYS

CONSISTENCY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY SOFT	LESS THAN 2	LESS THAN 1
S0FT	2 - 4	1 - 3
FIRM	4 - 8	3 - 6
STIFF	8 - 15	6 - 12
VERY STIFF	15 - 30	12 - 24
HARD	GREATER THAN 30	GREATER THAN 24

SPT DENSITY CHART

GRANULAR MATERIALS

RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY LOOSE	LESS THAN 4	LESS THAN 3
L005E	4 - 10	3 - 8
MEDIUM	10 - 30	8 - 24
DENSE	30 - 50	24 - 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40

NOTE: INFORMATION REGARDING MA-1 AND MA-2 WAS INCLUDED AS PART OF A PREVIOUS REPORT, DATED APRIL 10th 2019

BOR #

DATE

LATITUDE

LONGITUDE

0

15

20

25

30

35

40

45

RIG

14

24

Boring Terminated

at Depth of 50ft

11/29/2021

26.027469°

-80.116192°

-ASPHALT

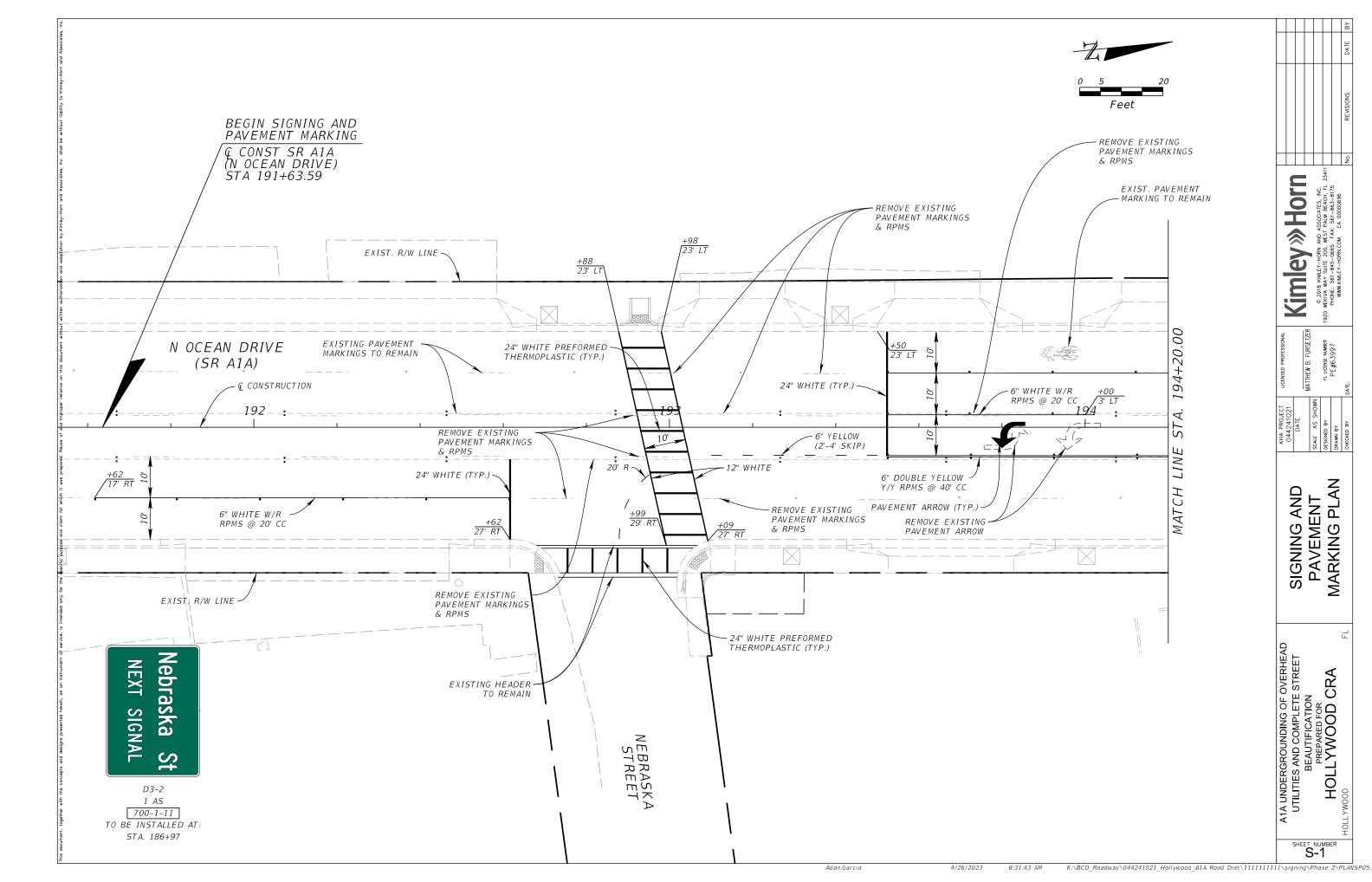
DARK BROWN SAND TRACE ROCKS/ROOTS (FILL)

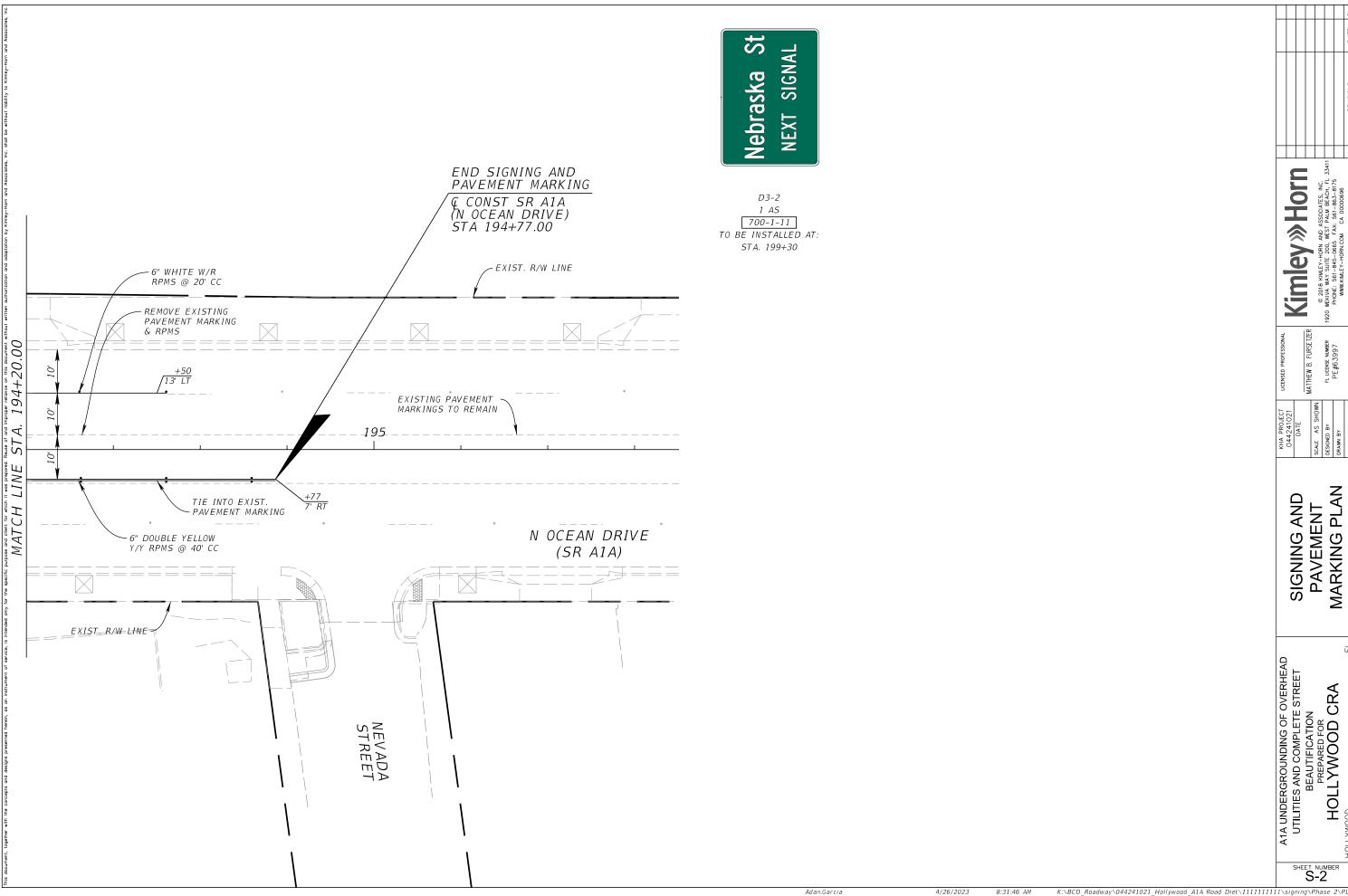
GREY/BROWN SANDY LIMESTONE

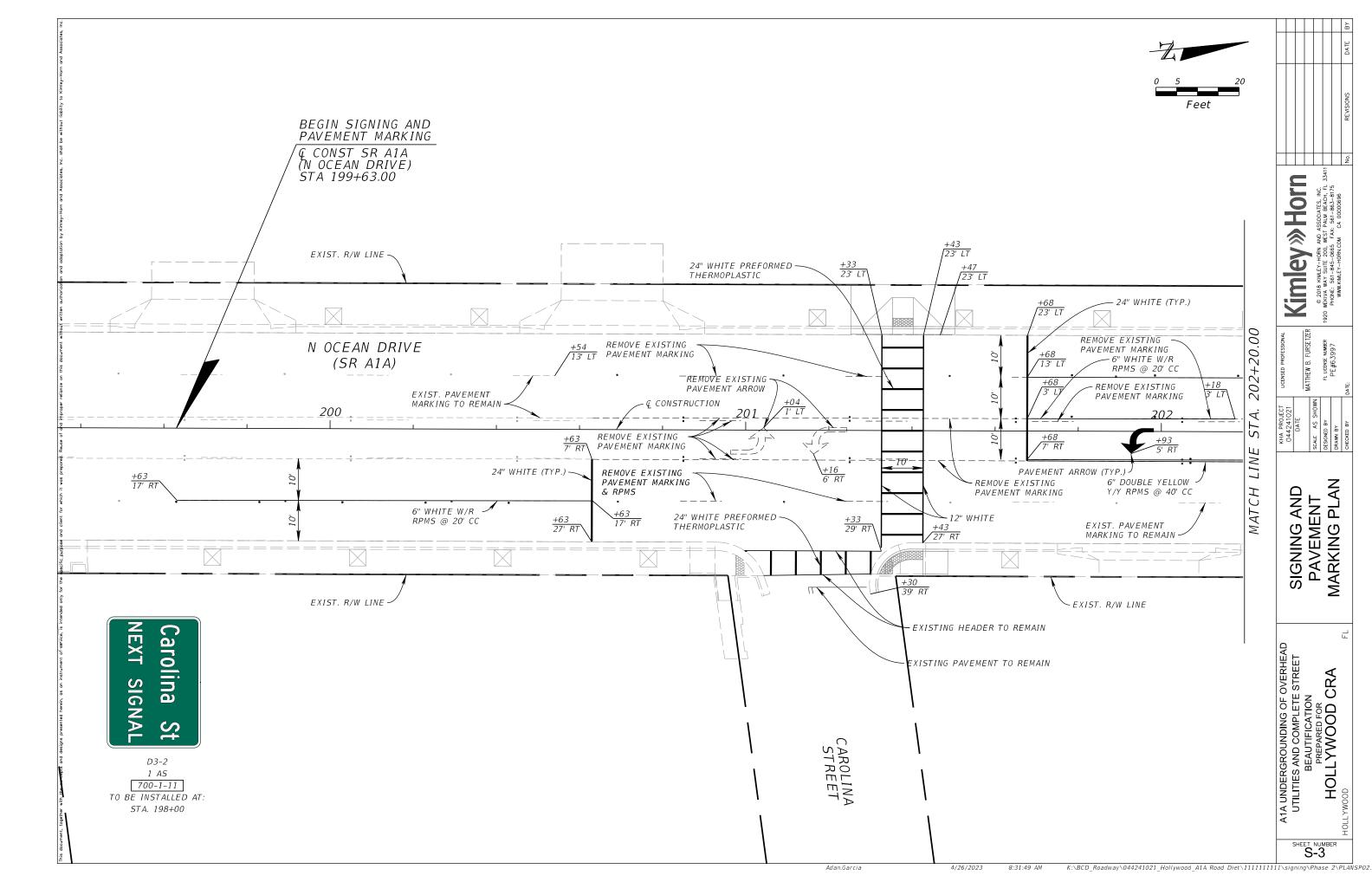
GREY/BROWN SAND TRACE SHELL/ROCK (SP)

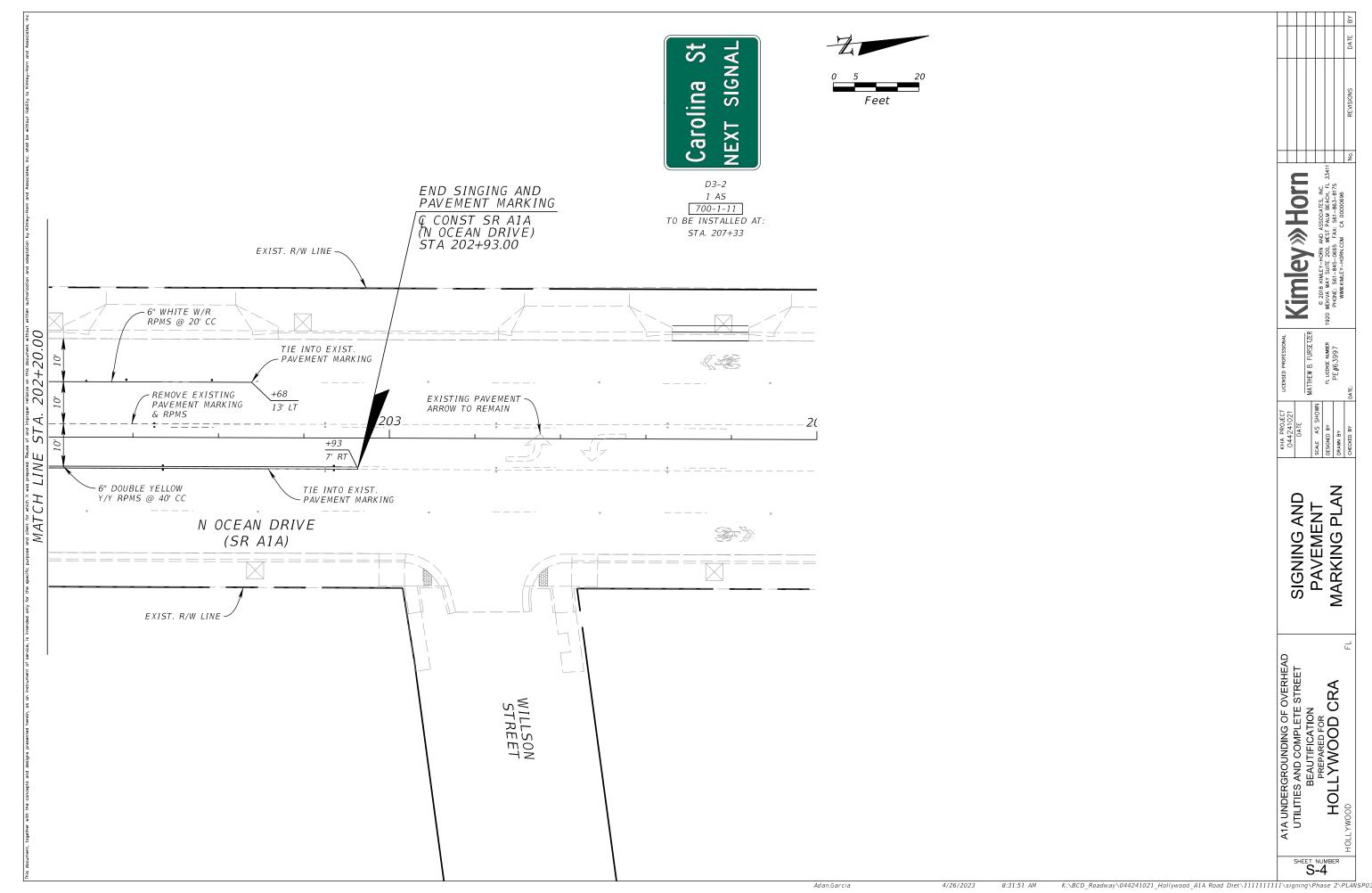
DARK BROWN ORGANIC SILT (OH)

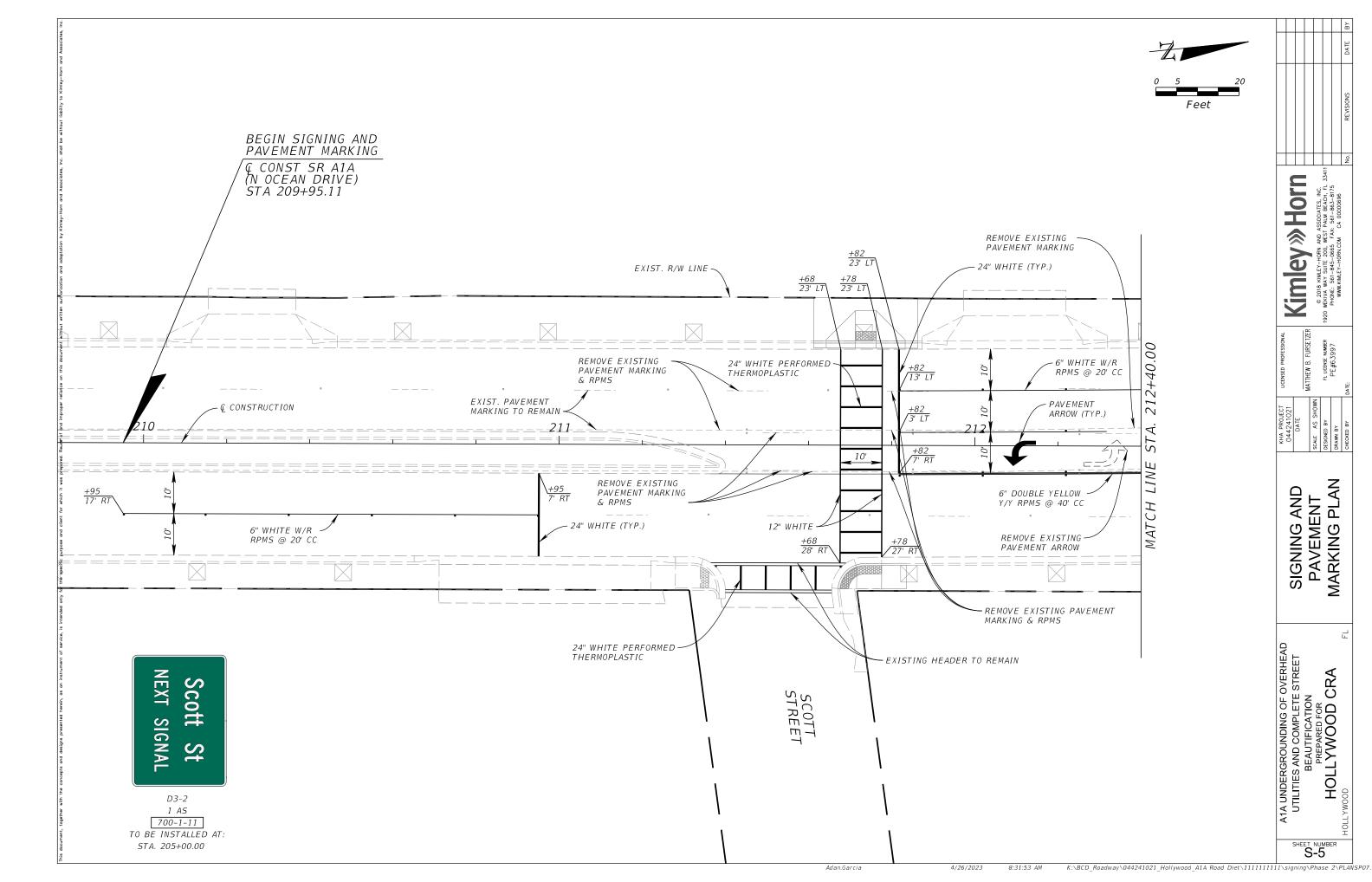
CME45

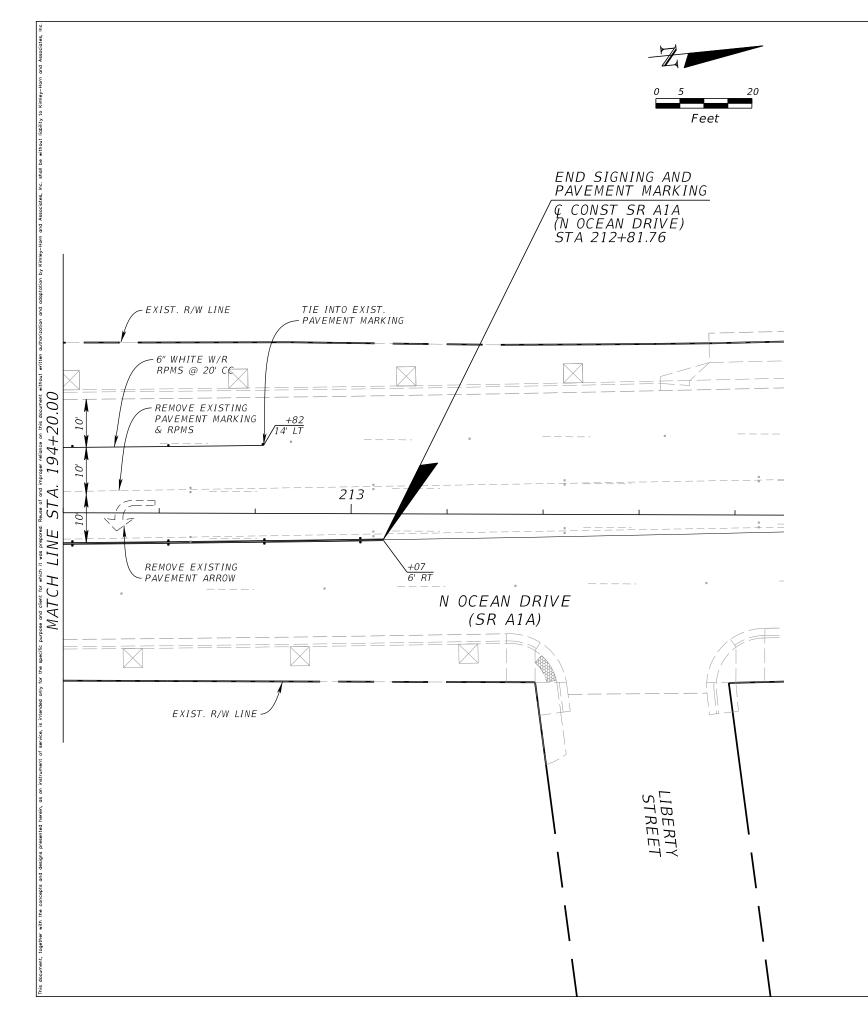












Scott St NEXT SIGNAL

D3-2 1 AS 700-1-11 TO BE INSTALLED AT: STA. 218+00 Mo. REVISIONS DATE

Kimley» Horn

© 2018 KMEY-HORN AND ASSOCIATES, INC.
20 WEKINA WAY SUITE 200, WEST PAIN BEACH, FL 334
PHONE 561-6655 FM. S. 61-685-175
WWK.KMIEY-HORN.COM. CA 000000565

MATTHEW B. FURSETZER FL LICENSE NUMBER PF #6,399.7

DATE

SCALE AS SHOWN

DESIGNED BY

SIGNING AND PAVEMENT MARKING PLAN

A1A UNDERGROUNDING OF OVERHEAD
UTILITIES AND COMPLETE STREET
BEAUTIFICATION
PREPARED FOR
HOLLYWOOD CRA

SHEET NUMBER