

Hernando County Board of County Commissioners  
15470 Flight Path Dr.  
Brooksville, FL 34604

Rev: 1

Construction Change Order

**Owner:** Hernando County Board of County Commissioners**Owner's Representative:****Vendor:** GOODWIN BROS CONSTRUCTION INC

**Change Order No.** 3  
**Contract No.** 23000755

**Change Order Date:** 04-01-2025  
**Contract Date:**

**Project Description:**

SR50 &amp; CORTEZ OAKS SIGNAL IMPROVEMENTS

**The Project is Changed as Follows**

Justification: Contract #: 2019-C-798-00008 Contract Name: Signalized Intersection  
Construction Agreement.

Grant GMS: No

CO #: 3) is requested for needed additional work, to correct a potential drainage  
issue.

Also requesting to extend the Project 20 days due to additional work needed.

Increase Line 3) \$263,401.76; New Line Total \$626,190.64

Old PO Total \$2,362,786.88 New PO Total \$2,626,188.64

Dept 03241 Account 5616307 Project# 111889 line #3) \$263,401.76

Current Substantial Completion date: 05/01/2025

New Substantial Completion date: 05/21/2025

3241-5616307    3    263401.76    111889

**Total Addition/Deduction this Change Order:**

263,401.76

**The Original Contract Sum was**

2,362,786.88

**Net Change by previously authorized Change Orders:**

29,432.50

**The Contract Sum prior to this Change Order was**

2,392,219.38

**The Net Amount of this Change Order is:**

263,401.76

**The new Contract Sum including this Change Order will be**

2,655,621.14

**The Contract Time will be changed by this Change Order (Days):**

20

**The Date of Substantial Completion as of the date of this Change Order therefore is:**

**Vendor Name/Address:**

GOODWIN BROS CONSTRUCTION INC  
PO BOX 1689  
BROOKSVILLE, FL 34605

**Owner or Owner's Representative:**

Hernando County Commission  
15470 Flight Path Dr.  
Brooksville, FL 34601



**Authorized Signature**

**Date:** April 2 2025

**Chief Procurement Office**

**Date:**

**Distribution:**

Vendor - Original  
Purchasing & Contracts  
Finance  
Requisitioning  
Contract File

## Julie Crull

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**From:** Todd Crosby  
**Sent:** Monday, April 14, 2025 10:24 AM  
**To:** Susan Brown  
**Cc:** Lillian Hoyt; Julie Crull  
**Subject:** Re: Change Order#3 SR50 & Cortez Oaks Signal Improvements - 111889 PO23000755  
**Attachments:** 23031 SR80 & Cortez Oaks Intersection 10-25-24.pdf; Contract Plans for SignalizationPlan S.R. 50.pdf

Please see attached plans and the following for the response to Carla's concerns.

Carla is also asking about the following, if you can please provide a response:

- What is the Re-Mobilization Fee and why it is necessary?
  - All equipment needed to construct the proposed change order, is not at the site or needs to be brought back to the site and its need was previously complete and with this it needs to be reused at the site for the change order.
- Is 2019-C-798-00008 the actual contract number? This isn't our typical format and Carla is questioning it. I couldn't find anything on the original Legistar Item #12000.
  - 2019-C-798-00008 is the FDOT permit number. As this construction is no a state road and a permit from FDOT is a requirement.

### **D. Todd Crosby, P.E.**

Assistant County Engineer  
Hernando County Department of Public Works  
1525 East Jefferson St., Brooksville, FL 34601  
Office: (352) 754-4062 ext. 17016  
Email: [Tcrosby@co.hernando.fl.us](mailto:Tcrosby@co.hernando.fl.us)



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**From:** Todd Crosby <TCrosby@co.hernando.fl.us>  
**Sent:** Wednesday, April 2, 2025 7:43 AM  
**To:** Susan Brown <sgbrown@co.hernando.fl.us>  
**Subject:** Fw: Change Order#3 SR50 & Cortez Oaks Signal Improvements - 111889 Needs Vendor Signature

Signed CO attached

**D. Todd Crosby, P.E.**

Assistant County Engineer

Hernando County Department of Public Works

1525 East Jefferson St., Brooksville, FL 34601

Office: (352) 754-4062 ext. 17016

Email: [Tcrosby@co.hernando.fl.us](mailto:Tcrosby@co.hernando.fl.us)





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**From:** Tom Charlow <[estimator@goodwinbrosinc.com](mailto:estimator@goodwinbrosinc.com)>

**Sent:** Wednesday, April 2, 2025 6:58 AM

**To:** Todd Crosby <[TCrosby@co.hernando.fl.us](mailto:TCrosby@co.hernando.fl.us)>

**Subject:** RE: Change Order#3 SR50 & Cortez Oaks Signal Improvements - 111889 Needs Vendor Signature

**CAUTION:** This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Todd, please see attached.

**Tom Charlow**

**Estimator/Project Manager**



**Goodwin Bros. Construction, Inc.**

P.O. Box 1689 | Brooksville, FL 34605

14341 Ponce De Leon Blvd | Brooksville, FL 34601

☎(352)796-0149 | 📠(352)544-1084 |

*Excellence is Standard.* | ✉[estimator@goodwinbrosinc.com](mailto:estimator@goodwinbrosinc.com)

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**From:** Todd Crosby <[TCrosby@co.hernando.fl.us](mailto:TCrosby@co.hernando.fl.us)>

**Sent:** Tuesday, April 01, 2025 12:33 PM

**To:** Tom Charlow <[estimator@goodwinbrosinc.com](mailto:estimator@goodwinbrosinc.com)>

**Cc:** Tracy Jubis <[tjubis@co.hernando.fl.us](mailto:tjubis@co.hernando.fl.us)>; Susan Brown <[sgbrown@co.hernando.fl.us](mailto:sgbrown@co.hernando.fl.us)>

**Subject:** Fw: Change Order#3 SR50 & Cortez Oaks Signal Improvements - 111889 Needs Vendor Signature

Tom

Please have the Change order Signed and returned.

Thanks

**D. Todd Crosby, P.E.**

Assistant County Engineer

Hernando County Department of Public Works

1525 East Jefferson St., Brooksville, FL 34601

Office: (352) 754-4062 ext. 17016

Email: [Tcrosby@co.hernando.fl.us](mailto:Tcrosby@co.hernando.fl.us)



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**From:** Susan Brown <[sgbrown@co.hernando.fl.us](mailto:sgbrown@co.hernando.fl.us)>

**Sent:** Tuesday, April 1, 2025 12:30 PM

**To:** Todd Crosby <[TCrosby@co.hernando.fl.us](mailto:TCrosby@co.hernando.fl.us)>

**Cc:** Lillian Hoyt <[LHoyt@co.hernando.fl.us](mailto:LHoyt@co.hernando.fl.us)>

**Subject:** Change Order#3 SR50 & Cortez Oaks Signal Improvements - 111889 Needs Vendor Signature

Good afternoon, Mr. Crosby,

Please see attached change order # 3, please obtain vendor signature and return for CO completion.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

P.O. Box 1689  
Brooksville, FL 34605  
goodwinbrosconst@hughes.net



Phone (352) 796-0149  
Fax (352) 544-1084

## REQUEST FOR CHANGE ORDER

<b>To:</b> Hernando County Engineering 1525 East Jefferson St Brooksville, Florida 34601	<b>Contact:</b> Todd Crosby <b>Phone:</b> 352-754-4062 <b>Email:</b>
<b>Project:</b> Cortez Oaks Intersection Improvements <b>Location:</b> Brooksville, Florida	<b>Date:</b> 1/24/2025 <b>Chng Ord 1</b> REV 2 3/27/2025

<u>Item #</u>	<u>Description</u>	<u>Qty</u>	<u>UM</u>
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See Attached Break Down

**Additional Days Added to Contract:** 20 DA

**Total:**

Revised Total: \$263,401.76

Respectfully Submitted,  
Goodwin Bros Construction, Inc.

Tom Charlow  
Estimator/Project Manager

**ACCEPTED:**

The above prices, specifications and conditions are satisfactory and hereby accepted

**Signature:** 

**Date of Acceptance:** 4/1/25

689  
e, FL 34605  
:onst@hughes.net



Phone (352) 796-0149  
Fax (352) 544-1084

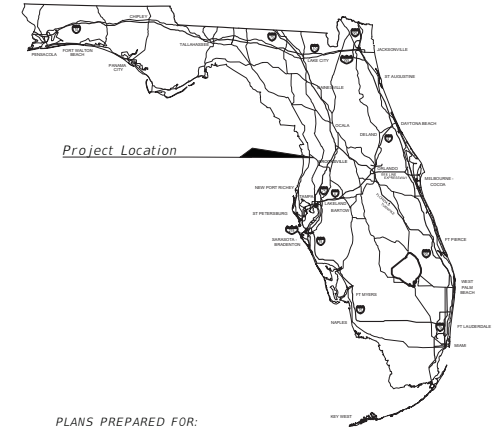
RE-Mobilization	1 LS	\$5,850.00	\$5,850.00
Mill Existing Asphalt	3,158 SY	\$7.03	\$22,200.74
3/4" FC-5 w/Rubber Cost increase	3,158 SY	\$10.69	\$33,759.02
Additional Striping	1 LS	\$39,984.00	\$39,984.00
Maintenance of Traffic	1 LS	\$86,176.46	\$86,176.46
3/4" FC-5 w/Rubber	3,158 SY	\$19.63	\$61,991.54
Type E Curb & Gutter	32 LF	\$420.00	\$13,440.00

Total:

Revised total: \$263,401.76



# CONSTRUCTION PLANS FOR SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS



Project Location

## PLANS PREPARED FOR:

FATHER SONS & DAUGHTERS LLC,  
CHRIST CHARITY FOR KIDS INC.  
12416 ARSLAN LANE  
SPRING HILL, FLORIDA 34609

## PLANS PREPARED BY:

**Coastal** Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management  
engineering associates, inc.  
966 Candlelight Boulevard - Brooksville - Florida 34601  
(352) 796-9423 - Fax (352) 799-8359  
EB-0000142

**COASTAL**  
DESIGN CONSULTANTS  
7026 Little Road, New Port Richey, FL 34653  
Certificate of Authorization No. 00009572

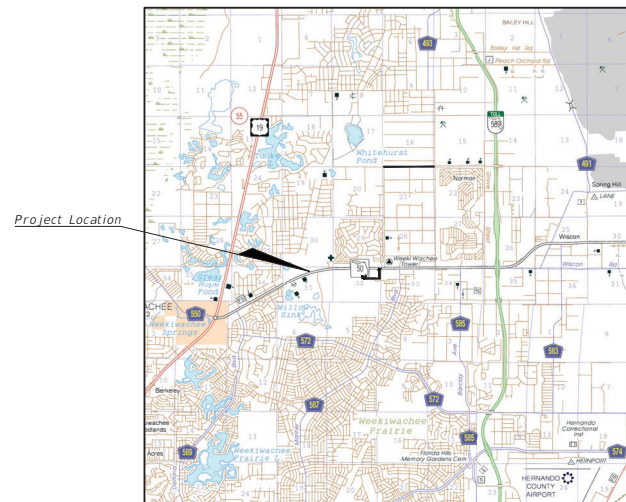
## FDOT PERMIT INFO:

FDOT CONSTRUCTION AGREEMENT: 19-C-798-00008  
FDOT DRAINAGE PERMIT: 2019-D-798-00016  
FDOT SEGMENT #: #0.08040  
SR50 MILE POST: 1.989 - 2.294

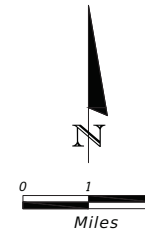
## SHEET INDEX

- C-01 COVER SHEET
- C-02 SIGNATURE SHEET
- C-03 GENERAL NOTES
- C-04 - C-05 TYPICAL SECTIONS
- C-06 DEMOLITION PLAN KEY
- C-07 - C-11 DEMOLITION PLAN SR 50
- C-12 DEMOLITION PLAN CORTEZ OAKS AVE
- C-13 DEMOLITION PLAN HOSPITAL ENTRANCE
- C-14 PLAN SHEET KEY
- C-15 - C-18 PLAN SHEET SR 50
- C-19 INTERSECTION GRADING DETAIL SR 50 & CORTEZ OAKS AVE
- C-20 INTERSECTION GRADING DETAIL SR 50 & OAK HILL HOSPITAL RD
- C-21 - C-25 CROSS SECTIONS
- C-26 SIGNING & MARKING PLAN KEY
- C-27 - C-31 SIGNING & MARKING PLAN SR 50
- C-32 - C-34 SIGNING & MARKING PLAN CORTEZ OAKS AVE
- C-35 SIGNING & MARKING PLAN HOSPITAL ENTRANCE
- T-2 SIGNALIZATION GENERAL NOTES
- T-3 TABULATION OF QUANTITIES
- T-4 SIGNALIZATION PLAN (INTERIM CONDITION)
- T-5 SIGNALIZATION PLAN (FINAL CONDITION)
- T-6 - T-7 GUIDE SIGN WORKSHEET
- T-8 STRAIN POLE SCHEDULE
- T-9 TABLE OF VARIABLES
- T-10 STRAIN POLE DETAILS
- T-11 REPORT OF CORE BORINGS

## COASTAL ENGINEERING PROJECT #17017



Project Location



## 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 Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: IR536-001-01, IR521-001-01

Standard Plans for Bridge Construction are Included in the Structures Plans Component.

## GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2020 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/implemented/SpecBooks>

Hernando County Facility Design Guidelines and specifications, 2008 web site link: <http://www.hernandocounty.us/home/showdocument?id=1556>

Hernando County Utility Department specifications, 2013. web site link: <http://www.co.hernando.fl.us/utilis/>

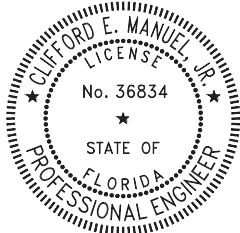
NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

## KEY SHEET REVISIONS

DESCRIPTION	DATE
MILLING & MEDIAN REVISIONS	10/11/2024

FISCAL YEAR	SHEET NO.
2019	C-01

PRINTED: 10/25/2024 - 1:02pm PRINTED BY: DA PATH: L:\23031\Waterford Cortez Intersection\dwg\ENG\Current\17017-CV.dwg



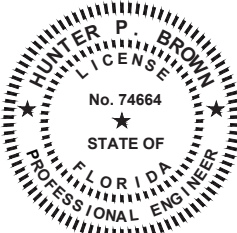
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CLIFFORD E. MANUEL, JR. ON THE DATE ADJACENT TO THE SEAL.

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

COASTAL ENGINEERING ASSOCIATES, INC.  
966 CANDLELIGHT BLVD.  
BROOKSVILLE, FLORIDA 34601  
CERTIFICATE OF AUTHORIZATION NO. 142  
CLIFFORD E. MANUEL, JR., PE #36834

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

SHEET NO.	SHEET DESCRIPTION
C-01	COVER SHEET
C-02	SIGNATURE SHEET
C-03	GENERAL NOTES
C-04 - C-05	TYPICAL SECTIONS
C-06	DEMOLITION PLAN KEY
C-07 - C-11	DEMOLITION PLAN SR 50
C-12	DEMOLITION PLAN CORTEZ OAKS AVE
C-13	DEMOLITION PLAN HOSPITAL ENTRANCE
C-14	PLAN SHEET KEY
C-15 - C-18	PLAN SHEET SR 50
C-19	INTERSECTION GRADING DETAIL SR 50 & CORTEZ OAKS AVE
C-20	INTERSECTION GRADING DETAIL SR 50 & OAK HILL HOSPITAL RD
C-21 - C-25	CROSS SECTIONS
C-26	SIGNING & MARKING PLAN KEY
C-27 - C-31	SIGNING & MARKING PLAN SR 50
C-32 - C-34	SIGNING & MARKING PLAN CORTEZ OAKS AVE
C-35	SIGNING & MARKING PLAN HOSPITAL ENTRANCE



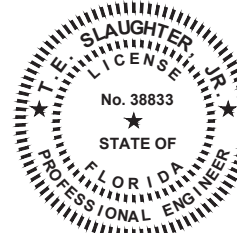
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY HUNTER P. BROWN ON THE DATE ADJACENT TO THE SEAL.

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

COASTAL DESIGN CONSULTANTS  
7026 LITTLE ROAD  
NEW PORT RICHEY, FLORIDA 34654  
CERTIFICATE OF AUTHORIZATION NO. 9572  
HUNTER P. BROWN, PE #74664

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

SHEET NO.	SHEET DESCRIPTION
C-02	SIGNATURE SHEET
T-2	SIGNALIZATION GENERAL NOTES
T-3	TABULATION OF QUANTITIES
T-4	SIGNALIZATION PLAN (INTERIM CONDITION)
T-5	SIGNALIZATION PLAN (FINAL CONDITION)
T-6 - T-7	GUIDE SIGN WORKSHEET
T-8	STRAIN POLE SCHEDULE



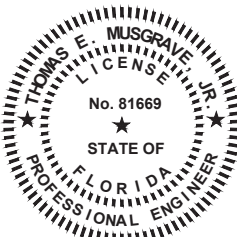
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY T. E. SLAUGHTER ON THE DATE ADJACENT TO THE SEAL.

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

MAP ENGINEERING CO.  
550 N. REO STREET  
TAMPA, FLORIDA 33609  
CERTIFICATE OF AUTHORIZATION NO. 6772  
T.E. SLAUGHTER, JR., PE #38833

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

SHEET NO.	SHEET DESCRIPTION
C-02	SIGNATURE SHEET
T-9	TABLE OF VARIABLES
T-10	STRAIN POLE DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY THOMAS E. MUSGRAVE, JR. ON THE DATE ADJACENT TO THE SEAL.

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

TIERRA, INC.  
7351 TEMPLE TERRACE HIGHWAY  
TAMPA, FLORIDA 33637  
CERTIFICATE OF AUTHORIZATION NO. 6486  
THOMAS E. MUSGRAVE, JR., PE #81669

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

SHEET NO.	SHEET DESCRIPTION
C-02	SIGNATURE SHEET
T-11	REPORT OF CORE BORINGS

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal** Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management  
966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 786-6423 - Fax (813) 786-6350  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

SIGNATURE SHEET

SHEET NO.
C-02

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



PRINTED: 10/25/2024 - 1:02pm  
PATH: L:\23031\Waterford Cortez Intersection\dwg\ENG\Current\17017-LG.dwg  
PRINTED BY: DA

GENERAL CONSTRUCTION NOTES

1. BENCHMARK DATUM IS NAVD 88 VERTICAL DATUM. NORTHING AND EASTING VALUES BASED ON NAD83 FLORIDA STATE PLANS, WEST ZONE. ADD 0.84' TO ELEVATIONS TO CONVERT TO NAVD 29.
2. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS. REFER TO THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION ON HORIZONTAL AND VERTICAL CONTROL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PIPES, ETC.) FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN AS NEARLY AS POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION AT, NO ADDITIONAL COST, WITH THE SAME MATERIAL REMOVED OR DAMAGED OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES SUCH AS MAIL BOXES, SIGNS, FENCES, BILLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.
7. THE CONTRACTOR, PRIOR TO BEGING THIS WORK, SHALL APPRAISE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID AROUND SUCH APPURTENANCES.
8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
9. CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF Dewatering NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REMOVAL REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
10. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND/OR COUNTY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS. FLORIDA BUILDING CODE LATEST EDITION AS APPLICABLE.

MINIMUM REQUIRED AS-BUILTS

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER INCLUDING, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATION OF RETENTION/DETENTION AREAS, MITIGATION AREAS AND DITCH/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TIES OF SLOPES, POND BOTTOMS AND WATER LEVELS. ELEVATIONS AND DIMENSIONS OF POND CONTROLS, STRUCTURES, SPILLWAYS AND UNDERDRAINS; DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS, STORM PIPE SIZES, PIPE MATERIALS, AND PIPE INVERTS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATION OF WATER LINE CONNECTIONS, VALVES, BEHIND METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS.
2. ALL DIMENSIONS SHALL BE IN FEET DIMENSIONED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE FOUR (4) SETS OF 11 X 17 SIGNED AND SEALED AS-BUILT DRAWINGS, ONE (1) CD WITH AUTOCAD AND ADOBE PDF'S OF ALL SHEETS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. WATER LINES, FORCE MAINS & RE-USE MAINS (WHEN APPLICABLE)

1. UTILITY PIPING SHALL BE DIMENSIONED OFF CENTERLINES OF PAVEMENT OR OTHER PERMANENT STRUCTURES.
2. FITTINGS, VALVES, HYDRANTS, TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTE INDICATING THE TYPE OF FEATURE WITH DIMENSIONS TO A PERMANENT SURFACE FEATURE.
3. INDICATE DEPTH OF COVER AT ALL LOCATIONS WHERE PIPING DIFFERS FROM THE CONSTRUCTION PLANS.
4. INDICATE ALL LOCATIONS WHERE MINIMUM VERTICAL AND HORIZONTAL WATER AND SEWER SEPARATION WAS NOT MAINTAINED, DETAIL INSTALLATION METHOD.
5. INDICATE LOCATIONS AND TYPES OF ALL BACTERIOLOGICAL SAMPLING POINTS.
6. SHOW THE SIZE, SDR, CLASS AND TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
7. DIMENSION WATER MAIN STUBS FROM GATE VALVE TO TERMINAL POINT AND FROM CENTERLINE OF ROAD.
8. ALL PRESSURE PIPE LINES (POTABLE, REUSE, FM) TOP OF PIPE SHALL BE LOCATED (X,Y,Z) AT 100'-FT STATION INTERVALS.

SEWER (WHEN APPLICABLE)

1. SHOW ACTUAL ELEVATIONS (TOP AND ALL INVERTS) FOR ALL NEW AND EXISTING MANHOLES.
2. SHOW ACTUAL GRAVITY SEWER SLOPE PERCENTAGES.
3. INDICATE ALL LOCATIONS WHERE SEWER LINE WAS ENCASED OR WHERE DUCTILE IRON WAS UTILIZED.
4. SHOW SIZE, SDR, CLASS OR TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
5. SHOW LOCATIONS OF ALL SERVICE WYES BY DIMENSION FROM MANHOLES.
6. DIMENSION SERVICE LATERAL TERMINATION POINTS AND DEPTH FROM FINISH GRADE.
7. FITTINGS, VALVES, TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTES INDICATING THEIR EXACT LOCATION.
8. PUMP STATIONS (WHEN APPLICABLE)
1. SHOW BOTTOM, INFLUENT INVERT AND TOP ELEVATIONS OF WETWELL.
2. ACTUAL ELEVATIONS OF BOTTOM OF CONTROL PUMP.
3. ELEVATIONS OF LIQUID LEVEL SENSORS FOR PUMP OFF, FIRST AND SECOND PUMPS ON (THIRD IF PROVIDED), AND ALARM ON.
4. SHOW ALL WETWELL AND VALVE VAULT PIPING AND VALVE CHANGES.

NOTE: PROJECT SHALL NOT BE CERTIFIED COMPLETE BY THE ENGINEER WITHOUT RECEIPT OF ACCEPTABLE AS-BUILT INFORMATION AND ALL SPECIFIED TEST RESULTS.

FDOT GENERAL NOTES

BROOKSVILLE MAINTENANCE FDOT GENERAL NOTES

- ALL WORK PERFORMED IN THE DEPARTMENT'S RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF:
- A) FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  - B) FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM.
  - C) FDOT DESIGN MANUAL (TDM)
  - D) FDOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION.
- 1) ALL AREAS IN THE FDOT RIGHT OF WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, COMPACTED, SODDED AND WATERED IN CONFORMANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 570 AND 981 AND DESIGN STANDARDS INDEX 570-010.
  - 2) DAYTIME WORK ONLY: THE FDOT ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE. THE APPLICANT MUST NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE 48 HOURS IN ADVANCE OF STARTING ANY PROPOSED WORK. CALL: BROOKSVILLE MAINTENANCE, James Meyer @ 352-846-2610
  - 3) ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE". REMOVAL OF EXISTING STRIPING SHALL BE DONE BY MILLING AND RESURFACING OF THE FRICTION/SURFACE COAT TO OBLITERATE OBSOLETE PAVEMENT MARKINGS.
  - 4) ALL PROPOSED TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH AND CONSTRUCTED TO THE FDOT DESIGN STANDARDS INDEX SERIES 600 AND 700 SERIES. THE PROPERTY OWNER MUST MAINTAIN THE TRAFFIC SIGNS AND MARKINGS FOR THE DRIVEWAY.
  - 5) THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY OR CONTRACTOR EMPLOYEE(S) INSTALLING AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN. DOCUMENTATION IS TO BE FURNISHED TO THE DEPARTMENT AT THE PRE-CONSTRUCTION MEETING OR BEFORE OCCUPYING STATE RIGHT-OF-WAY.
  - 6) MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE INDICES OF THE FDOT DESIGN STANDARDS INDEX 102 SERIES ACCORDING TO THE TYPE OF ROADWAY AND TYPE OF WORK BEING PERFORMED.
  - 7) SILT FENCE FOR EROSION CONTROL IN CONFORMANCE WITH THE FLORIDA EROSION SEDIMENT CONTROL MANUAL IS REQUIRED FOR ALL AREAS OF CONSTRUCTION WITH FDOT R/W, PERPENDICULAR TO AND PARALLEL WITH THE STATE ROAD.
  - 8) SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 522-001 AND 522-002. DETECTABLE WARNING STRIPS, A.K.A. TRUNCATED DOMES, FOR DISTRICT SEVEN CONSTRUCTION AND MAINTENANCE SHOULD BE EITHER INSET CERAMIC TILES OR THERMOPLASTIC DETECTABLE WARNING STRIPS. THESE WARNING SURFACES SHALL ONLY BE PROVIDED BY THE FOLLOWING VENDORS/MANUFACTURERS.
    - a) INLINE TRUNCATED DOME EZ TILE SUPPLIED BY PROFESSIONAL PAVEMENT PRODUCTS
    - b) TOPMARK SUPPLIED BY TOPMARK
    - c) VANGUARD TRUNCATED DOME SUPPLIED BY VANGUARD
  - 9) MAINTENANCE OF TRAFFIC PLAN MUST INCLUDE FDOT DESIGN STANDARDS INDEX 102-660 PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS.

\*\*FOR FACILITIES WITH PUBLIC SIDEWALK WITHIN FDOT RIGHT OF WAY, INCLUDE NOTES 8 AND 9

OVERHEAD UTILITY NOTE

- 1) CONTRACTOR SHALL COMPLY WITH OSHA'S STANDARDS 29 CFR PART 1926, SUBPART CC FOR VERTICAL AND HORIZONTAL CLEARANCES TO THE OVERHEAD DISTRIBUTION AND TRANSMISSION POWER LINES.

TEMPORARY TRAFFIC CONTROL PLAN NOTES

- 1) FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED BY, A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURE, TOPIC NO. 625-010-010.
- 2) FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625-010-010.
- 3) ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR THE FOLLOWING FACILITIES SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING TOPPED SPEEDS AS STATED FOR ALL TRAFFIC CONTROL PHASES: SR50- 55 MPH

INSPECTIONS AND MAINTENANCE OF STORMWATER FACILITIES

1. EROSION AND SETTLEMENT CONTROLS SHALL BE INSPECTED ON A DAILY BASIS. WHEN NECESSARY REPAIRS SHALL BE INITIATED WITHIN 24 HOURS OF NOTED DEFICIENCY.
2. SEDIMENT PUMPS, IF DESIGNED AND INSTALLED, SHOULD HAVE SEDIMENT REMOVED AS NECESSARY TO ALLOW FOR EFFICIENT REMOVAL OF SUSPENDED PARTICLES. THEY SHOULD BE RE-EXCAVATED TO THE DESIGN FINISH GRADE ELEVATION, IF SITED IN.
3. SPECIFIC CONDITIONS OF ALL PERMITS MAY REQUIRE ADDITIONAL MAINTENANCE ACTIVITIES ABOVE AND BEYOND THOSE OUTLINED ABOVE. CHECK ALL PERMIT CONDITIONS AS ISSUED BY REGULATORY AGENCIES TO ENSURE COMPLIANCE.
4. THE REMOVAL OF LITTORAL SHELF VEGETATION (INCLUDING CATTAILS) FROM WET DETENTION PONDS IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFMD). REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDES, CUTTING AND THE INTRODUCTION OF GRASS CARP. ANY QUESTIONS REGARDING AUTHORIZED ACTIVITIES WITHIN THE WET DETENTION PONDS SHALL BE ADDRESSED TO THE REGULATION MANAGER OF SWFMD/LOCAL OFFICE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT / EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.

ENVIRONMENTAL PROTECTION NOTES

1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE ENGINEER & THE APPROPRIATE REGULATORY AUTHORITIES. WHERE CONSTRUCTION IS NECESSARY ACROSS OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
2. CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.
3. STAGED OR FLOATING SILT SCREENS OR SYNTHETIC HAY BALES, AS APPROPRIATE, SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM ENTERING WATER BODIES OR WETLAND AREAS. ONCE CONSTRUCTION IS COMPLETE AND FINISH GRADING / STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE OWNER AND PRIOR TO FINAL ACCEPTANCE.
4. ALL FUGITIVE DUST FROM PAVING AND OTHER SITE WORK SHALL BE PREVENTED BY THE FOLLOWING: CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING, APPLICATION OF CALCIUM CHLORIDE OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EXHAUSTION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.
5. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST SURFACE WATER BODY OR WETLAND AREA, TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
6. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS. ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCRoACHING UPON WETLAND AREAS OR SURFACE WATER BODIES. STOCKPILES IN PLACE AND UNTOUCHED FOR 7 DAYS OR MORE TO HAVE VEGETATIVE COVER TO PREVENT WIND EROSION AND SEDIMENT DISPOSAL.
7. ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS ON-SITE FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON-SITE FOR CONSTRUCTION. STORAGE CONTAINERS, VEHICLES, ETC. WILL BE INSPECTED REGULARLY FOR LEAKAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPROPRIATE GOVERNMENT AGENCIES.
10. CONTRACTOR SHALL NOT REMOVE TREES WITHOUT APPROVAL OF THE LOCAL GOVERNING JURISDICTION. TREE PROTECTION SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION OR ALTER EXISTING TOPOGRAPHY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOIL SYNTHETIC HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM RUTTING, ETC.) TO THE LINES AND GRADES SHOWN IN THE PLANS UNTIL FINAL ACCEPTANCE. ALL SLOPES AND SURFACES AT AN STEEPER SLOPE AS SLOODED, ALL OTHER UNPAVED SURFACES WHICH EXPERIENCE UNDUE EROSION THAT CANNOT BE CONTROLLED BY OTHER MEANS SHALL BE SLOODED. ALL SLOODED SLOPES SHALL BE IDENTIFICALLY MARKED SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS. ALL SLOODED SLOPES OVER 4:1, SHALL BE INSTALLED WITH SOD PEGS.
12. HERNANDO COUNTY HAS AN NPDES ORDINANCE REQUIRING COMPLIANCE ON ALL CONSTRUCTION SITES. (CH-28, ARTICLE X, SEC. 28-341 TO 403)
13. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS PERMANENTLY STABILIZED. SEE SWPPP / COWMP NOTES AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT/EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.

SPECIAL NOTES TO CONTRACTORS

1. WHERE TREE REMOVAL IS REQUIRED DUE TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. THE COST FOR THIS REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS. TREE REMOVAL AND PROTECTION SHALL COMPLY WITH APPLICABLE CITY AND COUNTY CODES.
2. UNLESS SPECIFIED OTHERWISE, CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED ITEMS SHOWN WITHIN THE CONSTRUCTION PLANS.
3. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING IS THE RESPONSIBILITY OF THE CONTRACTOR. BOTH SHALL BE STAGED OUTSIDE THE CLEAR ZONE, AND NOT OBSTRUCT THE SITE DISTANCE OF ANY INTERSECTIONS OR DRIVEWAYS.
4. A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS NOT PART OF THE PERMITTING OBTAINED WITH THIS PLAN SET. THEREFORE, THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621, F.A.C. FOR ADDITIONAL INFORMATION.
5. THE INFORMATION PROVIDED IN THE SWPPP NOTES AND DETAILS SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL RESOURCE PERMITTING UNDER CHAPTER 62-333, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.

MAINTENANCE OF TRAFFIC

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MAINTENANCE OF TRAFFIC, INCLUDING SIGNAGE AND BARRICADES AS NEEDED IN ACCORDANCE WITH APPLICABLE PERMITS AND HERNANDO COUNTY DIVISION OF TRAFFIC SERVICES.
2. MOT WITHIN FDOT RIGHT OF WAY AND SURROUNDING COUNTY STREETS SHALL CONFORM TO THE FDOT 2020-21 STANDARD PLANS 102 SERIES AS APPROPRIATE.
3. CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO LOCAL EMERGENCY SERVICES DEPARTMENT(S) WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS TO APPROPRIATE REGULATORY AGENCIES HAVING JURISDICTION. CONSTRUCTION SHALL NOT COMMENCE WITHIN ROW UNTIL MOT APPROVALS FOR IMPACTED ROAD ARE RECEIVED.



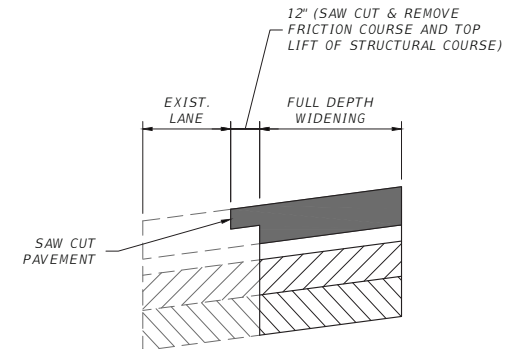
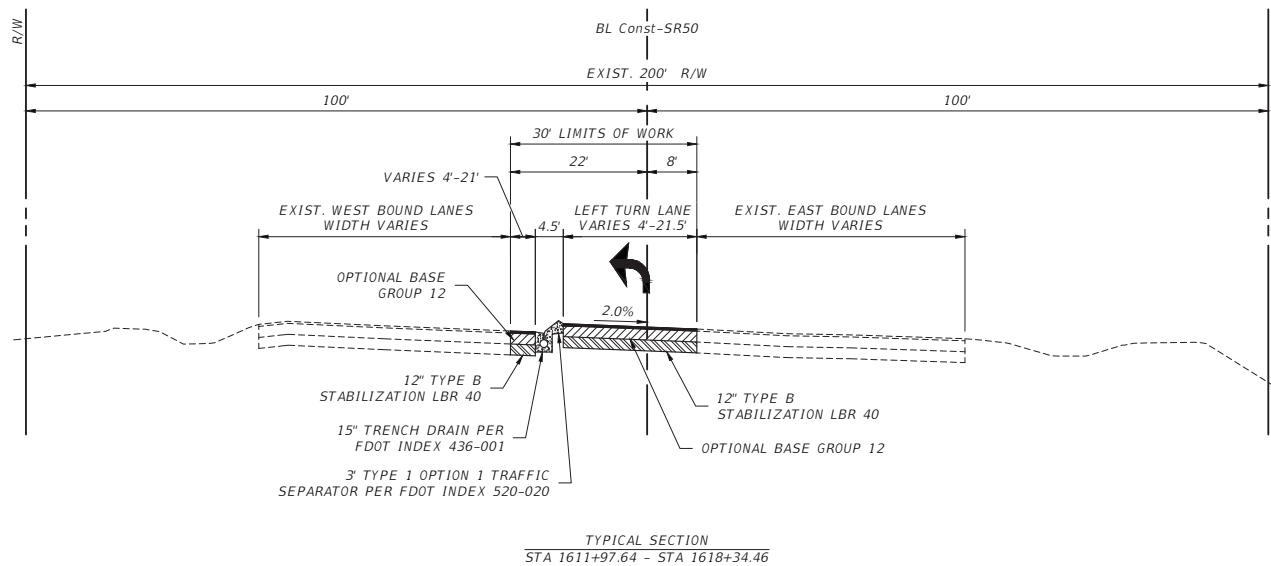
REVISIONS				 966 Candlelight Boulevard • Brooksville • Florida 34601 (352) 798-0423 • Fax (352) 798-0359 E8-000142  SCOTT D MCKEE, P.E. #65654	SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	COASTAL PROJECT NO.		
7/31/19	REVISED OER FDOT COMMENTS				SR 50	HERNANDO COUNTY	17017		C-03
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED								
2/14/20	FDOT COMMENTS								

GENERAL NOTES

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SAW CUT DETAIL  
N.T.S.

MILLING  
MILL EXISTING ASPHALT PAVEMENT (2 1/4" AVG. DEPTH)

RESURFACING  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")  
AND FRICTION COURSE (FC-5) 3/4" (PG 76-22)

WIDENING  
OPTIONAL BASE GROUP 12 WITH TYPE SP  
STRUCTURAL COURSE (TRAFFIC C) (4") AND  
FRICTION COURSE (FC-5) (3/4") (PG 76-22)

TYPICAL SECTION NOTES:

1. THE CONTRACTORS ROLLERS SHALL BE USED IN STATIC MODE ONLY.

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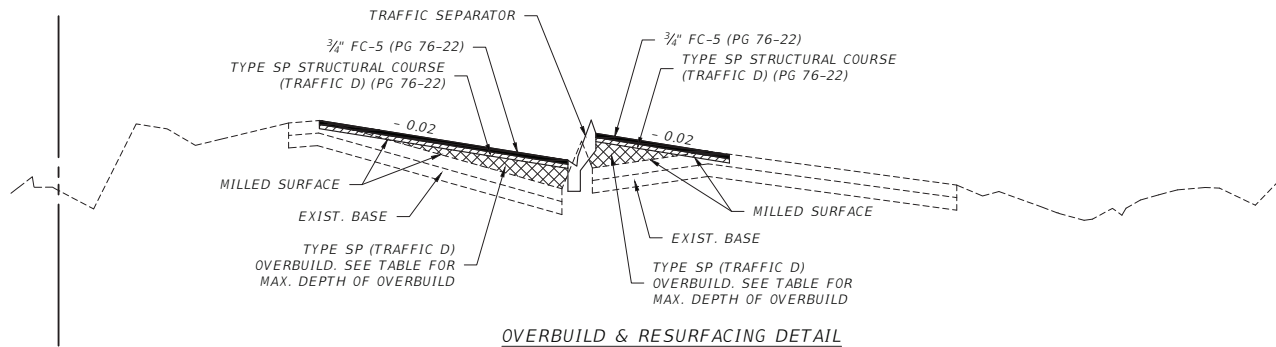
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

TYPICAL SECTIONS (1)

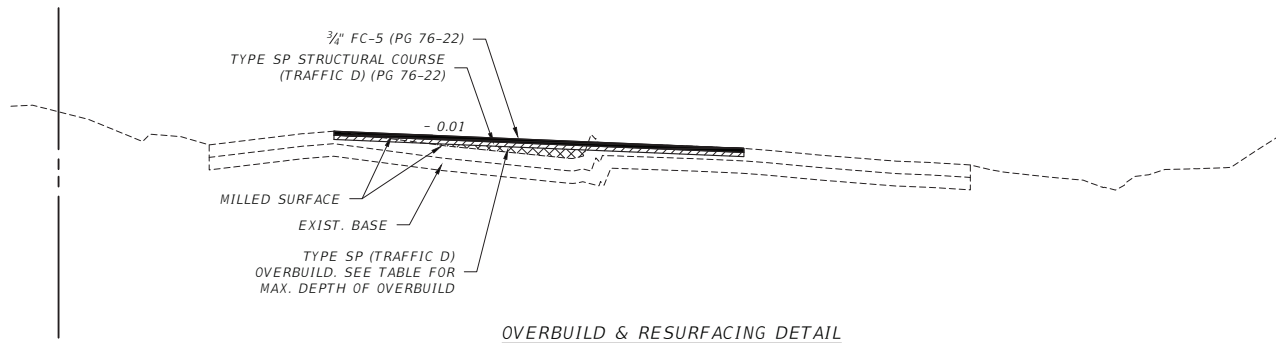
SHEET  
NO.  
C-04

# OVERBUILD DETAILS

LOCATION		EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ.FT.)
STATION	LANE					
1617+80.00	EASTBOUND INSIDE	0.70	(-) 2.0	5.2	22	5.0
1617+80.00	WESTBOUND INSIDE	(-) 2.0	EXIST.	0.0	.	0.0
1618+00.00	EASTBOUND INSIDE	1.1	(-) 2.0	4.6	21	3.0
1618+00.00	WESTBOUND INSIDE	(-) 2.0	EXIST.	0.0	.	0.0
1618+50.00	INTERSECTION	(-) 1.9	(-) 1.0	8.1	40	18.0
1619+00.00	INTERSECTION	(-) 2.8	(-) 1.0	11.8	45	14.0
1619+50.00	INTERSECTION	(-) 2.1	(-) 1.0	9.0	42	15.0
1620+00.00	INTERSECTION	(-) 2.0	(-) 1.0	6.8	56	22.0
1620+40.00	WESTBOUND INSIDE	(-) 2.0	EXIST.	0.0	.	0.0



STA 1617+80 TO STA 1618+36.46



STA 1618+36.46 TO STA 1620+40.00

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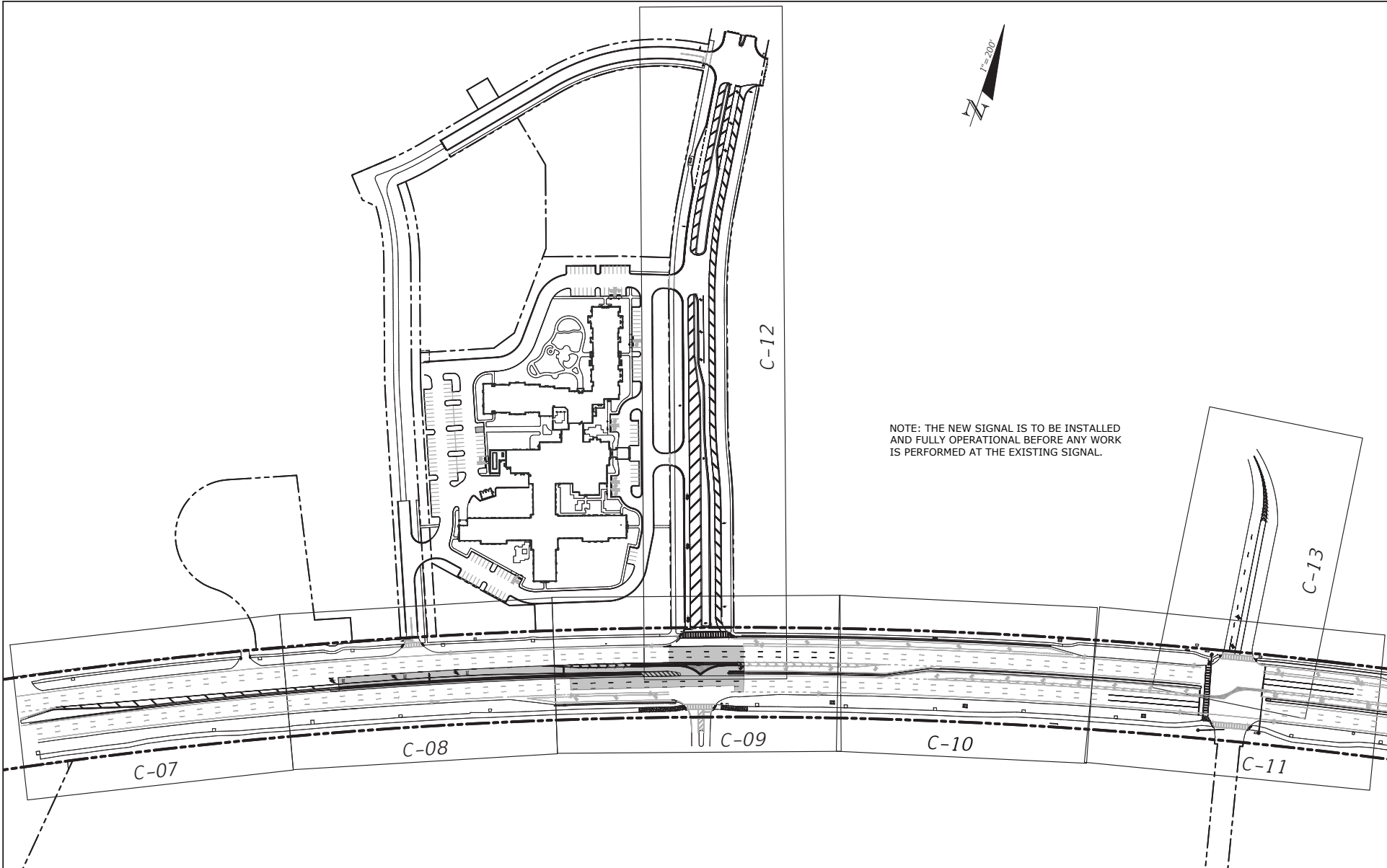
## SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS

ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

## TYPICAL SECTIONS (2)

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C-05

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2/14/20	FDOT COMMENTS

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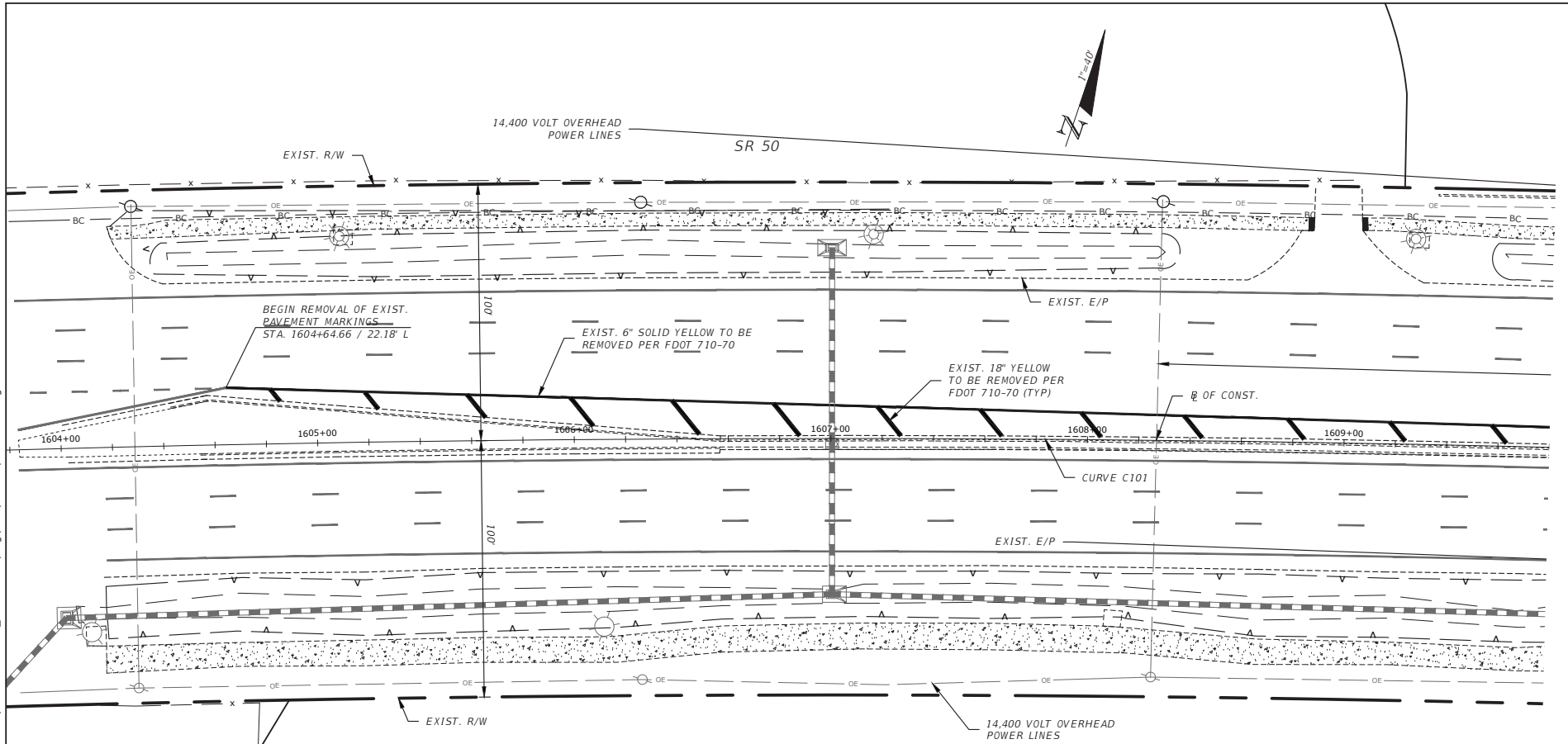
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
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SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN KEY

SHEET NO.
C-06

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LIMITS OF MILLING

LIMITS OF DEMOLITION

OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
 $\Delta$  = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

- NOTES:
1. BASELINE OF CONSTRUCTION AND CURVE DATA TAKEN FROM FDOT PLANS (FINANCIAL PROJECT ID 407951-3-52-01) SR50 FROM US 19 TO CR587.
  2. EXISTING PAVEMENT MARKING TO BE REMOVED PER FDOT STANDARD SPECIFICATION 710-70 OR 711-70.

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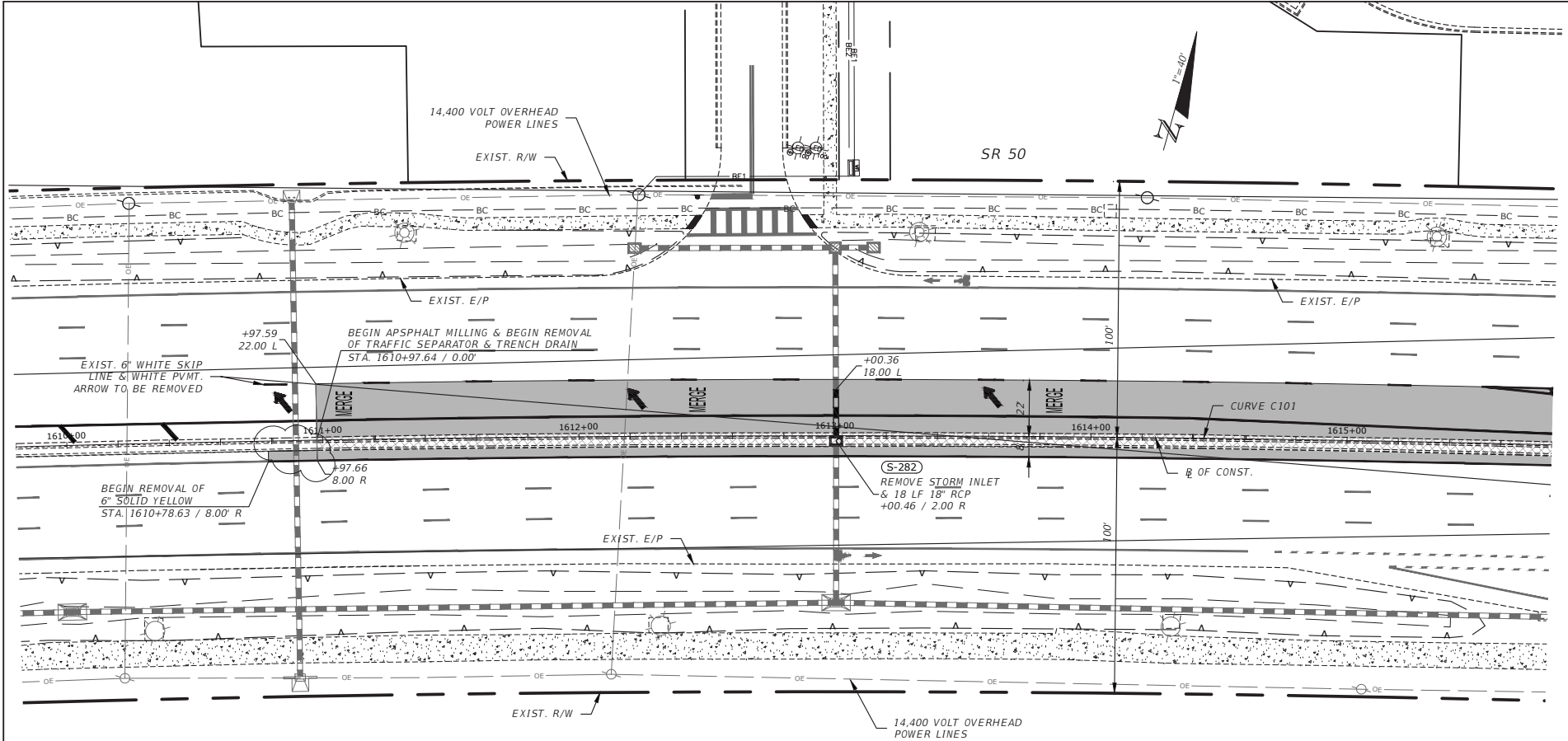
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SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN SR 50 (1)

SHEET NO.  
C-07

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LIMITS OF MILLING

LIMITS OF DEMOLITION

**DATA OF CONSTRUCTION**  
**CURVE DATA C101**  
 P.I. Sta. = 1615+43.83  
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 L = 5,768.01  
 R = 11,427.16  
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 PT STA. = 1643+65.00

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2. EXISTING PAVEMENT MARKING TO BE REMOVED PER FDOT STANDARD SPECIFICATION 710-70 OR 711-70.

R E V I S I O N S			
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2/14/20	FDOT COMMENTS	#	#
10/11/24	REVISED MILLING AREA	#	#

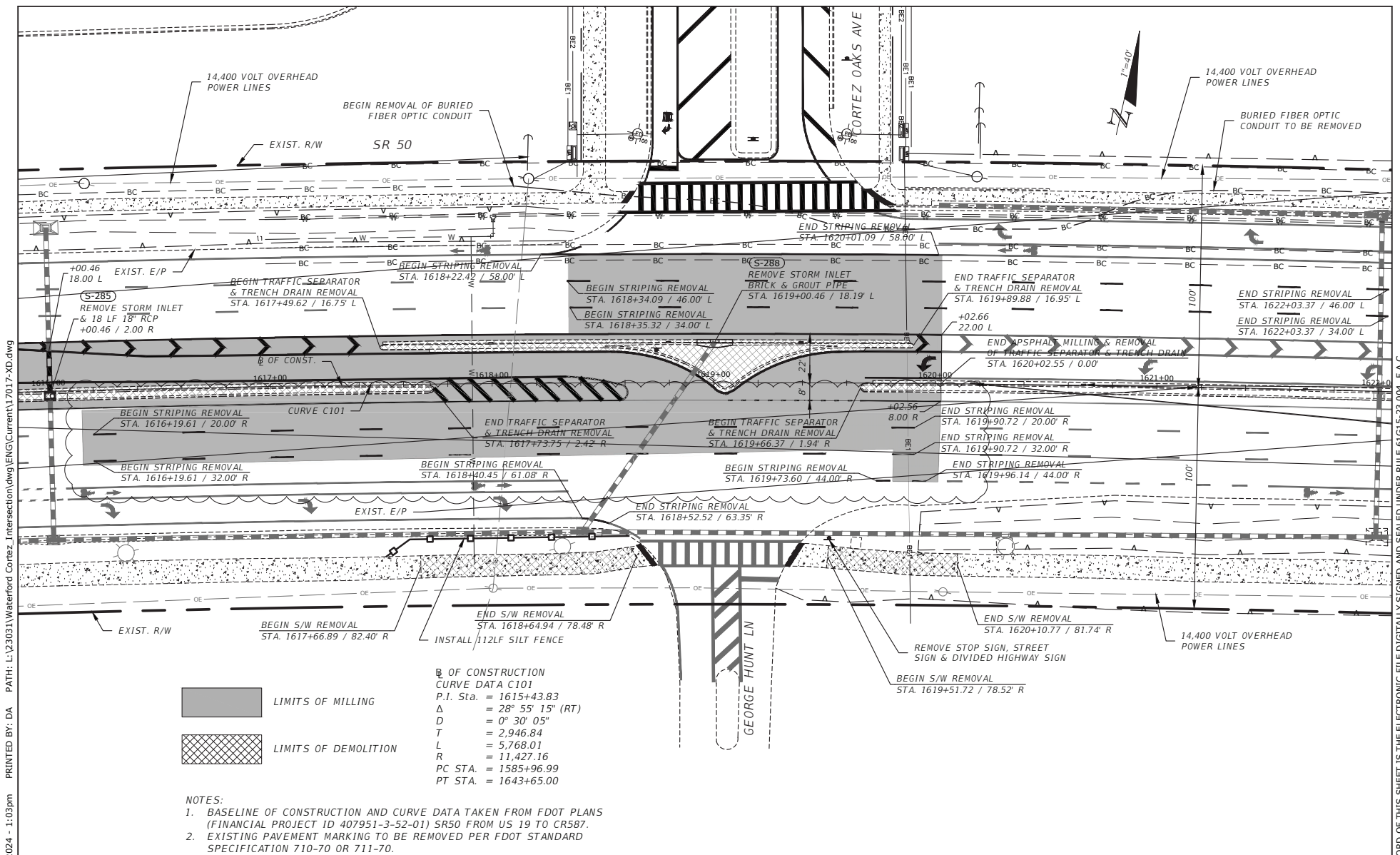


SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN SR 50 (2)

HEET  
NO.

C-08



R E V I S I O N S			
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2/14/20	FDOT COMMENTS	#	#
10/11/24	REVISED MILLING AREA	#	#

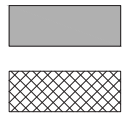
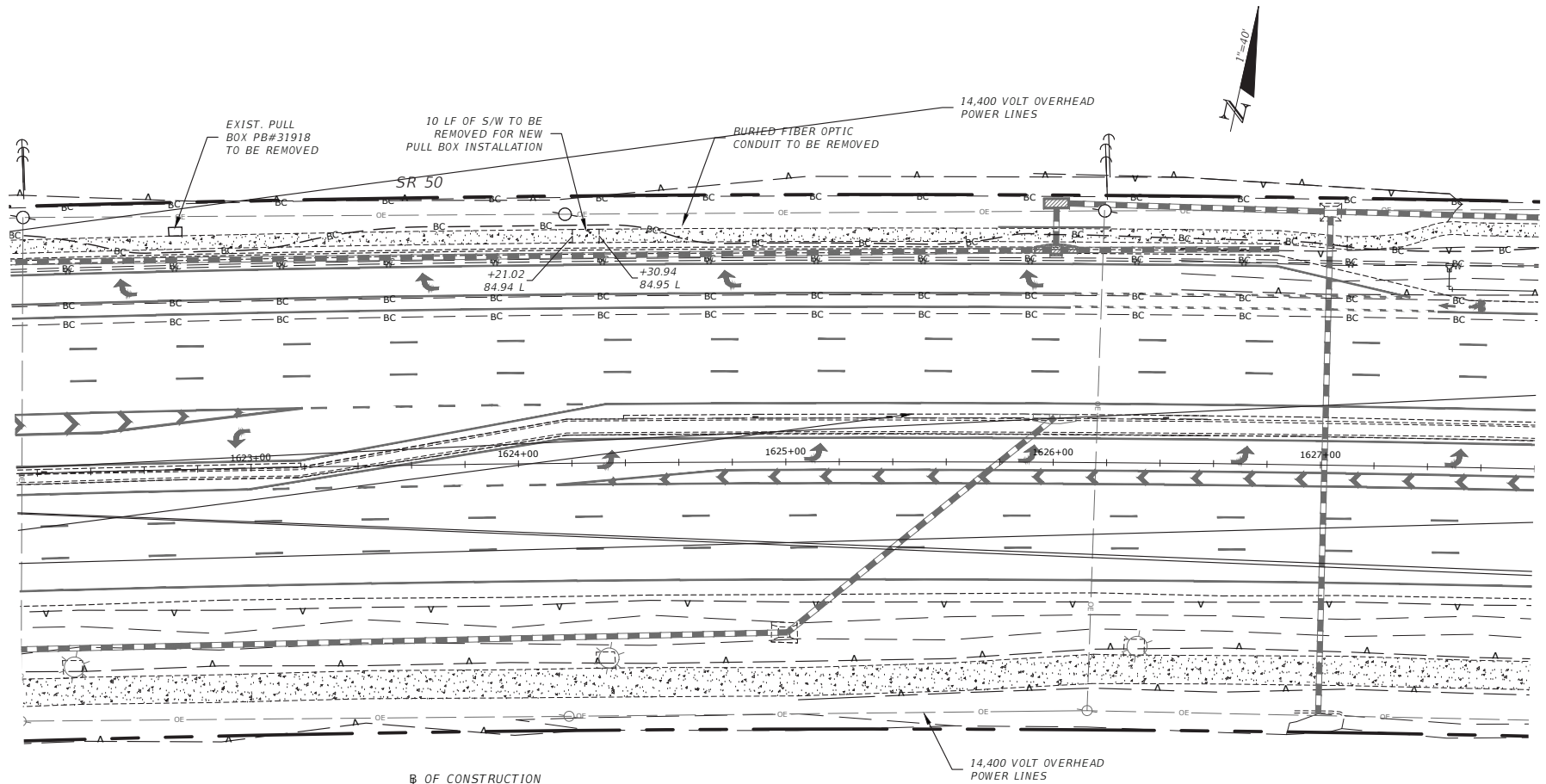


SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
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DEMOLITION PLAN SR 50 (3)

*SHEET*

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LIMITS OF MILLING

LIMITS OF DEMOLITION

BASELINE OF CONSTRUCTION  
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SCOTT D MCKEE, P.E. #65654

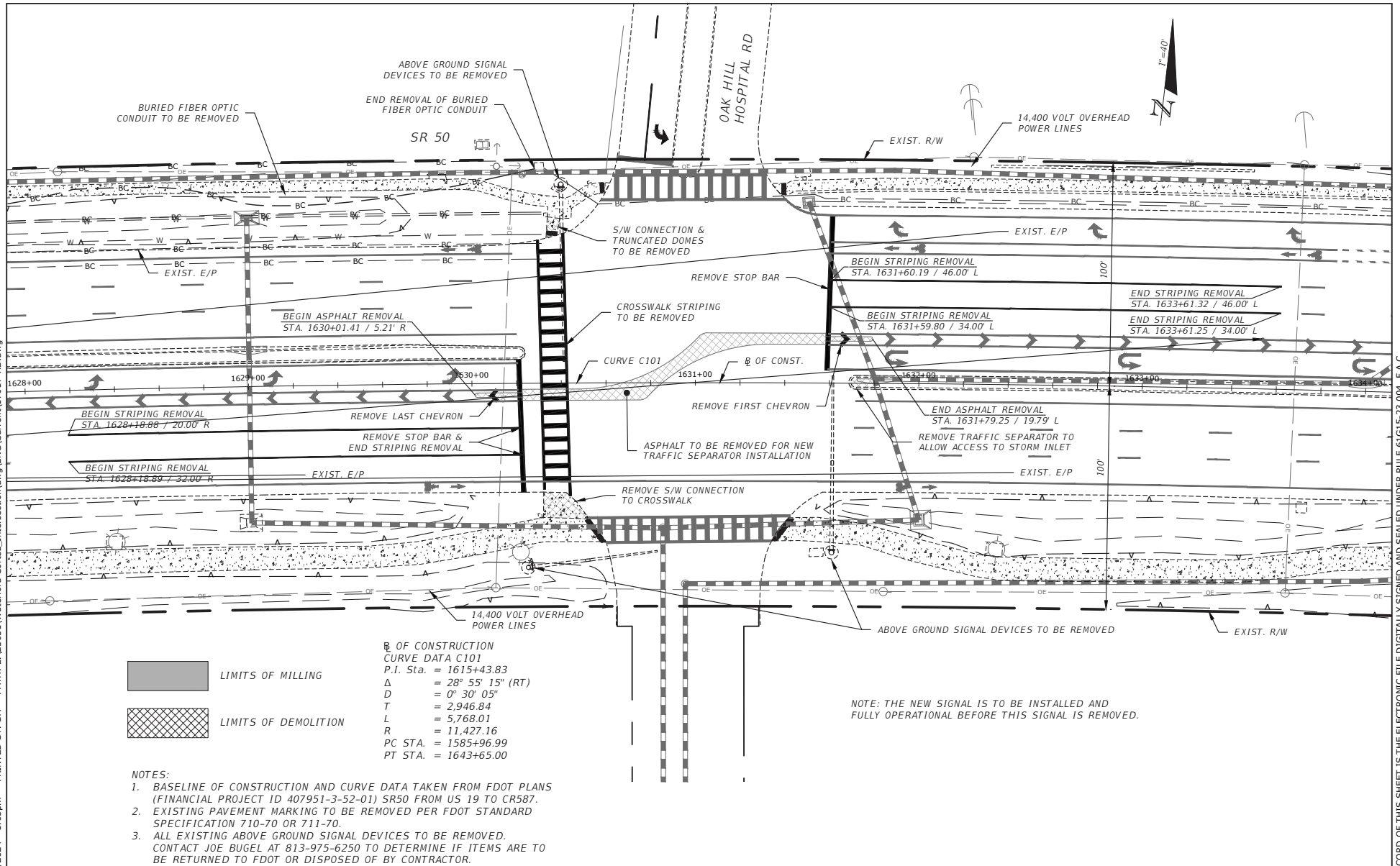
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN SR 50 (4)

SHEET  
NO.  
C-10



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Transportation  
Construction Management

966 Candlelight Boulevard - Brookville - Florida 34601  
(813) 786-6421 - Fax (813) 786-6359  
E8-000142

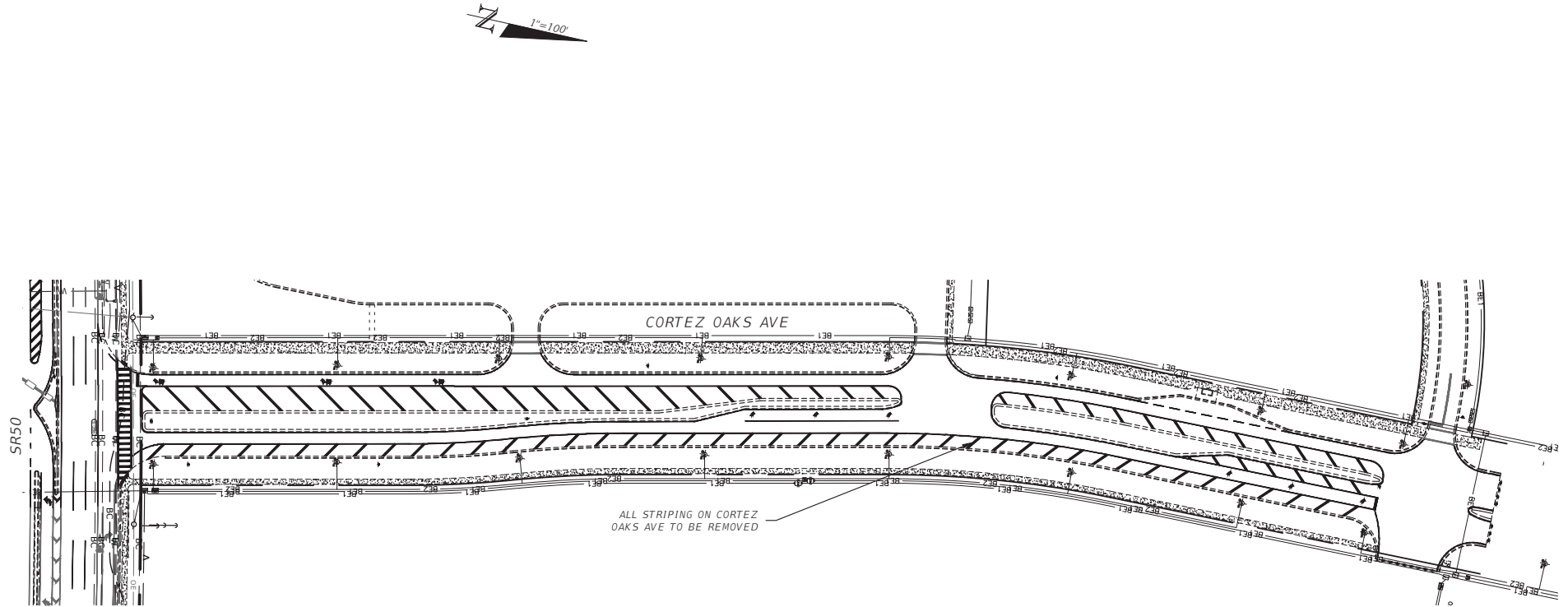
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN SR 50 (5)		SHEET NO.
		C-11

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NOTE:  
1. EXISTING PAVEMENT MARKING TO BE REMOVED PER  
FDOT STANDARD SPECIFICATION 710-70 OR 711-70.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal** Engineering  
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(813) 795-6423 - Fax (813) 795-6359  
E8-0000142

SCOTT D MCKEE, P.E. #65654

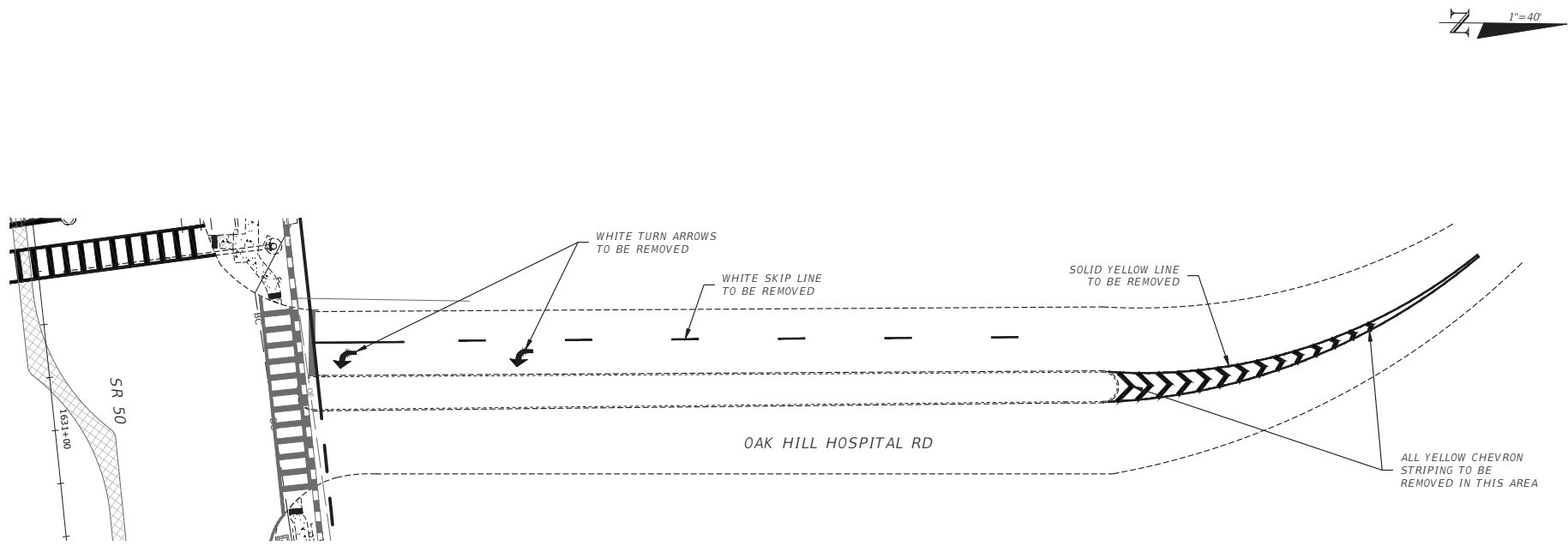
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN  
CORTEZ OAKS AVE

SHEET  
NO.  
C-12

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NOTE:  
1. EXISTING PAVEMENT MARKING TO BE REMOVED PER  
FDOT STANDARD SPECIFICATION 710-70 OR 711-70.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal**  
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Transportation  
Construction Management

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(813) 795-6423 - Fax (813) 795-6359  
E8-0000142

SCOTT D MCKEE, P.E. #65654

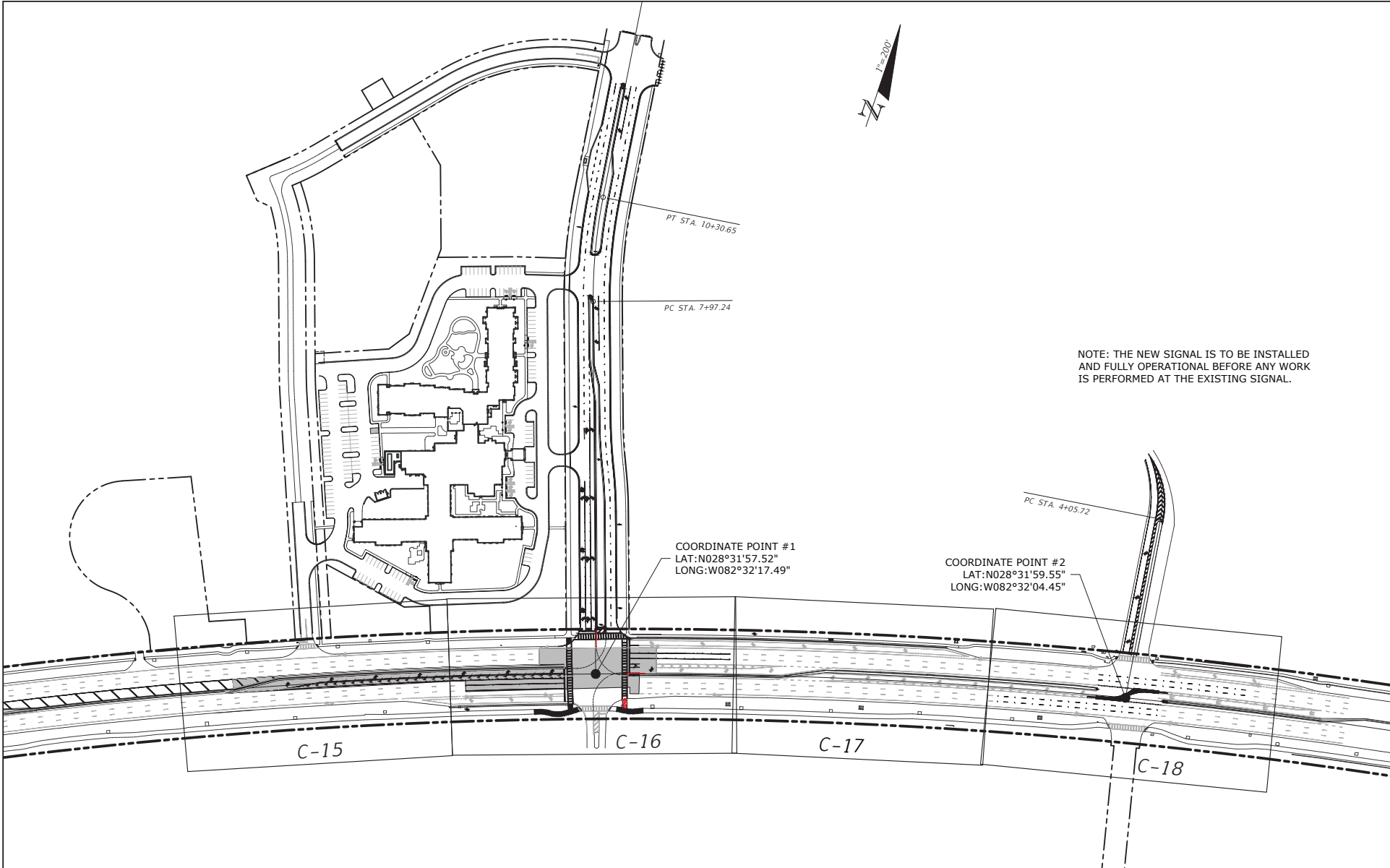
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

DEMOLITION PLAN  
HOSPITAL ENTRANCE

SHEET  
NO.  
C-13

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Environmental  
Transportation  
Construction Management

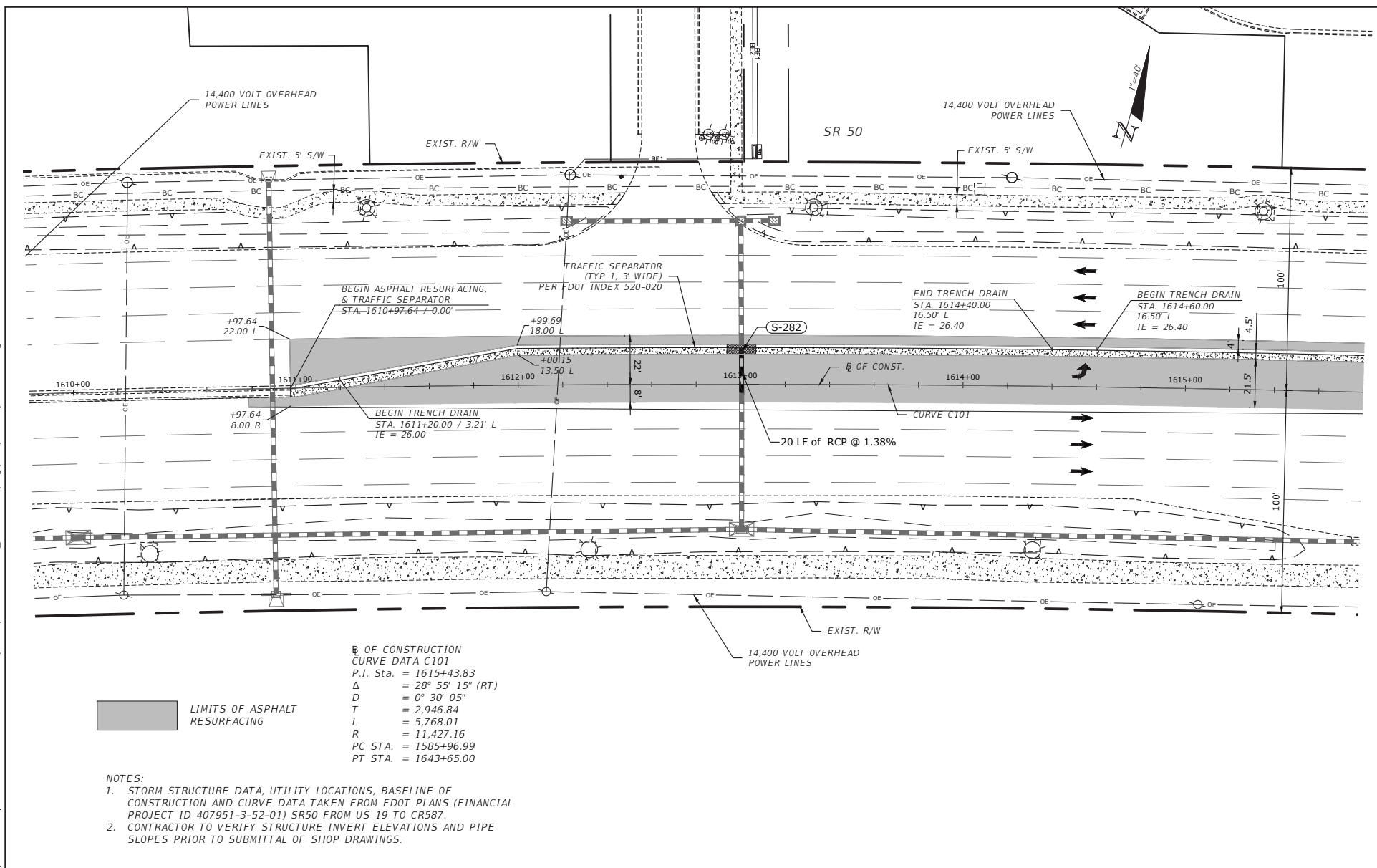
966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 795-6421 - Fax (813) 795-6359  
E8-000142  
P.E. #.

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
	HERNANDO COUNTY	17017

17017-SP-KEY - C-14 PLAN SHEET KEY

SHEET NO.
----

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R E V I S I O N S			
DATE	DESCRIPTION	DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS		
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED		
2/14/20	FDOT COMMENTS	#	#
-----	-----	#	#

**Coastal**  
engineering associates, inc.

Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management

966 Candlelight Boulevard - Brooksville - Florida 34601  
(352) 796-9423 - Fax (352) 799-8359  
EB-0000142

**SCOTT D MCKEE, P.E. #65654**

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

PLAN SHEET SR 50 (1)

SHEET  
NO.

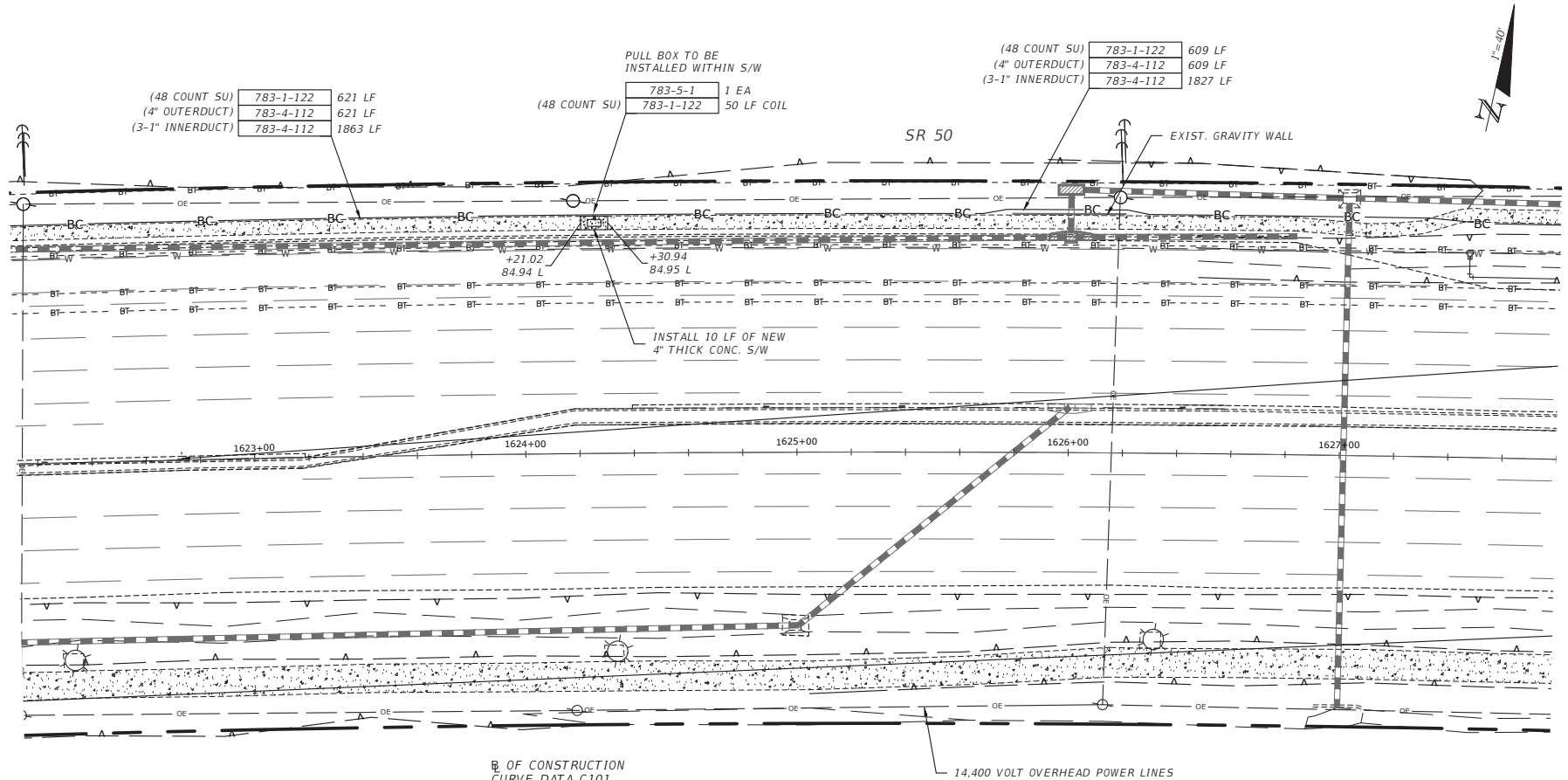
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C-15





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8 OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
 $\Delta$  = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

NOTES:

1. STORM STRUCTURE DATA, UTILITY LOCATIONS, BASELINE OF CONSTRUCTION AND CURVE DATA TAKEN FROM FDOT PLANS (FINANCIAL PROJECT ID 407951-3-52-01) SR50 FROM US 19 TO CR587.
2. CONTRACTOR TO VERIFY STRUCTURE INVERT ELEVATIONS AND PIPE SLOPES PRIOR TO SUBMITTAL OF SHOP DRAWINGS.

LIMITS OF ASPHALT  
RESURFACING

**Coastal**  
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Surveying  
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Transportation  
Construction Management  
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(813) 786-6421 - Fax (813) 786-0359  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE  
INTERSECTION IMPROVEMENTS

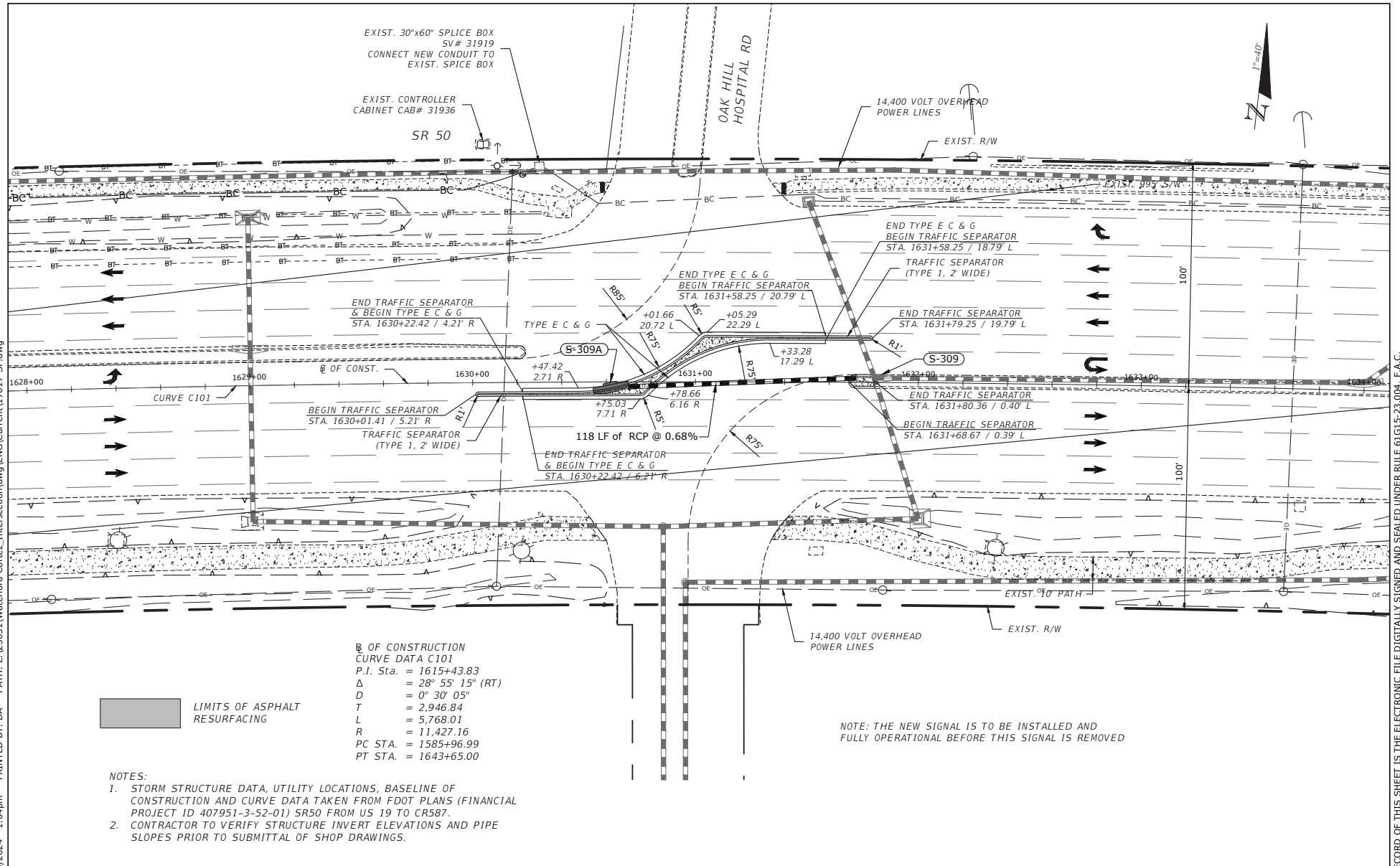
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

PLAN SHEET SR 50 (3)

SHEET  
NO.  
C-17



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LIMITS OF ASPHALT RESURFACING

OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
Δ = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

NOTES:

1. STORM STRUCTURE DATA, UTILITY LOCATIONS, BASELINE OF CONSTRUCTION AND CURVE DATA TAKEN FROM FDOT PLANS (FINANCIAL PROJECT ID 407951-3-52-01) SR50 FROM US 19 TO CR587.
2. CONTRACTOR TO VERIFY STRUCTURE INVERT ELEVATIONS AND PIPE SLOPES PRIOR TO SUBMITTAL OF SHOP DRAWINGS.

NOTE: THE NEW SIGNAL IS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE THIS SIGNAL IS REMOVED

**Coastal**  
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Construction Management  
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E8-0000142  
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE  
INTERSECTION IMPROVEMENTS

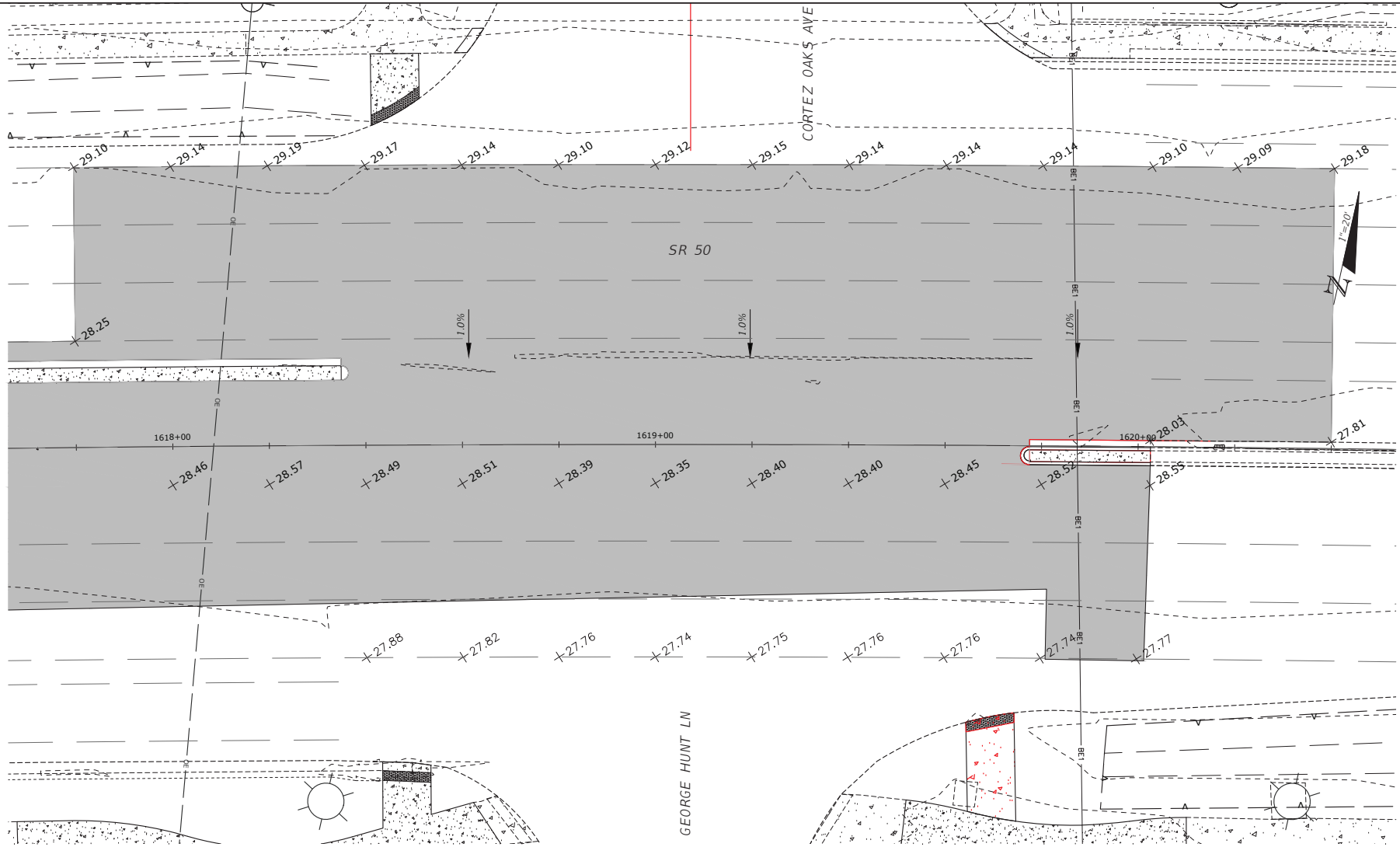
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

PLAN SHEET SR 50 (4)

SHEET NO.  
C-18

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REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal** Engineering  
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Environmental  
Transportation  
Construction Management

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(813) 795-6421 - Fax (813) 795-6359  
E8-0000142

SCOTT D MCKEE, P.E. #65654

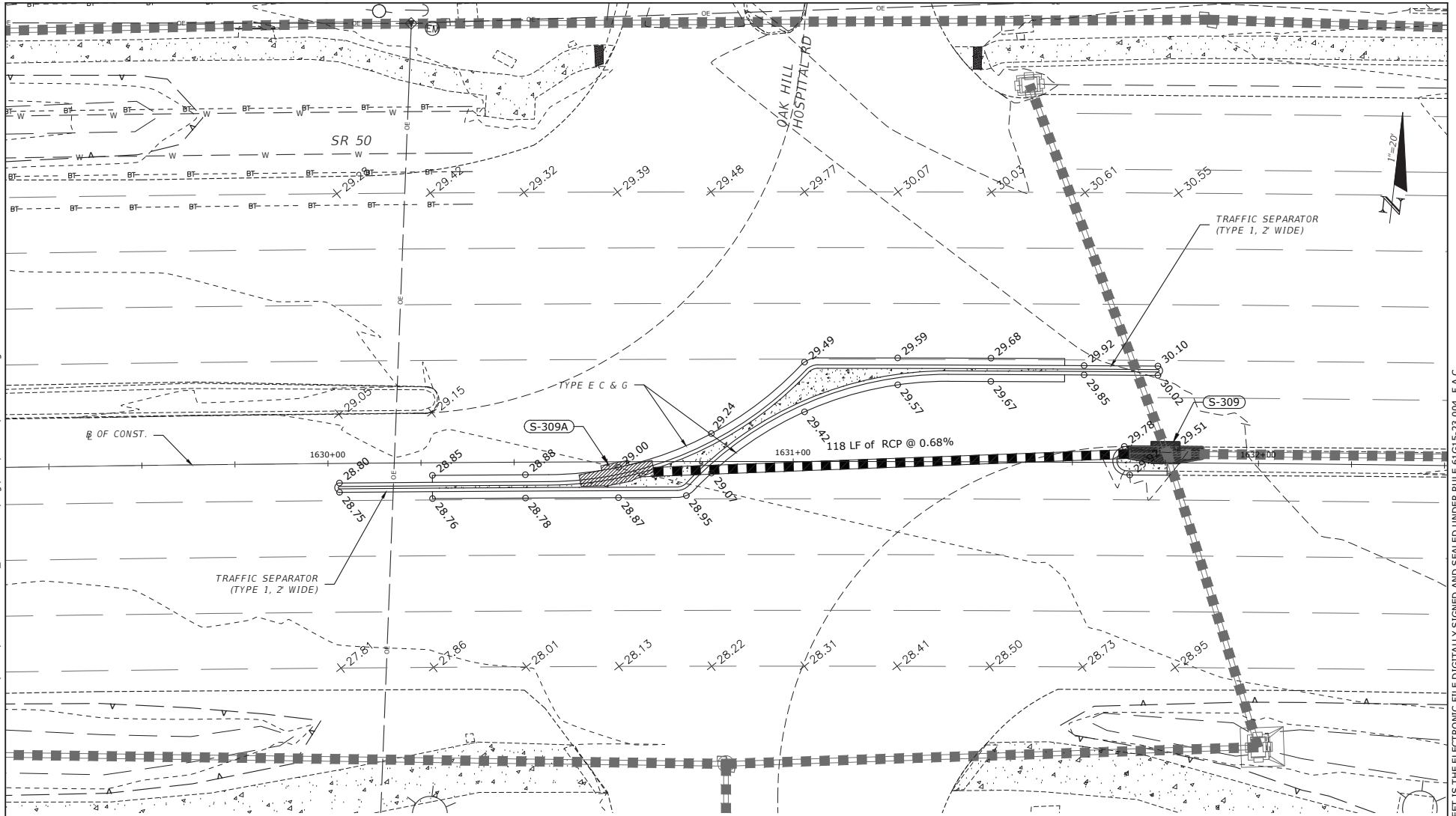
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

INTERSECTION GRADING DETAIL SR 50 & CORTEZ OAKS AVE	

SHEET NO.
C-19

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NOTE: THE NEW SIGNAL IS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE THIS INTERSECTION IS REVISED.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal** Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management

966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 786-6423 - Fax (813) 786-6359  
E8-000142

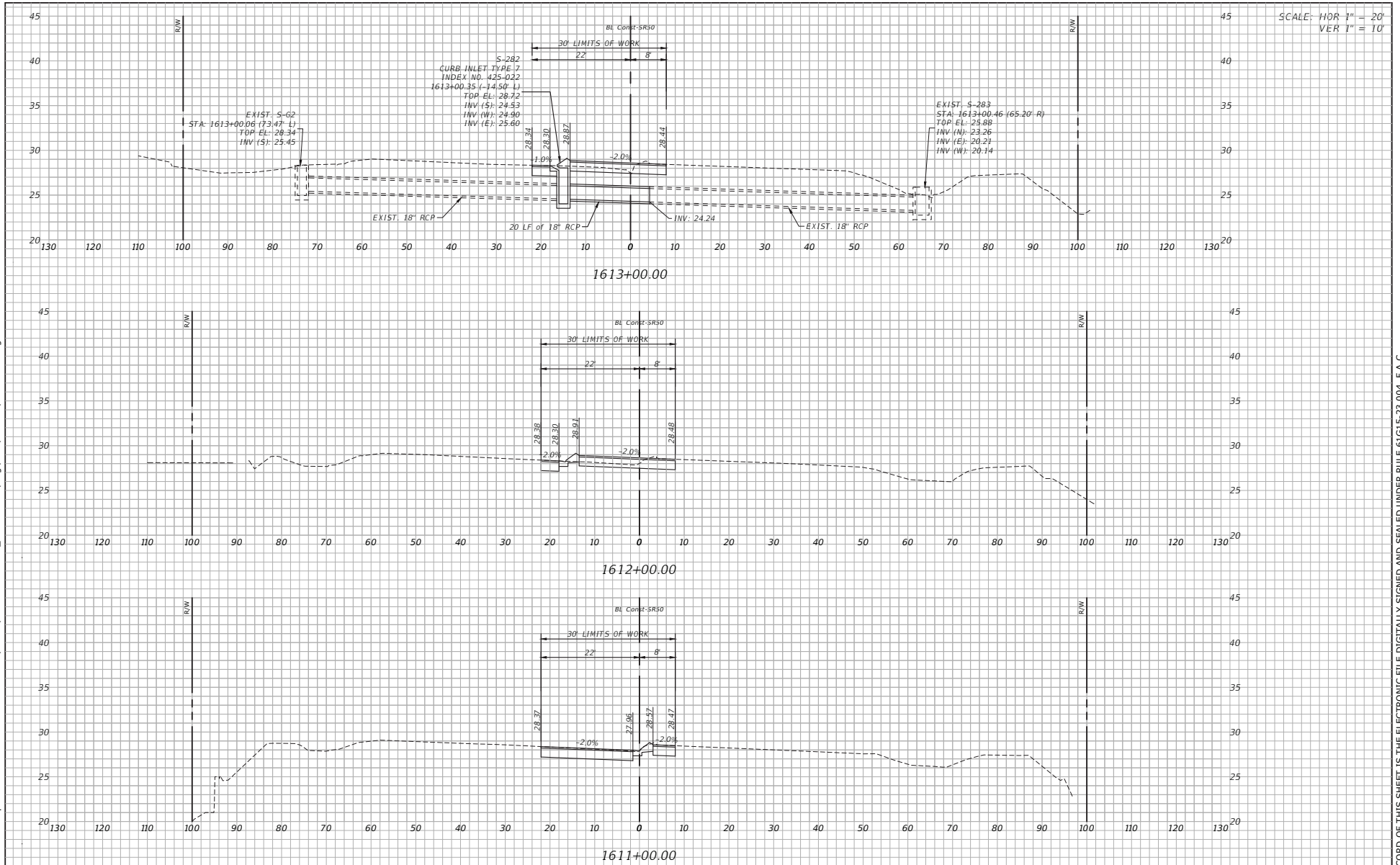
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

INTERSECTION GRADING DETAIL SR 50 & OAK HILL HOSPITAL RD	
SHEET NO. C-20	

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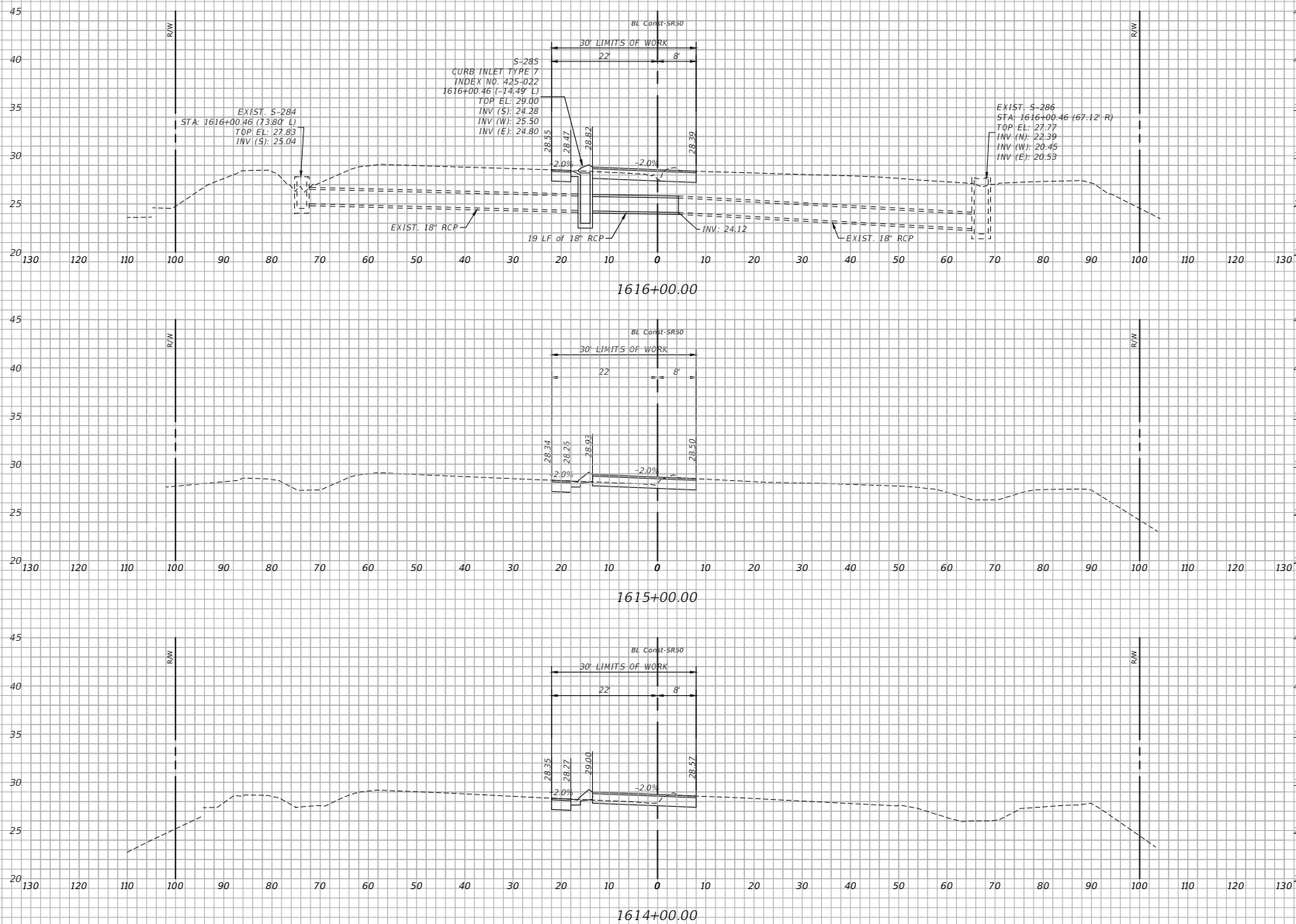
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

<b>Coastal</b> Engineering Planning Surveying Environmental Transportation Construction Management		<b>SR50 &amp; CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS</b>	
966 Candlelight Boulevard - Brooksville - Florida 34601 (813) 795-6421	966 Candlelight Boulevard - Brooksville - Florida 34601 (813) 795-6421	ROAD NO.	COUNTY
EB-000142	EB-000142	HERNANDO	COUNTY
P.E. #.	P.E. #.	COASTAL PROJECT NO.	17017

<b>CROSS SECTIONS (1)</b>		SHEET NO.
		C-20

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SCALE: HOR 1" = 20'  
VER 1" = 10'

REVISIONS	
DATE	DESCRIPTION



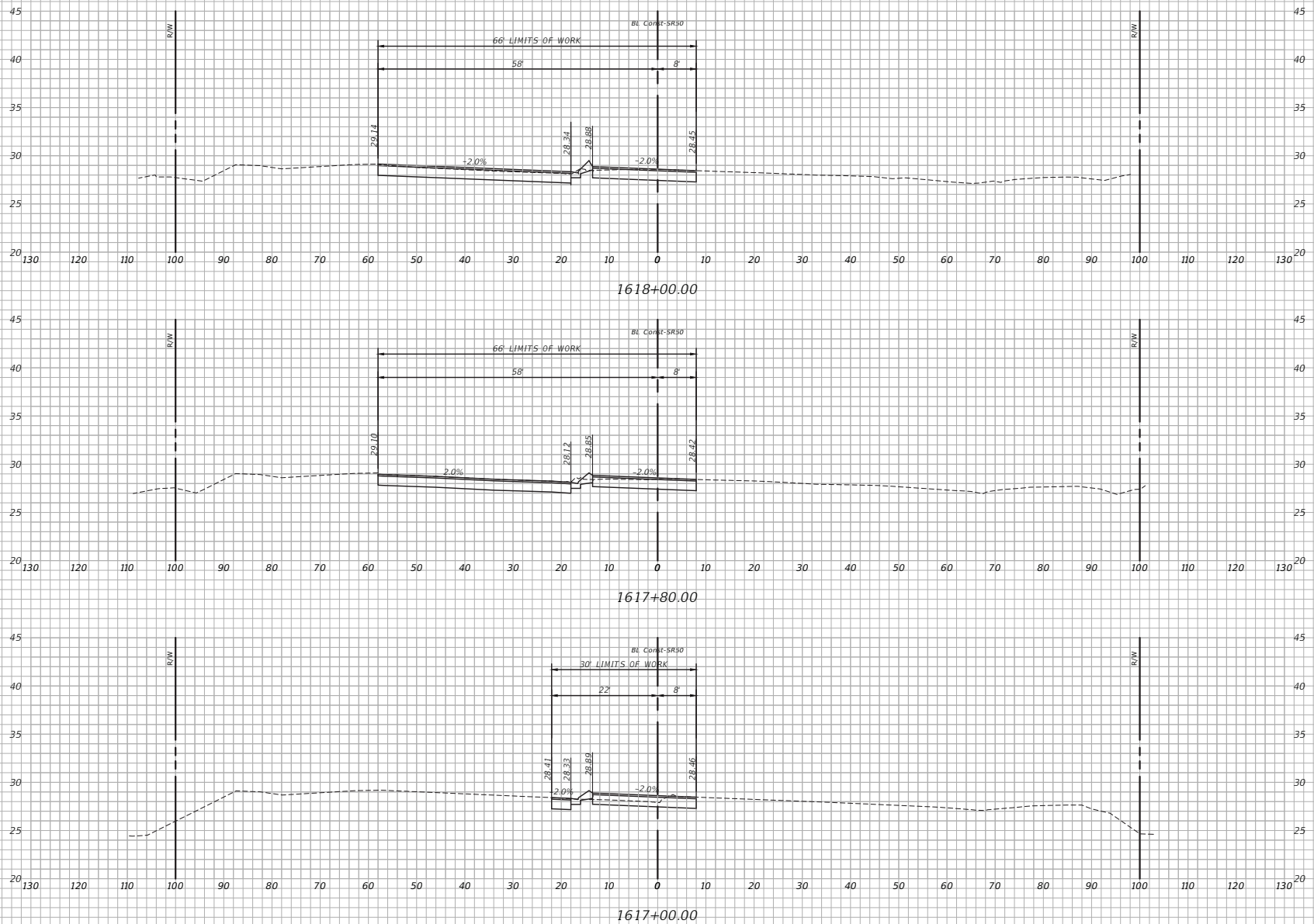
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
	HERNANDO COUNTY	17017

CROSS SECTIONS (2)

SHEET  
NO.  
C-22

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REVISIONS	
DATE	DESCRIPTION

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Environmental  
Transportation  
Construction Management

966 Candlelight Boulevard - Brookville - Florida 34601  
(813) 795-6421 - Fax (813) 795-6359  
E8-000142  
P.E. #.

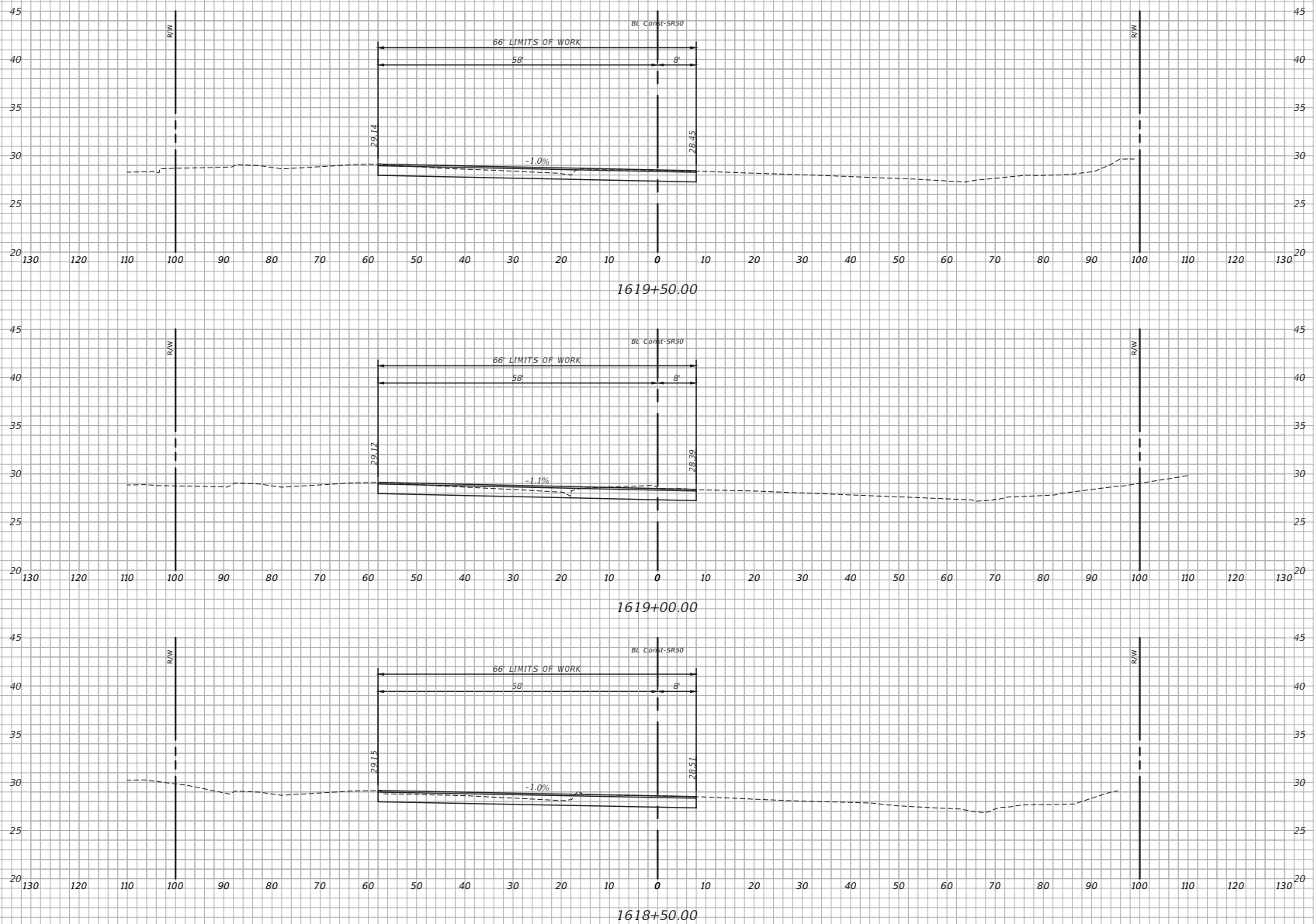
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
	HERNANDO COUNTY	17017

CROSS SECTIONS (3)

SHEET NO.
C-23

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REVISIONS	
DATE	DESCRIPTION



SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
	HERNANDO COUNTY	17017

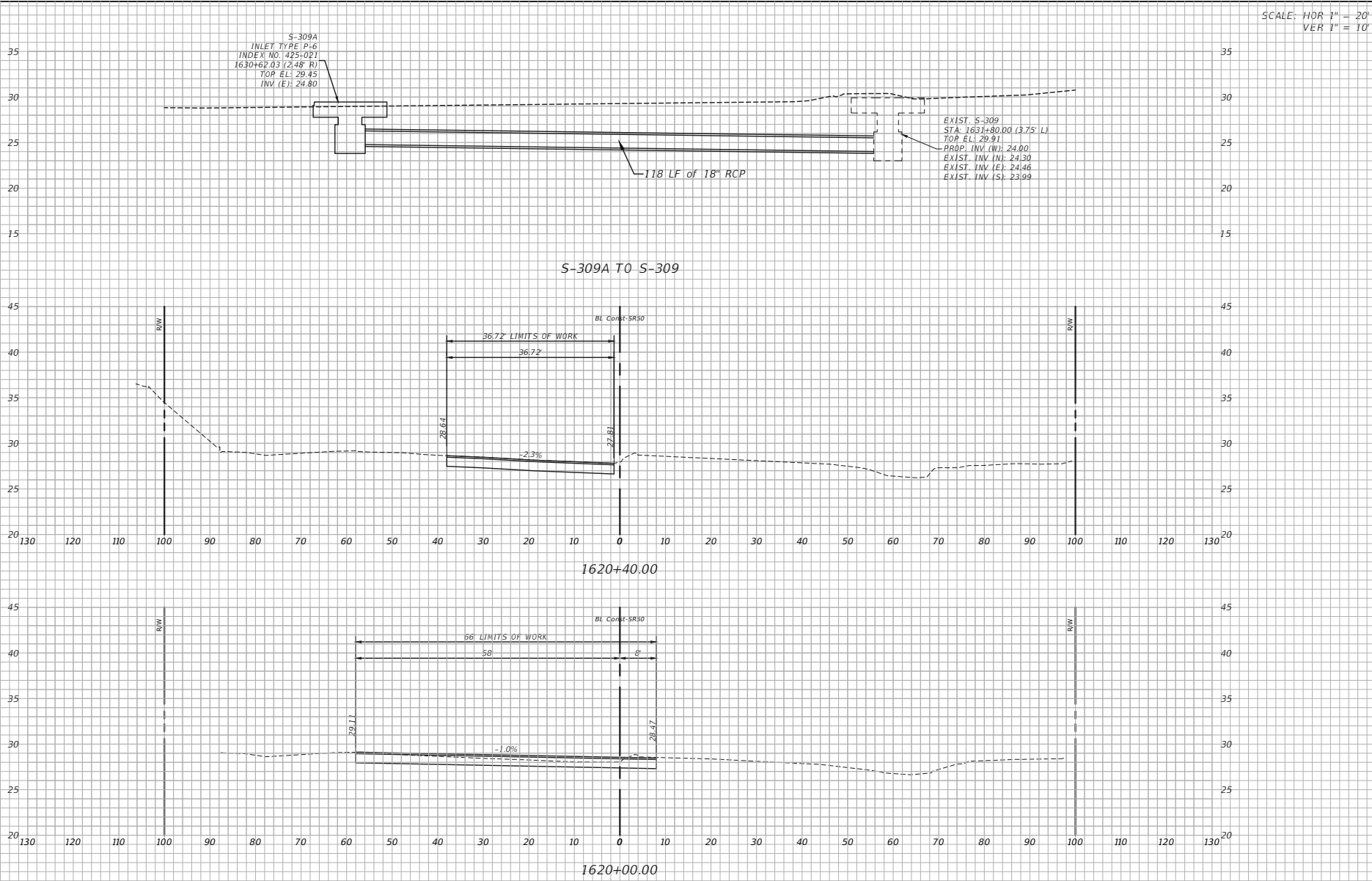
CROSS SECTIONS (4)

SHEET  
NO.  
C-24

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SCALE: HOR 1" = 20'  
VER 1" = 10'

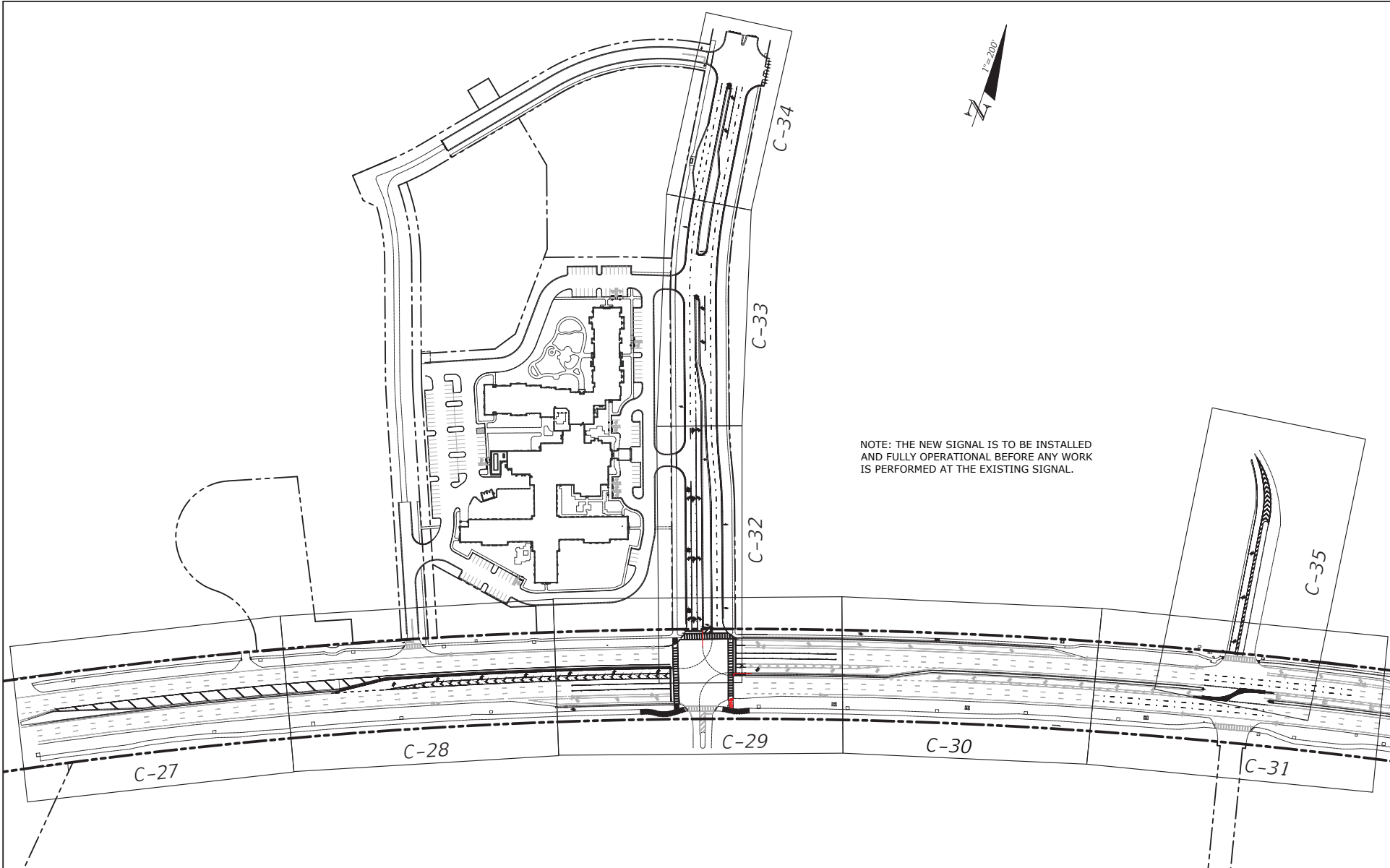
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

<b>Coastal</b> Engineering Planning Surveying Environmental Transportation Construction Management 966 Candlelight Boulevard - Brookville - Florida 34601 (813) 795-6421 - Fax (813) 795-6359 E8-000142 P.E. #.		<b>SR50 &amp; CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS</b>	
ROAD NO.	COUNTY	COASTAL PROJECT NO.	
	HERNANDO COUNTY	17017	

<b>17017-XS - C-25 CROSS SECTIONS</b> (5)		SHEET NO. ----
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REVISIONS	
DATE	DESCRIPTION

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Environmental  
Transportation  
Construction Management

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(813) 795-6421 - Fax (813) 795-6359  
EB-000142  
P.E. #.

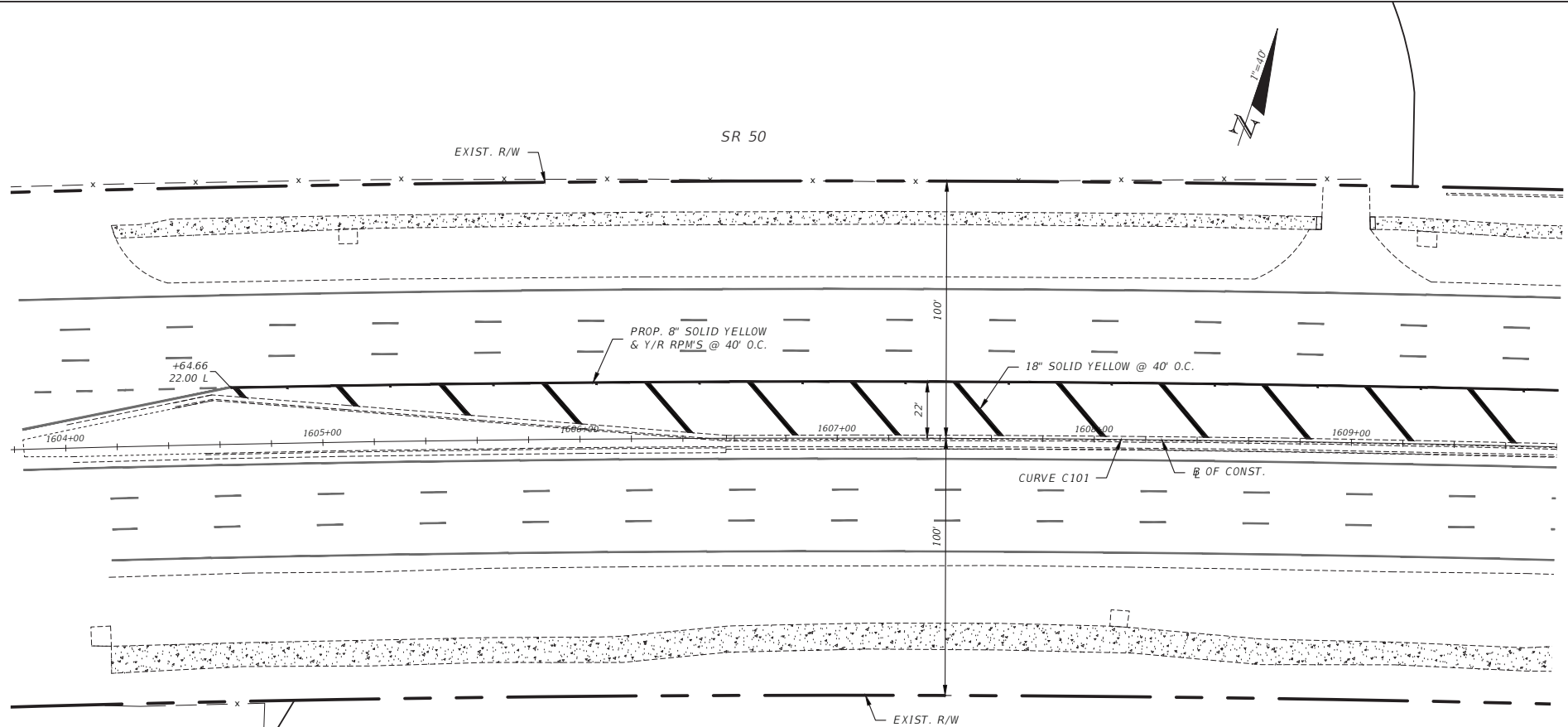
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
	HERNANDO COUNTY	17017

17017-TS-KEY - C-26 SIGNING &  
MARKING PLAN KEY

SHEET  
NO.  
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BASELINE OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
 $\Delta$  = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

NOTES:  
1. BASELINE OF CONSTRUCTION AND CURVE DATA  
TAKEN FROM FDOT PLANS (FINANCIAL PROJECT  
ID 407951-3-52-01) SR50 FROM US 19 TO CR587.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS
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**Coastal** Engineering  
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Environmental  
Transportation  
Construction Management  
966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 795-6423 - Fax (813) 795-6359  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

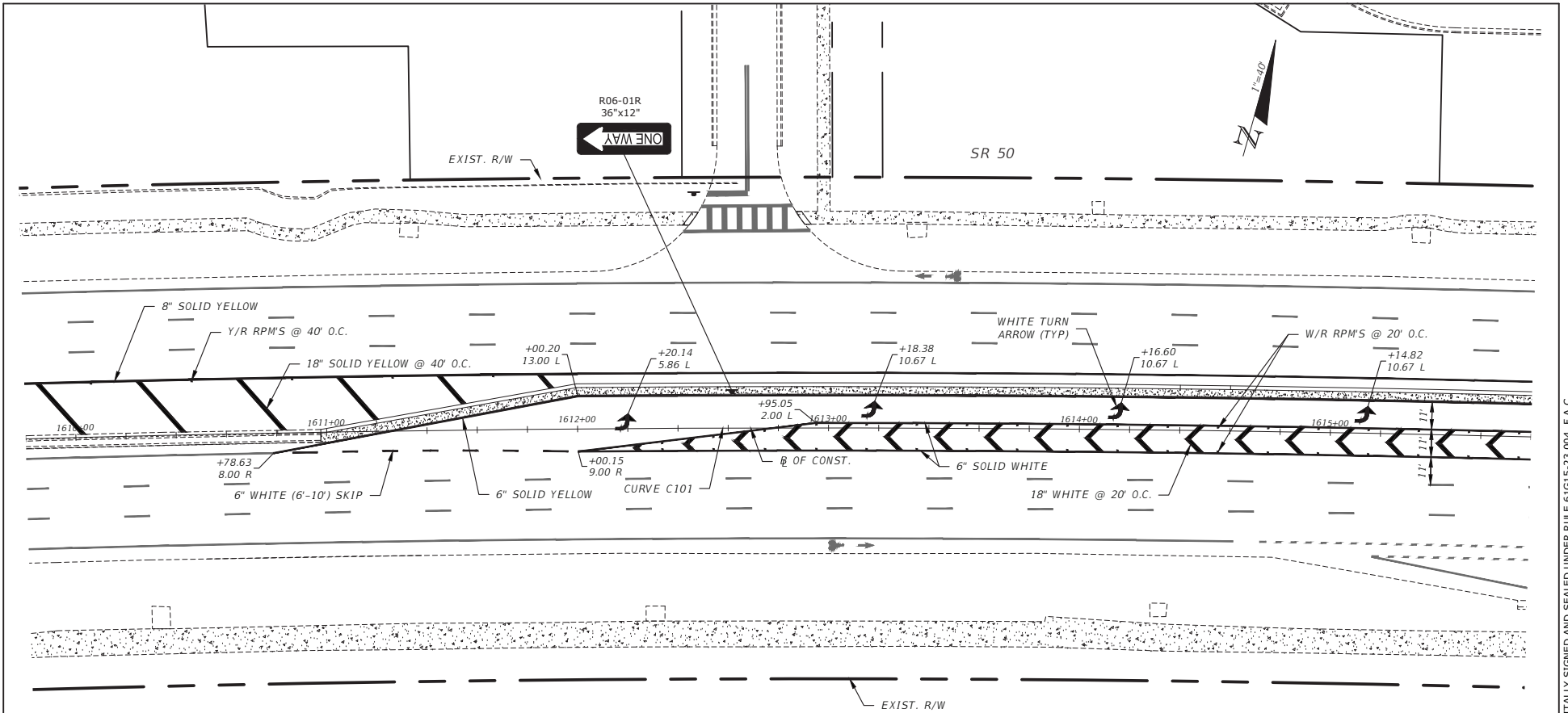
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

SIGNING & MARKING PLAN  
SR 50 (1)

SHEET  
NO.  
C-27

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BASELINE OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
 $\Delta$  = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

NOTES:  
1. BASELINE OF CONSTRUCTION AND CURVE DATA  
TAKEN FROM FDOT PLANS (FINANCIAL PROJECT  
ID 407951-3-52-01) SR50 FROM US 19 TO CR587.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS		
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED		
2/14/20	FDOT COMMENTS		
----	----	#	#
----	----	#	#

**Coastal** Engineering  
Planning  
Surveying  
Environmental  
Construction Management  
906 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 796-6423 - Fax (813) 796-6359  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE  
INTERSECTION IMPROVEMENTS

ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

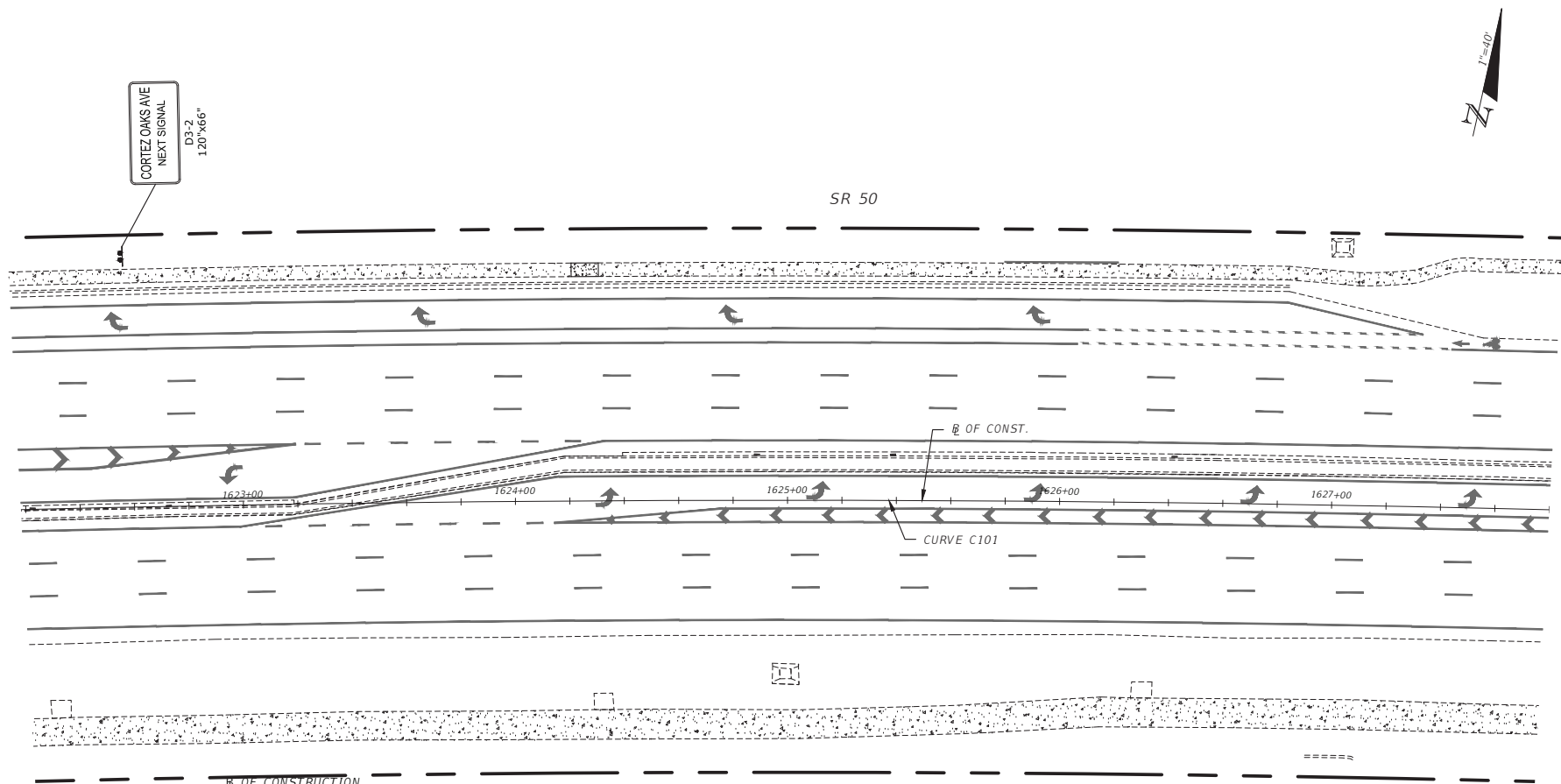
SIGNING & MARKING PLAN  
SR 50 (2)

SHEET  
NO.  
C-28

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Q OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
 $\Delta$  = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

NOTES:  
1. BASELINE OF CONSTRUCTION AND CURVE DATA  
TAKEN FROM FDOT PLANS (FINANCIAL PROJECT  
ID 407951-3-52-01) SR50 FROM US 19 TO CR587.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS
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Transportation  
Engineering Services, Inc.  
966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 795-6421 - Fax (813) 795-6359  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

SR50 & CORTZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

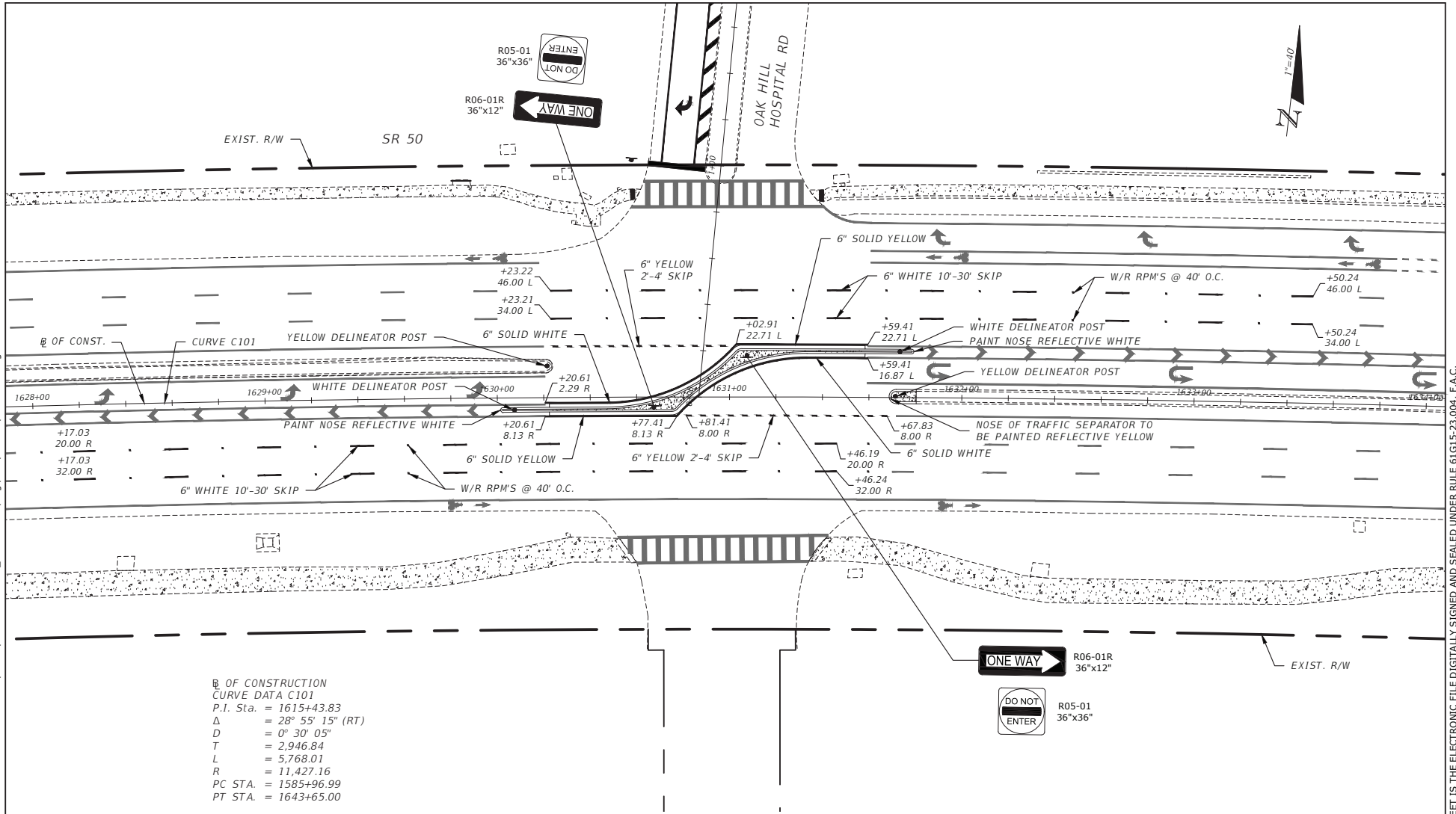
SIGNING & MARKING PLAN  
SR 50 (4)

SHEET  
NO.  
C-30

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BASELINE OF CONSTRUCTION  
CURVE DATA C101  
P.I. Sta. = 1615+43.83  
Δ = 28° 55' 15" (RT)  
D = 0° 30' 05"  
T = 2,946.84  
L = 5,768.01  
R = 11,427.16  
PC STA. = 1585+96.99  
PT STA. = 1643+65.00

NOTES:  
1. BASELINE OF CONSTRUCTION AND CURVE DATA  
TAKEN FROM FDOT PLANS (FINANCIAL PROJECT  
ID 407951-3-52-01) SR50 FROM US 19 TO CR587.

NOTE: THE NEW SIGNAL IS TO BE  
INSTALLED AND FULLY OPERATIONAL  
BEFORE THIS SIGNAL IS REMOVED.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal** Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management  
966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 786-6421 - Fax (813) 786-6309  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

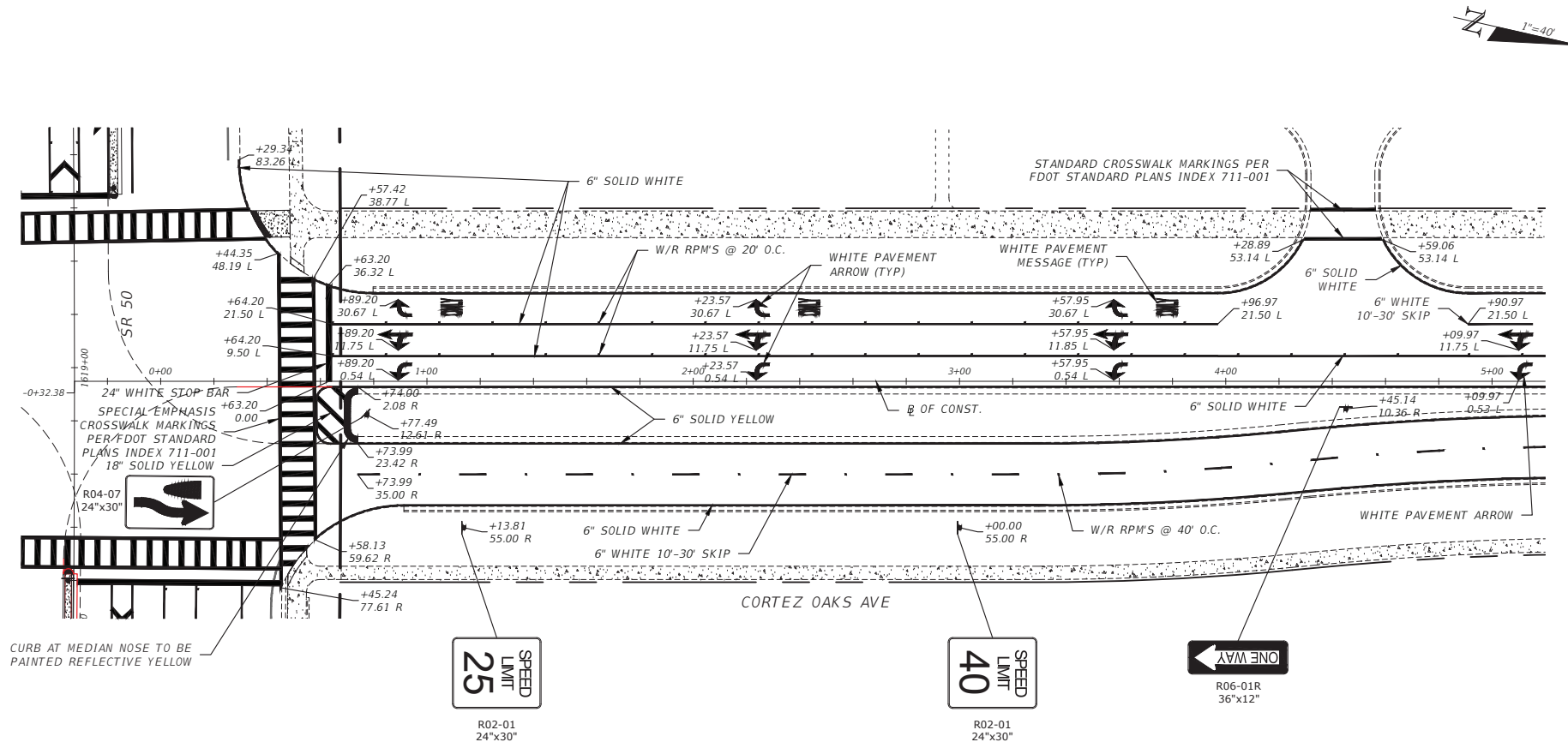
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

SIGNING & MARKING PLAN  
SR 50 (S)

SHEET  
NO.  
C-31

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REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal**  
Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Infrastructure Management

966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 786-6423 - Fax (813) 786-6359  
E8-000142

SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

SIGNING & MARKING PLAN CORTEZ OAKS AVE (1)	
SHEET NO.	C-32

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**Coastal**  
engineering associates, inc.

966 Candlelight Boulevard - Brooksville - Florida 34601  
(352) 796-6423 - Fax (352) 798-0359  
EB-0000142

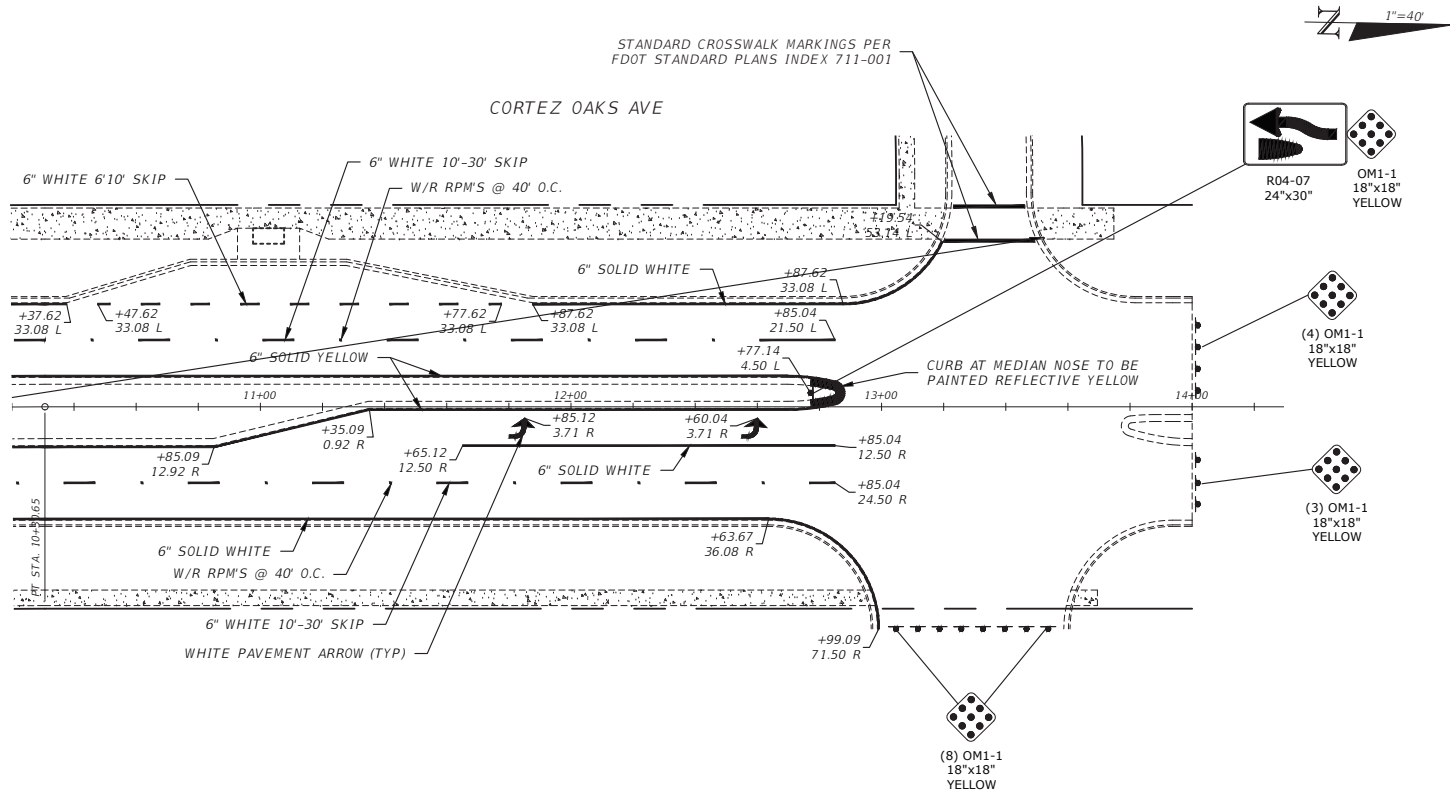
Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management

**SCOTT D MCKEE, P.E. #65654**

*SIGNING & MARKING PLAN*  
*CORTEZ OAKS AVE (2)*

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REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal** Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Infrastructure Management

966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 795-6423 - Fax (813) 795-6359  
E8-000142

SCOTT D MCKEE, P.E. #65654

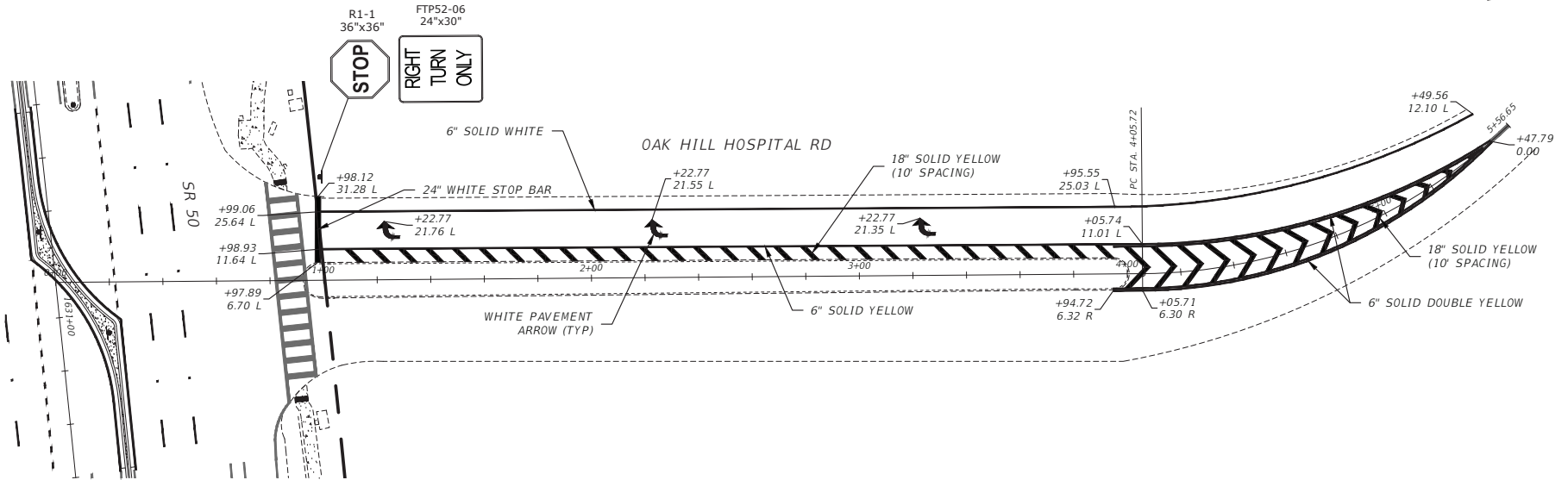
SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

SIGNING & MARKING PLAN  
CORTEZ OAKS AVE (3)

SHEET NO.
C-34

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NOTES:

1. THE NEW SIGNAL IS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE THIS INTERSECTION IS REVISED.
2. FOR STRIPING REFER TO FDOT INDEX 711-001 SHEET 9 OF 13, MARKINGS FOR TRAFFIC SEPARATIONS.

REVISIONS	
DATE	DESCRIPTION
7/31/19	REVISED OER FDOT COMMENTS
10/8/19	SHEETS T-2 THRU T-9 ADDED OR REVISED
2/14/20	FDOT COMMENTS

**Coastal**  
Engineering  
Planning  
Surveying  
Environmental  
Transportation  
Construction Management  
966 Candlelight Boulevard - Brooksville - Florida 34601  
(813) 795-6423 - Fax (813) 795-6359  
E8-0000142  
SCOTT D MCKEE, P.E. #65654

SR50 & CORTEZ OAKS AVE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
SR 50	HERNANDO COUNTY	17017

SIGNING & MARKING PLAN  
HOSPITAL ENTRANCE

SHEET  
NO.  
C-35

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# CONTRACT PLANS FOR SIGNALIZATION PLAN S.R. 50 / CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS

## COMPONENTS OF CONTRACT PLAN SET SIGNALIZATION PLANS

### INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	GENERAL NOTES
T-3	TABULATION OF QUANTITIES
T-4	INTERIM SIGNALIZATION PLAN
T-5	FINAL SIGNALIZATION PLAN
T-6-T-7	GUIDE SIGN WORKSHEETS
T-8	STRAIN POLE SCHEDULE
T-9	TABLE OF VARIABLES
T-10	STRAIN POLE DETAILS
T-11	REPORT OF CORE BORINGS

## SIGNALIZATION PLANS

PLANS PREPARED BY



7026 LITTLE RD. NEW PORT RICHEY, FL. 34654  
T: (727) 849-8010 F: (727) 849-8020  
CERTIFICATE OF AUTHORIZATION NO. 00009572

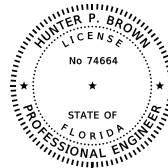
GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, 2018 Standard Specifications  
for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY 2020-21 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: <http://www.fdot.gov/design/standardplans>

Standard Plans for Bridge Construction are included in the Structures Plans  
Component

THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY:



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

ATTENTION IS DIRECTED TO THE FACT THAT  
THESE PLANS MAY HAVE BEEN ALTERED IN  
SIZE BY REPRODUCTION. THIS MUST BE  
CONSIDERED WHEN OBTAINING SCALED DATA.

ROADWAY PLANS  
ENGINEER OF RECORD: HUNTER P. BROWN, P.E.

P.E. NO.: 74664

FISCAL YEAR	SHEET NO.
2018	T-1



GENERAL NOTES:

1. THE SIGNAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST VERSIONS OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS", FDOT "MINIMUM SPECIFICATIONS FOR ROADWAY AND TRAFFIC CONTROL SIGNALS AND DEVICES", AND "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" EXCEPT AS SPECIFIED HEREIN.
2. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO DIGGING, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY THE "SUNSHINE STATE ONE CALL" NOTIFICATION CENTER NOT LESS THAN 48 HOURS, NOR MORE THAN FIVE DAYS IN ADVANCE OF ANY OF THE CONTRACTOR'S WORK ACTIVITY WHICH MAY IMPACT ANY UTILITY FACILITY. CALL "SUNSHINE STATE ONE CALL" AT (800) 432-4770. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY FOR HAVING UNDERGROUND CABLE AND UTILITIES LOCATED AND IDENTIFIED BY PROPER AUTHORITIES AT CONSTRUCTION SITES.
3. ONE WEEK PRIOR TO THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL CONTACT:
- A) HERNANDO COUNTY PUBLIC WORKS DEPARTMENT  
1525 E. JEFFERSON STREET  
BROOKSVILLE, FLORIDA 34601  
PHONE: (352) 754-4060
4. PRIOR TO ALL TRAFFIC SIGNAL CHANGES (I.E., MAINTENANCE OF TRAFFIC CHANGES, NEW SIGNAL INSTALLATIONS, DIFFERENT PAVEMENT CONFIGURATIONS, ETC.), CONTACT HERNANDO COUNTY PUBLIC WORKS (352) 754-4060 FOR IMPLEMENTATION OF APPROPRIATE SIGNAL TIMINGS.
5. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS, AND/OR SIGNAL POLES.
6. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO 48 HOUR TEST. UPON 48 HOUR TEST, THE ENGINEER SHALL PROVIDE AT LEAST ONE COPY OF THE FINAL AS-BUILT PLANS TO HERNANDO COUNTY.
7. THE SIGNAL SHALL FLASH FOR A MINIMUM OF 48 HOURS BEFORE PLACING INTO FULL OPERATION. FLASHING OPERATION SHALL START ON A MONDAY, TUESDAY OR WEDNESDAY. HOWEVER, THE FLASHING OPERATION SHALL NOT START ON THE DAY PRECEDING A HOLIDAY.
8. THE SIGNAL SHALL BE PLACED IN FULL OPERATION ON A MONDAY, TUESDAY OR WEDNESDAY, BUT SHALL NOT BE PLACED IN FULL OPERATION ON THE DAY PRECEDING A HOLIDAY.
9. DURING TRAFFIC SIGNAL FLASHING OPERATION, THE RED ARROW INDICATION OF ALL 3-SECTION LEFT-TURN HEADS SHALL BE THE FLASHING INDICATION DISPLAYED.
10. SIGNAL TO BE MAINTAINED BY HERNANDO COUNTY.

PAY ITEM FOOTNOTES:

- 630-2-AB:  
INCLUDES DIRECTIONAL BORE FOR MULTIPLE RUNS IN ONE TRENCH. LINEAR FOOTAGE SHOWN ON PLANS ARE FOR LENGTH OF TRENCH.  
ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY, WITH THE EXCEPTION OF ELECTRICAL POWER SERVICE DUCTS, JACK AND BORE SLEEVES, AND DIRECTIONAL BORE CONDUITS. ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF TWO INCHES UNLESS OTHERWISE SPECIFIED IN THE PLANS. CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE WITH A MINIMUM SIZE OF 2 INCHES.
- 632-7-1:  
EACH PHASE/MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE/MOVEMENT. THIS INCLUDES THE LEFT TURN MOVEMENT WHICH SHALL HAVE CONDUCTORS AVAILABLE FOR EITHER PROTECTED OR PERMISSIVE MOVEMENTS. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE AND INTERCONNECT CABLE WITH THE HERNANDO COUNTY SIGNAL SHOP BEFORE ORDERING AND WIRE THE SIGNAL IN ACCORDANCE WITH THAT COLOR CODE AND F.D.O.T. SPECIFICATIONS. THERE SHALL BE ONE NEUTRAL PER APPROACH.
- 639-2-1  
THE PAYMENT OF THIS ITEM SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.
- 646-1-11:  
ALUMINUM PEDESTALS SHALL BE MOUNTED ON TRANSFORMER BASE.
- 649-3A-BCC:  
AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE SIGNAL POLE FOUNDATION, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION. THE CONTRACTOR SHALL CONFIRM THE ABSENCE OF UTILITY CONFLICTS AT EACH POLE LOCATION PRIOR TO ORDERING POLES. ANY POTENTIAL CONFLICTS SHALL BE REPORTED TO THE PROJECT ENGINEER PRIOR TO ORDERING POLES.
- 653-1-11  
PEDESTRIAN SIGNALS SHALL BE COUNTDOWN WITH OVERLAY/FILLED/FILLED HAND AND PEDESTRIAN SYMBOLS, AND SHALL BE FDOT APPROVED PRODUCT.
- 663-1-120  
THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED TO FURNISH AND INSTALL A VIDEO DETECTION SYSTEM INCLUDING VIDEO CAMERAS, VIDEO PROCESSORS, INTERFACE UNITS, CABLE PLANTS, MONITORING BRACKETS, AND ANY ADDITIONAL EQUIPMENT REQUIRED TO MAKE A COMPLETE AND ACCEPTABLE SYSTEM. CABLE SHALL HAVE NO SPLICE BETWEEN THE VIDEO CAMERA AND THE CONTROLLER CONNECTION. VIDEO DETECTION SYSTEM SHALL BE COMPATIBLE WITH THE HERNANDO COUNTY CONTROLLER EQUIPMENT, CABINET, AND TRAFFIC SIGNAL COMPUTER SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH THE MAINTAINING AGENCY FOR UNIT ACCEPTANCE AND SHALL BE LISTED IN THE FDOT APPROVED PRODUCT LIST.
- 665-1-11:  
SHALL INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF PEDESTRIAN SIGNAL SIGN FTP-68B-06.
- 670-5-11:  
THE CONTRACTOR SHALL NOTIFY THE HERNANDO COUNTY SIGNAL SHOP AT LEAST 48 HOURS IN ADVANCE OF TURNING ON A NEW OR MODIFIED CONTROLLER CABINET ASSEMBLY. CABINET DOOR SHOULD OPEN AWAY FROM TRAFFIC. THE TECHNICIAN SERVICE SLAB SHALL BE A MAXIMUM OF 4" BELOW THE TOP OF THE CONCRETE PAD. THE CONTROLLER SHALL BE HOUSED IN A TYPE "V" CABINET. THE CABINET SHALL INCLUDE AN EIGHT PHASE BACKPLATE WITH A MINIMUM OF 16 POSITIONS ON THE LOAD BAY AND SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE, AND OTHER MATERIALS FOR CONTROLLER BASE, PAD, AND STEPS, AS ONE UNIT.  
CONTROLLER CABINET SHALL BE CONNECTED TO FIBER OPTIC CONDUIT.  
ALL CONTROLLER EQUIPMENT SHALL BE COMPATIBLE WITH HERNANDO COUNTY'S CURRENT ECONOLITE SOFTWARE AND ASSOCIATED MASTER CONTROL SYSTEM. CONTRACTOR SHALL COORDINATE WITH HERNANDO COUNTY PUBLIC WORKS DEPARTMENT (352) 754-4060 FOR CONFORMANCE OF SPECIFICATIONS PRIOR TO ORDERING ANY EQUIPMENT.
- 682-1-113  
CCTV CAMERA SHALL BE MOUNTED AS HIGH AS POSSIBLE ON STRAIN POLE.
- 685-113  
THE UNINTERRUPTED POWER SUPPLY UNIT (UPS) SHALL BE HOUSED IN A SEPARATE ENCLOSED CABINET OR IN A TRAFFIC SIGNAL CABINET WHICH IS DESIGNED TO HOUSE THE UPS ASSEMBLY IN ADDITION TO THE TRAFFIC SIGNAL CONTROL EQUIPMENT. THIS PAY ITEM SHALL INCLUDE THE CABINET TO HOUSE THE UPS ASSEMBLY. A SEPARATE TRAFFIC SIGNAL CABINET CONCRETE BASE SHALL BE POURED TO SUPPORT THE THE UPS CABINET. PAYMENT FOR ADDITIONAL CONCRETE BASE, INCLUDING LABOR AND MATERIALS, SHALL BE INCLUDED IN THE UPS ASSEMBLY PAY ITEM NUMBER. THE CONTRACTOR SHALL COORDINATE WITH THE HERNANDO COUNTY SIGNAL SHOP FOR SPECIFICATIONS. THE UPS UNIT SHALL BE OF THE SAME MAKE AND MODEL AS IS CURRENTLY BEING USED BY THE MAINTAINING AGENCY.

PAY ITEM FOOTNOTES (CONT.):

- 700-5-22  
SHALL BE L.E.D. EDGE LIT AND SHALL BE LISTED IN THE FDOT APPROVED PRODUCTS LIST. SHOP DRAWINGS FOR INTERNALLY ILLUMINATED STREET NAME SIGNS MUST BE SUBMITTED TO THE HERNANDO COUNTY TRAFFIC OPERATIONS DIVISION FOR APPROVAL PRIOR TO ORDERING. CONNECT INTERNALLY ILLUMINATED STREET NAME SIGNS TO DEDICATED 15 AMP CIRCUIT BREAKER LOCATED INSIDE THE CONTROLLER CABINET.  
SHALL INCLUDE PROPERLY DESIGNED AND SIZED ADJUSTABLE HANGERS, BRACKETS, CLAMPS, AND ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL THE SIGNS AS SHOWN IN THE PLANS. INTERNALLY LUMIATED SIGNS SHALL BE POLE MOUNTED.
- 715-1-12  
a. LIGHTING CONDUCTORS SHALL BE INSTALLED USING THEIR OWN CONDUITS (3 CONDUITS PER RUN) SEPARATE FROM SIGNAL CONDUITS.  
b. LIGHTING CONDUCTORS SHALL BE NO. 6 AWG (INSULATED)
- 715-4-12: LIGHT POLE COMPLETE  
a. LIGHT POLE COMPLETE AS SPECIFIED IN FDOT STANDARD PLANS 715-002 (STANDARD ROADWAY ALUMINUM POLE). BRACKET ARM SHALL BE ALUMINUM, 15 FEET (15') IN LENGTH AND PROVIDE FOR A 40° MOUNTING HEIGHT.  
b. LUMINAIRES ARE SPECIFIED AS FOLLOWS: (a) MONGOO5 LED WITH 8 COB, (b) 4,000 KELVIN COLOR TEMPERATURE, (c) FORWARD THROW DISTRIBUTION, (d) BALLAST WIRED FOR 120 VOLT OPERATION, (e) MINIMUM OF 37,358 INITIAL LUMENS, (f) 40° MOUNTING HEIGHT, (g) 0° TILT, (h) ORIENTED TOWARDS THE CENTER OF THE INTERSECTION, (i) PHOTOMETRIC PROFILE OF MGLED\_8\_4\_SK\_AX\_F\_L\_X\_X\_US.IES OR EQUIVALENT.
- 715-5-31  
a. LUMINAIRE BRACKET ARMS SHALL BE ALUMINUM, TEN FEET IN LENGTH, MOUNTED DIRECTLY TO SIGNAL POLE, AND PROVIDE FOR A 40° MOUNTING HEIGHT.  
b. LUMINAIRES ARE SPECIFIED AS FOLLOWS: (a) MONGOO5 LED WITH 8 COB, (b) 4,000 KELVIN COLOR TEMPERATURE, (c) FORWARD THROW DISTRIBUTION, (d) BALLAST WIRED FOR 120 VOLT OPERATION, (e) MINIMUM OF 37,358 INITIAL LUMENS, (f) 40° MOUNTING HEIGHT, (g) 0° TILT, (h) ORIENTED TOWARDS THE CENTER OF THE INTERSECTION, (i) PHOTOMETRIC PROFILE OF MGLED\_8\_4\_SK\_AX\_F\_L\_X\_X\_US.IES OR EQUIVALENT.  
c. CABLE DISTRIBUTION SYSTEM TO BE PROVIDED AT EACH LUMINAIRE, PAID UNDER 700-500-1.
- 715-7-11  
a. THIS PAY ITEM, WHEN USED WITH SIGNALIZED INTERSECTION LIGHTING, WILL BE ALL LABOR AND MATERIALS TO FURNISH AND INSTALL A STREETLIGHT LOAD CENTER THAT IS CAPABLE OF CONTROLLING UP TO EIGHT STREETLIGHTS, THE LOAD CENTER WILL HAVE A PHOTO EYE CONTROL, A CONTRACTOR CONTROL OR EQUIVALENT, ALL OTHER NECESSARY COMPONENTS, AND SUFFICIENT TERMINATIONS FOR EIGHT STREETLIGHTS. THIS LOAD CENTER CAN BE INCORPORATED IN THE CONTROLLER CABINET IF DESIGNED AND INSTALLED BY THE CONTROLLER CABINET VENDOR. OTHERWISE, THIS LOAD CENTER WILL BE MOUNTED ON THE UNDERGROUND ELECTRIC SERVICE POLE NEAREST THE INTERSECTION IN A NEMA WATERPROOF CABINET. IN EITHER CASE, POWER TO THE LOAD CENTER WILL BE PROVIDED VIA A SEPERATE BREAKER FROM THE MAIN ELECTRICAL SERVICE BREAKERS DISTRIBUTION BOX.  
b. LOAD CENTER SHALL PROVIDE FOR 120 VOLT SINGLE PHASE SERVICE, WITH (1) CIRCUIT. CONTRACTOR SHALL SIZE CIRCUIT BREAKERS AND SERVICE FEEDER WIRE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

REVISIONS				 <div><b>COASTAL</b> DESIGN CONSULTANTS</div> <div>7026 Little Road, New Port Richey, FL 34653 Certificate of Authorization No. 00009572 Hunter P. Brown, P.E. No. 74664</div>	SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS		<i>SIGNALIZATION GENERAL NOTES</i>	SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		COASTAL PROJECT NO.	T-2
					S.R. 50	HERNANDO			
				SUSERS		SDATES	STINES	SFILES	

SUSERS

SDATES

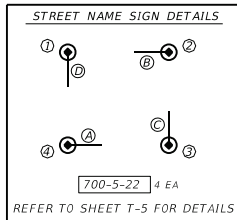
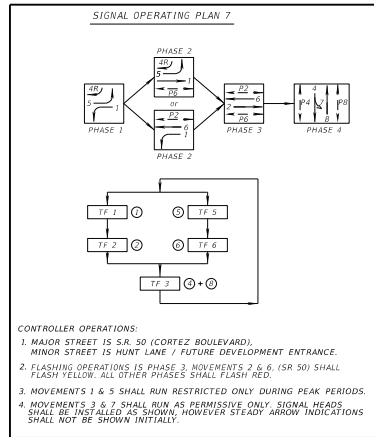
STIMES

SFILES

# TABULATION OF QUANTITIES

BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS						TOTAL THIS SHEET		GRAND TOTAL	
			T-4									
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	175						175		175	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	632						632		632	
632-7-1	CABLE, SIGNAL	PI	1						1		1	
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX OR DROP BOX	PI	1						1		1	
635-2-11	PULL AND SPLICE BOXES (PULL BOX)	EA	26						26		26	
639-1-121	ELECTRICAL POWER SERVICE (UNDERGROUND)	AS	1						1		1	
639-2-1	ELECTRICAL SERVICE WIRE	LF	60						60		60	
641-2-12	CONCRETE POLE, F&I, TYPE PII SERVICE POLE	EA	1						1		1	
646-1-11	ALUMINUM SIGNAL POLE (F&I PEDESTAL)	EA	8						8		8	
649-1-15	STEEL STRAIN POLE, F&I, TYPE PS-VIII	EA	4						4		4	
650-1-14	VEHICULAR TRAFFIC SIGNAL (F&I) (3-SECT., 1-WAY) (12" LED)	AS	8						8		8	
650-1-16	VEHICULAR TRAFFIC SIGNAL (F&I) (4-SECT., 1-WAY) (12" LED)	AS	2						2		2	
650-1-19	VEHICULAR TRAFFIC SIGNAL (F&I) (5-SECT. CLUSTER, 1-WAY) (12" LED)	AS	4						4		4	
653-1-11	PEDESTRIAN SIGNAL (LED) (1-SECT., 1-WAY) (COUNTDOWN)	AS	8						8		8	
660-4-11	VEHICLE DETECTION SYSTEM, VIDEO, F&I, CABINET EQUIPMENT	EA	1						1		1	
660-4-12	VEHICLE DETECTION SYSTEM, VIDEO, F&I, ABOVE GROUND EQUIPMENT	EA	4						4		4	
665-1-11	DETECTOR, PEDESTRIAN (POLE MOUNT)	EA	8						8		8	
670-5-110	TRAFFIC CONTROLLER ASSEMBLY (F&I) NEMA		1						1		1	
682-1-113	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - PRESSURIZED, IP, ANALOG- STANDARD DEFINITION	EA	1						1		1	
685-106	SYSTEM AUXILIARIES INTERFACE PANEL	EA	1						1		1	
685-113	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE WITH CABINET	EA	1						1		1	
700-2-15	MULTI POST SIGN, F&I, GROUND MOUNT, 51-100 SF	AS	2						2		2	
700-3-201	SIGN PANEL, F&I, OVERHEAD MOUNT, UP TO 12 SF	EA	2						2			
700-5-22	INTERNALLY ILLUMINATED SIGN (EDGE LIT "LED")	EA	4						4		4	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	200						200		200	
715-4-13	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA	2						2		2	
715-4-60	LIGHT POLE COMPLETE, RELOCATE	EA	1						1		1	
715-5-31	LUMINAIRE & BRACKET ARM, ALUMINUM, F&I, NEW LUMINAIRE AND ARM ON NEW / EXISTING POLE	EA	4						4		4	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1						1		1	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, F&I, COVENTIONAL	EA	4						4		4	
R10-3E	CROSSWALK CROSSING PLAQUE	EA	8						8		8	

REVISIONS				 <b>COASTAL DESIGN CONSULTANTS</b> <small>7026 Little Road, New Port Richey, FL 34653  Certificate of Authorization No. 00009572  Hunter P. Brown, P.E. No. 74664</small>	SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS			TABULATION OF QUANTITIES	SHEET NO.  T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	COASTAL PROJECT NO.		
					S.R. 50	HERNANDO			



**NOTE:**  
CONTRACTOR TO COORDINATE WITH POWER COMPANY TO PROVIDE PROPER CLEARANCE BETWEEN PROPOSED SPAN WIRE AND SIGNAL POLE

THE CONTRACTOR SHALL VERIFY WITH THE VEHICLE DETECTION SYSTEM MANUFACTURER THAT THE PROPOSED DEGREE OF ANGLE / VEHICLE DETECTION EQUIPMENT MOUNTING LOCATION IS ACCEPTABLE. IF NOT ACCEPTABLE, THE CONTRACTOR SHALL COORDINATE WITH THE VEHICLE DETECTION SYSTEM MANUFACTURER AND HERNANDO COUNTY FOR ACCEPTABLE MOUNTING ANGLES / LOCATIONS.

**DESIGN SPEED = 55 MPH**  
**CLEAR ZONE REQUIREMENTS:**  
MIN. 30' FROM EDGE OF TRAVEL LANES  
MIN. 18' FROM EDGE OF AUXILIARY LANES

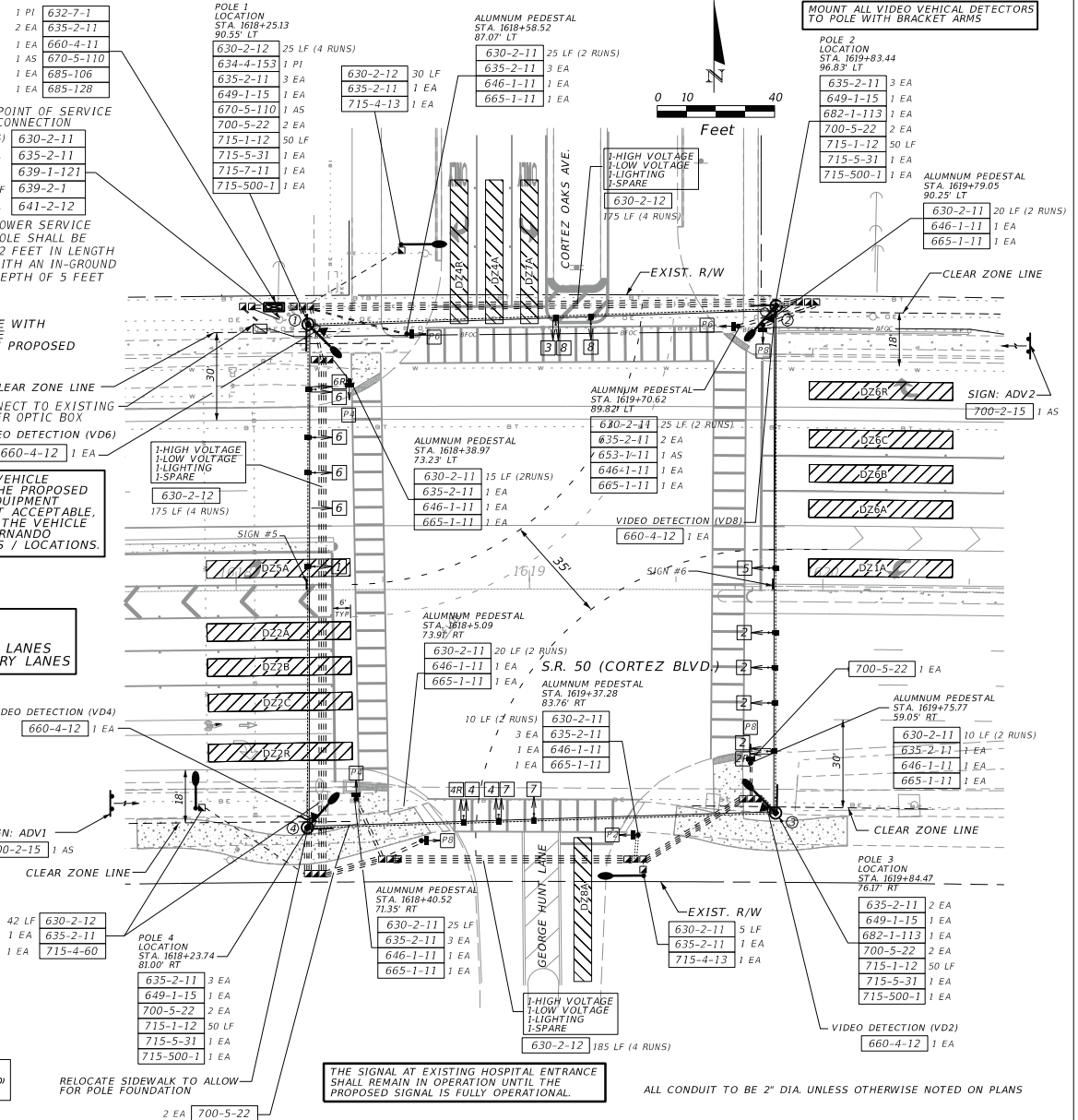
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CONTROLLER TIMINGS						
TIMING FUNCTION						
MOVEMENT NUMBER	1	2	3	5	6	
MOVEMENT	WBL	EB	NB+SB	EBL	WBL	
MINIMUM GREEN (INITIAL)	5.0	20.0	7.0	5.0	20.0	
EXTENSION (PASSAGE)	3.0	5.0	3.0	3.0	5.0	
MAXIMUM GREEN 1	20.0	60.0	20.0	20.0	60.0	
MAXIMUM GREEN 2	2.2	2.0	4.0	2.2	2.0	
RED CLEARANCE	5.5	5.5	3.7	5.5	5.5	
PEDESTRIAN WALK	--	7.0	7.0	--	7.0	
PEDESTRIAN CLEARANCE	--	18.5	38.0	--	32.0	
RECALL	NONE	MIN	NONE	NONE	MIN	

SIGNAL TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTMENTS.

VIDEO VEHICLE DETECTION ASSIGNMENTS			
CAMERA DETECTOR NUMBER	DETECTION ZONE	TIMING FUNCTION CONNECTION	DELAY TIME (SEC)
VD1	DZ1A	1	0
	DZ6A/B/C/R	6	0
VD2	DZ8A	3	10
	--	--	--
VD3	DZ5A	5	0
	DZ2A/B/C/R	2	0
	DZ7A	3	0
VD4	DZ4A/R	3	10

**SPECIAL NOTES:**  
1. VIDEO CAMERA (VD1)  
2. DETECTION ZONE



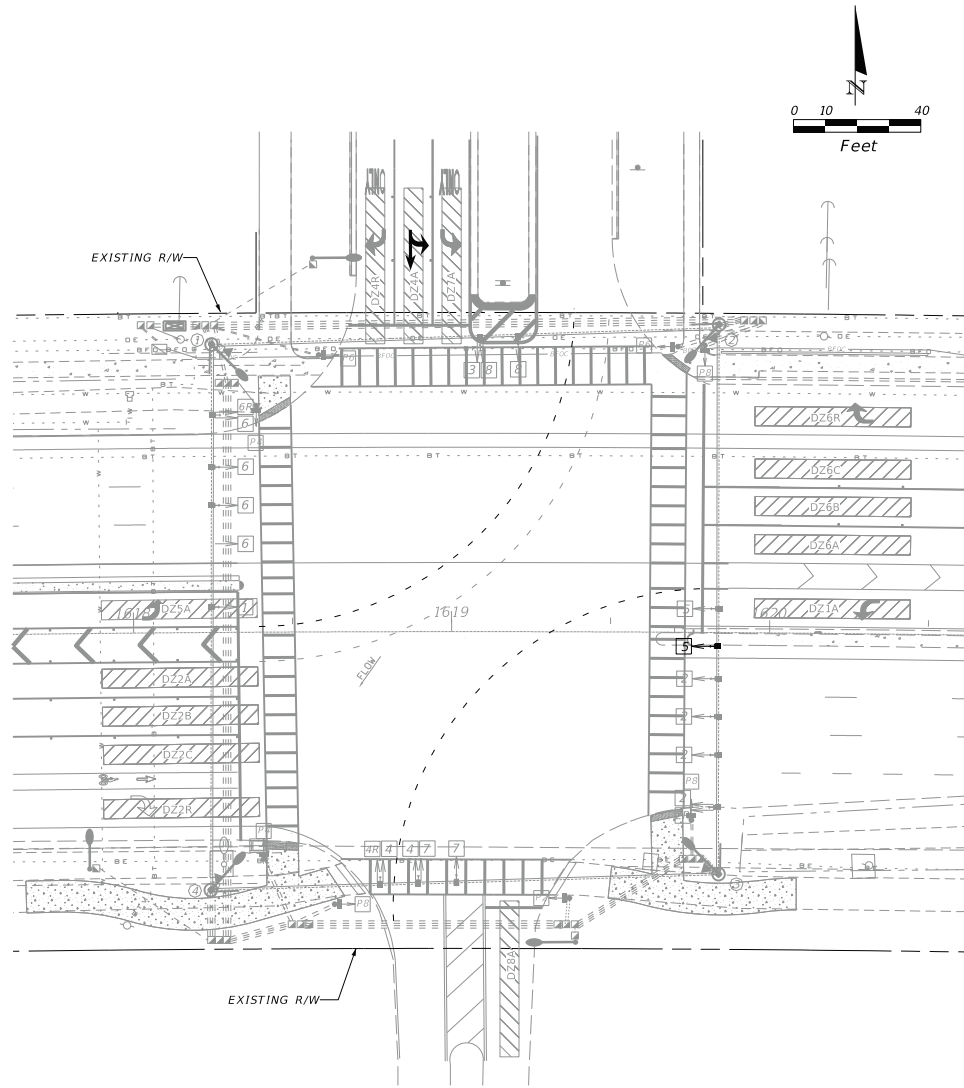
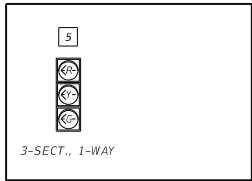
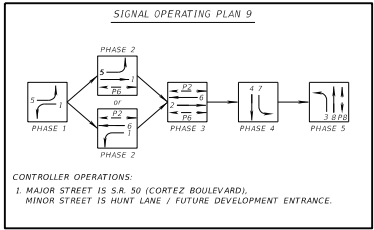
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**COASTAL DESIGN CONSULTANTS**  
7026 Little Road, New Port Richey, FL 34653  
Certificate of Authorization No. 00009572  
Hunter P. Brown, P.E. No. 74664

SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
S.R. 50	HERNANDO	

## SIGNALIZATION PLAN (INTERIM CONDITION)

SHEET NO.  
T-4



PLAN SHEET FOR INFORMATIONAL PURPOSES  
AND STRUCTURAL DESIGN ONLY. REFER TO  
SHEET T-4 FOR CURRENT INSTALLATION PLAN.

REVISIONS					SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS		SIGNALIZATION PLAN (FINAL CONDITION)		SHEET NO.  T-5
DATE	DESCRIPTION	DATE	DESCRIPTION						
				7026 Little Road, New Port Richey, FL 34653 Certificate of Authorization No. 00009572 Hunter P. Brown, P.E. No. 74664	ROAD NO. S.R. 50	COUNTY HERNANDO	COASTAL PROJECT NO.		

SUSERS

SDATES

STIMES


SFILES

[illegible]



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COLUMN TYPE: STEEL W. BEAM POST - W6X12 NUMBER OF COLUMNS: 2 L <sub>WIND</sub> : 11.45' WIND BEAMS: 2 FOUNDATION TYPE: CONCRETE CLASS I FOUNDATION DIAMETER: 2.0' FOUNDATION DEPTH: 6.0' FOUNDATION STUB LENGTH: 3.0'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
FURNISH AND INSTALL "NEXT SIGNAL" MULTI-COLUMN GROUND SIGN IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO'S 700-020 AND 700-101 (CASE II). SIGN SHALL BE INSTALLED APPROXIMATELY AT STA. 000+00 (APPROXIMATELY 990 FEET UPSTREAM FROM BEGINING OF TAPER FOR EASTBOUND LEFT TURN LANE APPROACHING CORTEZ OAKS BLVD / GEORGE HUNT LANE. SIGN INSTALLATION SHALL NOT CONFLICT WITH EXISTING DRIVEWAYS, OTHER SIGNS, OR SIGHT DISTANCE, AND SHALL BE INSTALLED WITHIN EXISTING RIGHT OF WAY WITH APPROPRIATE HORIZONTAL CLEARANCE PER FDOT DESIGN STANDARD PLANS NO. 700-101. CONTRACTOR SHALL CONFIRM THE ABSENCE OF ALL CONFLICTS, INCLUDING UNDERGROUND UTILITIES, PRIOR TO SIGN INSTALLATION. ALL POTENTIAL CONFLICTS SHALL BE REPORTED TO PROJECT ENGINEER FOR RESOLUTION PRIOR TO SIGN INSTALLATION.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
SHOP DRAWINGS FOR SIGN PANELS, INCLUDING SIGN LEGENDS, SHALL BE SUBMITTED TO PASCO TRAFFIC OPERATIONS DIVISION FOR APPROVAL PRIOR TO FABRICATIONS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

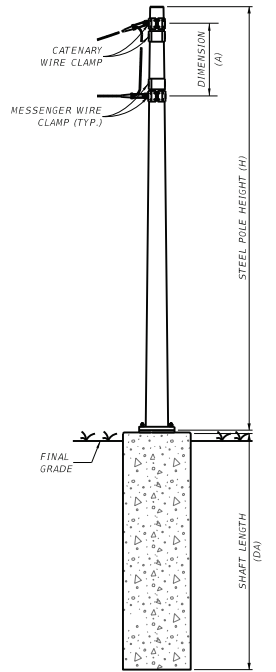


7026 Little Road, New Port Richey, FL 34653  
Certificate of Authorization No. 00009572  
Hunter P. Brown, P.E. No. 74664

SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
S.R. 50	HERNANDO	

GUIDESIGN WORKSHEET

SHEET NO.
T-7



STEEL STRAIN POLE DIMENSIONS  
TYPES PS-IV THROUGH PS-X

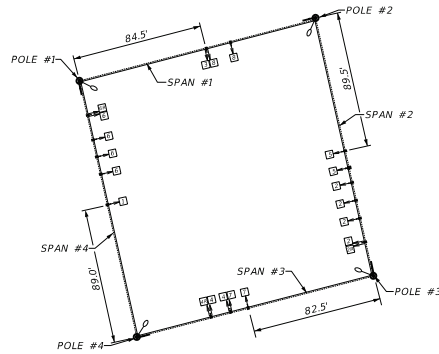
SCHEDULE NOTES:

For Steel Strain Poles, work with Standard Plans 649-010.

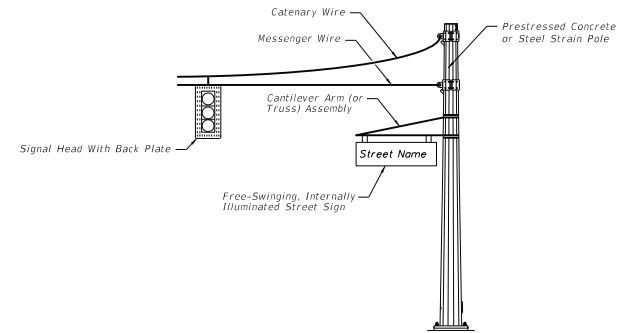
Notes:

1. This drawing is representative of a Proprietary Pivotal Adjustable Hanger Assembly listed on the Department's Approved Products List (APL). For specific details and requirements see the vendor drawings on the APL. The proprietary pivotal adjustable hanger assembly shall be assembled in accordance with the manufacturer's detailed drawings, procedures and specifications.
2. With the approval of the resident engineer, the service head hole for joint use poles may be drilled by the utility company at an angle of 90° but not less than 45° to the face of the pole.
3. Lashing wire should normally be used for distances of 12' or greater.
4. The overlapped connection of adjustable hangers shall use a minimum of 2 bolts with a minimum spacing of 2' between bolts.
5. Meet all grounding requirements of Section 620 of the Standard Specifications.

SHEET NO.	P O L E	STRUCT. ID NO.	CRIT. ELEV. DIFF.	CONCRETE OR STEEL	S P A N	SPAN LENGTH	BACK PLATES Y/N	SIGNAL DATA														SIGN DATA						
								DISTANCE FROM POLE (FT)/NUMBER OF SECTIONS														DISTANCE FROM POLE(FT)/HEIGHT & WIDTH 1" Enter P if attached to pole						
								DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	SECT.	DIST.	HT.	WIDTH	DIST.	HT.	WIDTH	
T-4	1	1		STEEL	1	160'	Y	84.5'	5	96.5'	3												P	2'	9'			
T-4	2	2		STEEL	2	173'	Y	89.5'	4	100.5'	3	111.5'	3	123.5'	3	135.5'	3	152'	5				P	2'	7'	95'	2.5'	2'
T-4	3	3		STEEL	3	160'	Y	82.5'	3	94.5'	5	106.5'	5										P	2'	9'			
T-4	4	4		STEEL	4	172'	Y	89'	4	109'	3	121'	3	133'	3	149.5'	5						P	2'	7'	83'	2.5'	2'



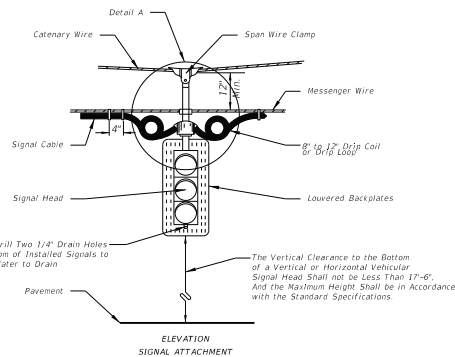
BOX SPAN (PROPOSED)



FREE SWINGING INTERNALLY  
ILLUMINATED STREET SIGN  
ASSEMBLY

NOTES:

1. Free-swinging, internally-illuminated street signs shall only be installed on the signal pole for span wire assemblies. For mast arm assemblies the street sign may be installed on the arm or pole.
2. Free-swinging, internally-illuminated street signs shall meet the requirements of Section 700 of the Standard Specifications for Road and Bridge Construction.
3. Pole attachments and cantilever arm (or truss) assemblies may be accepted by Contractor certification provided the signs being supported meet the weight and area limitations included in Section 700 for "Acceptance by Certification".
4. Pole attachments and cantilever arm (or truss) assemblies supporting signs not meeting the weight or area limitations included in Section 700 for "Acceptance by Certification" require the submittal of structural calculations and Shop Drawings that have been prepared by and sealed by the Specialty Engineer.



REVISIONS			SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS			SHEET NO.
DATE	DESCRIPTION	DATE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			S.R. 50	HERNANDO		
SUSERS						SDATES
						STIMES
						SFILES
						T-8

STRAIN POLE SCHEDULE



**POLE AND FOUNDATION SCHEDULE**

POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	TOP/DRILLED SHAFT EL.	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. H (FT)	DA (FT)	CATENARY WIRE DIA. (IN.)/GRADE	MESSENGER WIRE DIA. (IN.)/GRADE	FOUNDATION DESIGN ASSUMPTIONS	
									EFFECTIVE SOIL UNIT WT. (PCF)	COHESION (PSF)
1	PS-VIII	27.98	28.48	29.00	35.00	22.5	0.5/UTILITY	0.5/UTILITY	43	850
2	PS-VIII	30.74	31.24	28.86	32.40	22.5	0.5/UTILITY	0.5/UTILITY	43	850
3	PS-VIII	27.94	28.44	28.87	35.20	22.5	0.5/UTILITY	0.5/UTILITY	43	850
4	PS-VIII	27.61	28.11	28.40	35.37	22.5	0.5/UTILITY	0.5/UTILITY	43	850

**DIMENSIONS TO AND FROM  
CATENARY AND MESSENGER  
WIRE CLAMPS**

**NOTES**

- FOR ADDITIONAL DETAILS NOT SHOWN ON THIS SHEET, REFER TO STANDARD PLANS 649-010.
- DESIGN WIND SPEED: 140 MPH.
- SHOP DRAWINGS FOR ALL POLES AND ATTACHMENTS SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO FABRICATION AND/OR CONSTRUCTION.
- A PROPERLY SIZED SERVICE HEAD, (WEATHERHEAD) SHALL BE INSTALLED AND FASTENED SECURELY ONTO CONDUIT FOR EACH POLE LOCATION. AT LOCATIONS OTHER THAN SERVICE ENTRANCE, THE SERVICE HEAD FACE IS TO BE LEFT CLOSED TO OUTSIDE ATMOSPHERE. SERVICE ENTRANCE INSTALLATION PER STANDARD PLANS 649-010.
- FOR GEOTECHNICAL INFORMATION, SEE REPORT OF CORE BORINGS.
- LUMINAIRE, LUMINAIRE SUPPORT, AND ATTACHMENTS BY OTHERS. APPROVED SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER ARE REQUIRED FOR LUMINAIRE AND LUMINAIRE SUPPORT AND ATTACHMENT TO THE STRAIN POLES PRIOR TO THE START OF CONSTRUCTION. CANTILEVER ARMS FOR SIGNS AND ATTACHMENTS BY OTHERS. APPROVED SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER ARE REQUIRED FOR CANTILEVER ARMS FOR SIGNS AND ATTACHMENT TO THE STRAIN POLES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE, FOR APPROVAL BY THE ENGINEER, ALL FINISHED GRADE ELEVATIONS AT ALL POLE FOUNDATIONS PRIOR TO FURNISHING AND/OR INSTALLING ANY CATENARY AND/OR ANY MESSENGER CABLES. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK IN THIS NOTE.
- THE CONTRACTOR SHALL PROVIDE, FOR APPROVAL BY THE ENGINEER, ALL FINISHED GRADE ELEVATIONS DIRECTLY UNDER ALL SIGNAL AND SIGN LOCATIONS ON ALL SPANS PRIOR TO FURNISHING AND/OR INSTALLING ANY CATENARY AND/OR ANY MESSENGER CABLES. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK IN THIS NOTE.
- AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE AND/OR MOVE AND/OR RELOCATE AND/OR FURNISH AND INSTALL NEW MATERIALS FOR CONNECTION OF ALL MESSENGER AND CATENARY WIRES TO ALL POLES AFTER APPROVAL OF PROVIDED FINISH GRADE ELEVATIONS IN THE ABOVE NOTE(S). NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK IN THIS NOTE.
- AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE AND/OR MOVE AND/OR RELOCATE AND/OR FURNISH AND INSTALL AND/OR RE-INSTALL ALL SIGNAL HEADS, SIGNS AND AND ASSOCIATED MATERIALS TO MEET ANY CHANGED DESIGN AND/OR CONSTRUCTION REQUIREMENTS BY OTHERS. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK IN THIS NOTE.
- CATENARY AND MESSENGER WIRE LOCATIONS FOR FUTURE SIGNAL LOCATIONS ARE BY OTHERS.
- A DIMENSION OF 0.22 FT WAS ASSUMED IN DESIGN BETWEEN THE TOP OF FOUNDATION AND BOTTOM OF THE BASE PLATE NEAR THE BASE OF THE POLE.

POLE NO.	SPAN NO.	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)	DIM. E (FT)	DIM. F (FT)
1	4	1.00		9.65		24.35	
	1		2.72		9.00		23.28
2	1	2.88		9.00		20.52	
	2		1.00		9.65		21.75
3	2	1.00		9.65		24.55	
	3		3.00		9.00		23.20
4	3	2.85		9.00		23.52	
	4		1.00		9.65		24.72

DIMENSIONS A,B,C,D,E,F AND H ARE SHOWN ON SHEET T-10.

ENGINEER OF RECORD:  
T.E. SLAUGHTER JR, P.E. NO. 38833  
MAP ENGINEERING CO.  
550 N. RED STREET  
TAMPA, FL. 33609  
C.A. 6772

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MAP ENGINEERING CO.  
T.E. SLAUGHTER JR, P.E. NO. 38833

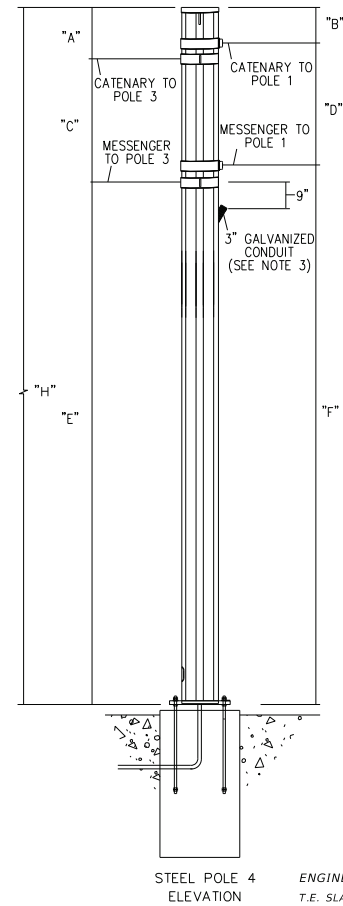
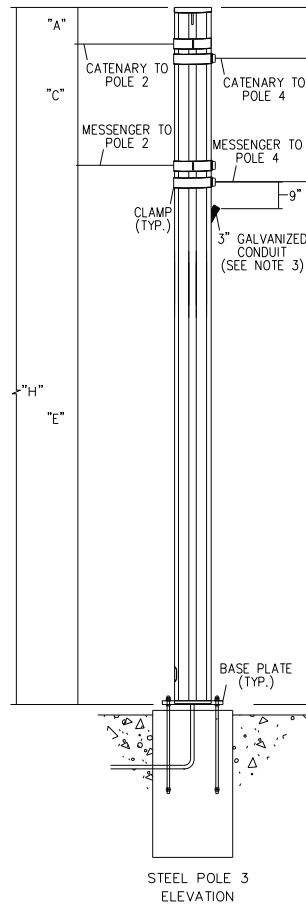
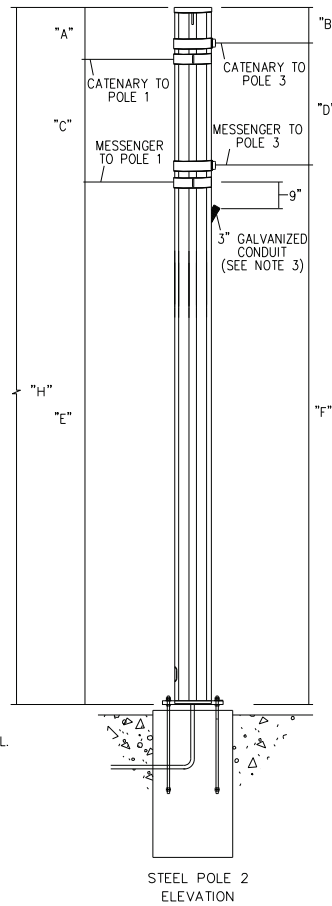
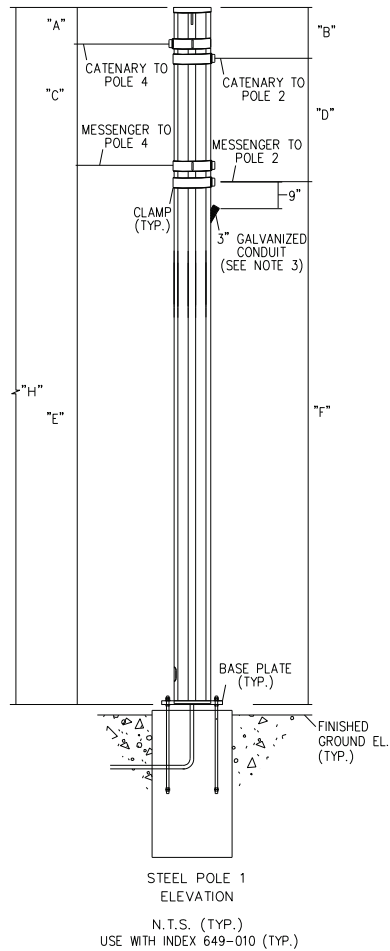
REVISIONS					SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS			<b>TABLE OF VARIABLES</b>	SHEET NO.  T-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	COASTAL PROJECT NO.		
					S.R. 50	HERNANDO			

SUSERS

SDATES

STIMES

SFILES



ENGINEER OF RECORD:  
T.E. SLAUGHTER JR., P.E. NO. 38833  
MAP ENGINEERING CO.  
550 N. RED STREET  
TAMPA, FL 33609  
C.A. 6772

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
MAP ENGINEERING CO.  
T.E. SLAUGHTER JR., P.E. NO. 38833

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



SR 50 & CORTEZ OAKS AVENUE INTERSECTION IMPROVEMENTS		
ROAD NO.	COUNTY	COASTAL PROJECT NO.
S.R. 50	HERNANDO	

## STRAIN POLE DETAILS

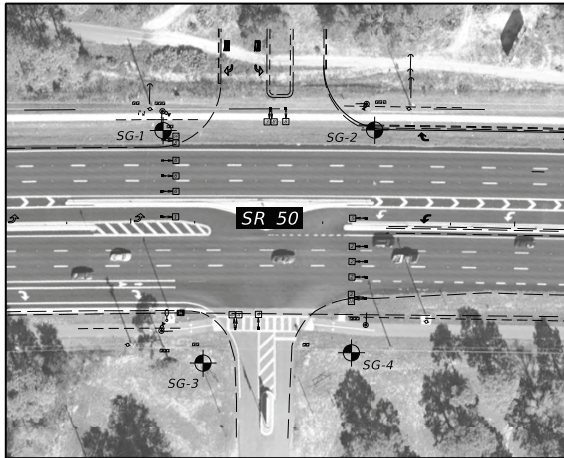
SHEET  
NO.  
T-10

SUSERS

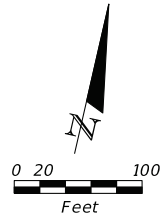
SDATES

STIMES

SFILES



**BORING LOCATION PLAN**



RECOMMENDED ENVIRONMENTAL CLASSIFICATION:  
SUBSTRUCTURE CONCRETE: EXTREMELY AGGRESSIVE  
SUBSTRUCTURE STEEL: EXTREMELY AGGRESSIVE  
SUPERSTRUCTURE EXTREMELY AGGRESSIVE

BORING NUMBER	DEPTH (FT)	N	SOIL CLASSIFICATION	SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)
				Y SAT	Y SUB		
SG-1	0 TO 28.5 28.5 TO 30	HA TO 11 9	SP/SP-SM SC	105	43.0	30	0
				115	58.0	0	900
SG-2	0 TO 13.5 13.5 TO 18.5 18.5 TO 28.5 28.5 TO 30	HA TO 2 12 8 TO 10 3	SP/SP-SM SP/SP-SM SC SM	105	43.0	29	0
				110	50.0	32	0
				115	58.0	0	900
				105	43.0	29	0
SG-3	0 TO 13.5 13.5 TO 23.5 23.5 TO 28.5 28.5 TO 30	HA TO 6 4 TO 7 24 5	SP/SP-SM SC SP/SP-SM SM	105	43.0	29	0
				115	53.0	0	600
				115	53.0	32	0
				105	43.0	29	0
SG-4	0 TO 18.5 18.5 TO 28.5	HA TO 9 8 TO 9 3	SP/SP-SM SC SC	105	43.0	30	0
				115	55.0	0	850
				120	58.0	0	700

**LEGEND**

- LIGHT GRAY TO LIGHT BROWN TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)
- LIGHT GRAY TO LIGHT BROWN TO BROWN SILTY SAND (SM)
- GRAY TO LIGHT BROWN CLAYEY SAND (SC)

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW.

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

HA HAND AUGURED TO VERIFY UTILITY CLEARANCE

APPROXIMATE SPT BORING LOCATION

GNA GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.

NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.

**NOTES:**

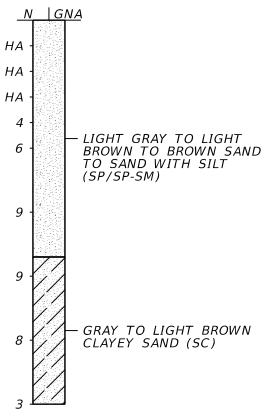
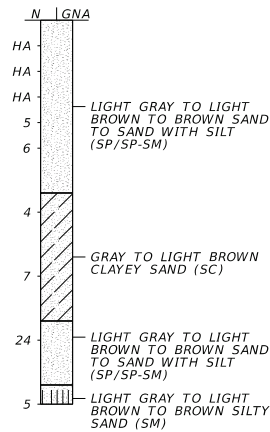
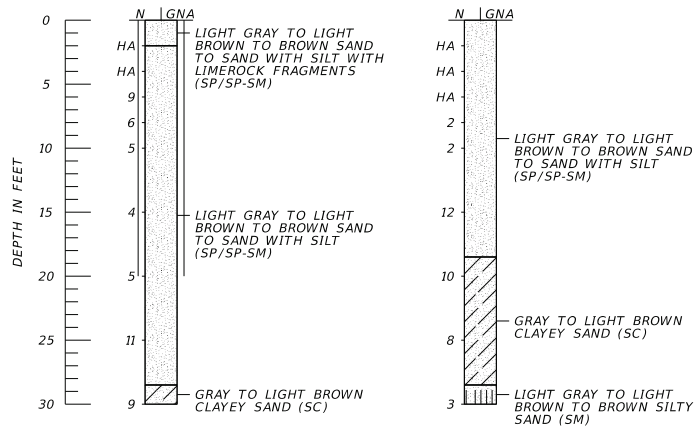
- BORING LOCATIONS WERE ESTIMATED BY TIERRA USING HAND-HELD GPS DEVICES IN CONJUNCTION WITH PROJECT DESIGN FILES PROVIDED BY COASTAL DESIGN CONSULTANTS, INC. AND SHOULD BE CONSIDERED APPROXIMATE.
- BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA" MAPS PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER AT THE PROPOSED SIGNAL STRUCTURE LOCATIONS RANGES FROM APPROXIMATELY +10 TO +20 FEET, NGVD. THE CONTRACTOR'S TOOLS AND CONSTRUCTION METHODS SHOULD ADDRESS AND HANDLE A POTENTIOMETRIC LEVEL UP TO +20 FEET, NGVD.
- TEMPORARY CASING METHODS FOR SHAFT INSTALLATION BEYOND WHAT IS REQUIRED IN THE FDOT SPECIFICATIONS MAY BE REQUIRED IN ORDER TO PREVENT THE COLLAPSE OF THE SANDY SOILS AND/OR GROUNDWATER INTRUSION DURING SHAFT CONSTRUCTION.

BOR # SG-1  
EASTING 483263  
NORTHING 1526800  
DATE 8/27/2019  
DRILLER D. STAKELIN  
HAMMER AUTOMATIC  
RIG CME-55

BOR # SG-2  
EASTING 483425  
NORTHING 1526837  
DATE 7/29/2019  
DRILLER J. SHAW  
HAMMER AUTOMATIC  
RIG D-25

BOR # SG-3  
EASTING 483334  
NORTHING 1526630  
DATE 7/29/2019  
DRILLER J. SHAW  
HAMMER AUTOMATIC  
RIG D-25

BOR # SG-4  
EASTING 483446  
NORTHING 1526664  
DATE 7/29/2019  
DRILLER J. SHAW  
HAMMER AUTOMATIC  
RIG D-25



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 TO 10	3 TO 8
MEDIUM DENSE	10 TO 30	8 TO 24
DENSE	30 TO 50	24 TO 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 TO 4	1 TO 3
FIRM	4 TO 8	3 TO 6
STIFF	8 TO 15	6 TO 12
VERY STIFF	15 TO 30	12 TO 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS				THOMAS E. MUSGRAVE, JR., P.E. P.E. LICENSE NUMBER 81669 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637 CERTIFICATE OF AUTHORIZATION NO. 6486				REPORT OF CORE BORINGS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
									ROAD NO.
				SR 50	HERNANDO				T-11