



MANATEE COUNTY, FLORIDA CONSTRUCTION PLANS

FOR

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

COUNTY PROJECT NO. 6035161

S.R. 43, SECTION 13020

MILE POST 2.638 TO 2.755

ROADWAY ID 13020

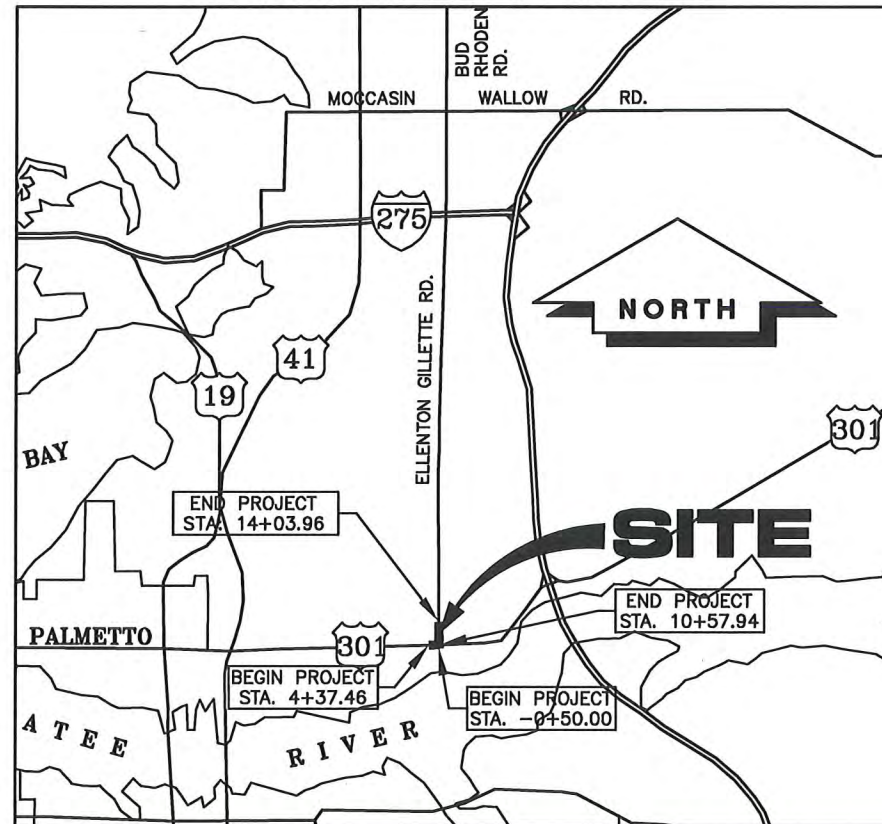
PERMIT #2015-A-194-28

100% PLANS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2015, AND
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2015, AS
AMENDED BY CONTRACT DOCUMENTS.

POSTED SPEED, 45 MPH ON U.S. 301
POSTED SPEED, 30 MPH ON ELLENTON GILLETTE RD.

AT LEAST 72 HOURS IN ADVANCE OF BEGINNING
CONSTRUCTION OF THE PROJECT, THE CONTRACTOR
SHALL CONTACT THE LOCAL MAINTENANCE FDOT
ENGINEER'S OFFICE TO SECURE GENERAL USE PERMITS
AND/OR OTHER PERMITS AS REQUIRED FOR WORKING
WITHIN THE DEPARTMENT'S RIGHT-OF-WAY.



0 1 2 4

SCALE IN MILES

LOCATION MAP

Sections 17, Twp. 34 S., Rge. 18 E.

DATE: APRIL, 2015

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LOMBARDO, FOLEY & KOLARIK, INC.

Consulting Engineers, Surveyors and Planners

P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561



CLIENT: MANATEE COUNTY PUBLIC WORKS DEPT.

REVISION DATE: MARCH, 2018

EMERGENCY CONTACTS

MANATEE COUNTY
PROJECT MANAGEMENT
MICHAEL STURM P.E.
1022 26TH AVE. EAST
BRADENTON, FL. 34208
(941) 708-7450 EXT. 7332

MANATEE COUNTY
PUBLIC WORKS DEPT.
INFRASTRUCTURE
ENGINEERING
CHRIS MOWBRAY, P.E.
1022 26TH AVENUE EAST
BRADENTON, FL. 34208
(941) 708-7450 EXT. 7605
FAX: (941) 708-7431

MANATEE COUNTY TRAFFIC
ENGINEERING/ ATMS
VISHAL KAKKAD
2101 47TH TERRACE EAST
BRADENTON, FL 34203
(941) 749-3500 EXT. 7812

TECO/PEOPLES GAS CO.
DAN SHANAHAN
8261 VICO COURT
SARASOTA, FL. 34240
(941) 342-4030
FAX: (941) 342-4011
EMERGENCY:
1-877-832-6911
djshanahan@tecoenergy.com

VERIZON FLORIDA INC.
WAYNE SUMNER
1701 RINGLING BLVD.
SARASOTA, FL. 34236
(941) 330-9203
WAYNE.SUMNER@verizon.com

FLORIDA POWER & LIGHT
DISTRIBUTION
GREG COKER
1253 12TH AVENUE EAST
PALMETTO, FL 34221
(941) 723-4430
FAX: (941) 723-4444
EMERGENCY:
1-800-4-OUTAGE
Greg_Coker@fpl.com

MANATEE COUNTY
BILL ELMORE, WW UTILITIES
SUPERINTENDENT
66TH STREET WEST
BRADENTON, FL
(941) 792-8111
BILL.ELMORE@MYMANATEE.ORG

SOUTHWEST FLORIDA WATER
MANAGEMENT DISTRICT
SARASOTA SERVICE OFFICE
STEVE LOPES, P.E.
6750 FRUITVILLE ROAD
SARASOTA, FL. 34240
(941) 377-3722
FAX: (941) 373-7660

BRIGHT HOUSE NETWORKS
TOM WRIGHT
5413 E. STATE ROAD 64
BRADENTON, FL.
34208-5535
(941) 748-3816 EXT. 21348
tom.wright@mybriighthouse.com

VERIZON FLORIDA INC.
DENISE HUTTON
1701 RINGLING BLVD.
SARASOTA, FL. 34236
(941) 906-6707
FAX: (941) 906-6706
Denise.Hutton@verizon.com

MANATEE COUNTY
DAVID SCHOFIELD, UTILITIES
DISTRIBUTION
SUPERINTENDENT
66TH STREET WEST
BRADENTON, FL
(941) 812-5121
DAVE.SCHOFIELD@MYMANATEE.ORG

DEPARTMENT OF
ENVIRONMENTAL PROTECTION
STEPHANIE BARIOS
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
PHONE: (813) 632-7600,
EXT. 408
FAX: (813) 632-7662

PEACE RIVER ELECTRIC
COOPERATIVE, INC.
P.O. BOX 1310
WACHULA, FL 33873
JAMIE FONES
(863) 767-4652
james.fones@preco.coop

MANATEE COUNTY HEALTH
DEPT.
HANS RIESE
410 6th AVENUE EAST
BRADENTON, FL. 34208
(941) 748-0747 EXT. 1355
FAX: (941) 750-9364

FLORIDA GAS TRANSMISSION
CHAD HARRELL
7804 ANDERSON RD.
TAMPA FL 33634
PHONE: (813) 466-3327
E-mail: chad.harrell@sug.com

SUNSHINE STATE ONE CALL OF
FLORIDA 1-(800) 432-4770

LEGEND

EXISTING

	BENCH MARK	— x — x —	FENCE
	ELEVATION	— FM —	FORCE MAIN
	GUY WIRE	— S —	SANITARY SEWER
	POWER POLE	— W —	WATERMAIN
	LIGHT POLE	-----	STORM DRAIN
	TRAFFIC SIGNAL POLE		RAILROAD TRACKS
	GROUND LIGHT	-----	EDGE OF CONCRETE
	SIGN	-----	EDGE OF ROAD
	BACKFLOW PREVENTER	> > > >	FLOW
	FIRE HYDRANT	-----	TOP OF BANK
	WATER VALVE	— — — —	PROPERTY LINE
	BURIED WATER VALVE	-----	RIGHT OF WAY
	WATER METER		

ABBREVIATIONS

	AIR RELEASE VALVE		
	SANITARY SEWER MANHOLE		
	TELEPHONE BOX	R/W	RIGHT OF WAY
	CABLE BOX	S/W	SIDEWALK
	ELECTRIC BOX	CONC.	CONCRETE
	ELECTRIC METER	ASPH	ASPHALT
	VERIZON	EX.	EXISTING
	TRANSFORMER	EP	EDGE OF PAVEMENT
	WELL	BC	BACK OF CURB
	GRATE INLET		
	MITERED END SECTION		
	OAK TREE		
	PALM TREE		
	PINE TREE		

PROPOSED

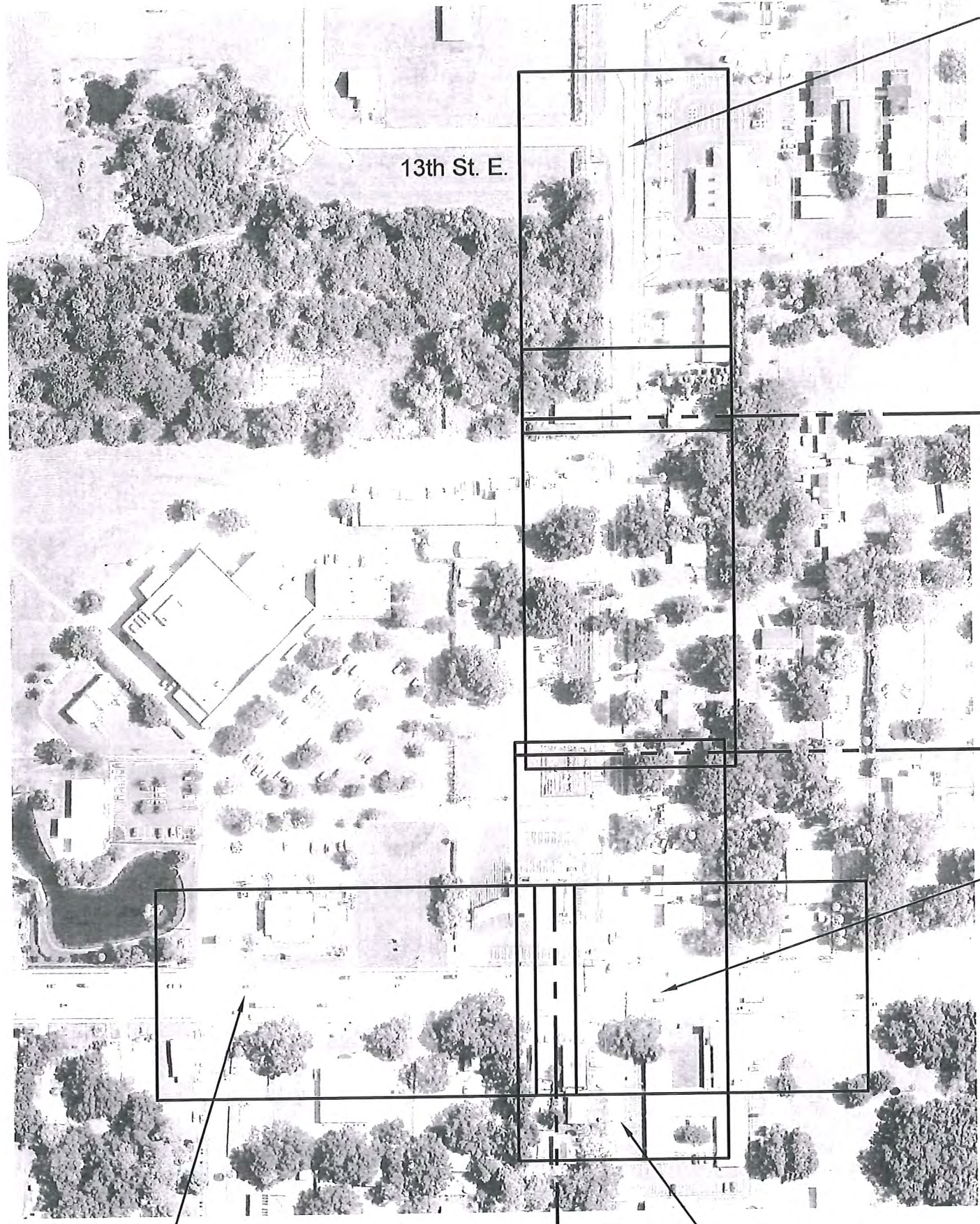
	SIGN	-----	STAKED SILT SCREEN
	GRATE INLET	→ ... →	FLOW
	MITERED END SECTION	-----	STORM DRAIN

GENERAL NOTES
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

<p>REVISIONS</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>LOMBARDO, FOLEY & KOLARIK, INC.</p> <p>No. 36890 Consulting Engineers, Surveyors and Planners</p> <p>P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561</p>			
	<p>DESIGN <u>JRF.</u></p>	<p>DATE <u>03/13/14</u></p>		<p>SHEET NO.</p> <p style="font-size: 24pt;">3</p>
	<p>DRAWN <u>PG.</u></p>	<p>SCALE <u>AS SHOWN</u></p>		<p style="font-size: 36pt;">44</p>
	<p>APPR. <u>JRF.</u></p>	<p>JOB NO. <u>7870</u></p>		

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STA: 14+03.96
END CONSTRUCTION

MATCH LINE
STA. 10+00

ELLENTON
GILLETTE ROAD

MATCH LINE
STA. 5+00

STA: 10+57.94
END CONSTRUCTION

U.S. 301

U.S. 301

STA: 4+37.46, US 301
BEGIN CONSTRUCTION

Palm Ave.

Manatee
Ave.

MATCH LINE
STA. 9+00
Leffingwell
Ave.

STA: -0+50.00,
LEFFINGWELL AVE.
BEGIN CONSTRUCTION



KEY MAP

US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS

LOMBARDO FOLEY & KOLARIK, INC.

No. 30000 Consulting Engineers, Surveyors and Planners
P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

PROJECT ENGINEER
John R. Foley
JOHN R. FOLEY
P.E. REG. NO. 38630

DESIGN JRF. DATE 03/13/14
DRAWN PG. SCALE 1"=200'
APPR JRF. JOB NO. 7870

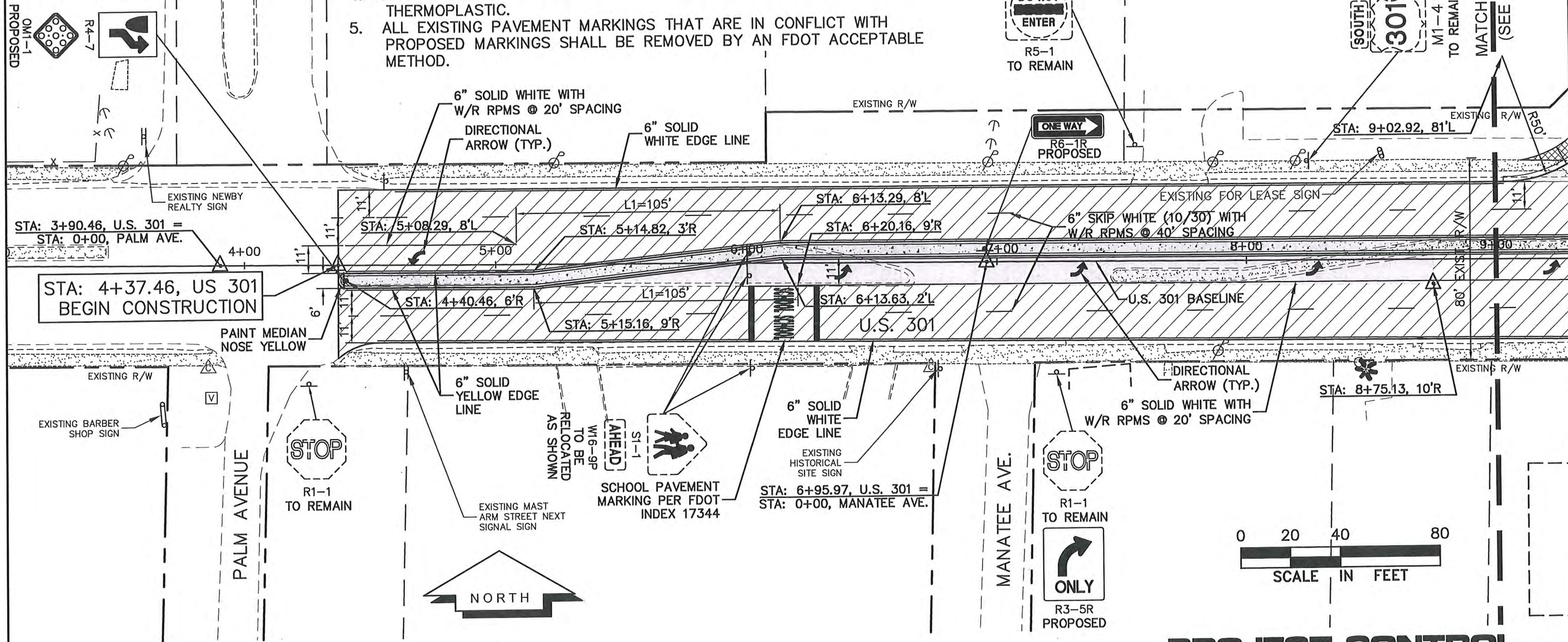


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5 / 44

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NOTE:

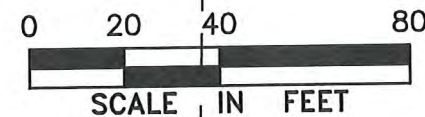
1. ALL SIGNAGE SHALL MEET MUTCD RETRO REFLECTIVITY STANDARDS.
2. ALL STRIPING AND PAVEMENT ARROWS TO BE PLACED IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.
3. ALL REFLECTIVE PAVEMENT MARKERS TO BE PLACED IN ACCORDANCE WITH FDOT STANDARD INDEX 17352.
4. ALL PAVEMENT MARKINGS WITHIN FDOT RIGHT OF WAY SHALL BE THERMOPLASTIC.
5. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED BY AN FDOT ACCEPTABLE METHOD.



LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- EXIST. SIDEWALK
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY

SIGN	SIZE
R3-5R	30"x36"
R6-1R	36"x12"
R4-7	24"x30"
OM1-1	18"x18"
R2-1	30"x36"
R3-9DP	30"x12"
R3-9B	24"x36"
R3-9CP	30"x12"



PROJECT CONTROL AND STRIPING PLAN

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

REVISIONS

09/2015 FDOT COMMENTS
01/2016 FDOT COMMENTS

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 Consulting Engineers, Surveyors and Planners
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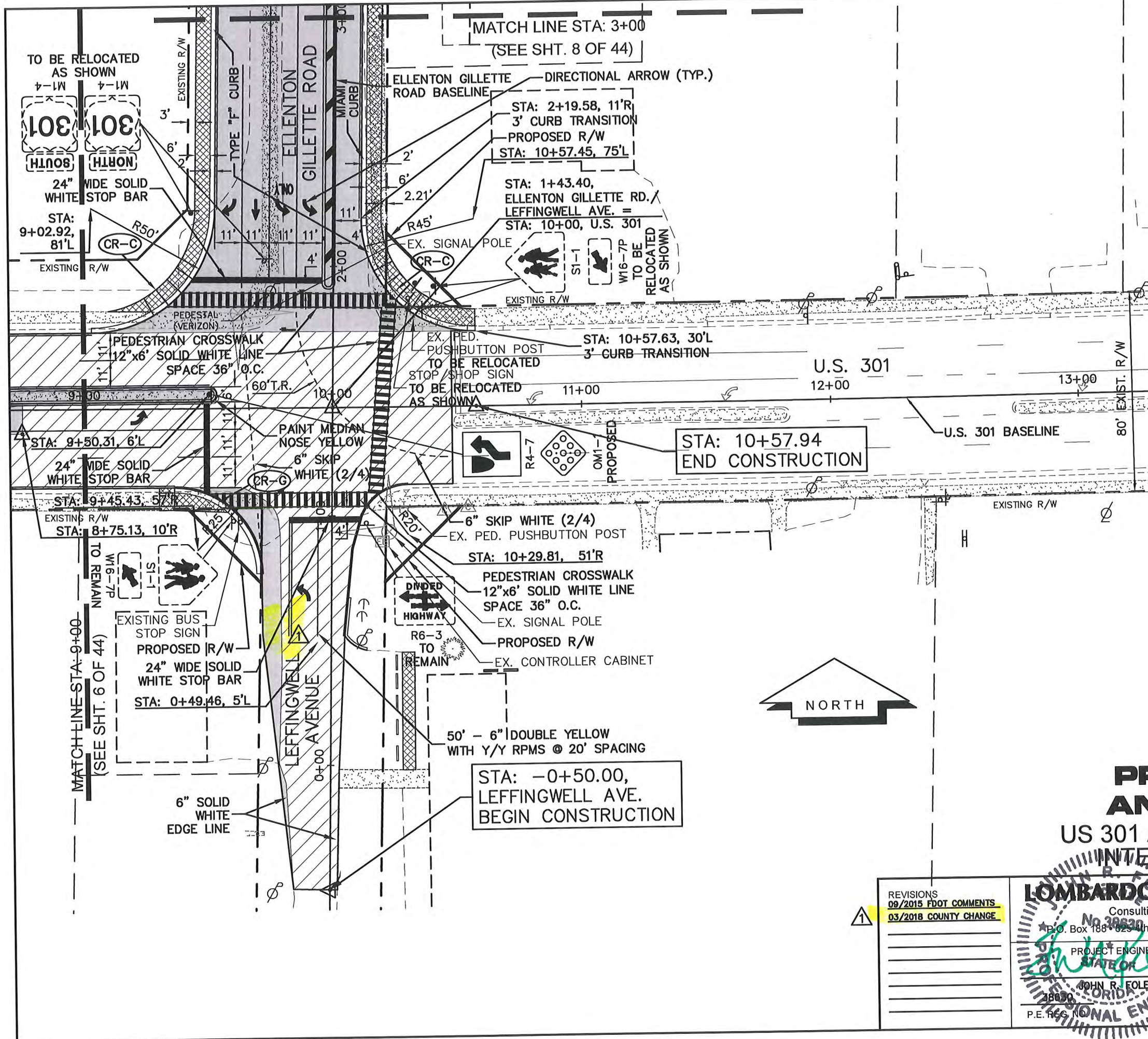
PROJECT ENGINEER: JOHN R. FOLEY
 STATE OF FLORIDA PROFESSIONAL ENGINEER
 P.E. REG. NO. 38630

LF&K

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 DRAWN: PG. SCALE: 1"=40'
 APPR: JRF. JOB NO.: 7870

SHEET NO. 6 / 44

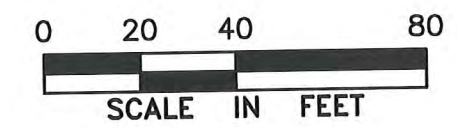
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LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY

- ### NOTE:
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PROJECT CONTROL AND STRIPING PLAN

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

REVISIONS	DATE	COMMENTS
1	09/2015	FDOT COMMENTS
	03/2018	COUNTY CHANGE

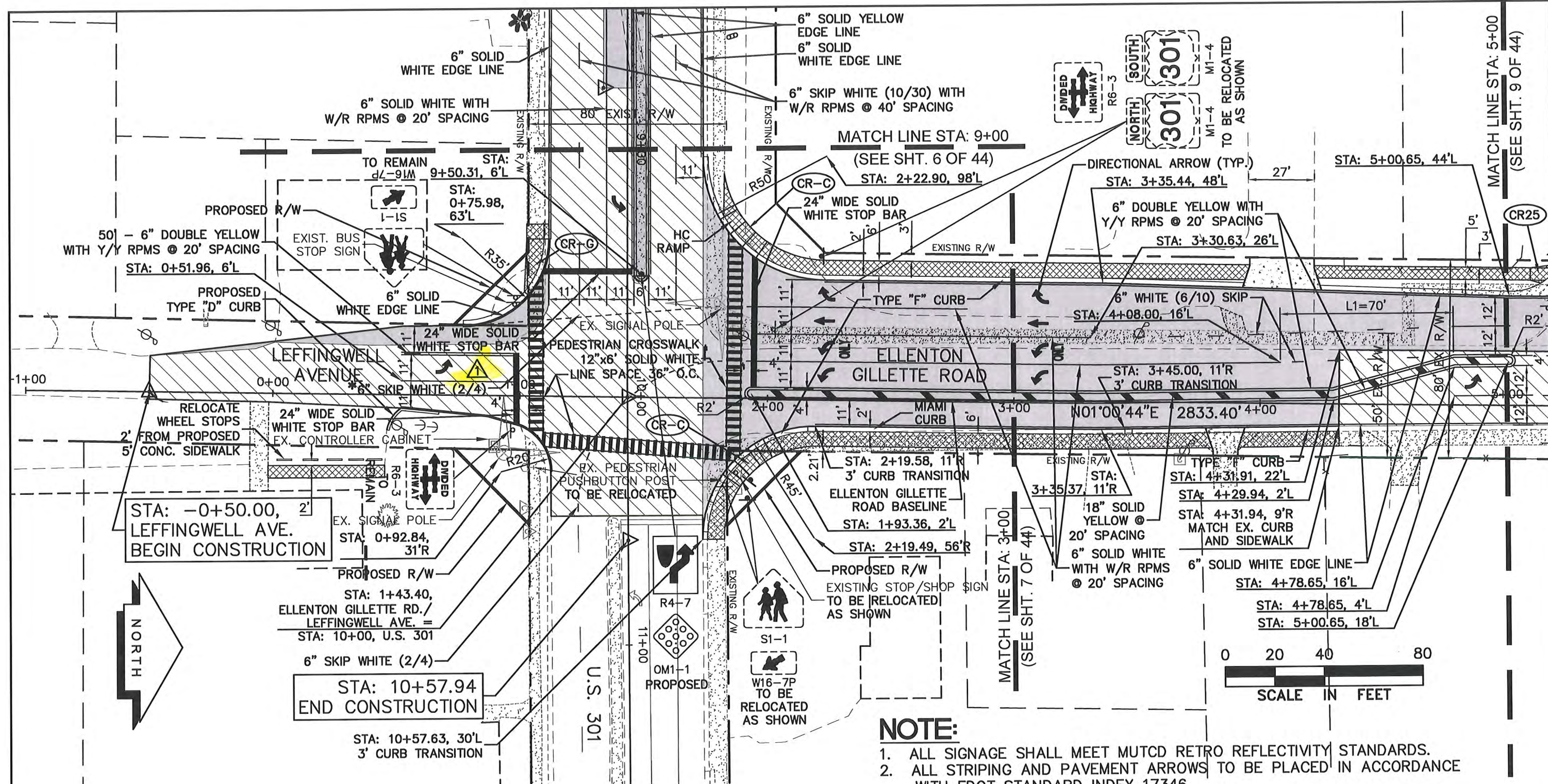
LOMBARDO, FOLEY & KOLARIK, INC.
 Consulting Engineers, Surveyors and Planners
 P.O. Box 188 • 525 1/2 Street West • Palmetto, Florida 34221 • (941) 722-4561

PROJECT ENGINEER: JOHN R. FOLEY
 STATE OF FLORIDA PROFESSIONAL ENGINEER
 P.E. REG. NO. 38820

DESIGN: JRF. DATE: 02/19/14
 DRAWN: PB. SCALE: 1"=40'
 APPR: JRF. JOB NO.: 7870

SHEET NO. 7 / 44

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LEGEND

	NEW ROADWAY CONSTRUCTION
	MILLING AND OVERLAY LIMITS
	EXIST. SIDEWALK
	PROPOSED SIDEWALK
	PROPOSED DRIVEWAY

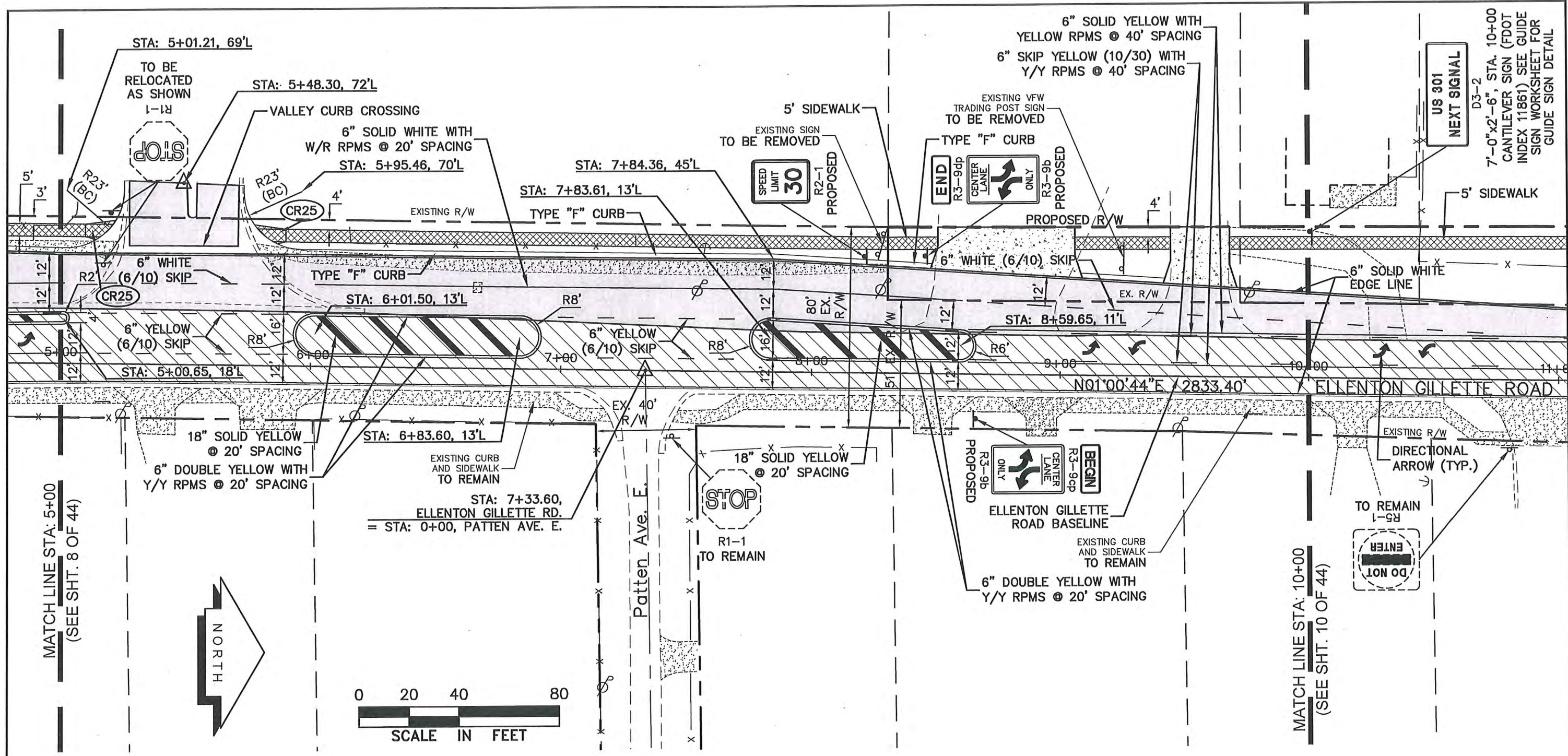
* POSTED SPEED LIMIT FOR SOUTHBOUND APPROACH REDUCED TO 30 MPH TO ACCOMMODATE OFFSET OF THRU LANE AND RECEIVING LANE

PROJECT CONTROL AND STRIPING PLAN
US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS


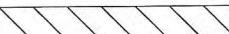
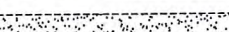


- NOTE:**
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<p>REVISIONS</p> <p>09/2015 FDOT COMMENTS</p> <p>03/2018 COUNTY CHANGE</p>		<p>LOMBARDO, FOLEY & KOLARIK, INC.</p> <p>Consulting Engineers, Surveyors and Planners</p> <p>P.O. Box 38300 • 38th Street West • Palmetto, Florida 34221 • (941) 722-4561</p>		<p>SHEET NO.</p> <p>8</p> <p>44</p>
<p>PROJECT ENGINEER:</p> <p>STATE OF FLORIDA</p> <p>JOHN R. FOLEY</p> <p>38830</p> <p>P.E. REG. NO.</p>		<p>DESIGN <u>JRF.</u> DATE <u>02/19/14</u></p> <p>DRAWN <u>PE.</u> SCALE <u>1"=40'</u></p> <p>APPR <u>JRF.</u> JOB NO. <u>7870</u></p>		

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LEGEND

-  NEW ROADWAY CONSTRUCTION
-  MILLING AND OVERLAY LIMITS
-  EXIST. SIDEWALK
-  PROPOSED SIDEWALK
-  PROPOSED DRIVEWAY

NOTE:

1. ALL SIGNAGE SHALL MEET MUTCD RETRO REFLECTIVITY STANDARDS.
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PROJECT CONTROL AND STRIPING PLAN

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

REVISIONS	09/2015 FDOT COMMENTS

LOMBARDO FOLEY & KOLARIK, INC.
 Consulting Engineers, Surveyors and Planners

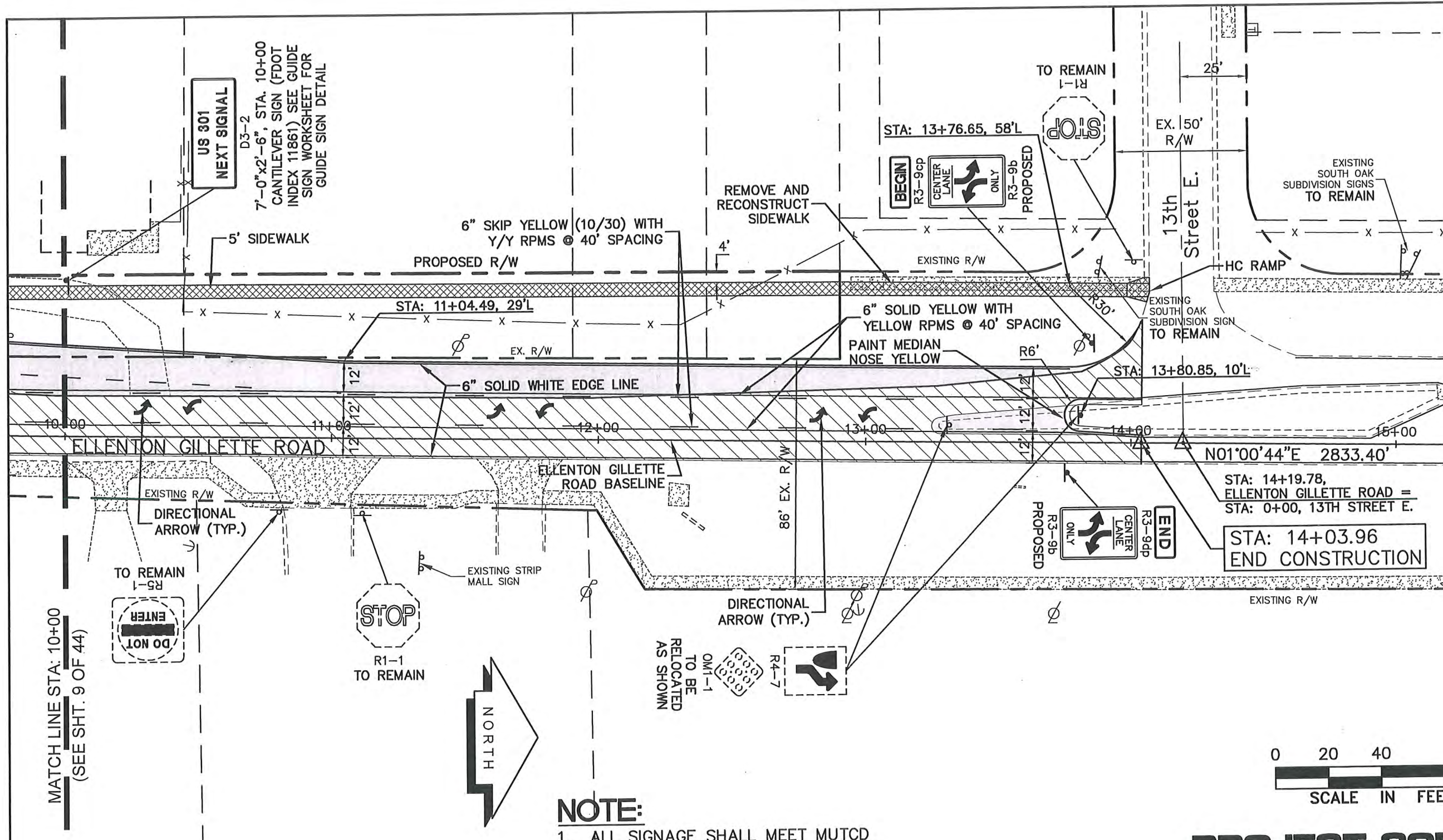
P.O. Box 188, 225 4th Street West • Palmetto, Florida 34221 • (941) 722-4561
 PROJECT ENGINEER
 STATE OF
 JOHN R. FOLEY
 38630
 REG. NO.



DESIGN JRF. DATE 02/19/14
 DRAWN PG. SCALE 1"=40'
 APPR JRF. JOB NO. 7870

SHEET NO.
9 / 44

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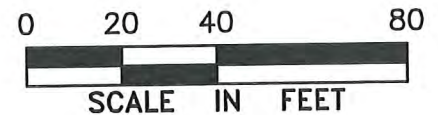


LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- EXIST. SIDEWALK
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY

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**PROJECT CONTROL
AND STRIPING PLAN**

US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS 09/2015 FDOT COMMENTS

COMBARDO, FOLEY & KOLARIK, INC.
Consulting Engineers, Surveyors and Planners
 P. O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

PROJECT ENGINEER
JOHN R. POLE
Professional Engineer
 No. 38630
 P.E. REG. NO.

DESIGN <u>JRF.</u>	DATE <u>02/19/14</u>	SHEET NO. 10
DRAWN <u>PG.</u>	SCALE <u>1"=40'</u>	44
APPR. <u>JRF.</u>	JOB NO. <u>7870</u>	

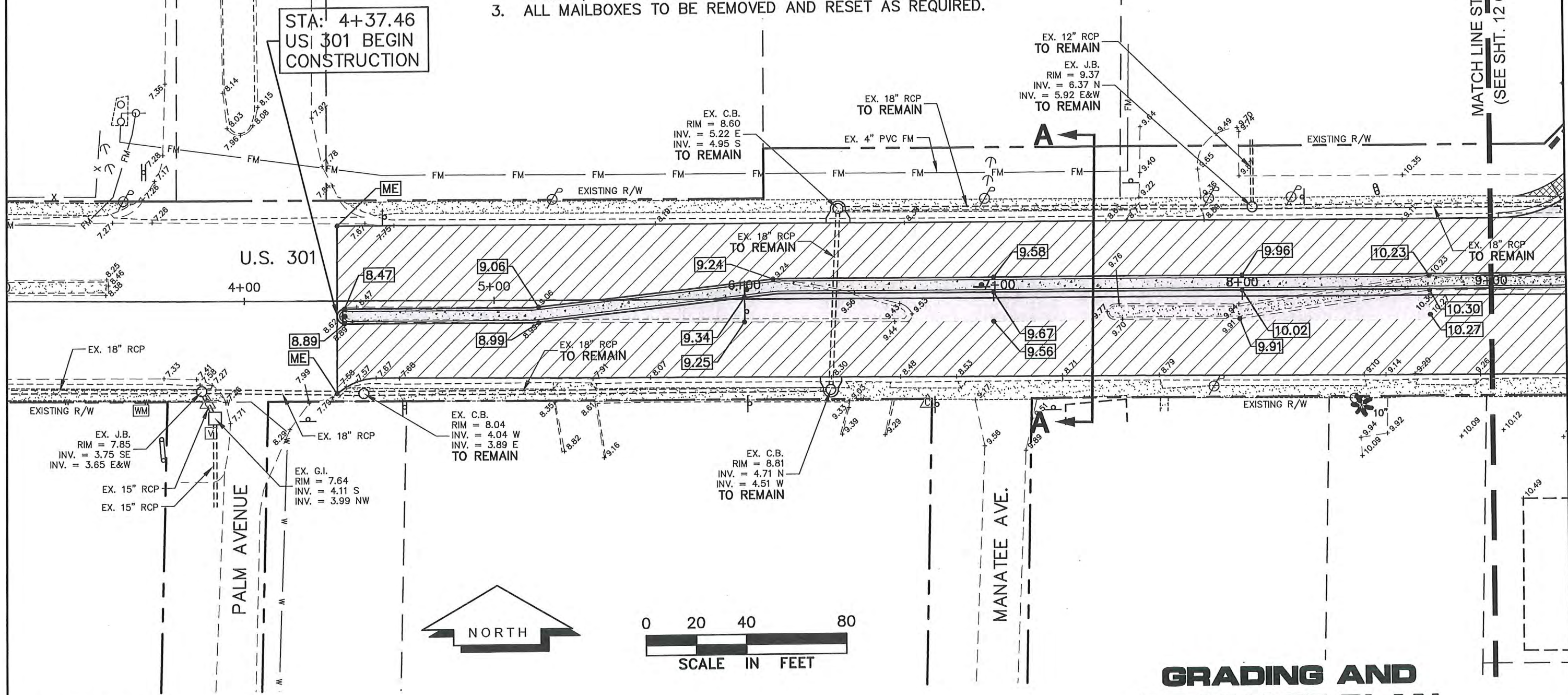
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NOTE:

1. ALL VALVES, METERS, MANHOLE RIMS AND DRAINAGE STRUCTURES TO REMAIN, ARE TO BE ADJUSTED TO MATCH FINAL GRADE.
2. ALL DRAINAGE STRUCTURES AND PIPING NOT SPECIFICALLY NOTED TO REMAIN, ARE TO BE REMOVED.
3. ALL MAILBOXES TO BE REMOVED AND RESET AS REQUIRED.

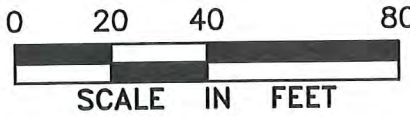
STA: 4+37.46
US 301 BEGIN
CONSTRUCTION

MATCH LINE STA: 9+00
(SEE SHT. 12 OF 44)



LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- PROPOSED GRADE
- EXISTING GRADE
- 8' GRASS SHOULDER
- EXISTING SIDEWALK
- PROPOSED SIDEWALK



- STAKED SILT SCREEN
- MATCH EXISTING
- PROPOSED DRIVEWAY

GRADING AND DRAINAGE PLAN

US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS

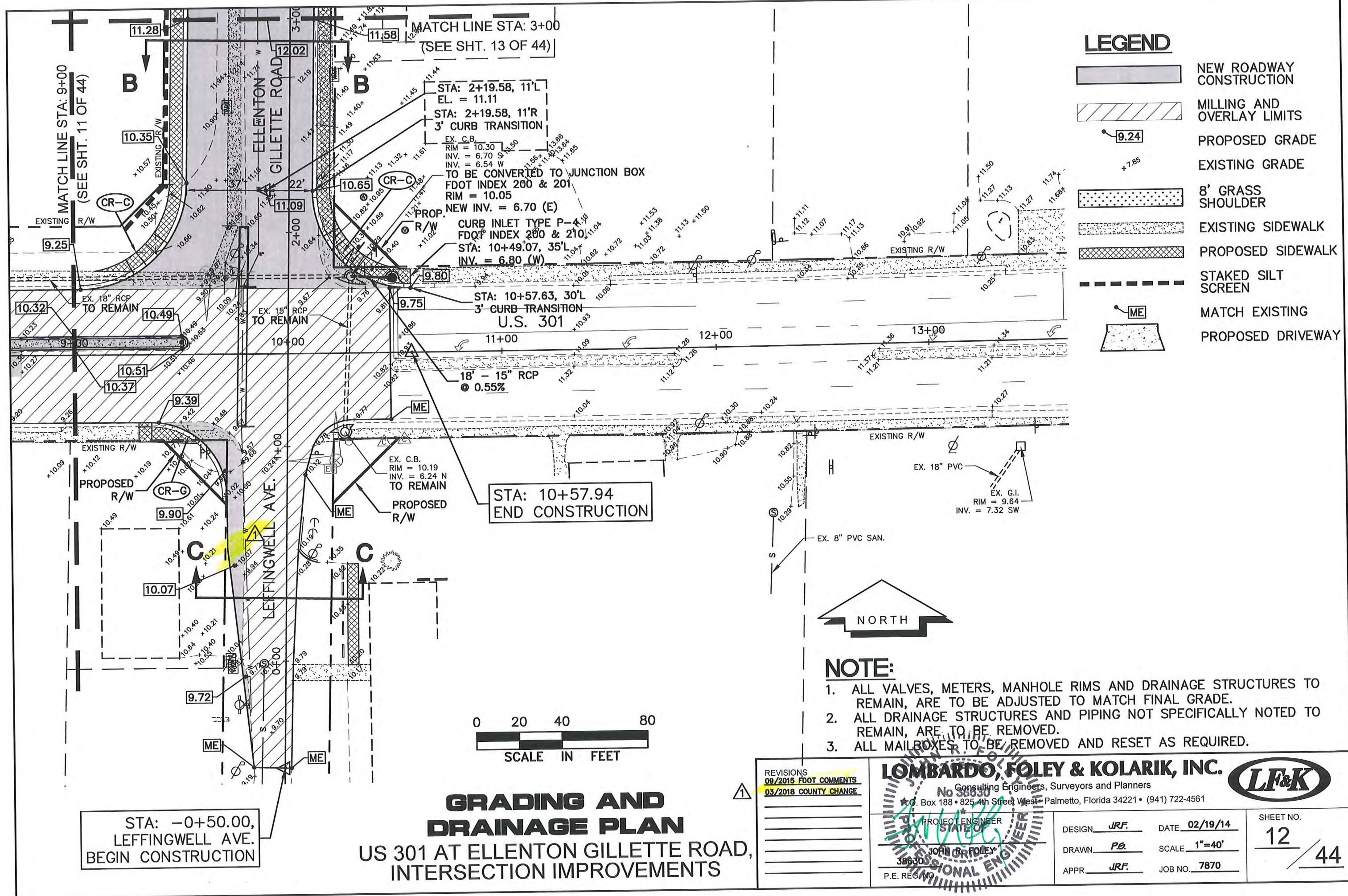
LOMBARDO, FOLEY & KOLARIK, INC.
 Consulting Engineers, Surveyors and Planners
 No. 38630
 P.O. Box 188 • 325 4th Street West • Palmetto, Florida 34221 • (941) 722-4561
 PROJECT ENGINEER
 JOHN R. FOLEY
 P.E. No. 38630

LF&K

DESIGN JRF. DATE 02/19/14
 DRAWN PE. SCALE 1"=40'
 APPR JRF. JOB NO. 7870

SHEET NO.
11 / 44

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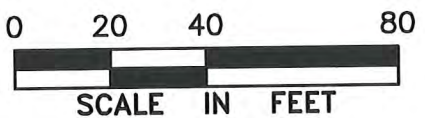


LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- PROPOSED GRADE
- EXISTING GRADE
- 8' GRASS SHOULDER
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- STAKED SILT SCREEN
- MATCH EXISTING
- PROPOSED DRIVEWAY



- NOTE:**
1. ALL VALVES, METERS, MANHOLE RIMS AND DRAINAGE STRUCTURES TO REMAIN, ARE TO BE ADJUSTED TO MATCH FINAL GRADE.
 2. ALL DRAINAGE STRUCTURES AND PIPING NOT SPECIFICALLY NOTED TO REMAIN, ARE TO BE REMOVED.
 3. ALL MAILBOXES TO BE REMOVED AND RESET AS REQUIRED.



GRADING AND DRAINAGE PLAN
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

STA: -0+50.00,
LEFFINGWELL AVE.
BEGIN CONSTRUCTION

STA: 10+57.94
END CONSTRUCTION

REVISIONS

09/2015	FDOT COMMENTS
03/2018	COUNTY CHANGE

LOMBARDO, FOLEY & KOLARIK, INC.

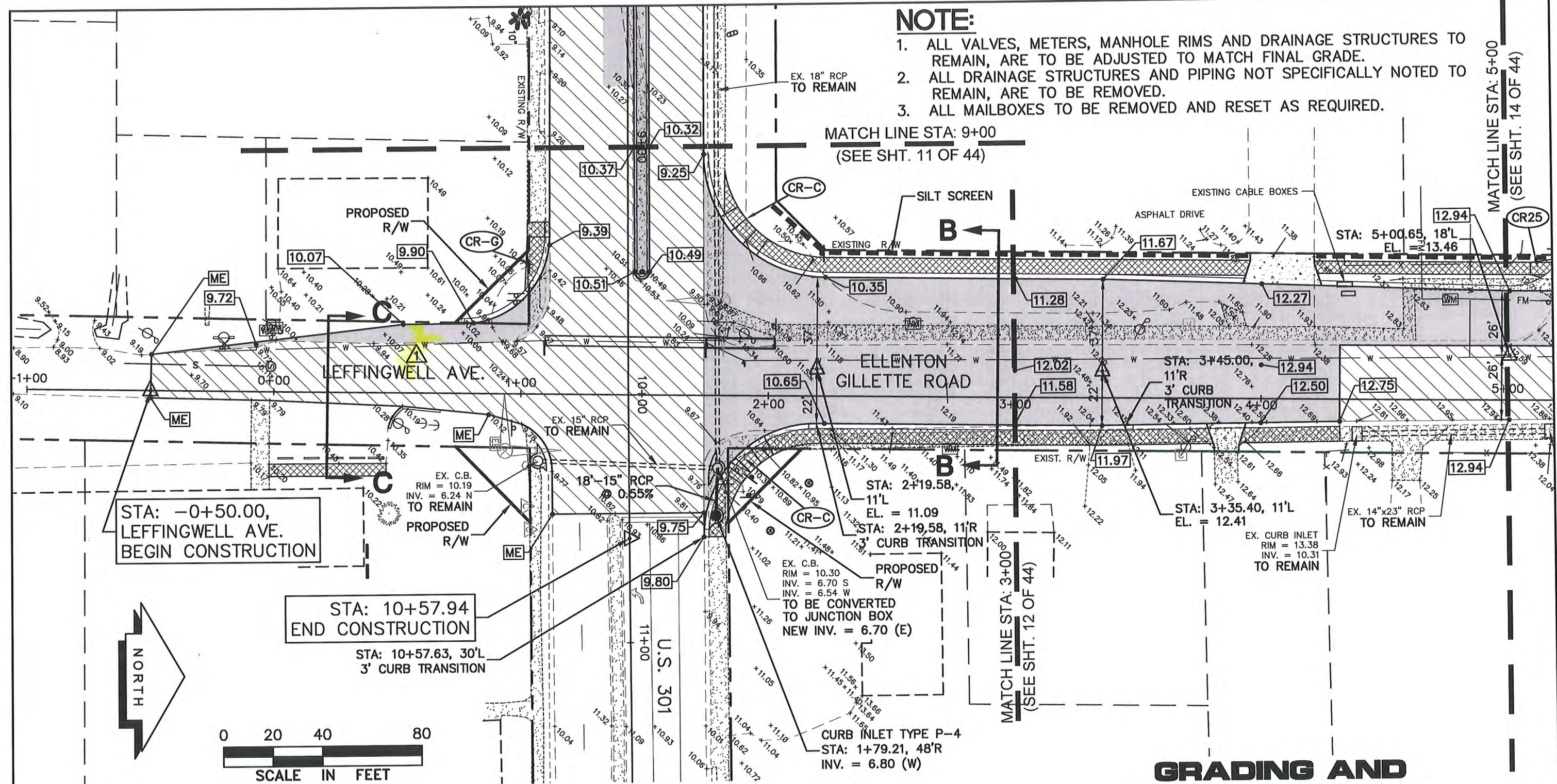
Consulting Engineers, Surveyors and Planners
 P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

DESIGN	JRF.	DATE	02/19/14	SHEET NO. 12 44
DRAWN	PG.	SCALE	1"=40'	
APPR.	JRF.	JOB NO.	7870	

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NOTE:

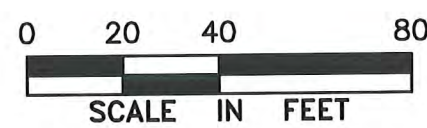
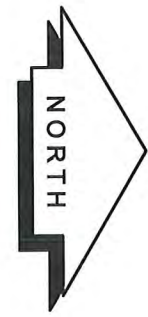
1. ALL VALVES, METERS, MANHOLE RIMS AND DRAINAGE STRUCTURES TO REMAIN, ARE TO BE ADJUSTED TO MATCH FINAL GRADE.
2. ALL DRAINAGE STRUCTURES AND PIPING NOT SPECIFICALLY NOTED TO REMAIN, ARE TO BE REMOVED.
3. ALL MAILBOXES TO BE REMOVED AND RESET AS REQUIRED.



STA: -0+50.00,
LEFFINGWELL AVE.
BEGIN CONSTRUCTION

STA: 10+57.94
END CONSTRUCTION

STA: 10+57.63, 30'L
3' CURB TRANSITION



LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- PROPOSED GRADE
- EXISTING GRADE
- 8' GRASS SHOULDER
- EXISTING SIDEWALK
- PROPOSED SIDEWALK

- STAKED SILT SCREEN
- MATCH EXISTING
- PROPOSED DRIVEWAY

REVISIONS
03/2018 COUNTY CHANGE

GRADING AND DRAINAGE PLAN

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

LOMBARDO, FOLEY & KOLARIK, INC.

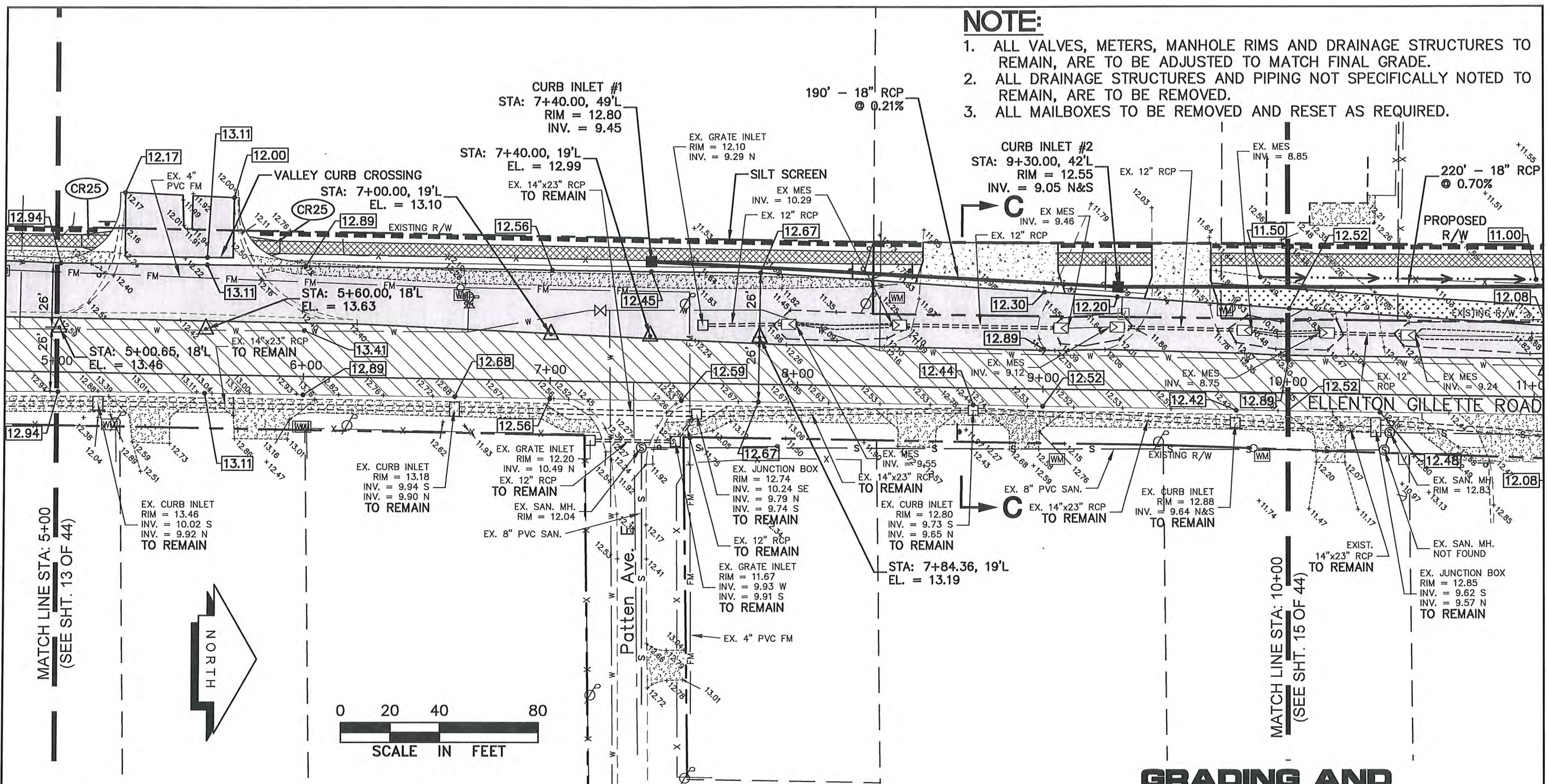
No. 38630 Consulting Engineers, Surveyors and Planners
P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

DESIGN JRF.	DATE 02/19/14	SHEET NO. 13 44
DRAWN PE.	SCALE 1"=40'	
APPR JRF.	JOB NO. 7870	

PROFESSIONAL ENGINEER
JOHN R. FOLEY
P.E. REG. NO. 38630

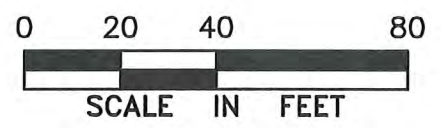
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2. ALL DRAINAGE STRUCTURES AND PIPING NOT SPECIFICALLY NOTED TO REMAIN, ARE TO BE REMOVED.
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MATCH LINE STA: 5+00
(SEE SHT. 13 OF 44)

MATCH LINE STA: 10+00
(SEE SHT. 15 OF 44)



LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- PROPOSED GRADE
- EXISTING GRADE
- 8' GRASS SHOULDER
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- STAKED SILT SCREEN
- MATCH EXISTING
- PROPOSED DRIVEWAY

GRADING AND DRAINAGE PLAN

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

REVISIONS

LOMBARDO, FOLEY & KOLARIK, INC.
 Consulting Engineers, Surveyors and Planners
 P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

PROJECT ENGINEER

 JOHN R. FOLEY
 P.E. REG. NO. 38530

DESIGN JRF DATE 02/19/14

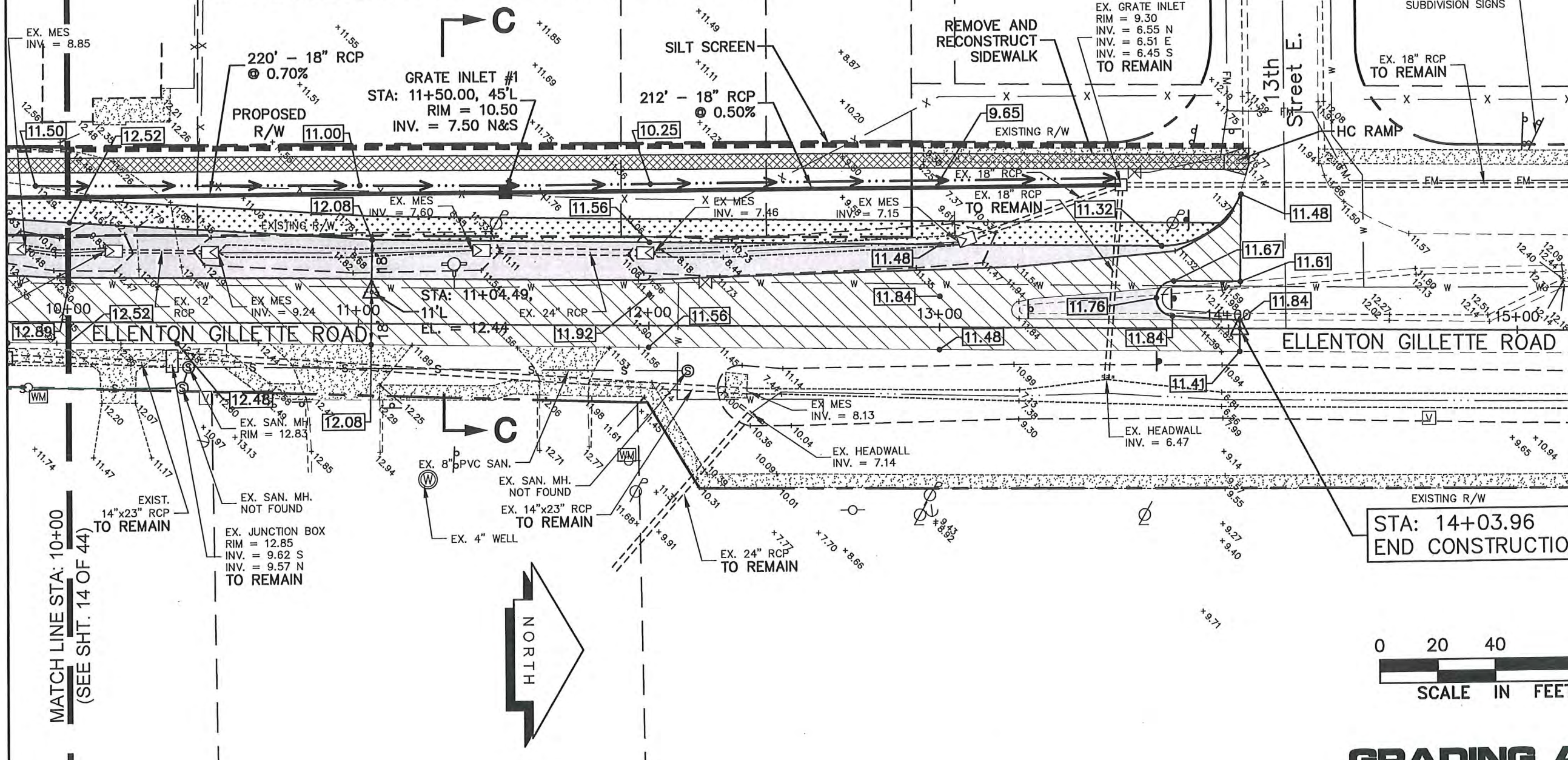
DRAWN PE SCALE 1"=40'

APPR JRF JOB NO. 7870

SHEET NO.
14 / 44

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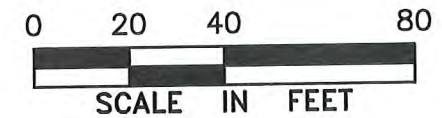
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LEGEND

- NEW ROADWAY CONSTRUCTION
- MILLING AND OVERLAY LIMITS
- PROPOSED GRADE
- EXISTING GRADE
- 8' GRASS SHOULDER
- EXISTING SIDEWALK
- PROPOSED SIDEWALK

- STAKED SILT SCREEN
- MATCH EXISTING
- PROPOSED DRIVEWAY



GRADING AND DRAINAGE PLAN

US 301 AT ELLENTON GILLETTE ROAD, INTERSECTION IMPROVEMENTS

REVISIONS

LOMBARDO, FOLEY & KOLARIK, INC.
 Consulting Engineers, Surveyors and Planners
 P.O. Box 1369823 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

PROJECT ENGINEER
 JOHN R. FOLEY
 38630
 P.E. REG. FLORIDA

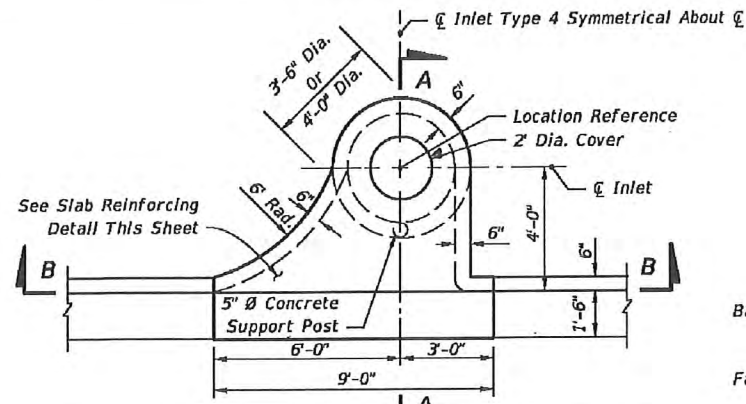
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DESIGN JRF. DATE 02/19/14
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 APPR. JRF. JOB NO. 7870

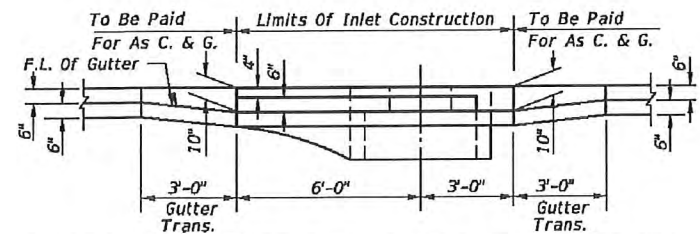
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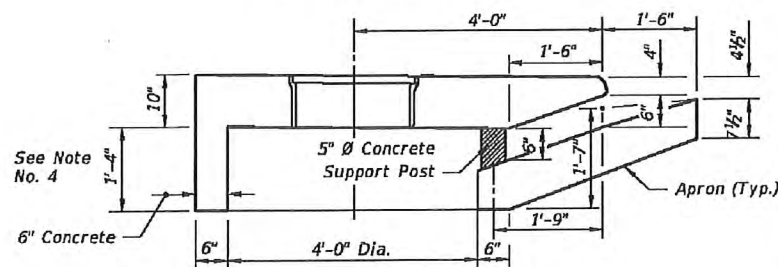
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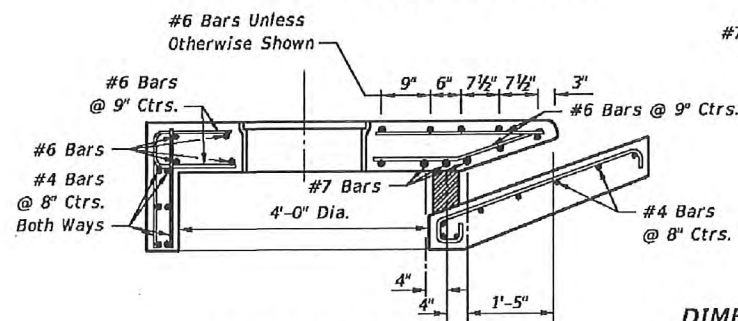
PLAN (INLET TYPE 4 SYMMETRICAL ABOUT Q)



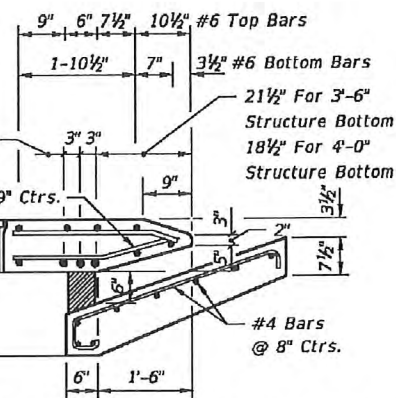
SECTION BB (INLET TYPE 4 SYMMETRICAL ABOUT Q)
INLETS TYPES 3 AND 4



DIMENSIONAL SECTION



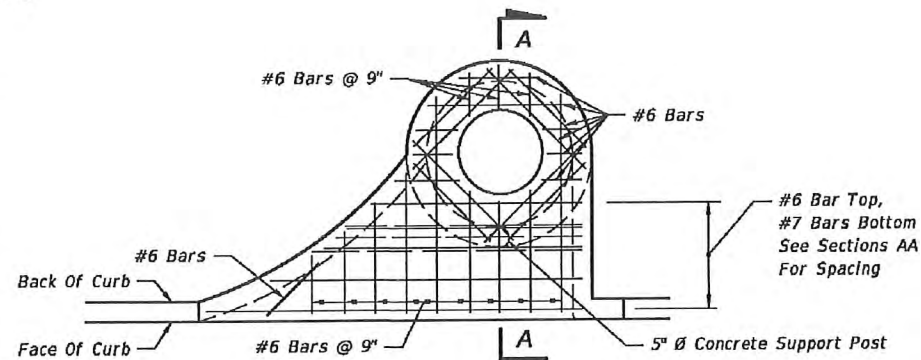
REINFORCING SECTION
4'-0" DIA. STRUCTURE BOTTOM (SECTION AA)



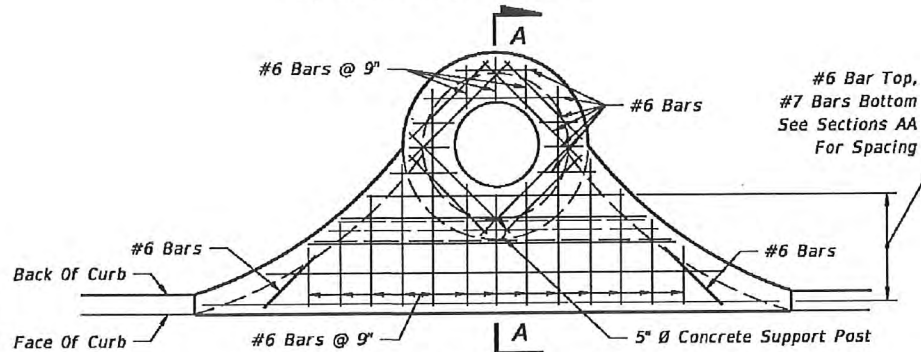
DIMENSION & REINFORCING HALF SECTION
TYPES A & E CURB (HALF SECTION AA)
(TYPE E GUTTER SHOWN)

CURB INLET TOPS, TYPE 4

NTS



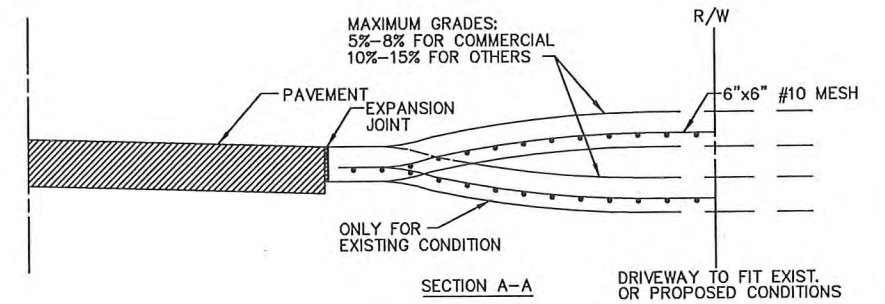
INLETS TYPES 1 AND 3



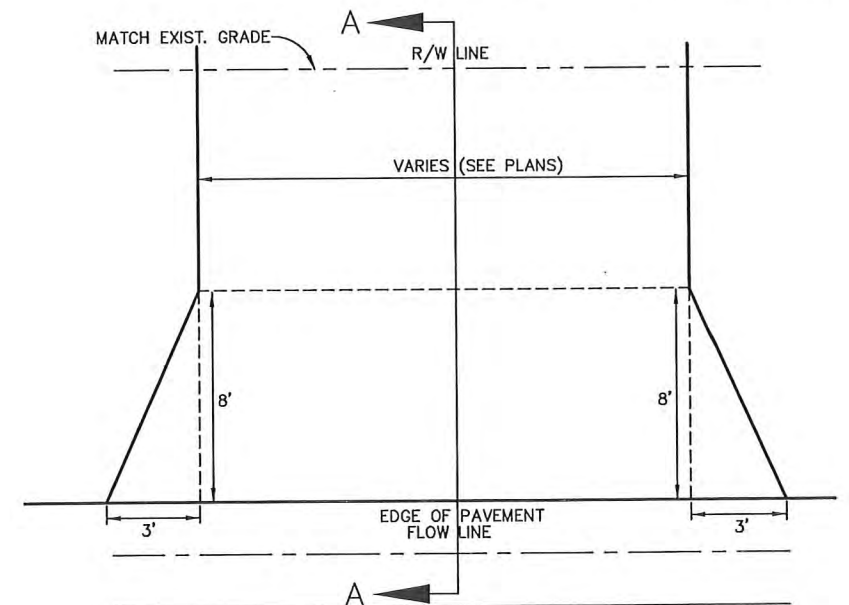
INLETS TYPES 2 AND 4
SLAB REINFORCING

GENERAL NOTES

1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
3. All steel in inlet top shall have 1 1/4 inch minimum cover unless otherwise shown. Inlet tops shall be either cast-in-place or precast concrete.
4. For precast units the rear wall and apron may be precast as a separate piece from the top slab. Provide a minimum of 7 - #4 dowels in accordance with Index No. 201 "OPTIONAL CONSTRUCTION JOINTS".
5. For supplemental details see Index No. 201.
6. Only round concrete support post will be acceptable.
7. These inlets are designed for use with standard curb and gutter Types E and Type F. Locate inlet outside of pedestrian crosswalks.
8. For structure bottoms see Index No. 200.
9. Inlet to be paid for under the contract unit price for inlets (Curb) (Type_), Each.



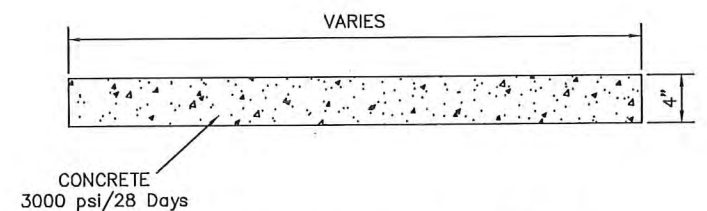
SECTION A-A



PLAN VIEW

- (A) CONSTRUCT WITH 6" REINFORCED CONCRETE, 6"x6" #10 WIRE MESH FROM EDGE OF PAVEMENT TO R/W LINE.
- (B) EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12" (BEYOND FLARE) PLACE JOINT ON 10" CENTER.

DRIVEWAYS



TYPE "A" SIDEWALK DETAIL

NTS

GRADING AND DRAINAGE DETAILS
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS

LOMBARDO, FOLEY & KOLARIK, INC.
Consulting Engineers, Surveyors and Planners
P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (841) 722-4561



PROJECT ENGINEER
JOHN R. FOLEY
FLORIDA PROFESSIONAL ENGINEER
PE REG. NO. 36630

DESIGN	JRF.	DATE	03/31/14
DRAWN	P.G.	SCALE	NONE
APPR.	JRF.	JOB NO.	7870

SHEET NO.
16
44

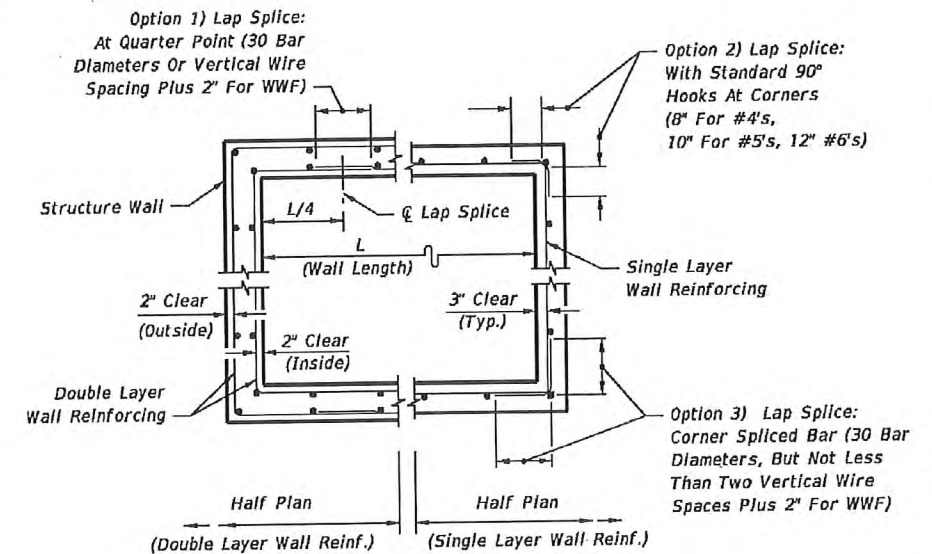
WALL DESIGNS - RECTANGULAR STRUCTURES (TABLE 8)

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE	
SIZE: 3'-6" & RISERS				
≥1.17' - 40'	A12	≥1.17' < 10'	B10	6"/8"
		10' < 18'	B5.5	6"/8"
		18' < 29'	C6.5	6"/8"
		29' - 40'	C3.5	6"/8"
SIZE: 4'-0"				
≥1.17' - 40'	A12	≥1.17' < 6'	B10	6"/8"
		6' < 10'	B5.5	6"/8"
		10' < 20'	C6.5	6"/8"
		20' < 28'	C3.5	6"/8"
		28' - 40'	D4.5	6"/8"
SIZE: 5'-0"				
≥1.17' - 40'	A12	≥1.17' < 5'	B5.5	6"/8"
		5' < 9'	C6.5	6"/8"
		9' < 15'	C3.5	6"/8"
		15' < 22'	D4.5	6"/8"
		22' - 40'	E3	8"
SIZE: 6'-0"				
≥1.17' < 26'	A12	≥1.17' < 9'	C3.5	6"/8"
		9' < 15'	D4.5	6"/8"
		15' < 26'	E3	8"
26' - 40'	A12	26' - 40'	D7	8"
SIZE: 7'-0"				
≥1.17' < 25'	A12	≥1.17' < 7'	B10	8"
26' - 40'	B10	7' < 10'	B5.5	8"
		10' < 20'	C6.5	8"
		20' < 30'	D7	8"
		30' - 40'	E5	8"
SIZE: 8'-0"				
≥1.17' < 20'	A12	≥1.17' < 6'	B5.5	8"
20' - 40'	C6.5	6' < 13'	C6.5	8"
		13' < 22'	D7	8"
		22' < 31'	E5	8"
		31' - 40'	F5	8"
SIZE: 9'-0"				
≥1.17' < 12'	A12	≥1.17' < 8'	C6.5	8"
12' < 28'	C6.5	8' < 15'	D7	8"
28' - 40'	D7	15' < 23'	E5	8"
		23' - 40'	F5	8"
SIZE: 10'-0"				
≥1.17' < 10'	B10	≥1.17' < 10'	D7	8"
10' < 21'	C6.5	10' < 17'	E5	8"
21' < 26'	D7	17' < 26'	F5	8"
26' - 40'	C6.5	26' - 40'	F5	10"

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE	
SIZE: 10'-0" (Precast Only)				
26' - 40'	D7	D7	F5	9"
SIZE: 12'-0"				
≥1.17' < 14'	B10	≥1.17' < 10'	C6.5	10"
14' < 25'	C6.5	10' < 17'	D7	10"
25' - 40'	D7	17' < 24'	E5	10"
		24' - 40'	F5	10"
SIZE: 12'-0" (Precast Only)				
≥1.17' < 12'	B10	≥1.17' < 10'	D7	9"
12' < 24'	C6.5	10' < 17'	D4.5	9"
24' - 40'	D7	17' < 23'	E5	9"
		23' < 32'	F5	9"
		32' - 40'	G5	9"
SIZE: 16'-0"				
≥1.17' < 11'	C6.5	≥1.17' < 13'	D7	10"
11' < 20'	D7	13' < 20'	E5	10"
20' < 28'	E5	20' < 28'	F5	10"
28' - 40'	F5	28' - 40'	G5	10"
SIZE: 16'-0" (Precast Only)				
≥1.17' < 10'	C6.5	≥1.17' < 9'	D7	9"
10' < 18'	D7	9' < 13'	D4.5	9"
18' < 25'	E5	13' < 19'	E5	9"
25' - 35'	F5	19' < 27'	F5	9"
		27' - 35'	G5	9"
SIZE: 20'-0"				
≥1.17' < 10'	C6.5	≥1.17' < 8'	D7	10"
10' < 17'	D7	8' < 12'	E5	10"
17' - 30'	E5	12' < 20'	F5	10"
		20' - 30'	G5	10"
SIZE: 20'-0" (Precast Only)				
≥1.17' < 8'	C6.5	≥1.17' < 8'	D4.5	9"
8' < 13'	D7	8' < 12'	E5	9"
13' - 25'	E5	12' < 19'	F5	9"
		19' - 25'	G5	9"

SCHEDULE	REINFORCING SCHEDULE			
	GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING			
	GRADE 60 AREA (in. ² /ft.)	MAXIMUM SPACING		
GR 60 BARS (in.)		65 KSI (in.)	70 KSI (in.)	
A12	0.20	12	8	8
A6	0.20	6	5	4 1/2
B10	0.24	10	8	7 1/2
B5.5	0.24	5 1/2	5	4
C6.5	0.37	6 1/2	6	5
C3.5	0.37	3 1/2	3	2 1/2
D7	0.53	7	6	5
D4.5	0.53	4 1/2	4	3 1/2
E5	0.73	5	4	4
E3	0.73	3	3	3
F5	1.06	5	4	4
F3.5	1.06	3 1/2	3	3
G5	1.45	5	4	4
G.3.5	1.45	3 1/2	3	3
H4	1.75	4	3	3

*Equivalent Area Welded Wire Reinforcing may be substituted in accordance with Index No. 201, Sheet 4.



STRUCTURE BOTTOMS TYPE J AND P

NTS

GRADING AND DRAINAGE DETAILS
 US 301 AT ELLENTON GILLETTE ROAD,
 INTERSECTION IMPROVEMENTS

REVISIONS

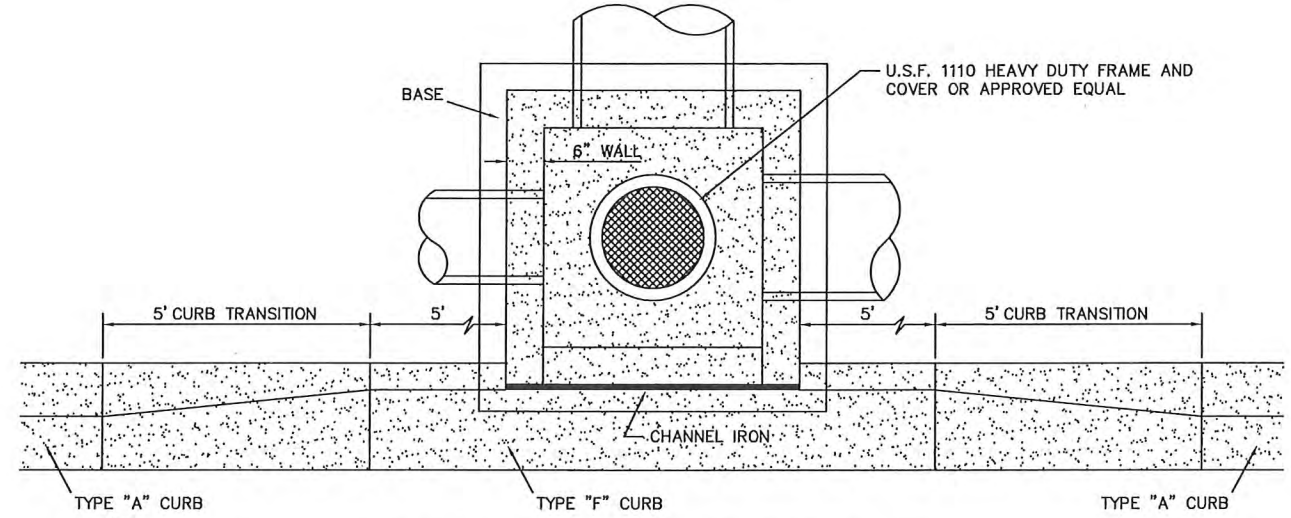
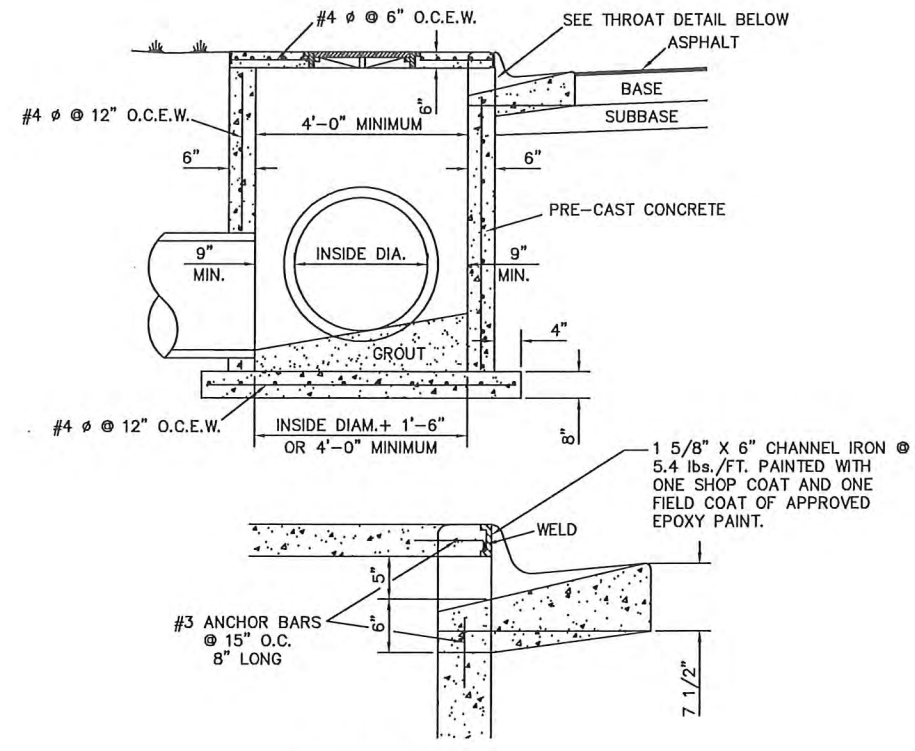
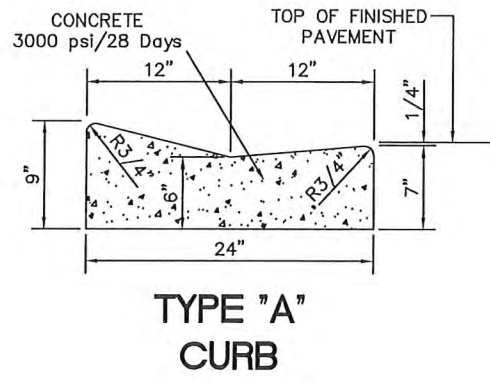
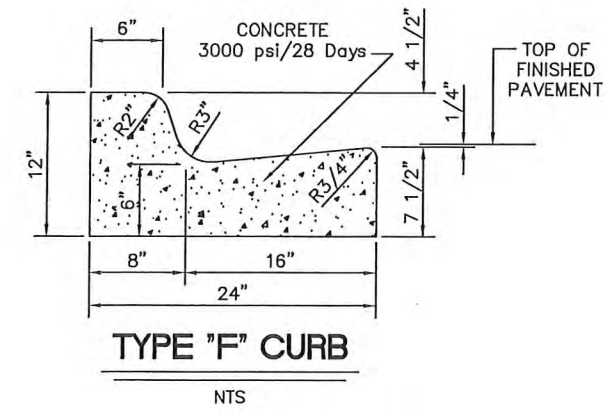
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APPR.	JRF.	JOB NO.	7870

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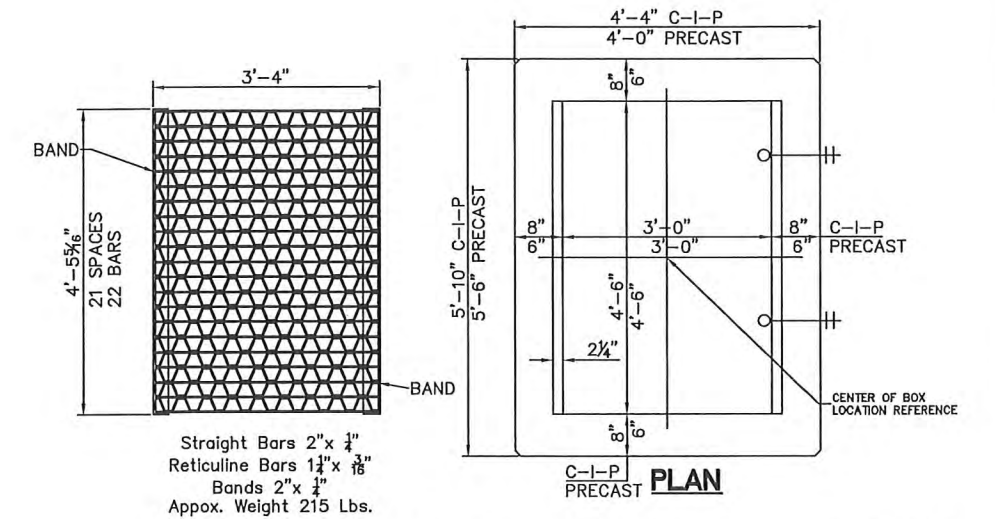
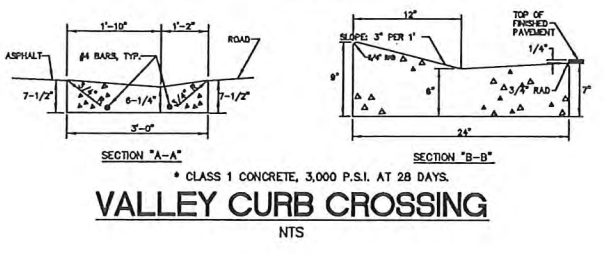
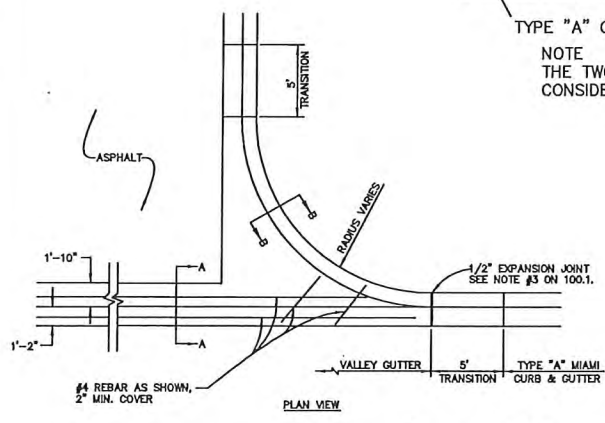
PROJECT ENGINEER
 JOHN R. FOLEY
 38630
 PE REG. NO.

SHEET NO.
 17 / 44

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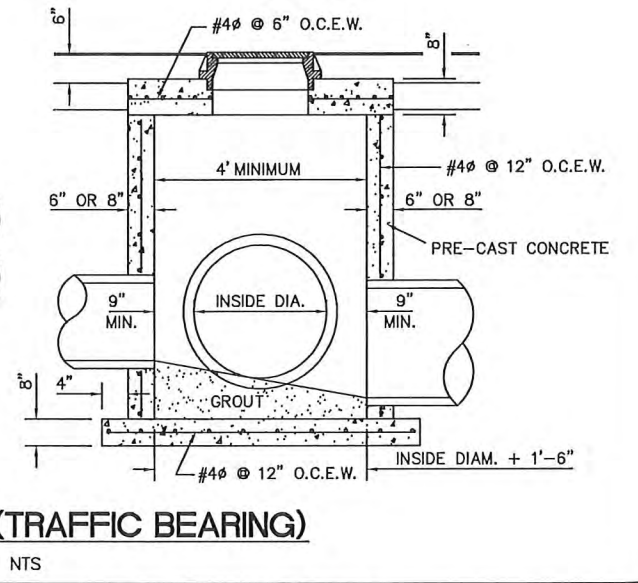
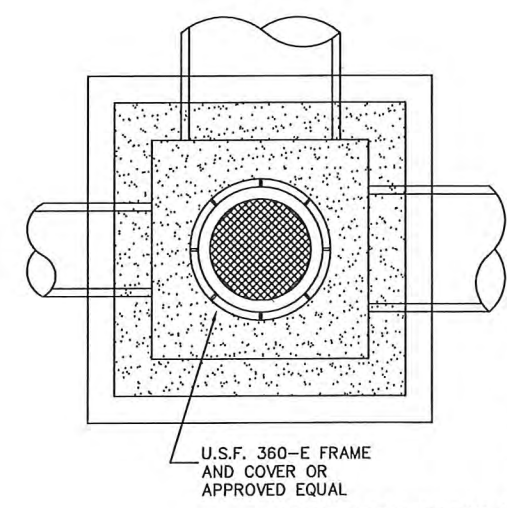
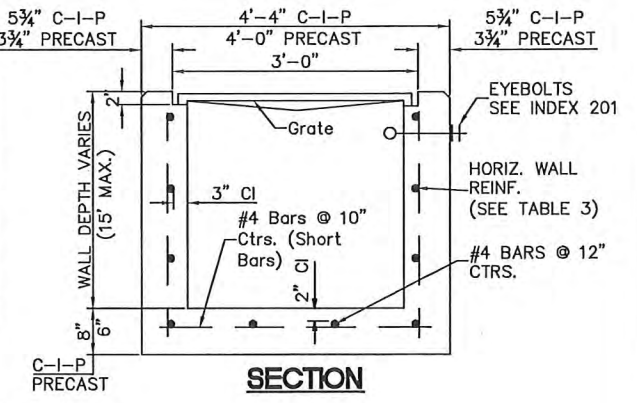


NOTE
THE TWO 5' TRANSITION CURBS AND THE 10' TYPE "F" CURB IN FRONT OF THE BOX ARE TO BE CONSIDERED AS TYPE "F" CURB IN COMPUTING TOTAL QUANTITIES



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

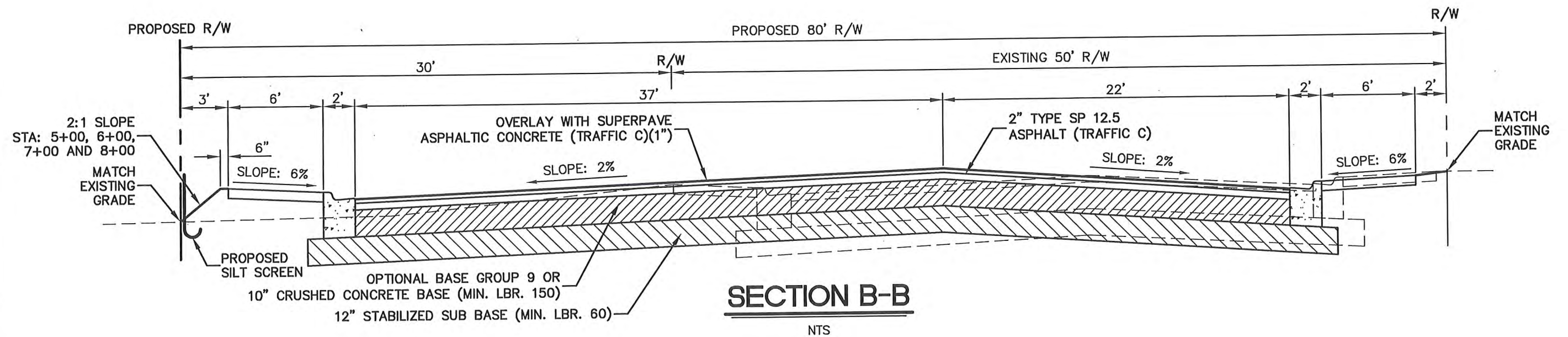
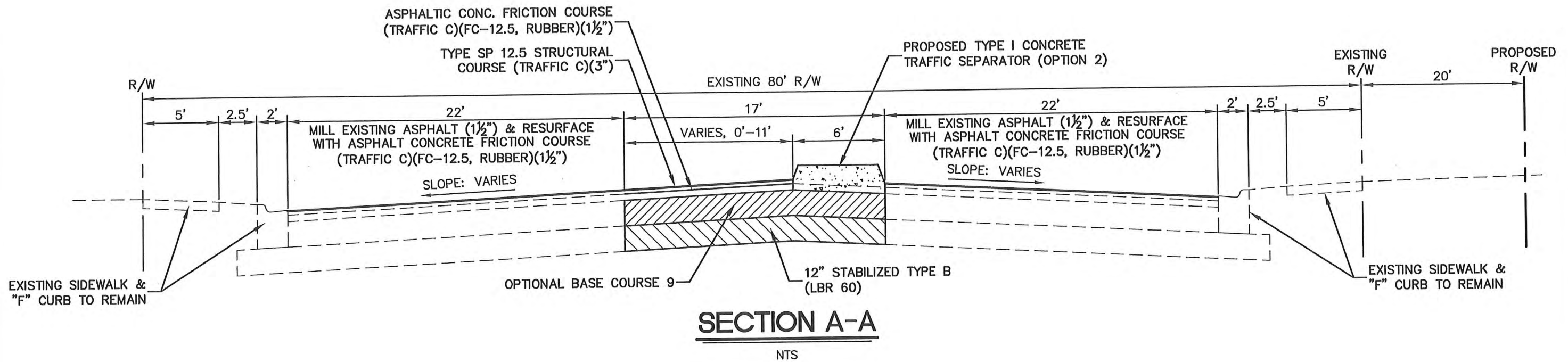
WALL DEPTH	SCHEDULE	AREA (IN/FT)	MAX. SPACING BARS	WWF
0'-5'	A12	0.20	12"	8"
5'-7.5'	A6	0.20	6"	5"
7.5'-10'	B5.5	0.24	5 1/2"	5"
10'-15'	C6.5	0.37	5 1/2"	6"



GRADING AND DRAINAGE DETAILS
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS _____ _____ _____ _____ _____	LOMBARDO FOLEY & KOLARIK, INC. Consulting Engineers, Surveyors and Planners P.O. Box 188 • 825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561		
	PROJECT ENGINEER STATE OF FLORIDA JOHN R. FOLEY 38870 P.E. REG. NO.		
	DESIGN <u>JRF.</u>	DATE <u>03/31/14</u>	SHEET NO. 18 44
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	APPR. <u>JRF.</u>	JOB NO. <u>7870</u>	

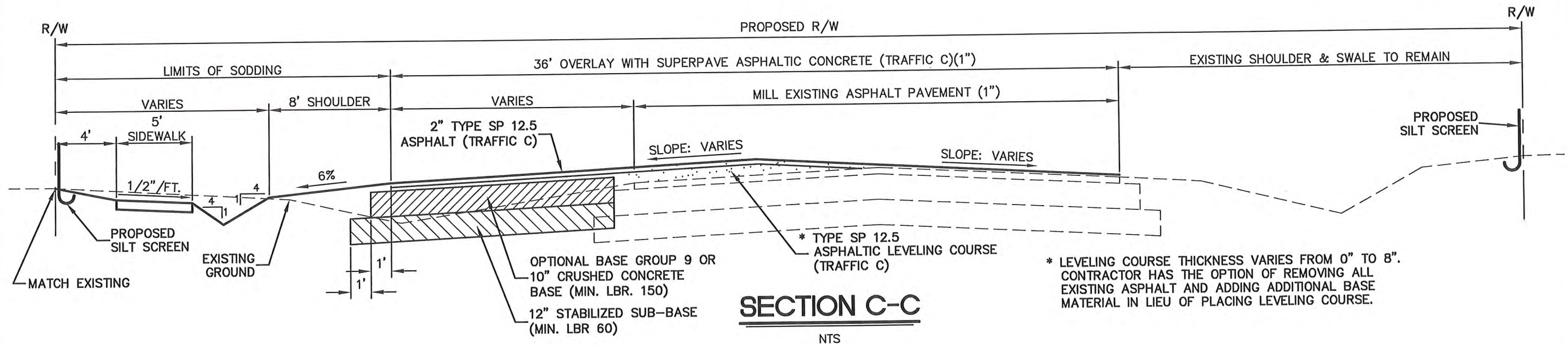
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TYPICAL SECTIONS
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

<p>REVISIONS</p> <table border="1" style="width: 100%; height: 40px;"> <tr><td style="width: 50px;"> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>															<p>LOMBARDO, FOLEY & KOLARIK, INC. Consulting Engineers, Surveyors and Planners P.O. Box 38894 • 3825 4th Street West • Palmetto, Florida 34221 • (941) 722-4561</p> <p>PROJECT ENGINEER: STATE OF JOHN R. FOLEY 38630 PE REG. NO.</p>	<p>DESIGN <u>JRF.</u> DATE <u>03/29/14</u> DRAWN <u>PB.</u> SCALE <u>AS SHOWN</u> APPR. <u>JRF.</u> JOB NO. <u>7870</u></p>	<p>SHEET NO. 19 44</p>

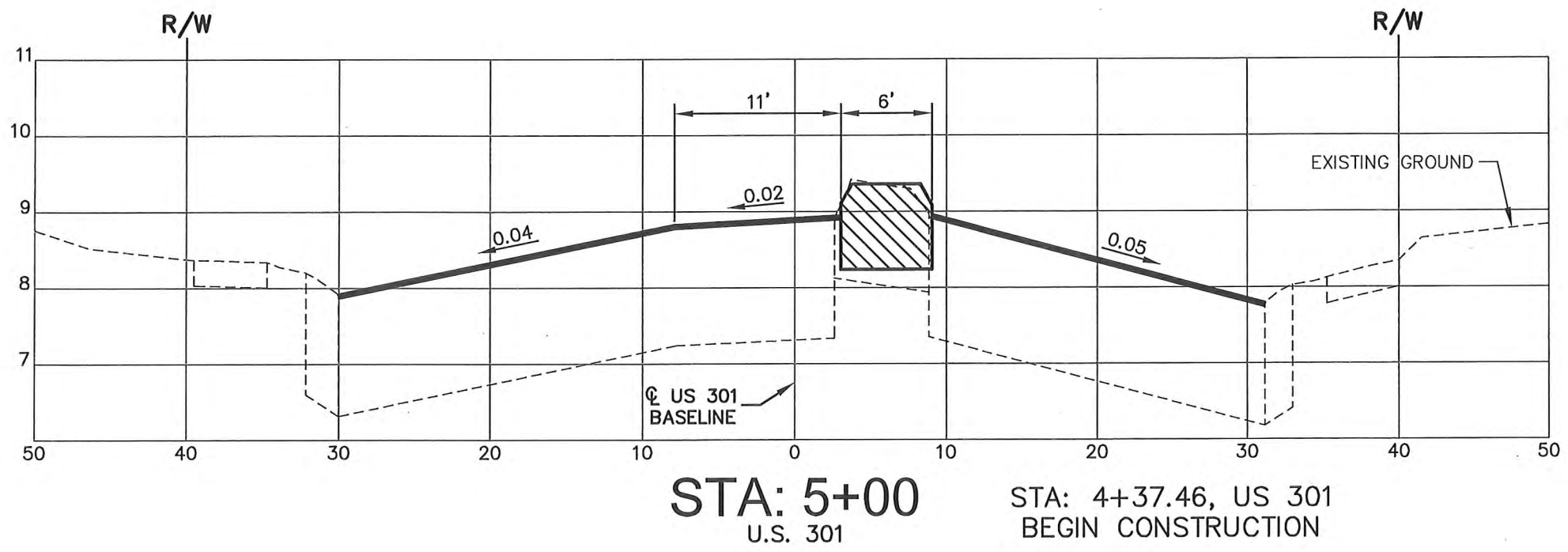
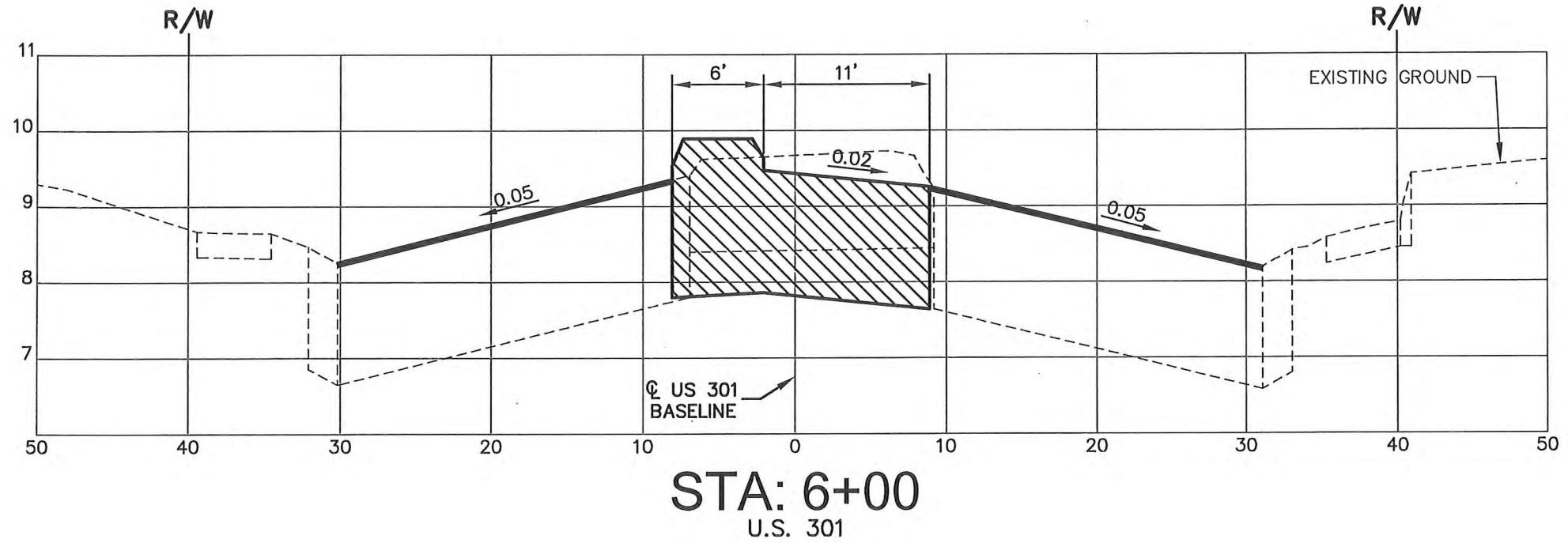
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TYPICAL SECTIONS
 US 301 AT ELLENTON GILLETTE ROAD,
 INTERSECTION IMPROVEMENTS

REVISIONS _____ _____ _____ _____ _____	LOMBARDO, FOLEY & KOLARIK, INC. Consulting Engineers, Surveyors and Planners P.O. Box 1400 8250B Street West Palmetto, Florida 34221 • (941) 722-4561		SHEET NO. 20 / 44
	PROJECT ENGINEER STATE OF JOHN R. FOLEY 38630 P.E. REG. NO.	DESIGN <u>JRF.</u> DATE <u>03/29/14</u> DRAWN <u>P.E.</u> SCALE <u>AS SHOWN</u> APPR. <u>JRF.</u> JOB NO. <u>7870</u>	
	P.E. REG. NO.		

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CROSS SECTIONS
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS	09/2015 FDOT COMMENTS

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PROJECT ENGINEER
STATE OF FLORIDA
JOHN R. FOLEY
38830
P.E. REG. NO.

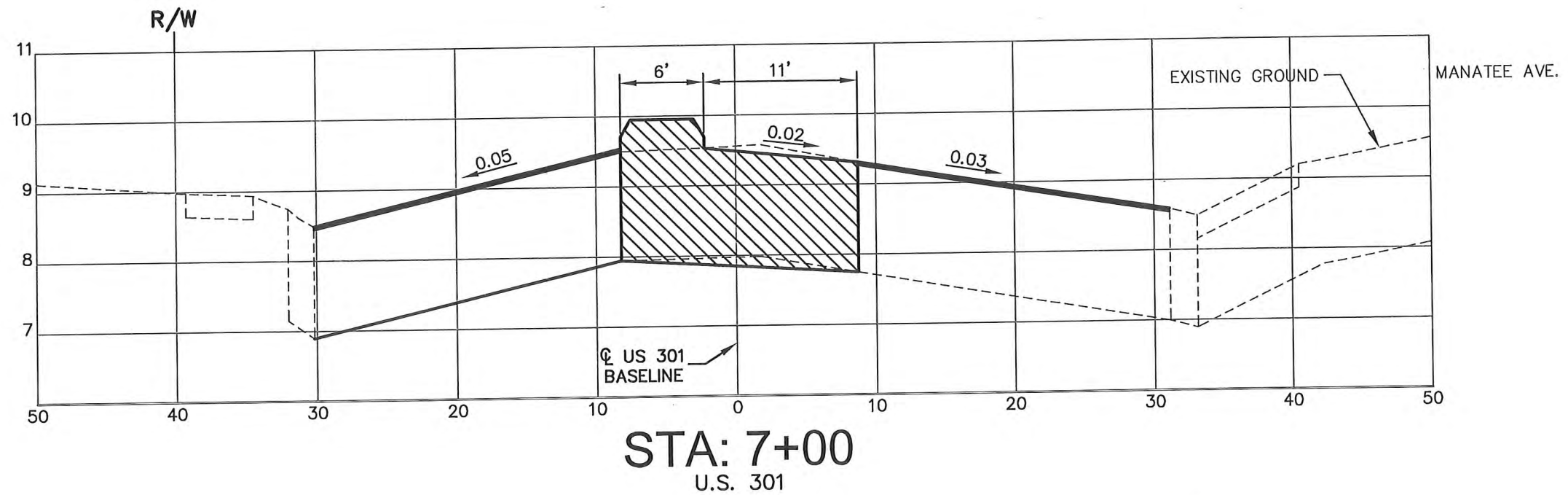
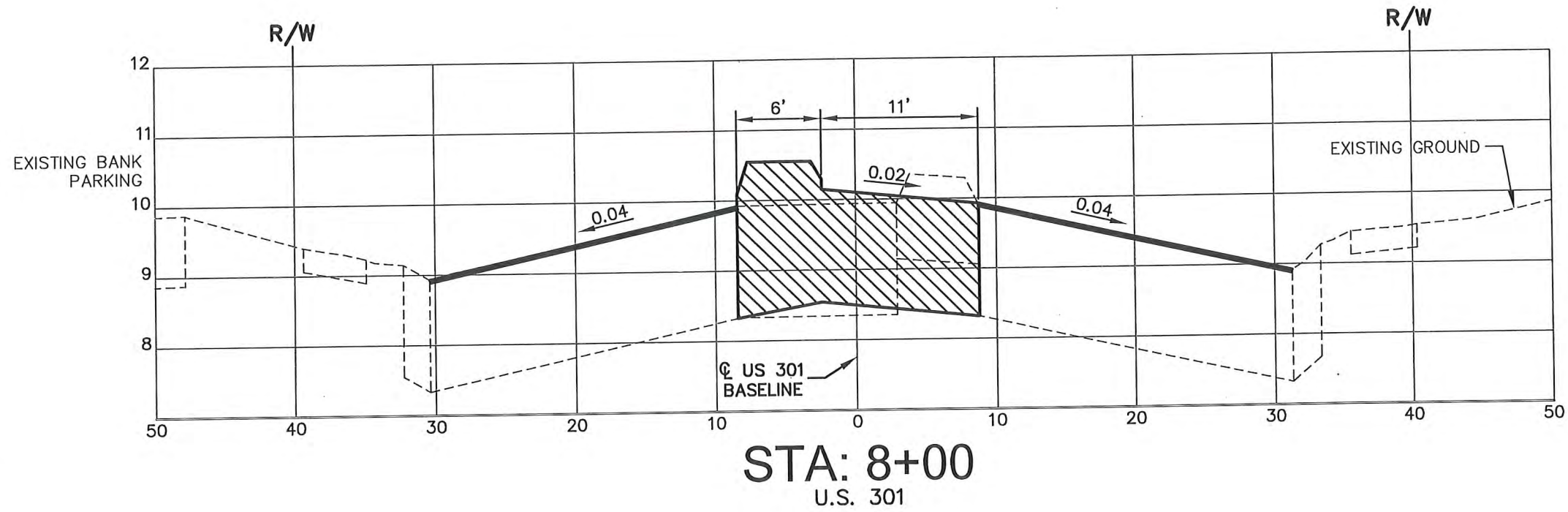
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DRAWN P.E. SCALE 1"=10'H
1"=2' V

APPR JRF. JOB NO. 7870

SHEET NO.
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CROSS SECTIONS
US 301 AT ELLENTON GILLETTE ROAD,
INTERSECTION IMPROVEMENTS

REVISIONS
09/2015 FDOT COMMENTS

LOMBARDO, FOLEY & KOLARIK, INC.

Consulting Engineers, Surveyors and Planners
P.O. Box 183 • 3250 4th Street West • Palmetto, Florida 34221 • (941) 722-4561

PROJECT ENGINEER
STATE OF
JOHN R. FOLEY
38630
P.E. REG. NO.

DESIGN JRF. DATE 03/14/14
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SHEET NO.
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