



**CONTRACT DRAWINGS**  
**44TH AVENUE EAST**  
**FROM 19TH STREET COURT EAST TO 30TH STREET EAST**  
**FOR**  
**MANATEE COUNTY, FLORIDA**  
**COUNTY PROJECT NUMBER: 6045660**

**RELATED STANDARDS AND SPECIFICATIONS**

DESCRIPTION

- A. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2014).
- B. MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS, FLORIDA DEPARTMENT OF TRANSPORTATION, (FLORIDA GREEN BOOK), (2011).
- C. FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, (JANUARY 2014).
- D. AASHTO, GUIDE FOR PLANNING, DESIGN, AND OPERATION OF PEDESTRIAN FACILITIES, (2004).
- E. FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), (2009).
- F. CHAPTER 14-96 AND 14-97, FLORIDA ADMINISTRATIVE CODE RULE FOR FDOT CONNECTION PERMIT.
- G. SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMITTING (ERP) INFORMATION MANUAL, LATEST EDITION
- H. MANATEE COUNTY HIGHWAY, TRAFFIC AND STORM WATER STANDARDS, (2007).

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

**UTILITY WARNING NOTE**

ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.

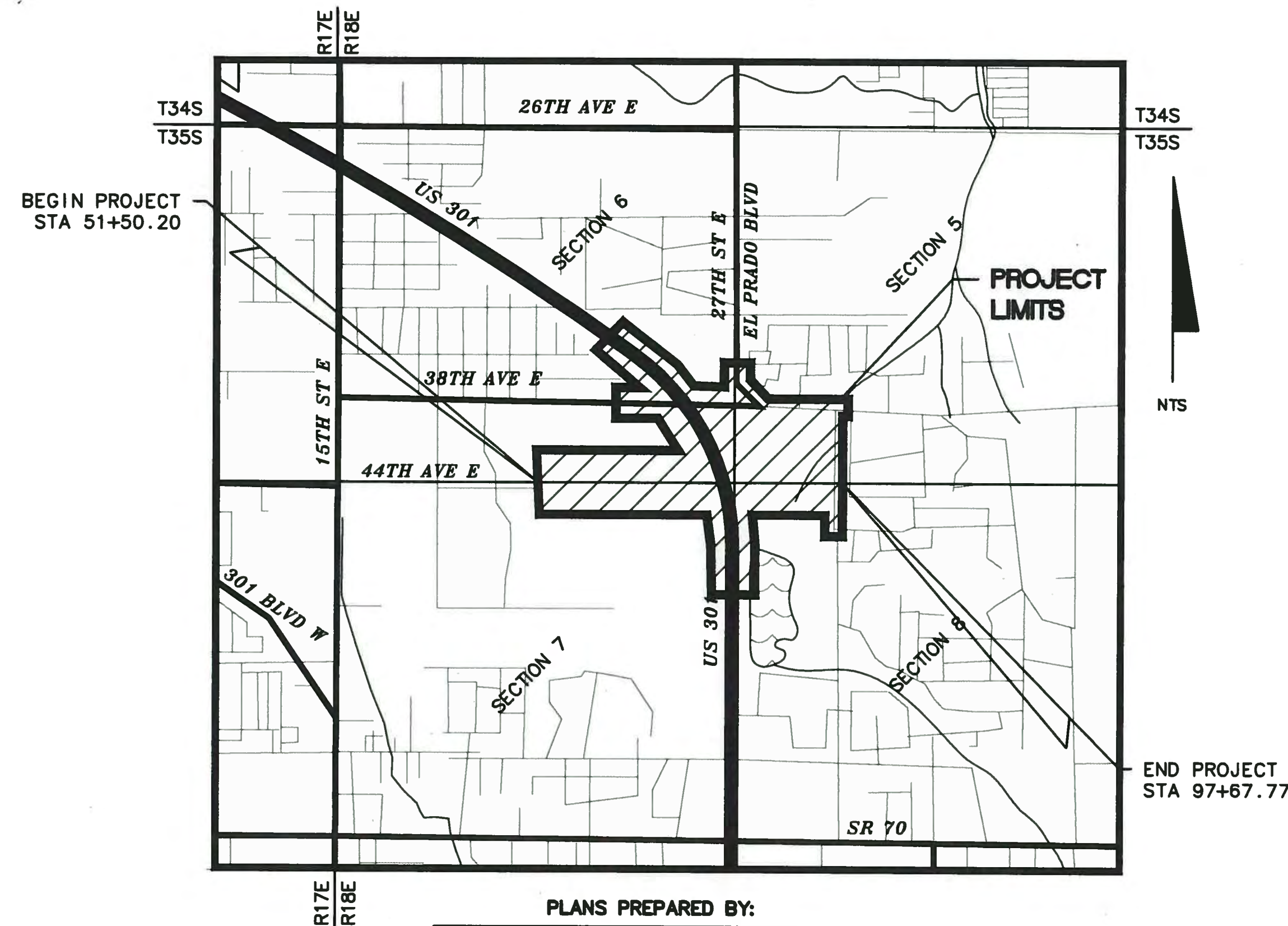
**SUMMARY OF REVISIONS**

DATE	DESCRIPTION

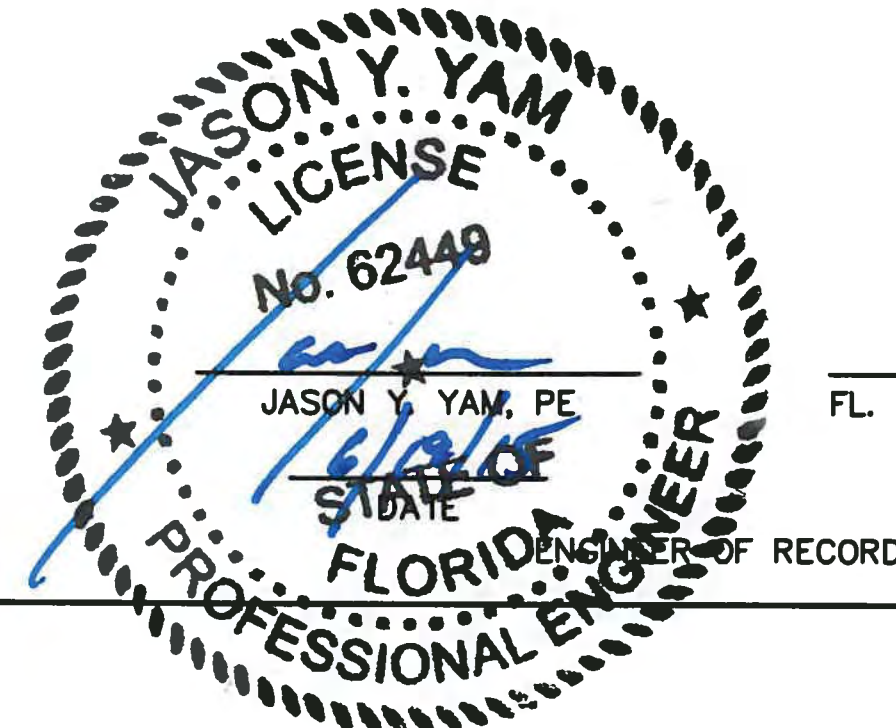
For Design Standards Modifications click on "Design Standards" at the following web site:  
<http://www.dot.state.fl.us/rddesign/>

LENGTH OF PROJECT *		
	TOTAL	
	LIN. FT.	MILES
44TH AVENUE EAST	4562 LF	0.864
30TH STREET EAST	3205 LF	0.607
38TH AVENUE EAST	771 LF	0.146
29TH STREET EAST	322 LF	0.614
US 301 (TURN LANES)	3300 LF	0.625
<b>GROSS LENGTH OF PROJECT</b>	<b>12160 LF</b>	<b>2.408</b>

ROAD CLASSIFICATION: 44TH AVENUE EAST - URBAN ARTERIAL  
 ROAD CLASSIFICATION: US 301 - URBAN ARTERIAL  
 ROAD CLASSIFICATION: 30TH STREET EAST - URBAN LOCAL  
 ROAD CLASSIFICATION: 38TH AVENUE EAST - URBAN LOCAL  
 ROAD CLASSIFICATION: 29TH STREET EAST - URBAN LOCAL  
 ROAD CLASSIFICATION: 27TH STREET EAST - URBAN LOCAL  
 DESIGN SPEED: 45 (44TH AVENUE EAST)



**PLANS PREPARED BY:**



62449  
FL. LICENSE NO.

**COMPONENTS OF CONTRACT PLANS SET**

- ROADWAY PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS
- POTABLE WATER MAIN PLANS

**INDEX OF ROADWAY PLANS**

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FILENAME: J:\00193\00193001\13\MS\MUNICIPAL\ROADWAY\CV19300113-1.DWG  
 DATE: 12/15/08 TIME: 09:49 SCALE: 1

**LEGEND**

ASPH.	ASPHALT
O.R.B.	OFFICIAL RECORD BOOK
PG.	PAGE
MES	MITER END SECTION
CONC.	CONCRETE
NCF	NO CORNER FOUND
IR	IRON ROD
CM	CONCRETE MONUMENT
N&D	NAIL & DISK
INV	INVERT
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
PLS	PROFESSIONAL LAND SURVEYOR
FND	FOUND
PRM	PERMANENT REFERENCE MONUMENT
PCP	PERMANENT CONTROL POINT
NGVD	NATIONAL GEODETIC VERTICAL DATUM
△	CENTRAL ANGLE
R	RADIUS
L	ARC LENGTH
CB	CHORD BEARING
⊙	NAIL & DISK
■	CONCRETE MONUMENT
●	IRON ROD
Ⓡ	RAILROAD SPIKE FOUND
Ⓜ	WELL
Ⓢ	SIGN
Ⓜ	WATER VALVE
Ⓜ	BACK FLOW PREVENTOR
Ⓜ	WATER METER
Ⓜ	FIRE HYDRANT
Ⓜ	SANITARY SEWER MANHOLE
Ⓜ	WOOD POWER POLE
Ⓜ	CONCRETE POWER POLE
Ⓜ	CONCRETE LIGHT POLE
Ⓜ	WOOD LIGHT POLE
Ⓜ	METAL LIGHT POLE
Ⓜ	WOOD ANCHOR POLE
Ⓜ	ANCHOR
Ⓜ	TRAFFIC PULL BOX
Ⓜ	PEDESTRIAN CROSSING POLE
• MC-FOC	MANATEE COUNTY - FIBER OPTICAL CABLE
• PULL	PULL BOX - BURIED CABLE
• ped	PEDESTAL (CABLE TV OR VERIZON CABLE)
⊕	BENCH MARK (AS NOTED)
UPS	UNITED PARCEL SERVICE BOX

**BENCH MARK (ALL -NGVD 29)**

⊕ BM#44-6	CONCRETE MONUMENT FOUND (# LB 6982) (ELEVATION 32.08)
⊕ BM#44-7	CONCRETE MONUMENT FOUND (# LB 6982) (ELEVATION 30.937)
⊕ BM#44-8	CONCRETE MONUMENT FOUND (# LB 6982) (ELEVATION 32.119)
⊕ BM#44-9	CONCRETE MONUMENT FOUND (# LB 6982) (ELEVATION 32.073)
⊕ BM#44-10	CONCRETE MONUMENT FOUND (# LB 6982) (ELEVATION 32.082)
⊕ BM#44-11	CONCRETE MONUMENT FOUND (# LB 6982) (ELEVATION 30.585)
⊕ BM#44-12	CONCRETE MONUMENT FOUND (PLS # 1876) (ELEVATION 30.798)
⊕ BM#44-13	NGS MANAT_1934 (RESET) (ELEVATION 30.721)
⊕ BM#44-14	NGS MANAT_No.4 (ELEVATION 31.810)
⊕ BM#44-15	CONCRETE MONUMENT FOUND (NO #) (ELEVATION 33.858)

CONTROL POINTS				
NORTHING	EASTING	B/L OF SURVEY STATION	C/L OF CONSTRUCTION STATION	DESCRIPTION
1137560.9657	481038.3046	51+38.24	51+38.24	FND. P.K.&D. (FDOT)
1137368.9711	484178.6153	82+94.32	82+89.95 (33.38' RT)	S.I.R. #LB6982
1137339.5808	485589.0849	97+05.10	97+03.09 (18.07' LT)	SET P.K.&D. #LB6982


**44th AVENUE EAST REPORT**

- THIS IS A TOPOGRAPHIC SURVEY OF THE PROPOSED 44th AVENUE EXTENSION BETWEEN 19th STREET EAST AND 30th STREET EAST. THIS TOPOGRAPHIC SURVEY ALSO SHOWS INFORMATION AROUND THE PROPOSED REALIGNMENT OF THE INTERSECTION OF 38th AVENUE EAST AND U.S. 301.
- THE BEARINGS AND COORDINATES ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 AND ARE BASED ON NGS MONUMENT "MANAT RESET" PID #AG 8408 AND NGS MONUMENT "MANAT RM3 PID #AG 8406.
- ELEVATIONS ARE BASED ON NGVD 1929 AND ARE DERIVED FROM NGS STATION "M253" PID #AG 5059 WITH A PUBLISHED ELEVATION OF 37.29 (NGVD 1929) AND NGS STATION "MANAT RESET" PID #AG 8408 HAVING A PUBLISHED ELEVATION OF 30.721 (NGVD 1929).
- THE RIGHT OF WAY LINES AND OTHER BOUNDARY INFORMATION DEPICTED WERE ESTABLISHED USING FOUND MONUMENTATION, FDOT RIGHT OF WAY MAPS FOR U.S. 301, DEEDS AND SUBDIVISION PLATS.
- VISIBLE EVIDENCE ONLY OF UNDERGROUND UTILITIES HAS BEEN LOCATED DURING THIS SURVEY.
- ONLY TREES AT 4" DIAMETER BREST HEIGHT AND LARGER HAVE BEEN NOTED ON THIS SURVEY.
- THE TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION AND CONFORMS TO THE REQUIREMENTS FOR TOPOGRAPHIC SURVEY NOTED IN "MINIMAL TECHNICAL STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA" CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE.

DATE OF FIELD SURVEY: 04/03/09  
DATE OF CERTIFICATION: 04/07/09

*Richard E. M. Edgerton*  
RICHARD E.M. EDGERTON, P.S.M.  
FLORIDA CERTIFICATE #4292

SURVEY PREPARED BY:  
ZNS ENGINEERING  
201 5TH AVENUE DRIVE EAST, BRADENTON, FL 34208  
PO BOX 9448, BRADENTON, FL 34206

		<b>MANATEE COUNTY</b>		<b>44TH AVENUE EAST ROADWAY EXTENSION</b>		 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DESIGNED JCC DRAWN JCC Q.C. APPROVED		<b>SURVEY NOTES</b> PROJECT NO: 00193-001-18 DATE: 6-17-2015 SHEET NO: 2	
NO.	DESCRIPTION	BY	DATE								

**EXISTING SYMBOLS LEGEND**

- ⊙ NAIL & DISK
- CONCRETE MONUMENT
- IRON ROD
- Ⓡ RAILROAD SPIKE FOUND
- ⊕ WELL
- Ⓢ SIGN
- ⊕ WATER VALVE
- Ⓡ BACK FLOW PREVENTOR
- Ⓢ WATER METER
- Ⓢ FIRE HYDRANT
- Ⓢ SANITARY SEWER MANHOLE
- ⊕ WOOD POWER POLE
- CONCRETE POWER POLE
- CONCRETE LIGHT POLE
- ⊕ WOOD LIGHT POLE
- Ⓢ METAL LIGHT POLE
- ⊕ WOOD ANCHOR POLE
- Ⓢ ANCHOR
- Ⓢ TRAFFIC PULL BOX
- ⊕ PEDESTRIAN CROSSING POLE
- MC-FOC MANATEE COUNTY - FIBER OPTICAL CABLE
- PULL PULL BOX - BURIED CABLE
- ped PEDESTAL (CABLE TV OR VERIZON CABLE)
- ⊕ BENCH MARK (AS NOTED)
- Ⓢ UNITED PARCEL SERVICE BOX
- △ CENTRAL ANGLE
- SHW 104 ⊕ SEASONAL HIGH WATER BORING LOCATION

**PROPOSED SYMBOLS LEGEND**

- ~ PROPOSED GUTTER FLOW
- PROPOSED WIDENING
- ▨ EXIST PAVEMENT TO BE REMOVED
- ▨ MILL AND RESURFACE
- Ⓢ PROPOSED RIPRAP
- Ⓢ-34 PROPOSED STORM STRUCTURE NUMBER
- 20.00 PROPOSED GRADE

**PROPOSED LINEWORK LEGEND**

- PROPOSED PAVEMENT LINE
- 52+00 — PROPOSED  $\epsilon$  OF CONSTRUCTION
- ▨ PROPOSED SHOULDER
- PROPOSED STORM PIPE AND FLOW DIRECTION
- PROPOSED RIGHT OF WAY

**ABBREVIATIONS**

- ASPH DENOTES ASPHALT
- AVE DENOTES AVENUE
- BM DENOTES BENCHMARK
- CB DENOTES CHORD BEARING
- CM DENOTES CONCRETE MONUMENT
- CMP DENOTES CORRUGATED METAL PIPE
- CONC DENOTES CONCRETE
- CONST DENOTES CONSTRUCT
- DIP DENOTES DUCTILE IRON PIPE
- DR DENOTES DRIVE
- D/W DENOTES DRIVEWAY
- E DENOTES EAST
- EL DENOTES ELEVATION
- ELEV DENOTES ELEVATION
- EP DENOTES EDGE OF PAVEMENT
- FDOT DENOTES FLORIDA DEPARTMENT OF TRANSPORTATION
- FND DENOTES FOUND
- GE DENOTES GRADE ELEVATION
- HORI DENOTES HORIZONTAL
- HP DENOTES HIGH POINT
- ID DENOTES INSIDE DIAMETER / DIMENSION
- IE DENOTES INVERT
- INV DENOTES INVERT
- IR DENOTES IRON ROD
- L DENOTES ARC LENGTH
- LB DENOTES LICENSED BUSINESS
- LS DENOTES LICENSED SURVEYOR
- MAX DENOTES MAXIMUM
- MES DENOTES MITERED END SECTION
- MH DENOTES MANHOLE
- N&D DENOTES NAIL & DISK
- N DENOTES NORTH
- NAD DENOTES NORTH AMERICAN DATUM
- NCF DENOTES NO CORNER FOUND
- NGS DENOTES NATIONAL GEODETIC SURVEY
- NGVD DENOTES NATIONAL GEODETIC VERTICAL DATUM
- NO DENOTES NUMBER
- OHW DENOTES OVERHEAD WIRES
- NTS DENOTES NOT TO SCALE
- O.R.B. DENOTES OFFICIAL RECORD BOOK
- PCP DENOTES PERMANENT CONTROL POINT
- PED DENOTES PEDESTAL
- PG DENOTES PAGE
- PGL DENOTES PROFILE GRADE LINE
- PGP DENOTES PROFILE GRADE POINT
- PLS DENOTES PROFESSIONAL LAND SURVEYOR
- PRM DENOTES PERMANENT REFERENCE MONUMENT
- PVC DENOTES POLYVINYL CHLORIDE PIPE
- PVI DENOTES POINT OF VERTICAL CURVE
- R DENOTES RADIUS
- RCP DENOTES REINFORCED CONCRETE PIPE
- R/W DENOTES RIGHT-OF-WAY
- S DENOTES SOUTH
- SAN DENOTES SANITARY SEWER LINE
- SHW DENOTES SEASONAL HIGH WATER
- SS# DENOTES EXISTING SANITARY STRUCTURE
- ST DENOTES STREET
- STA DENOTES STATION
- S/W DENOTES SIDEWALK
- TOB DENOTES TOP OF BANK
- TOS DENOTES TOE OF SLOPE
- TV DENOTES TELEVISION
- TYP DENOTES TYPICAL
- VERT DENOTES VERTICAL
- W DENOTES WEST
- WM DENOTES WATERMAIN

NOTE: LOWERCASE TEXT DESIGNATES EXISTING AND UPPERCASE DESIGNATES PROPOSED IN PLAN SET.

NO.	DESCRIPTION	BY	DATE

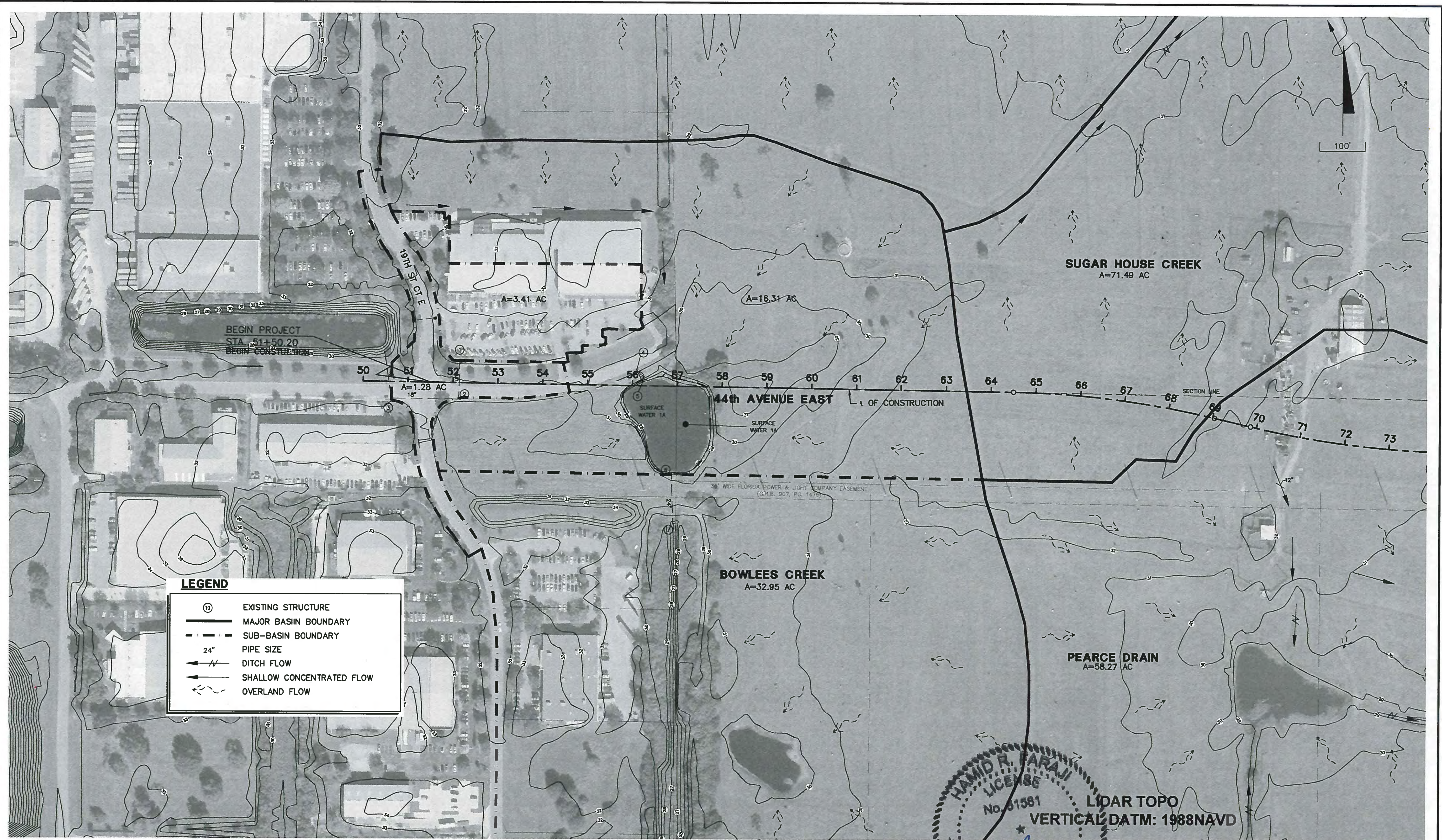
**MANATEE COUNTY**

**44TH AVENUE EAST ROADWAY EXTENSION**

DESIGNED	JCC
DRAWN	JCC
CHECKED	JCC
APPROVED	JCC

**LEGEND AND ABBREVIATIONS**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	3



**LEGEND**

	EXISTING STRUCTURE
	MAJOR BASIN BOUNDARY
	SUB-BASIN BOUNDARY
	PIPE SIZE
	DITCH FLOW
	SHALLOW CONCENTRATED FLOW
	OVERLAND FLOW

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

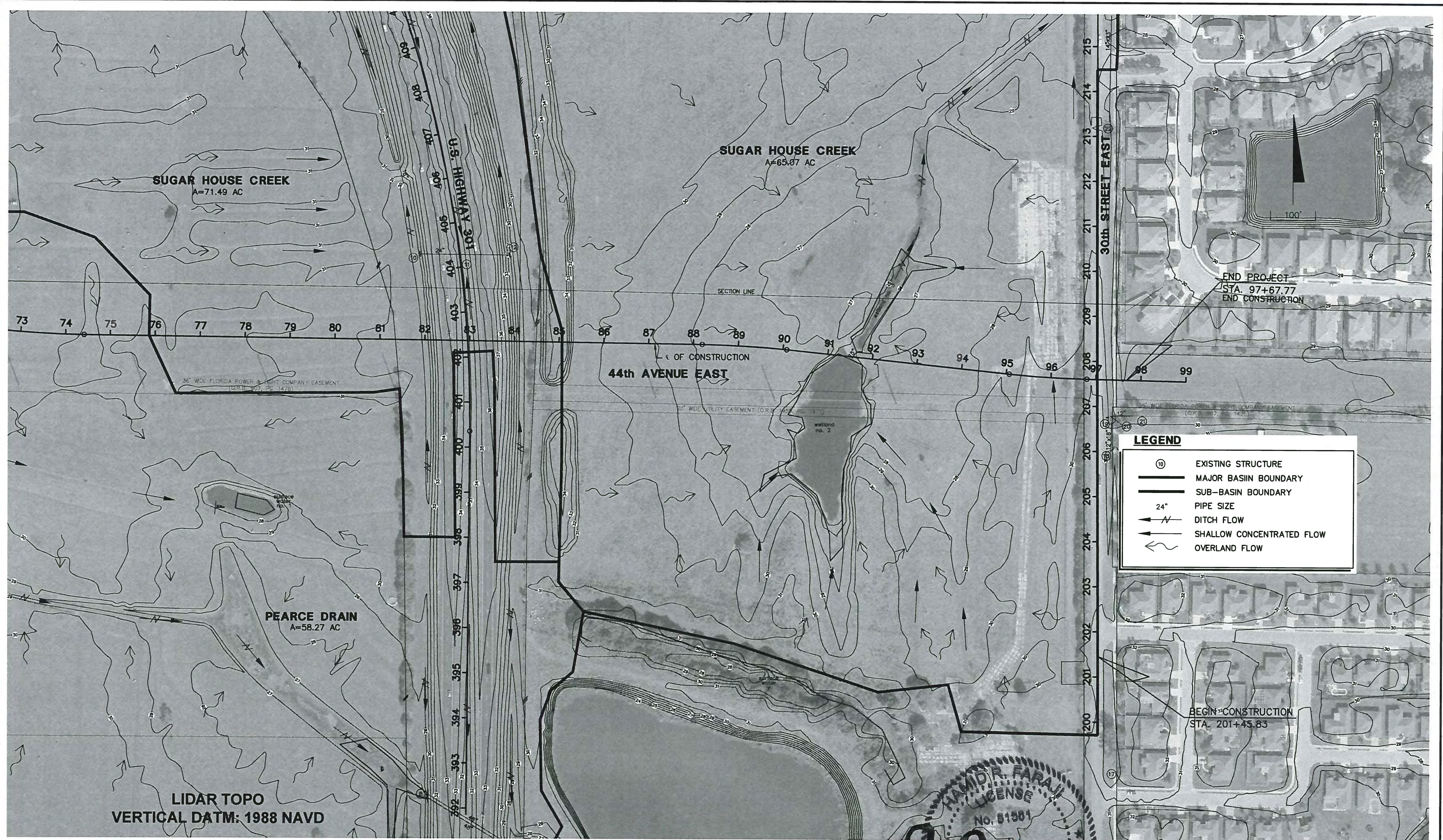
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www.cardno.com Certificate of Authorization No. 29915

**HAMID R. FARAJI**  
LICENSE  
No. 01581  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
LIC. NO. 01581

DESIGNED	HRF
DRAWN	JJH
C.C.	
APPROVED	

**EXISTING DRAINAGE MAP**

PROJECT NO:	00193-001-18
DATE:	1-23-2015
SHEET NO:	4



LIDAR TOPO  
VERTICAL DATM: 1988 NAVD

**LEGEND**

- EXISTING STRUCTURE
- MAJOR BASIN BOUNDARY
- SUB-BASIN BOUNDARY
- 24" PIPE SIZE
- DITCH FLOW
- SHALLOW CONCENTRATED FLOW
- OVERLAND FLOW

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

44TH AVENUE EAST  
ROADWAY EXTENSION

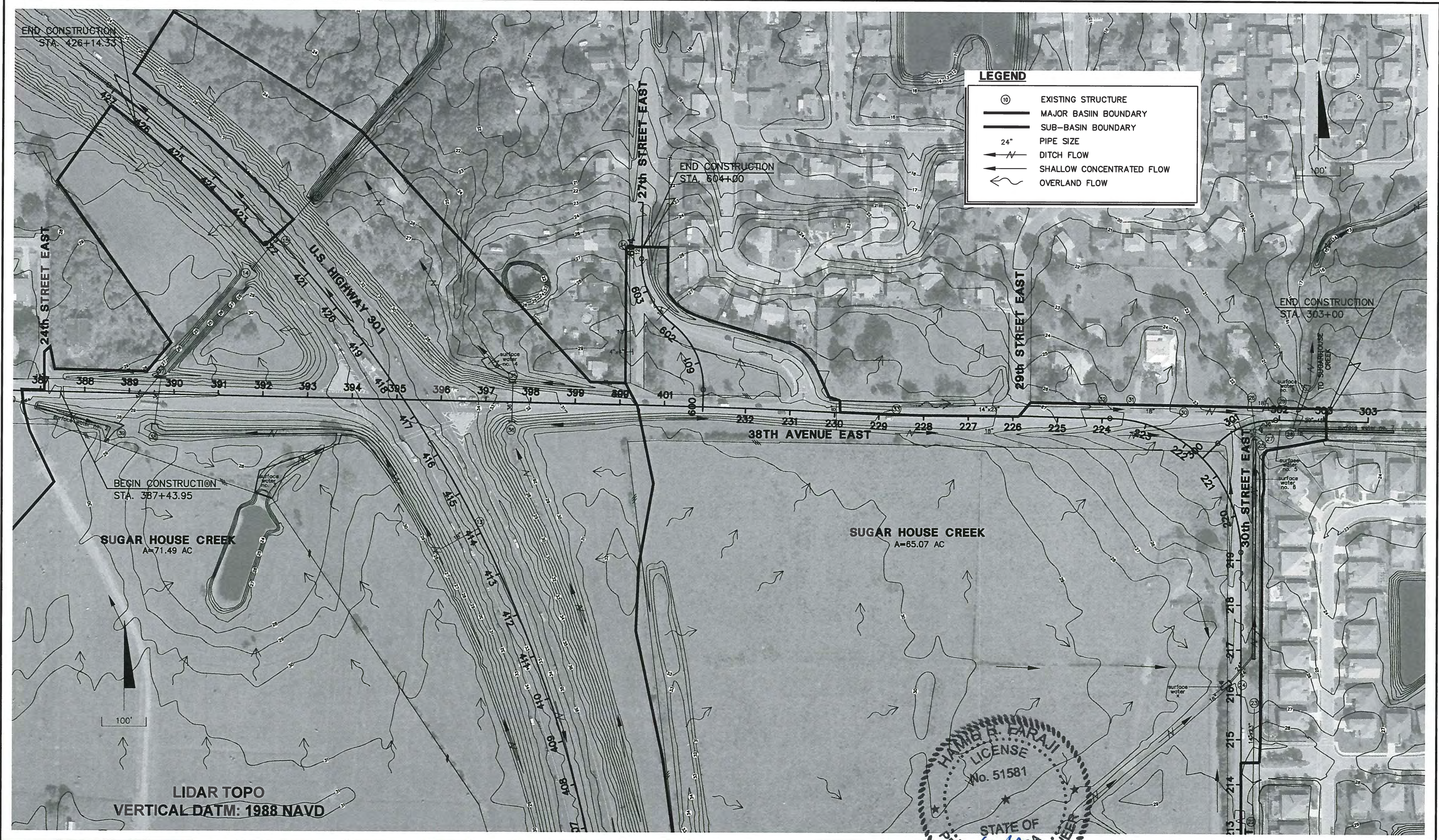
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**HAMID R. FARAJI**  
LICENSE  
No. 61581  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

DESIGNED	HRF
DRAWN	JJH
C.C.	
APPROVED	

EXISTING DRAINAGE MAP

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	5



**LEGEND**

- (O) EXISTING STRUCTURE
- MAJOR BASIN BOUNDARY
- SUB-BASIN BOUNDARY
- 24" PIPE SIZE
- ↔ DITCH FLOW
- ↔ SHALLOW CONCENTRATED FLOW
- ↔ OVERLAND FLOW

LIDAR TOPO  
VERTICAL DATM: 1988 NAVD

HAMID R. FARAJI  
LICENSE  
No. 51581  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

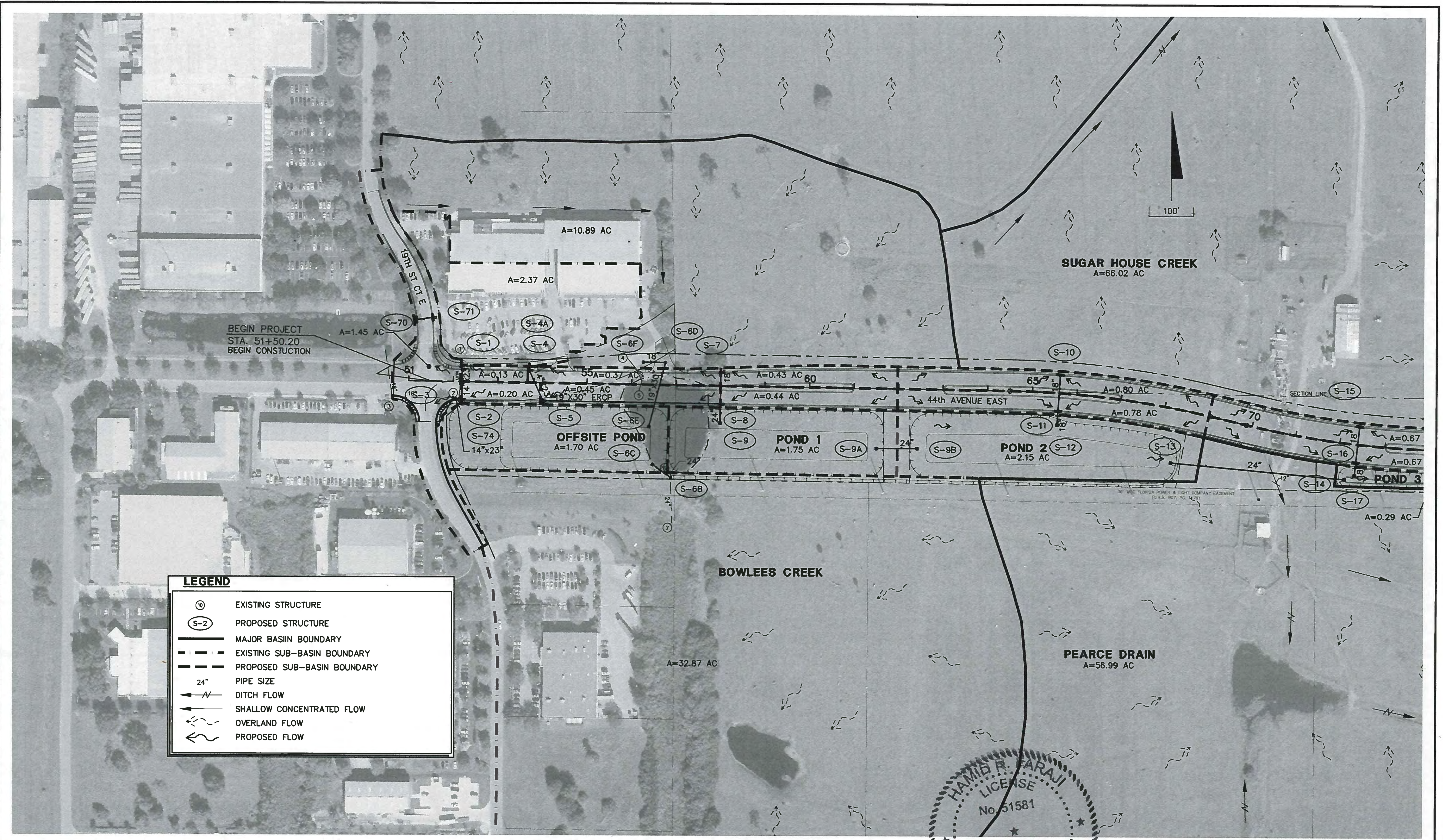
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DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

**EXISTING DRAINAGE MAP**

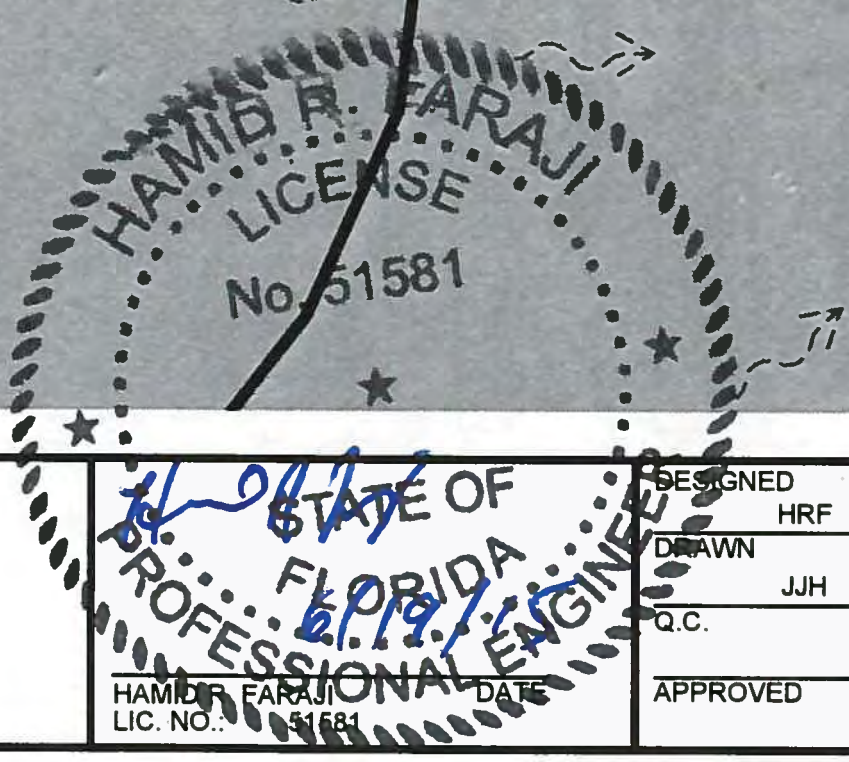
PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	6

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**LEGEND**

	EXISTING STRUCTURE
	PROPOSED STRUCTURE
	MAJOR BASIN BOUNDARY
	EXISTING SUB-BASIN BOUNDARY
	PROPOSED SUB-BASIN BOUNDARY
24"	PIPE SIZE
	DITCH FLOW
	SHALLOW CONCENTRATED FLOW
	OVERLAND FLOW
	PROPOSED FLOW



NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

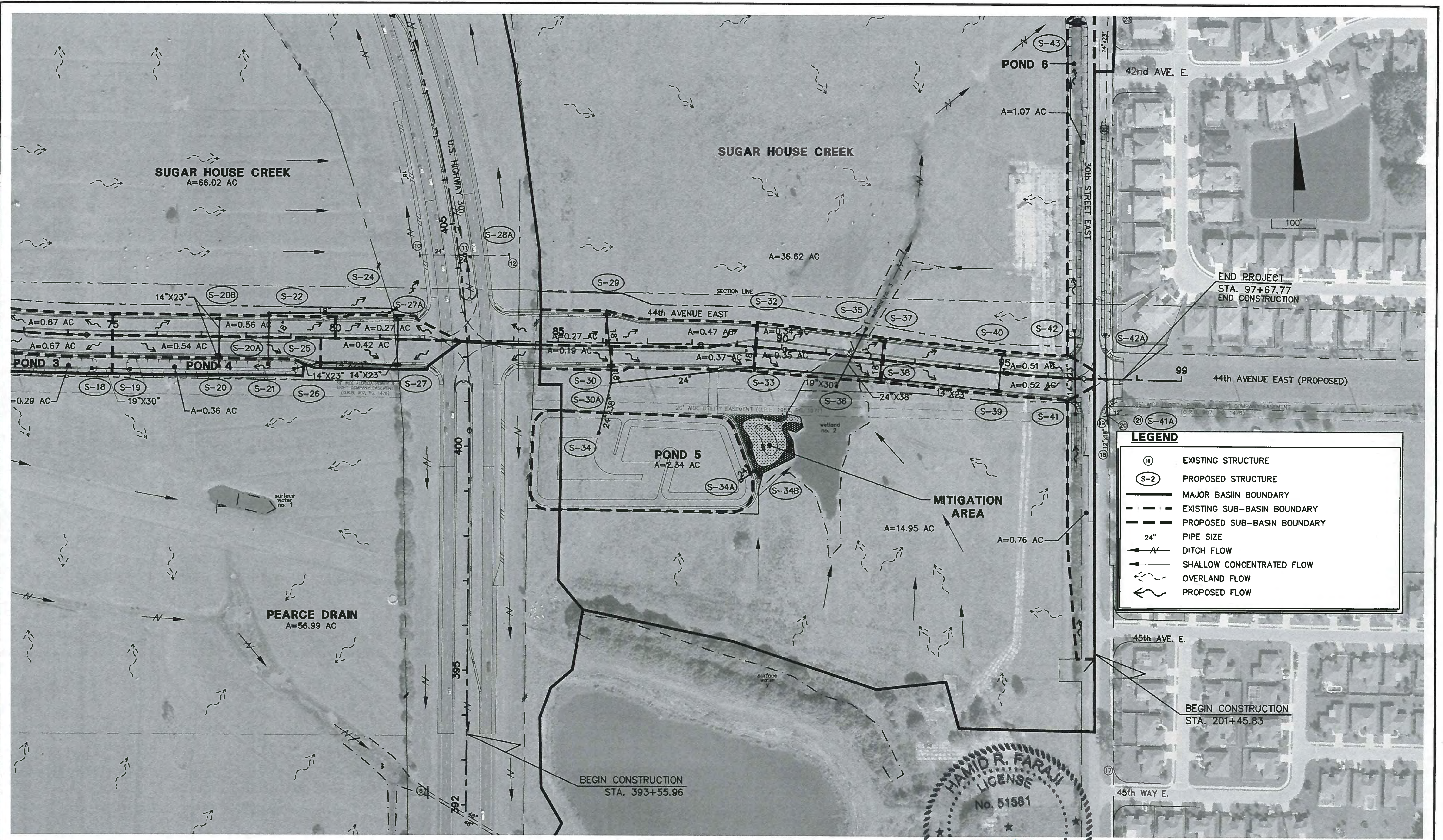
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DESIGNED: HRF  
DRAWN: JHH  
Q.C.:  
APPROVED:  
DATE: 6/13/17  
LIC. NO.: 51581

**PROPOSED DRAINAGE MAP**

PROJECT NO:  
00193-001-18  
DATE:  
6-17-2015  
SHEET NO:  
7

FILE: J:\00193\00193001\18\ACAD\dwg\DM19300118-1.dwg LAST SAVED: Fri, 06/19/15 9:24a PLOTTED: Fri, 06/19/15 9:25a BY: John.Hutchison



LEGEND	
(10)	EXISTING STRUCTURE
(S-2)	PROPOSED STRUCTURE
—————	MAJOR BASIN BOUNDARY
- - - - -	EXISTING SUB-BASIN BOUNDARY
- - - - -	PROPOSED SUB-BASIN BOUNDARY
24"	PIPE SIZE
↔	DITCH FLOW
↔	SHALLOW CONCENTRATED FLOW
↔	OVERLAND FLOW
↔	PROPOSED FLOW

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

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**HAMID R. FARAJI**  
LICENSE  
No. 51581  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
LIC. NO.:

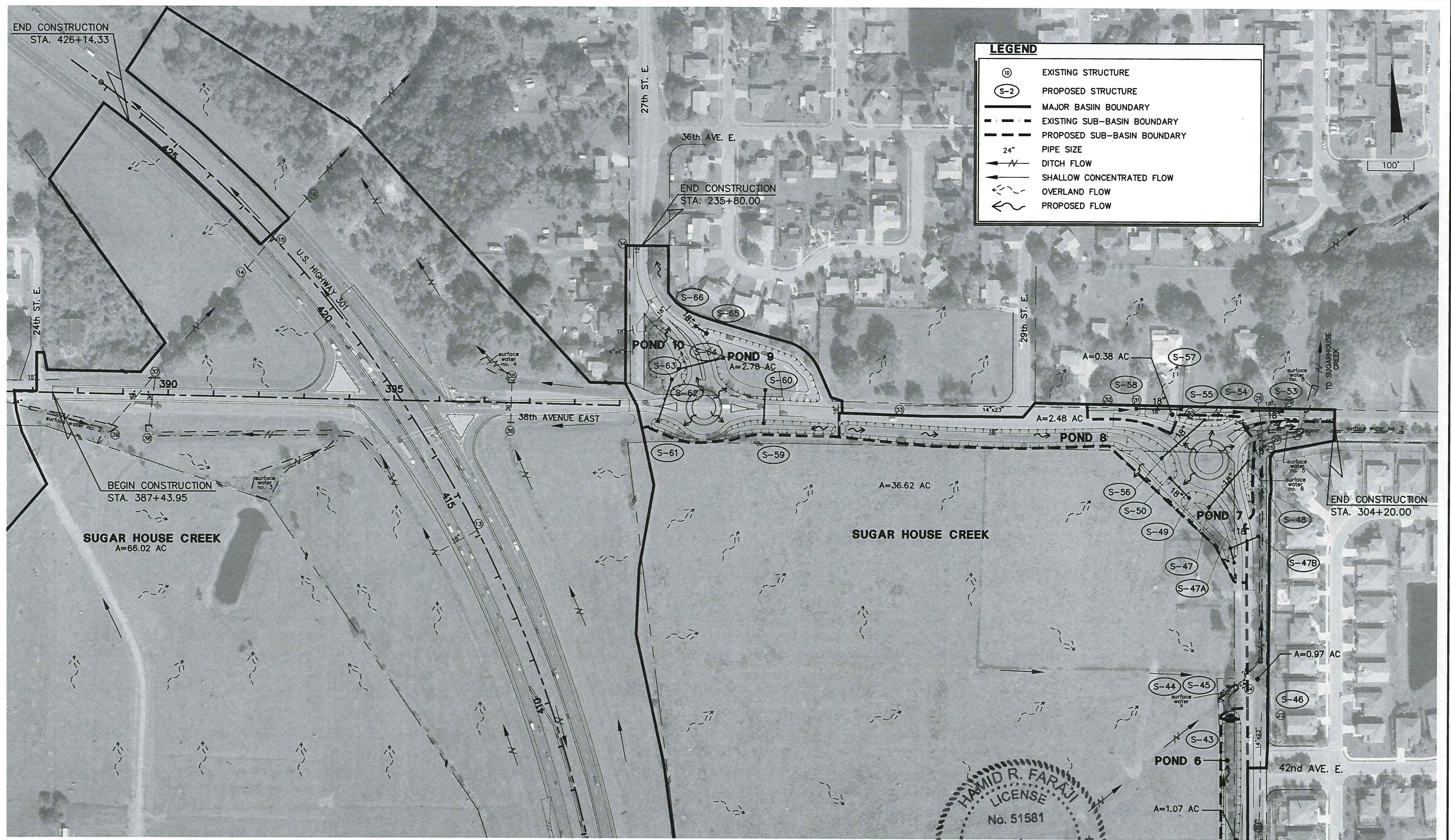
DESIGNED	HRF
DRAWN	JJH
Q.C.	
APPROVED	

**PROPOSED DRAINAGE MAP**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	8

FILE: J:\00193\00193001.18\ACAD\dwg\DM19300118-1.dwg LAST SAVED: Fri, 06/19/15 9:24a PLOTTED: Fri, 06/19/15 9:25a BY: John.Hutchison





NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

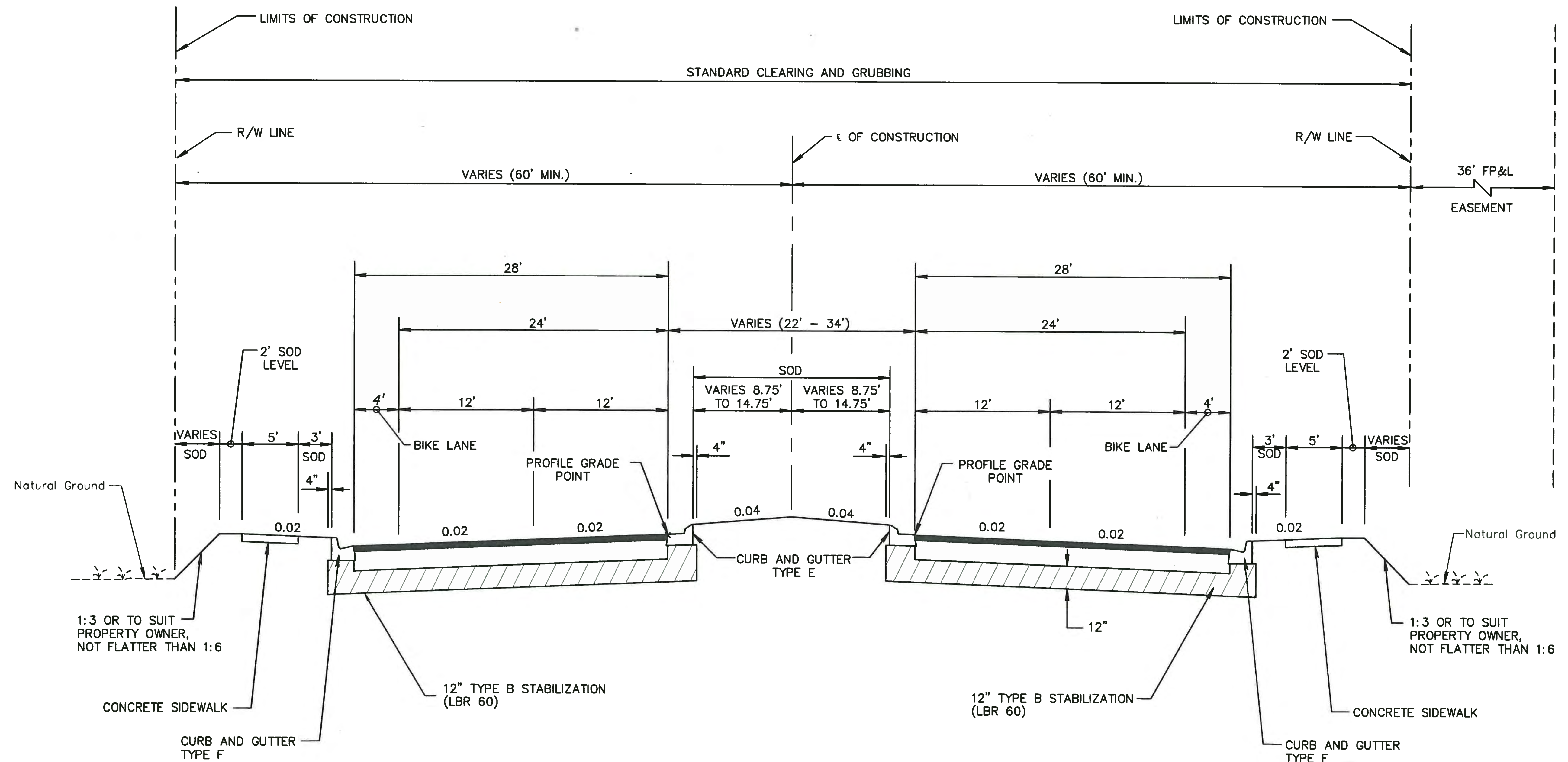
**44TH AVENUE EAST ROADWAY EXTENSION**

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**HAMID R. FARAJI**  
 LICENSE  
 No. 51581  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

**PROPOSED DRAINAGE MAP**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	9

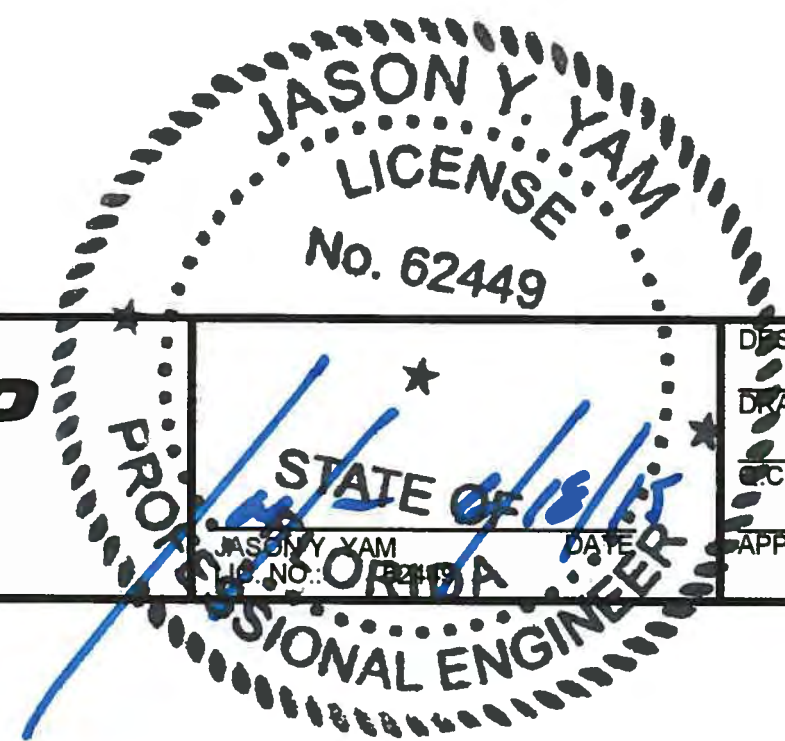


**TYPICAL SECTION  
44TH AVENUE EAST**

STA. 50+66.17 TO 97+67.77  
DESIGN SPEED 45 MPH  
N.T.S.

**NEW PAVEMENT**

OPTIONAL BASE GROUP 9 WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (3")  
AND FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)



NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

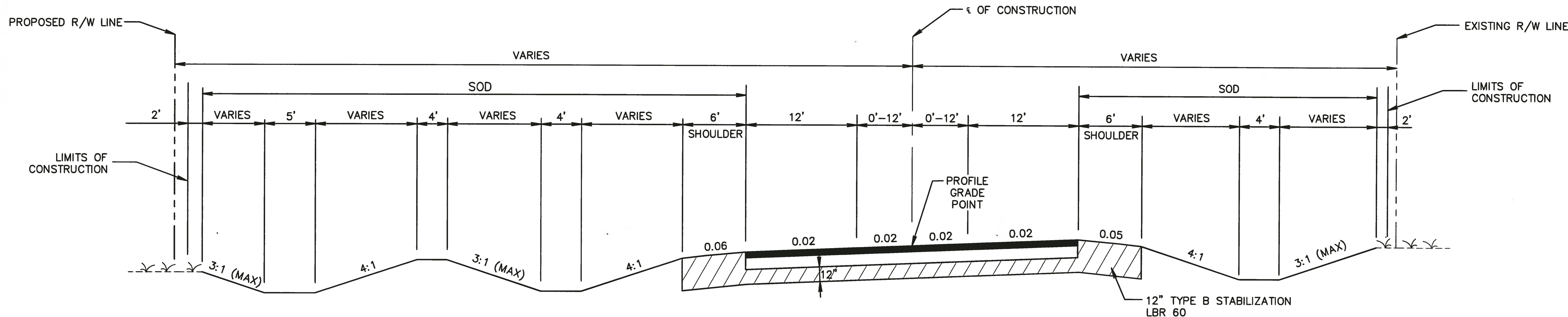
**44TH AVENUE EAST  
ROADWAY EXTENSION**

**Cardno**  
Shaping the Future  
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL  
33759 TEL: (727) 531-3505 (800) 861-8314  
www.cardno.com Certificate of Authorization No. 29915

DESIGNED	JCC
DRAWN	JCC
CHECKED	JCC
APPROVED	JCC

**TYPICAL SECTIONS**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	10



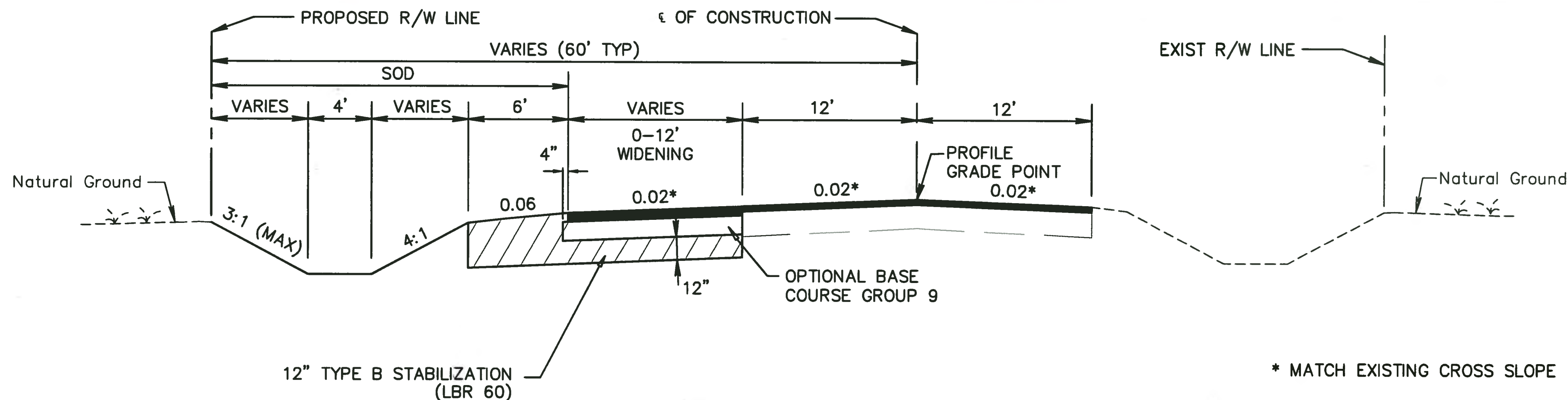
**WIDENING**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (3")  
 AND FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)

**TYPICAL SECTION  
 30TH STREET EAST**

STA. 218+40.00 TO 223+86.99  
 DESIGN SPEED 35 MPH  
 N.T.S.

**MILLING**  
 MILL EXISTING ASPHALT WHERE SHOWN  
 (1 1/2" AVG DEPTH)

**RESURFACING**  
 FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)



**WIDENING**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (3")  
 AND FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)

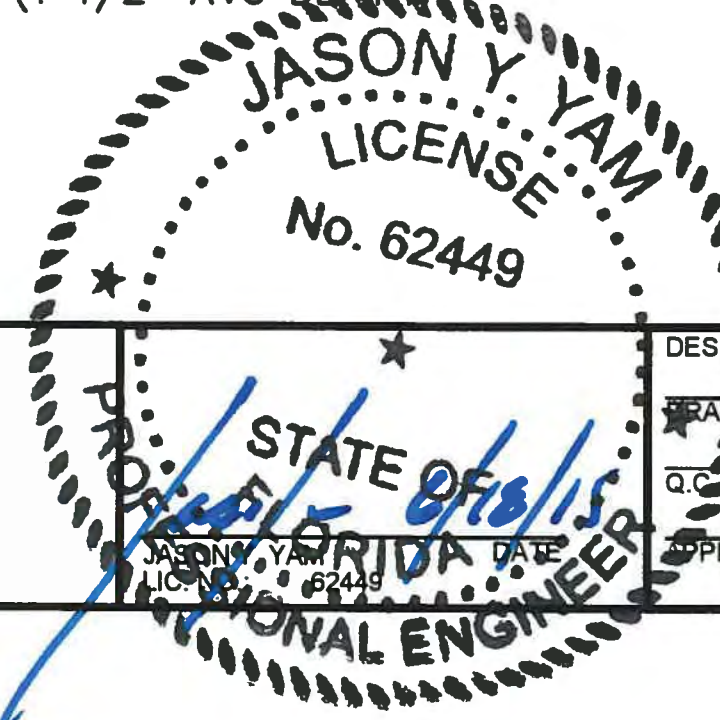
**TYPICAL SECTION  
 30TH STREET EAST**

STA. 201+45.83 TO 206+52.21  
 STA. 208+93.39 TO 218+40.00  
 DESIGN SPEED 30 MPH  
 N.T.S.

**MILLING**  
 MILL EXISTING ASPHALT WHERE SHOWN  
 (1 1/2" AVG DEPTH)

**RESURFACING**  
 FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)

\* MATCH EXISTING CROSS SLOPE



NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

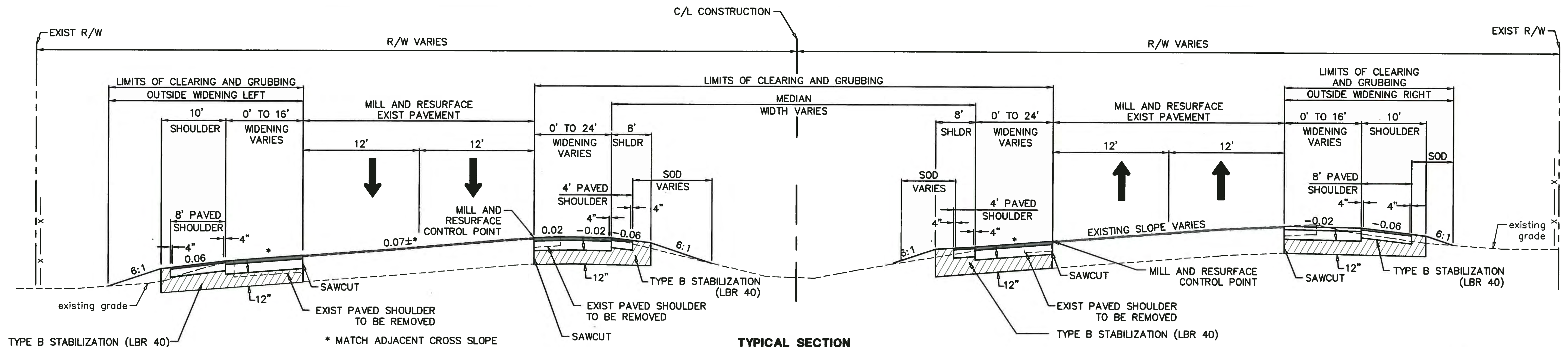
44TH AVENUE EAST  
 ROADWAY EXTENSION



DESIGNED	JCC
REASON	JCC
DATE	
APPROVED	

TYPICAL SECTIONS

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	11



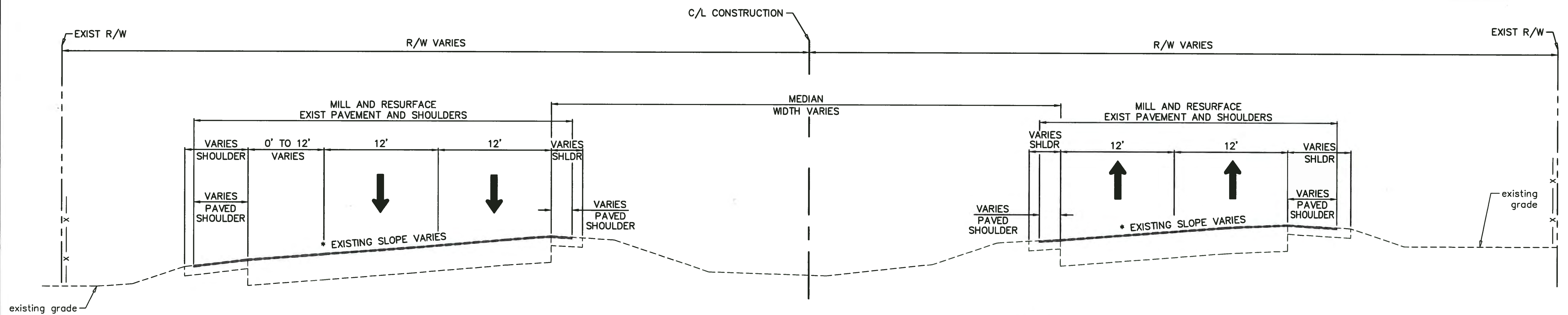
**MILLING**  
MILL EXISTING ASPHALT WHERE SHOWN  
(2-3/4" AVG DEPTH)

**RESURFACING**  
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL D (2")  
AND FRICTION COURSE FC-5 (3/4")(RUBBER)

**TYPICAL SECTION  
U.S. HIGHWAY 301**  
NORTHBOUND  
STA. 394+53.29 TO 398+20.00  
SOUTHBOUND  
STA. 405+60.00 TO 410+47.76  
DESIGN SPEED 55 MPH  
N.T.S.

**WIDENING**  
OPTIONAL BASE GROUP 9 (FOR THICKNESS SEE BELOW) WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL D) (4")  
AND FRICTION COURSE FC-5 (3/4")(RUBBER)  
BASE COURSE 6" TYPE B-12.5

**SHOULDER PAVEMENT**  
OPTIONAL BASE GROUP 1 (FOR THICKNESS SEE BELOW) WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL D) (1")  
AND FRICTION COURSE FC-5 (3/4")(RUBBER)  
BASE COURSE 4" TYPE B-12.5



**TYPICAL SECTION  
U.S. HIGHWAY 301**  
NORTHBOUND  
STA. 393+55.96 TO 394+53.29  
STA. 405+60.00 TO 409+00.48  
SOUTHBOUND  
STA. 393+55.96 TO 398+20.00  
STA. 410+47.76 TO 415+08.25  
DESIGN SPEED 55 MPH  
N.T.S.

**MILLING**  
MILL EXISTING ASPHALT WHERE SHOWN  
(2-3/4" AVG DEPTH)

**SHOULDER MILLING**  
MILL EXISTING ASPHALT WHERE SHOWN  
(1-3/4" AVG DEPTH)

**RESURFACING**  
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL D) (2")  
AND FRICTION COURSE FC-5 (3/4")(RUBBER)

**SHOULDER RESURFACING**  
TYPE SP-9.5 STRUCTURAL COURSE (1")  
FRICTION COURSE FC-5 (3/4")(RUBBER)

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

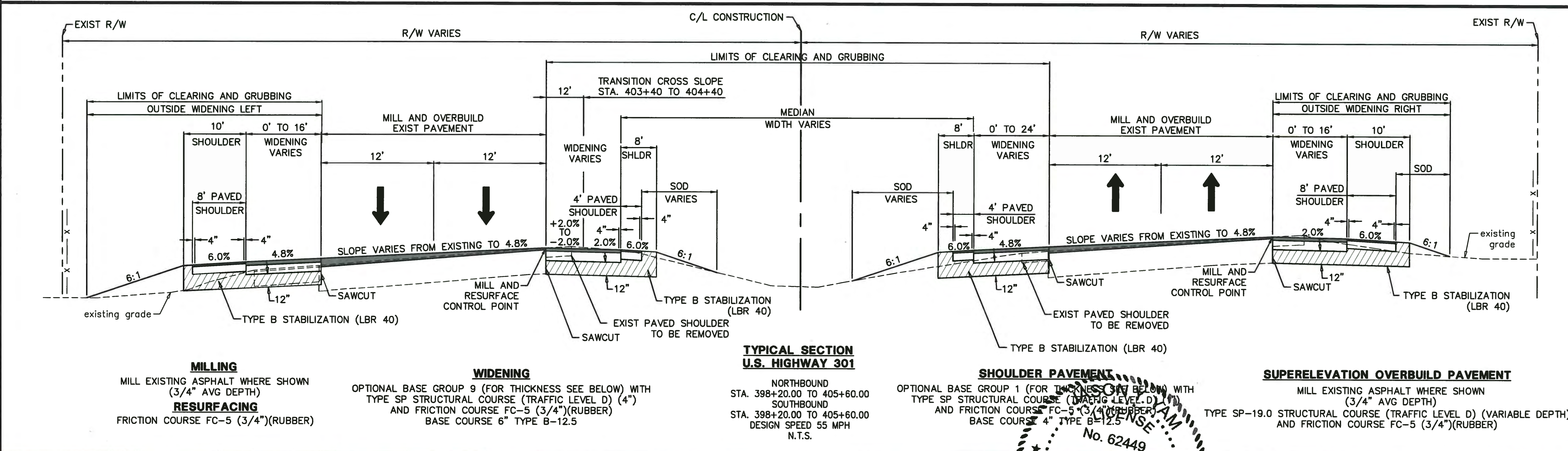
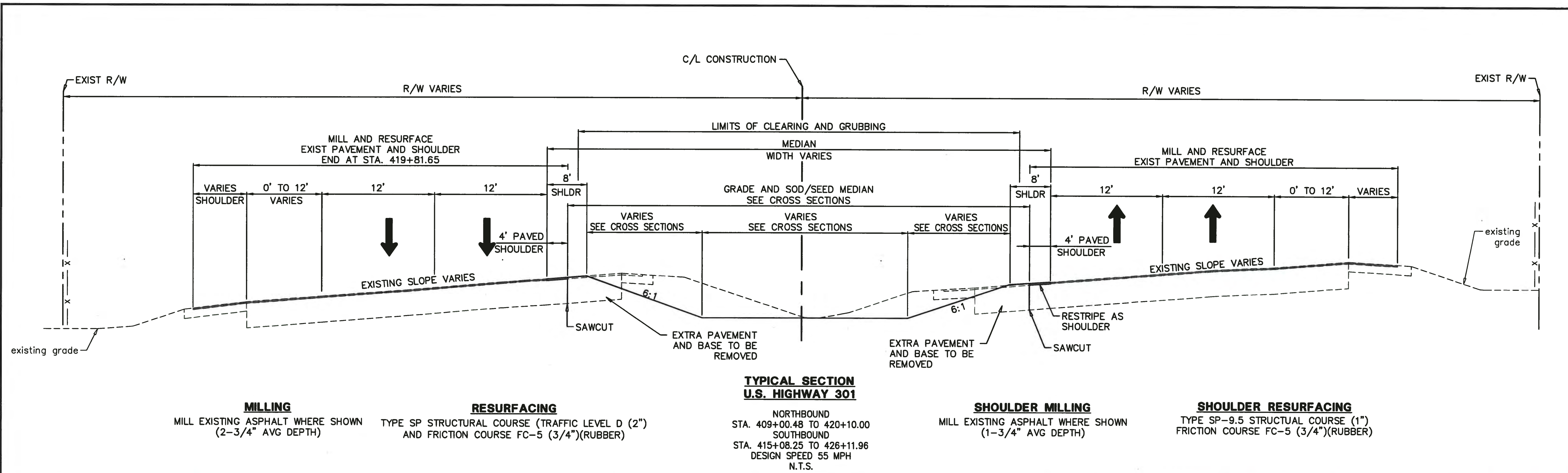
**44TH AVENUE EAST  
ROADWAY EXTENSION**


**Cardno**  
Shaping the Future  
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL  
33759 TEL: (727) 531-3505 (800) 861-8314  
www.cardno.com Certificate of Authorization No. 25915

Professional Engineer  
SONY TAM  
LICENSE  
No. 62449  
STATE OF FLORIDA  
DESIGNED: JCC  
DRAWN: JCC  
G.C.  
APPROVED: JCC

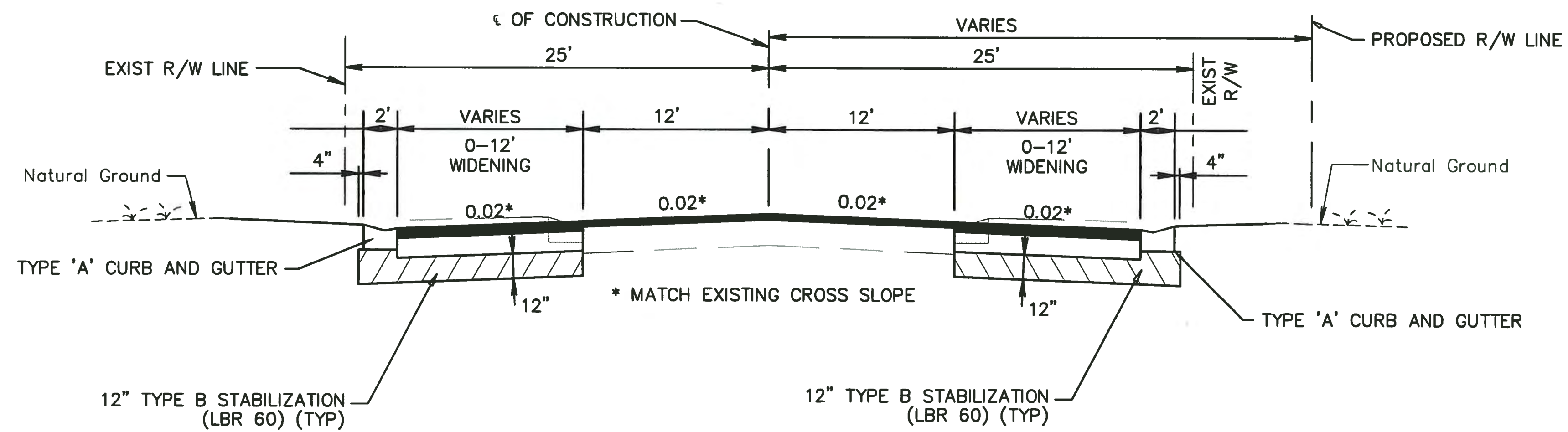
**TYPICAL SECTIONS**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 12



MANATEE COUNTY				44TH AVENUE EAST ROADWAY EXTENSION		 Shaping the Future 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915		DESIGNED JCC DRAWN JCC CHECKED JCC APPROVED JCC		PROJECT NO: 00193-001-18 DATE: 6-17-2015 SHEET NO: 13	
<b>TYPICAL SECTIONS</b>											

FILE: J:\00193\00193001.18\ACAD\dwg\1819300118-1.dwg LAST SAVED: Wed, 06/03/15 9:54a PLOTTED: Tue, 06/16/15 4:56p BY: John.Hutchison



**MILLING**  
MILL EXISTING ASPHALT WHERE SHOWN  
(1 1/2" AVG DEPTH)  
**RESURFACING**  
FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)

**TYPICAL SECTION  
19TH STREET COURT EAST**

STA. 701+82.00 TO STA 704+98.00  
STA. 706+74.00 TO STA 710+86.21

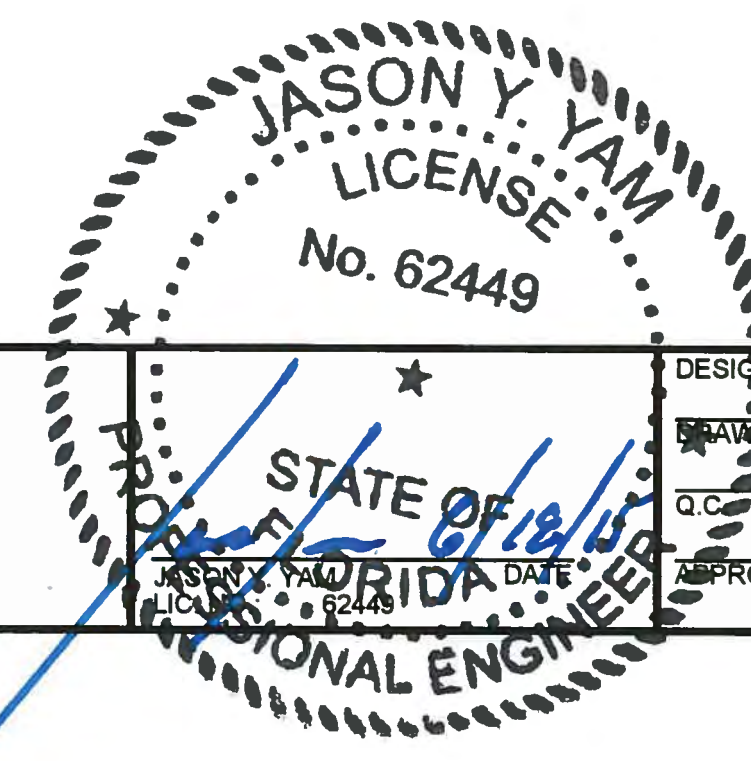
DESIGN SPEED 30 MPH  
N.T.S.

**WIDENING**  
OPTIONAL BASE GROUP 9 WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (3")  
AND FRICTION COURSE FC-12.5 (1 1/2")(RUBBER)

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**



DESIGNED	JCC
DRAWN	JCC
QC	
APPROVED	

**TYPICAL SECTIONS**

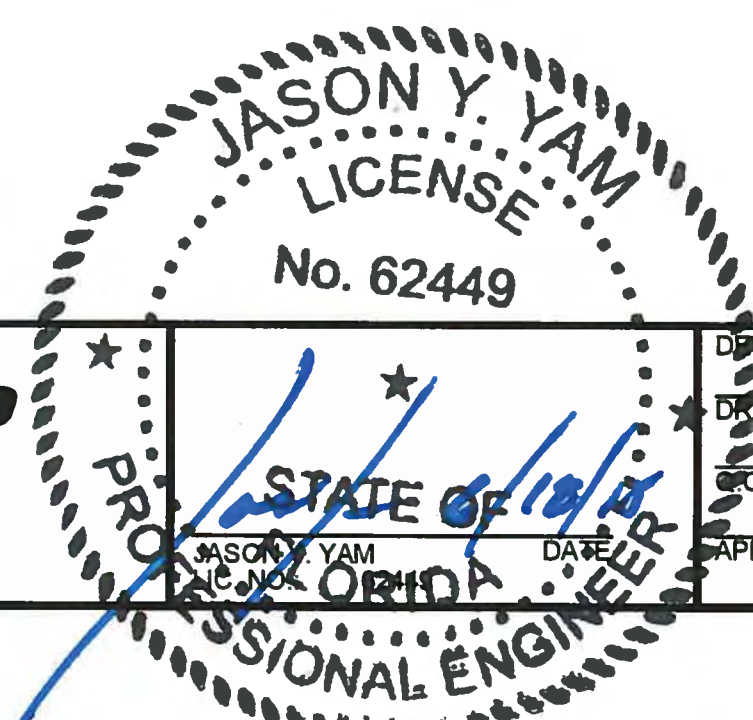
PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	14

**GENERAL NOTES**

1. ALL STATIONS AND OFFSETS REFER TO C/L OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FIELD VERIFY ANY AND ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY DISCREPANCIES.
3. THE CONSTRUCTION LENGTHS INDICATED IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT SIZE, LOCATION, DEPTH, HEIGHT, ELEVATION, DIMENSION, AND EXTENT OF ALL UNDERGROUND AND OVERHEAD FACILITIES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY THAT MAY AFFECT SUCH FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
5. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
6. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
7. EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES. THE FOLLOWING UTILITIES MAY HAVE LINES AND FACILITIES WITHIN THE PROJECT AREA.
 

1) CITY OF BRADENTON	Steve Sibert	941-708-6300, Ext. 227
2) FLORIDA POWER AND LIGHT	Greg Coker	941-723-4430
3) VERIZON OF FLORIDA INC.	Denise Hutton	941-908-6722
4) MANATEE COUNTY ENGINEERING	Sia Mollanazar	941-708-7487
5) MANATEE COUNTY UTILITY OPERATIONS	Mark Simpson	941-792-8811
6) BRIGHTHOUSE NETWORKS, LLC	Alex Fleming	941-748-3816, Ext. 227
8. ABOVE GROUND AND/OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL (1-800-432-4770) AND THE UTILITY OWNERS IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES, UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY. ALL UTILITY OWNERS MAY NOT BE A MEMBER, REQUIRING DIRECT CONTACT. THE CONTRACTOR SHALL FURTHER COORDINATE WITH UTILITY OWNERS TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S FAILURE TO CALL "SUNSHINE STATE ONE CALL" AND THE UTILITY OWNERS.
9. ALL EXISTING WATER MAINS, SANITARY SEWER, AND OTHER UTILITIES SHALL REMAIN IN SERVICE UNTIL THE RELOCATED UTILITIES ARE PLACED IN SERVICE.
10. STATION LOCATIONS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. THE PROPOSED LENGTHS OF PIPE SHOWN ON THE PLANS ARE MEASURED FROM THE CENTER OF EACH DRAINAGE STRUCTURE. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION, AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
11. ALL EXISTING STORM WATER PIPES, MANHOLES, INLETS, STRUCTURES WITHIN THE AFFECTED RIGHT-OF-WAY CORRIDOR ARE TO BE REMOVED UNLESS OTHERWISE NOTED IN THE PLAN VIEW OR IN THE CROSS SECTIONS TO REMAIN.
12. IN ACCORDANCE WITH FDOT INDEX 205 AND FDOT STANDARD SPECIFICATION 941, ALL PROPOSED STORM DRAIN PIPES WILL BE REINFORCED CONCRETE (RCP) CLASS III UNLESS OTHERWISE SPECIFIED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL AND SEDIMENT CONTROL, IN ACCORDANCE WITH FOOT INDEX 102, THROUGHOUT THE DURATION OF THE PROJECT AND ALL ASPECTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE RESTORATION EFFORTS THAT MAY BE REQUIRED AS A RESULT OF CONSTRUCTION. THE CONTRACTOR SHALL USE WHATEVER METHODS, CONFORMING TO APPLICABLE STANDARDS, NECESSARY TO PREVENT EROSION AND SILTATION AS MAY BE REQUIRED FOR THE PROJECT.
14. ALL EROSION CONTROL FENCES, BARRIERS, AND SILTATION DEVICES SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, SHALL BE MAINTAINED IN GOOD WORKING ORDER DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCES AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE/BARRIER. STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.
15. THE CONTRACTOR SHALL NOT RESTRICT OR BLOCK THE EXISTING DRAINAGE FLOW OVERLAND OR WITHIN THE RESHAPED SWALES. FLOW WITHIN EXISTING DRAINAGE PIPES SHALL BE MAINTAINED AT ALL TIMES. STORMWATER WILL BE CONVEYED VIA EXISTING SWALES, DITCHES, PROPOSED DITCHES, AND EXISTING AND PROPOSED STORM SEWERS.
16. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.
17. CONTRACTOR SHALL CHECK ALL EROSION AND SILTATION CONTROL DEVICES WEEKLY, AND AFTER EACH RAINFALL, AND REPAIR AND REPLACE THEM AS REQUIRED. MAINTENANCE AND INSPECTION OF THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION CONTROL SHALL BE INCLUDED IN THE COST OF PAY ITEMS LISTED.
18. BANKS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL BE CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. EROSION CONTROL FABRIC SHALL BE USED FOR EROSION PROTECTION WHERE SOD WILL NOT HOLD OR BECOME ESTABLISHED IN TIME TO PROTECT THE BANKS. UNLESS OTHERWISE SPECIFIED IN THE PLANS, UPON COMPLETION OF CONSTRUCTION, ALL BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.
19. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
20. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
21. THE CONTRACTOR SHALL REMOVE ALL DRIVEWAYS, SIDEWALKS, CURBS, AND ALL ABANDONED UTILITY LINES, PIPES, STRUCTURES, FLUMES AND OTHER SUBTERRANEAN OBJECTS TO A MINIMUM DEPTH OF FOUR (4) FEET BELOW GRADE, OR AS OTHERWISE DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
22. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM CLEARING AND GRUBBING.
23. ALL SUB-BASES SHALL BE OF GOOD, CLEAN, ACCEPTABLE MATERIAL COMPACTED TO MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99, IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
24. ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE SODDED AS DIRECTED BY THE ENGINEER. SEEDING AND MULCHING SHALL BE APPLIED ONLY WHERE SPECIFICALLY CALLED FOR IN THE PLANS AND SPECIFICATIONS, OR WHERE SPECIFICALLY DIRECTED BY THE ENGINEER.
25. THE CONTRACTOR WILL BACKFILL AREAS TO BE SODDED WITH CLEAN FILL TO MAINTAIN PROPER GRADE OF THE PLANTING AREA, AND THE SOD SHALL BE PROPERLY CUT-IN AND TAMPED, THE COST OF WHICH IS INCLUDED IN THE PAY ITEM FOR SOD.
26. SOD STABILIZATION SHALL OCCUR WITHIN 72 HOURS OF ACHIEVING FINAL GRADE. ALL SLOPES STEEPER THAN 3:1 SHALL INCLUDE SOD STAPLING OR STAKING, THE COST OF WHICH IS INCLUDED IN THE PAY ITEM FOR SODDING (SY).
27. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
28. UNSUITABLE MATERIAL, NOT APPROVED BY THE COUNTY PROJECT MANAGER FOR USE IN EMBANKMENT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE, AT A SUITABLE SITE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERMITS AND PERMITTING FEES REQUIRED FOR THE TRANSPORT AND DISPOSAL OF UNSUITABLE MATERIAL.
29. ANY UNSUITABLE MATERIAL EXCAVATED MAY BE USED TO FLATTEN SLOPES IN AREAS APPROVED BY THE COUNTY PROJECT MANAGER.
30. BORROW MATERIAL REQUIRED FOR CONSTRUCTION OF THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR, FROM BORROW AREAS PROVIDED BY THE CONTRACTOR.
31. ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN ANY SIDEWALK OR PAVED AREA SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE FLUSH WITH THE SIDEWALK OR PAVEMENT SURFACE. ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN UNPAVED AREAS SUBJECT TO VEHICULAR, BICYCLE, OR PEDESTRIAN TRAFFIC SHALL BE ADJUSTED SO THAT THE TOP SURFACE OR COVERS OR FRAMES SHALL BE NO MORE THAN ONE INCH ABOVE THE FINISHED GRADE. WHERE SODDING IS APPLIED, "FINISHED GRADE" SHALL BE THE NOMINAL HEIGHT OF GRASS AFTER THE SOD IS FIRMLY PLACED.
32. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY PRIVATELY OWNED FEATURES LOCATED ON PRIVATE PROPERTY AND OUTSIDE THE DESIGNATED AREA OF CONSTRUCTION WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN A TIMELY MANNER AT THE EXPENSE OF THE CONTRACTOR. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
33. EXISTING ROADWAY MATERIALS SUCH AS SHELL, MARL, OR LIMEROCK SUITABLE FOR SUCH MAY BE UTILIZED IN THE PREPARATION OF STABILIZED SUBGRADE.
34. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION, WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
35. ALL SIDEWALK DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, AT THE DIRECTION OF THE ENGINEER.

	<b>MANATEE COUNTY</b>	<b>44TH AVENUE EAST ROADWAY EXTENSION</b>	 Shaping the Future 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29915	DESIGNED: JCC DRAWN: JCC CHECKED: JCC APPROVED:	<b>GENERAL NOTES</b> PROJECT NO: 00193-001-18 DATE: 6-17-2015 SHEET NO: 15
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**GENERAL NOTES-CONTINUED**

- 36. TEMPORARY PAVEMENT MARKINGS ON NEW ASPHALT SHALL BE PAINT, AND NOT THERMOPLASTIC.
- 37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN THE CONTRACTOR AND ALL UTILITY AGENCIES.  
NOTE: THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
- 38. NO STABILIZING WILL BE REQUIRED FOR PAVED TURNOUTS TO PRIVATE PROPERTY.
- 39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE STAKE-OUT OF THE PROJECT, I.E., LINE, GRADE, SLOPE, UTILITY RELOCATIONS OR ANY OTHER STAKE-OUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
- 40. OVERALL CLEAN-UP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY PROJECT MANAGER. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR MOBILIZATION.
- 41. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- 42. ANY U.S.C. AND G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY:  
  
DIRECTOR, CHARTING AND GEODETIC SERVICES  
8001 EXECUTIVE BLVD  
ATTN C172  
ROCKVILLE, MARYLAND 20852  
PHONE: (301) 443-8319
- 43. DRIVEWAY LOCATION AND WIDTH MAY BE FIELD ADJUSTED DURING CONSTRUCTION BY THE COUNTY PROJECT MANAGER IN COORDINATION WITH REQUESTS FROM PROPERTY OWNERS. ASPHALT DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL INCLUDED IN THESE PLANS.
- 44. CONTRACTOR TO PROTECT AND NOT REMOVE EXISTING TREES WITHIN PROJECT LIMITS AT LOCATIONS NOTED ON PLANS.
- 45. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

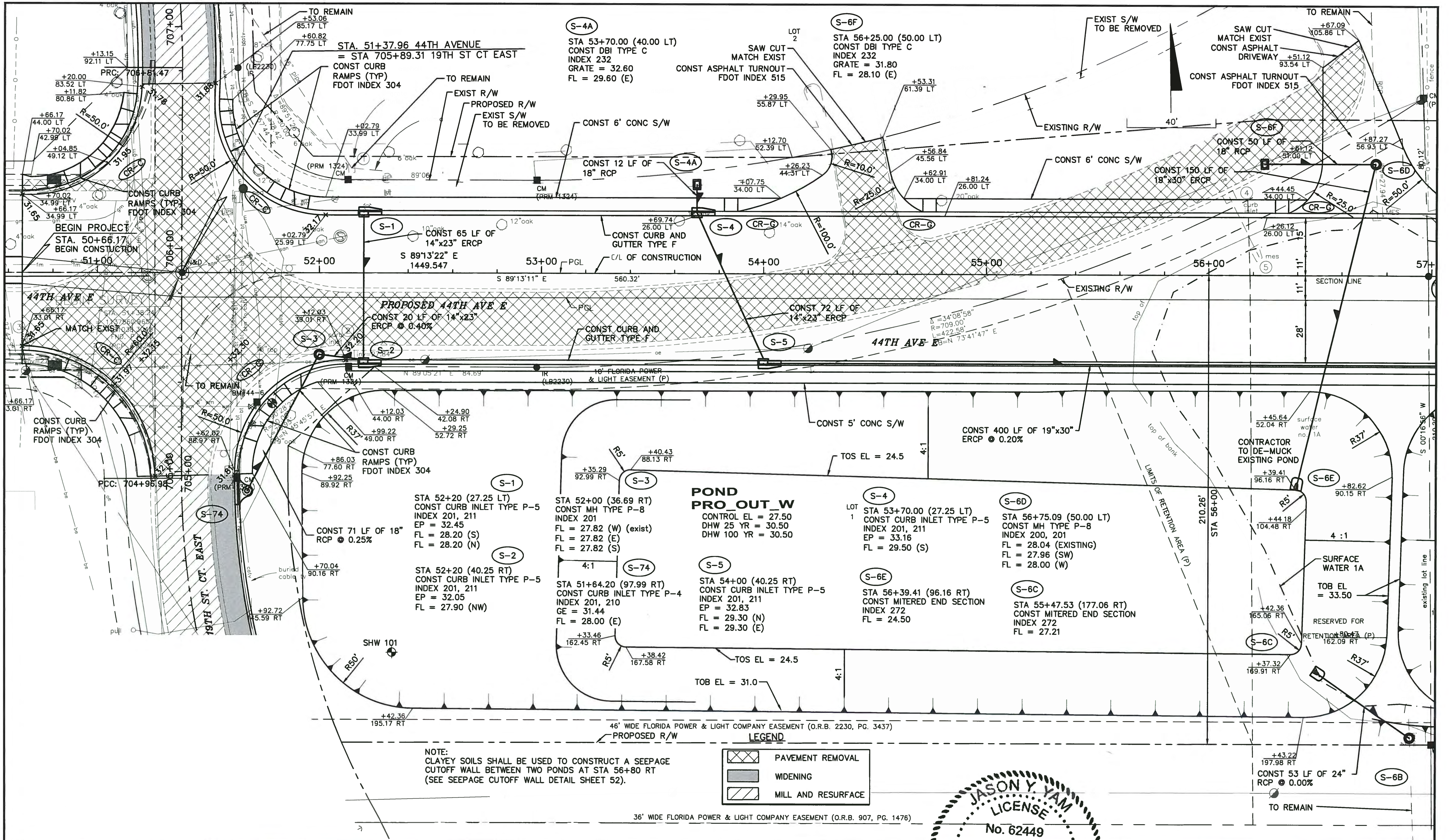
- 1. REGULATORY SPEED ALONG US 301 IS 55 MPH.
- 2. THE COST OF MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE INCLUDED UNDER THE LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC, UNLESS A SEPARATE PAY ITEM IS PROVIDED.
- 3. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE MOVEMENT OF PEDESTRIANS AND VEHICLES THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING DELIVERIES AND DROP-OFFS IN WORK ZONES.
- 4. THE CONTRACT DRAWINGS INCLUDE MOT PHASING NOTES AND PLANS. THE CONTRACTOR SHALL PROVIDE A DETAILED MAINTENANCE OF TRAFFIC PLAN, SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER (WITH ADVANCED FDOT MOT CERTIFICATION) FOR REVIEW PRIOR TO IMPLEMENTATION OF THE MAINTENANCE OF TRAFFIC PLAN FOR EACH PHASE OF CONSTRUCTION. MOT PLAN SHALL BE DESIGNED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (LATEST EDITION) AS WELL AS THE FDOT SERIES 800 STANDARD INDEXES. THE PLAN SHALL BE SUBMITTED WITHIN 30 DAYS AFTER CONTRACT AWARD. THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "DESIGN STANDARDS, INDEX SERIES 800", AS AMENDED BY THE SPECIFICATIONS FOR THIS PROJECT.
- 5. ACCESS SHALL BE CONTINUOUSLY MAINTAINED AT ALL SIDE STREETS AND DRIVEWAYS FOR THE DURATION OF THE PROJECT, UNLESS PREVIOUSLY APPROVED BY MANATEE COUNTY.
- 6. FOR SIDE STREET INTERSECTIONS, LANE CLOSURE SHALL BE LIMITED TO ONE LANE AT ALL TIMES. AT A MINIMUM, ONE-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS. TWO-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED DURING PERIODS OF LANE CLOSURE RESTRICTIONS AND WHEN CONSTRUCTION ACTIVITIES ARE BEYOND THE LIMITS OF THE INTERSECTIONS.
- 7. UPON WRITTEN APPROVAL FROM MANATEE COUNTY, THE CONTRACTOR MAY CLOSE TO THROUGH-TRAFFIC THAT PORTION OF SIDE STREETS WITHIN THE LIMITS OF CONSTRUCTION. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED.
- 8. DURING PERIODS OF LANE CLOSURES, THE CONTRACTOR SHALL PROVIDE AN FDOT CERTIFIED WORK SITE TRAFFIC SUPERVISOR FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES (E.G. BARRICADES, SIGNS, ARROW PANELS, ETC.) AS OUTLINED IN THE FDOT STANDARD SPECIFICATIONS AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
- 9. THE CONTRACTOR SHALL NOTIFY ALL LOCAL LAW ENFORCEMENT PRIOR TO A LANE CLOSURE THAT WILL EXCEED TWO HOURS.
- 10. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT OR REMOVE LANE CLOSURE OR CHANNELIZATION. UNDER THESE CONDITIONS, THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL ALSO RESPOND WITHIN THE CONSTRAINTS OUTLINED IN THE STANDARD SPECIFICATIONS UPON NOTIFICATION BY THE ENGINEER OF ANY REQUESTS FOR CORRECTION, IMPROVEMENT, OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES. THE COST OF THIS SERVICE SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR MAINTENANCE OF TRAFFIC.
- 11. TEMPORARY PAVEMENT SHALL CONSIST OF 1" STRUCTURAL COURSE TYPE SP (TRAFFIC C) OVER OPTIONAL BASE GROUP 4 OVER A COMPACTED SUBGRADE.
- 12. THE SEQUENCE OF CONSTRUCTION AND METHODS DESCRIBED IN THIS PLAN SET IS A SUGGESTED MAINTENANCE OF TRAFFIC SCHEME.

**SIGNING AND PAVEMENT MARKING GENERAL NOTES**

- 1. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2014), AND FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (DATED 2014), AND THE FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION.
- 2. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
- 3. PAVEMENT MARKING DIRECTIONAL ARROWS SHALL BE SPACED AS PER FDOT DESIGN STANDARDS INDEX 17346.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- 5. REFER TO FDOT DESIGN STANDARDS INDEX NO. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
- 6. ALL PERMANENT PAVEMENT MARKINGS PLACED WITHIN THE FDOT RIGHT OF WAY SHALL BE THERMOPLASTIC.
- 7. ALL PERMANENT PAVEMENT MARKINGS PLACED WITHIN THE MANATEE COUNTY RIGHT OF WAY SHALL BE THERMOPLASTIC EXCEPT WHEN OTHERWISE NOTED IN PLANS WHERE PAINT IS SPECIFIED.
- 8. ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE CERTIFIED LEAD FREE.
- 9. TEMPORARY PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED PRIOR TO OPENING LANES TO TRAFFIC. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT DESIGN STANDARDS INDEX.
- 10. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY HYDROBLASTING.
- 11. ALL PAVEMENT MARKINGS SHALL MEET THE CRITERIA SPECIFIED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2014 EDITION.
- 12. ALL SIGNS SHALL BE INSTALLED ACCORDING TO THE LATEST FDOT DESIGN STANDARDS INDEX AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2014 EDITION.
- 13. SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
- 14. ALL ROUTE MARKER AUXILIARIES SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE ROUTE MARKER THEY SUPPLEMENT.
- 15. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION.
- 16. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 17. CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MULTI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN GROUND SIGNS SHALL BE ALUMINUM ROUND TUBE.
- 18. ALL SINGLE POST AND MULTI-POST SIGNS WITHIN THE LIMITS OF THE PROJECT SHALL BE REMOVED UNLESS OTHERWISE SHOWN IN THE PLANS. REMOVAL INCLUDES REMOVING FOUNDATIONS AND BACKFILLING THE HOLES LEFT AFTER REMOVAL.
- 19. ANY SIGN MOUNTED OVER A SIDEWALK SHALL HAVE A STANDARD CLEARANCE OF 8'.
- 20. STREET NAME SIGNS THAT ARE NOT SHOWN IN THE GUIDE SIGN WORK SHEET SECTION OF THE PLANS SHALL BE AS PER MANATEE COUNTY DESIGN REQUIREMENTS.
- 21. SIGNS THAT ARE EMBEDDED IN ASPHALT/CONCRETE SHALL BE INSTALLED IN PIPE SLEEVES.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL SIGNS THAT ARE TO BE PERMANENTLY REMOVED IN THIS PRODUCT.

				<b>MANATEE COUNTY</b>		<b>44TH AVENUE EAST ROADWAY EXTENSION</b>		 Shaping the Future 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificates of Authorization No. 29915				<b>GENERAL NOTES</b>		PROJECT NO: 00193-001-18
												DATE: 6-17-2015		
												SHEET NO: 16		

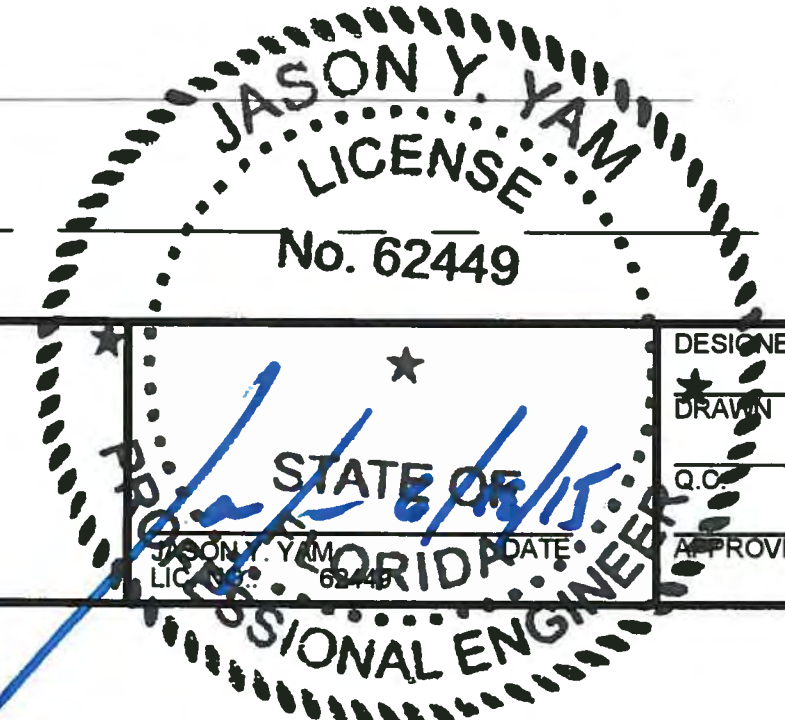




NOTE:  
CLAYEY SOILS SHALL BE USED TO CONSTRUCT A SEEPAGE CUTOFF WALL BETWEEN TWO PONDS AT STA 56+80 RT (SEE SEEPAGE CUTOFF WALL DETAIL SHEET 52).

**LEGEND**

	PAVEMENT REMOVAL
	WIDENING
	MILL AND RESURFACE



NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

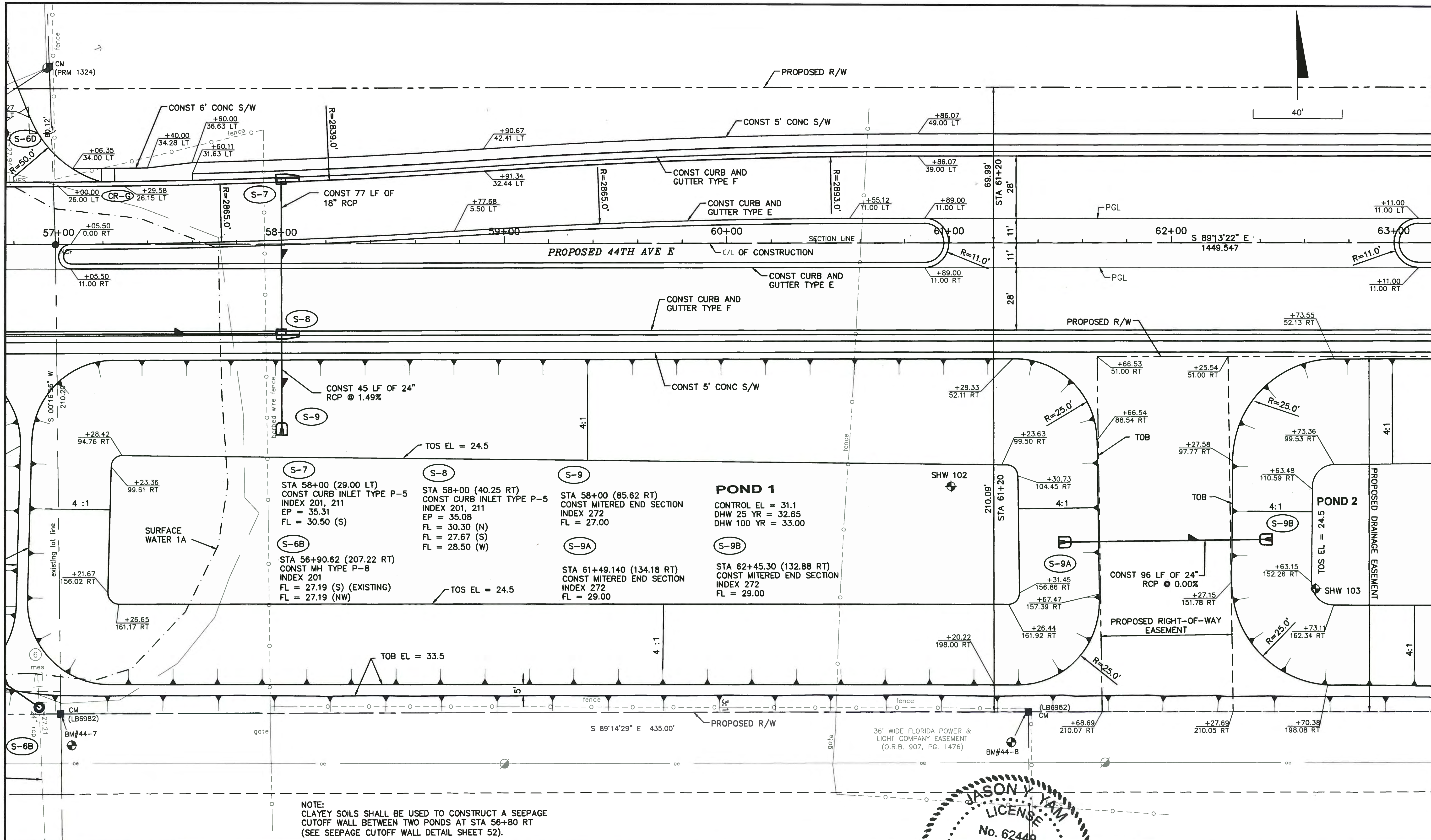
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**PLAN 44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	17

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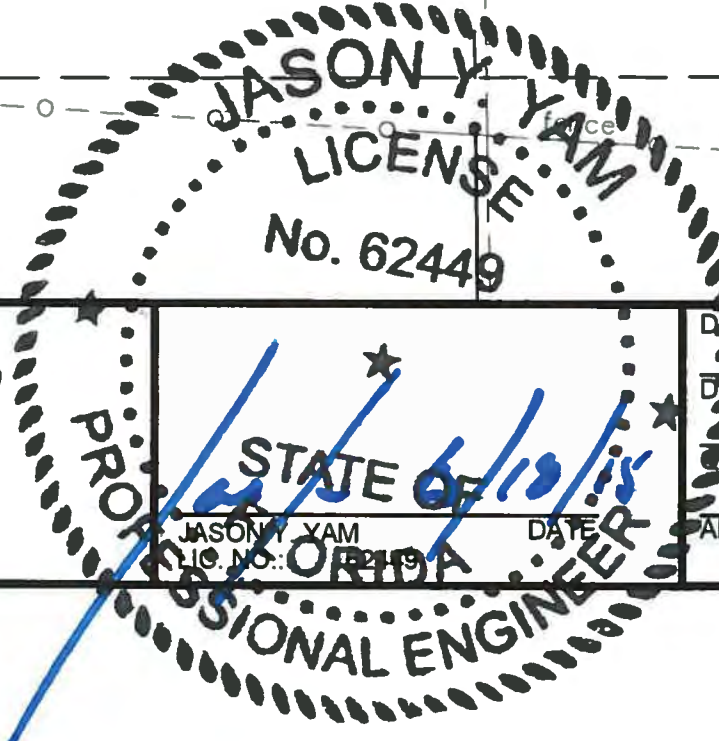
NOTE:  
 CLAYEY SOILS SHALL BE USED TO CONSTRUCT A SEEPAGE  
 CUTOFF WALL BETWEEN TWO PONDS AT STA 56+80 RT  
 (SEE SEEPAGE CUTOFF WALL DETAIL SHEET 52).

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

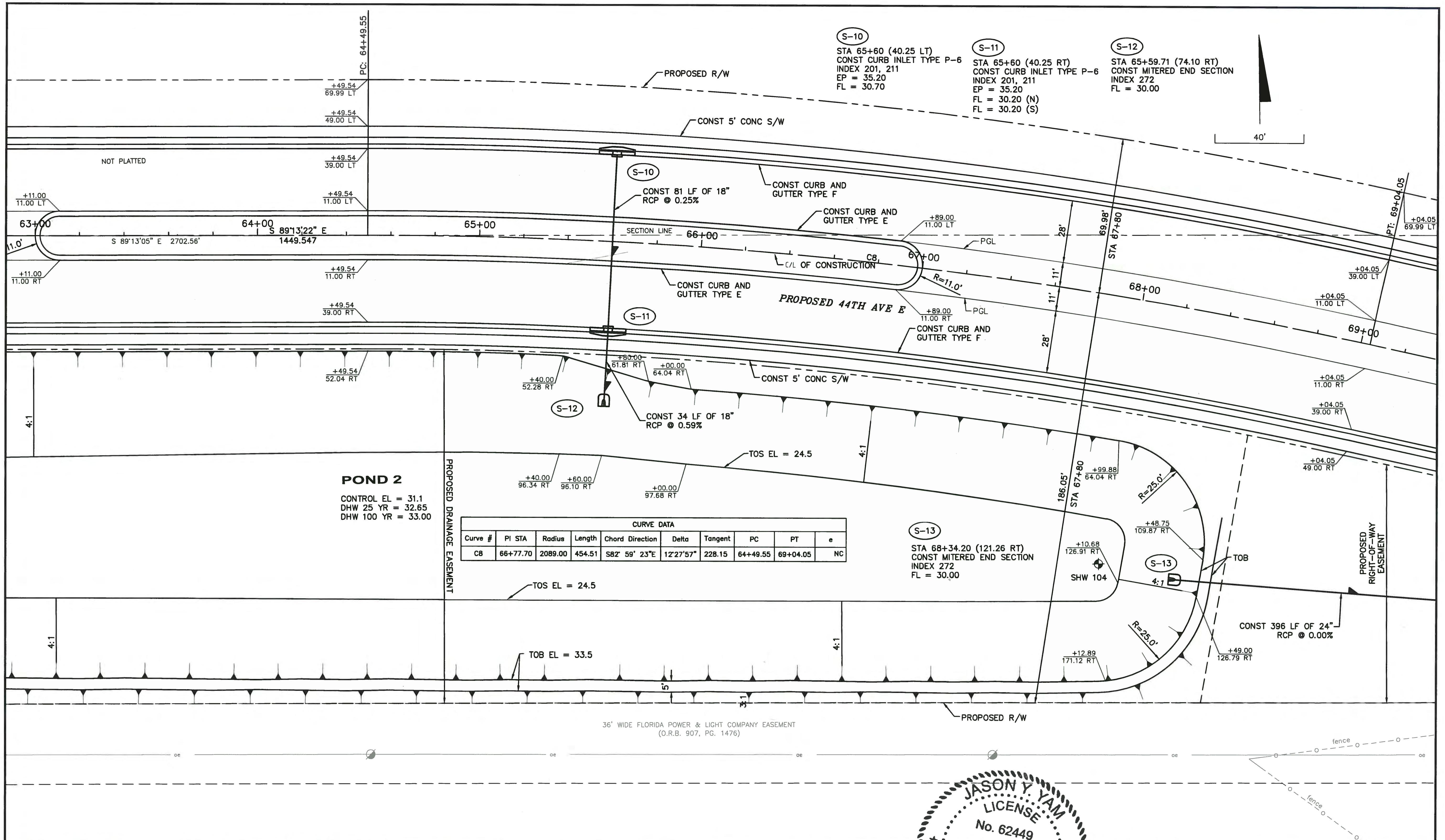
**44TH AVENUE EAST  
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**PLAN  
 44TH AVENUE EAST**

PROJECT NO: 00193-001-18
DATE: 6-17-2015
SHEET NO: 18

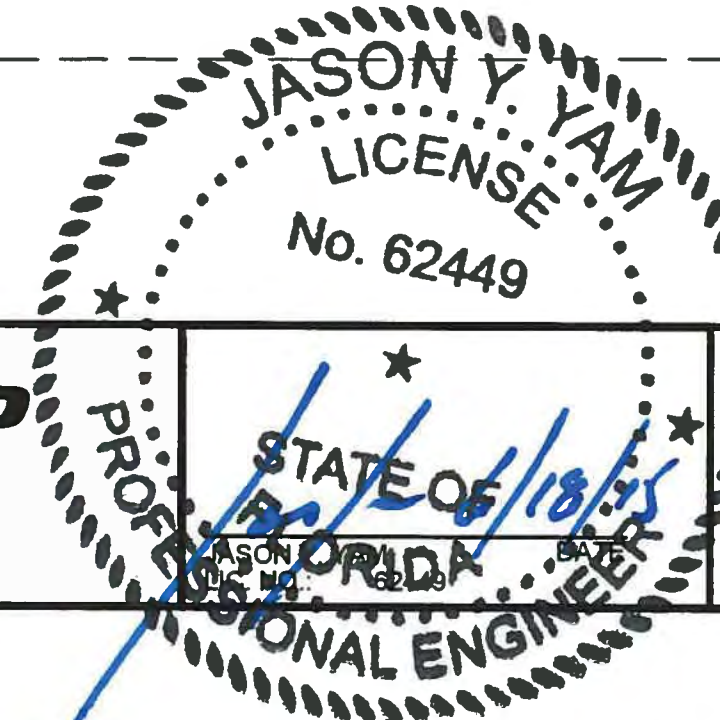


CURVE DATA

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C8	66+77.70	2089.00	454.51	S82° 59' 23"E	12° 27' 57"	228.15	64+49.55	69+04.05	NC

MANATEE COUNTY

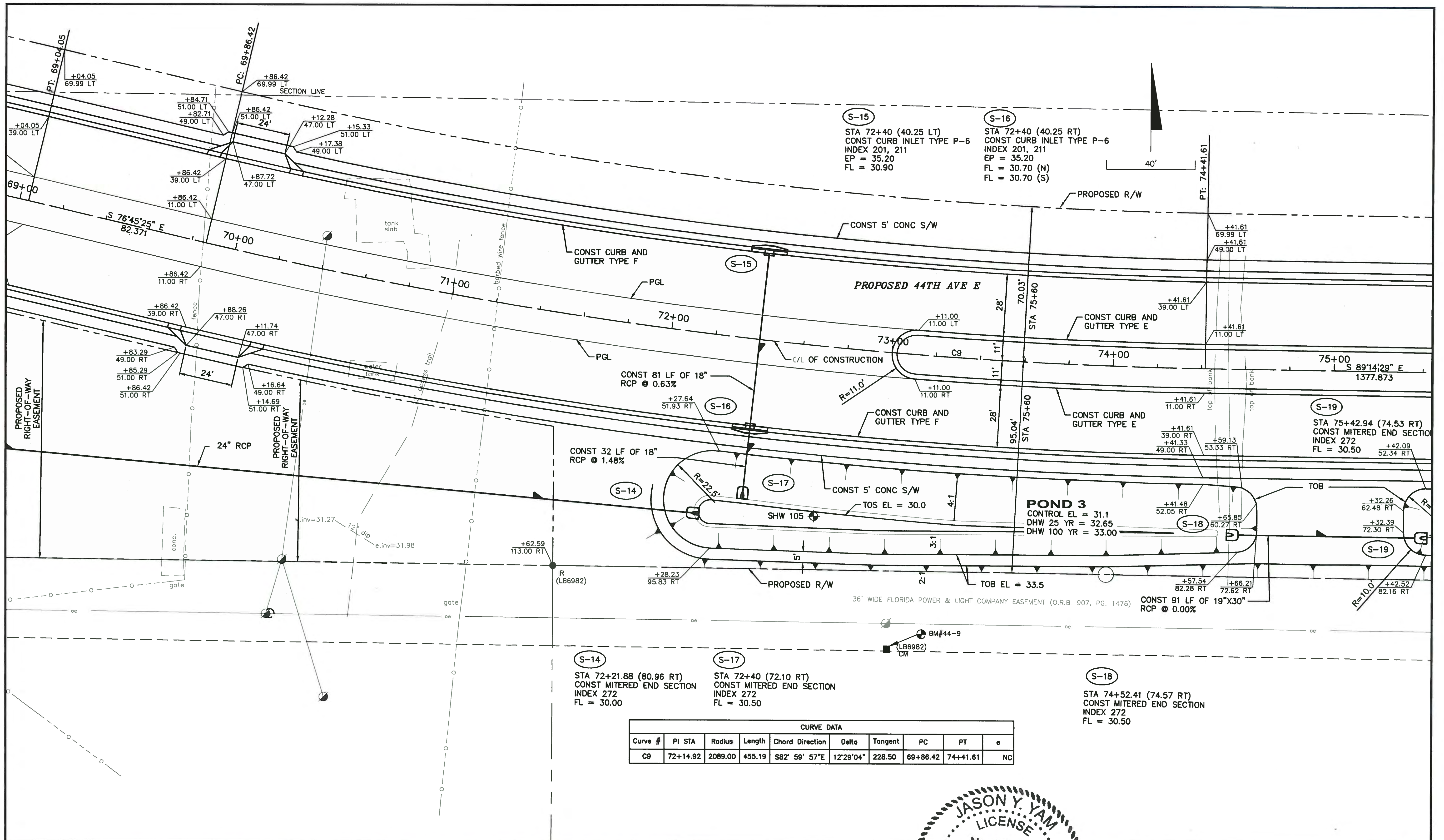
**44TH AVENUE EAST  
ROADWAY EXTENSION**



DESIGNED JCC  
DRAWN JCC  
CHECKED J.C.  
APPROVED

**PLAN  
44TH AVENUE EAST**

PROJECT NO:  
00193-001-18  
DATE:  
6-17-2015  
SHEET NO:  
19



CURVE DATA

Curve #	PI STA	Radius	Length	Chord Direction	Delta	Tangent	PC	PT	e
C9	72+14.92	2089.00	455.19	S82° 59' 57"E	12°29'04"	228.50	69+86.42	74+41.61	NC

NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

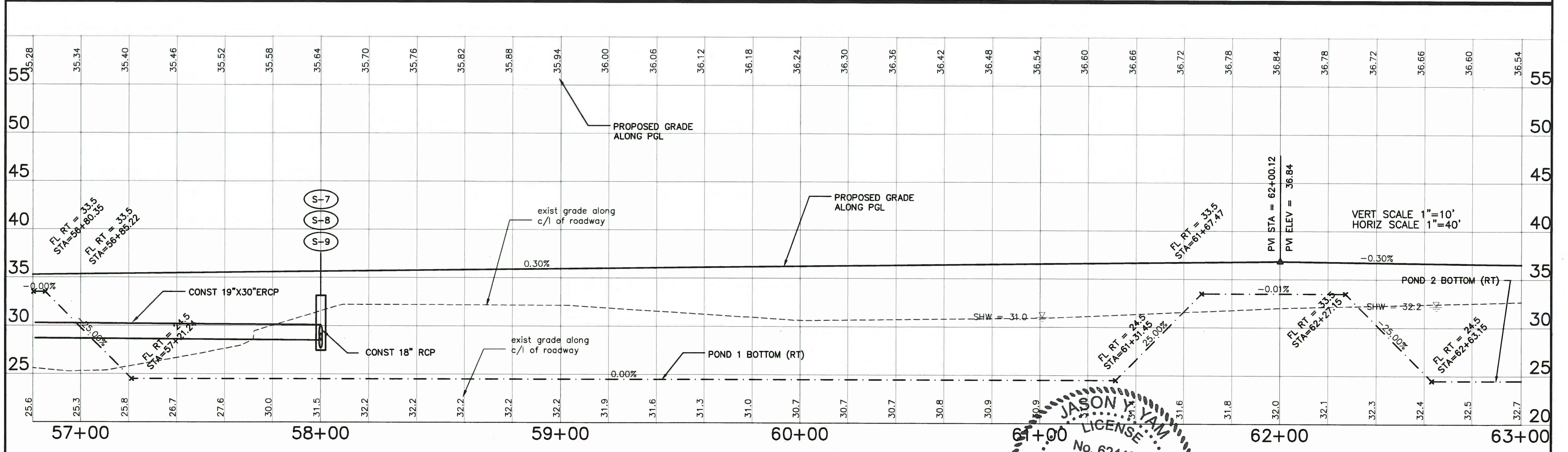
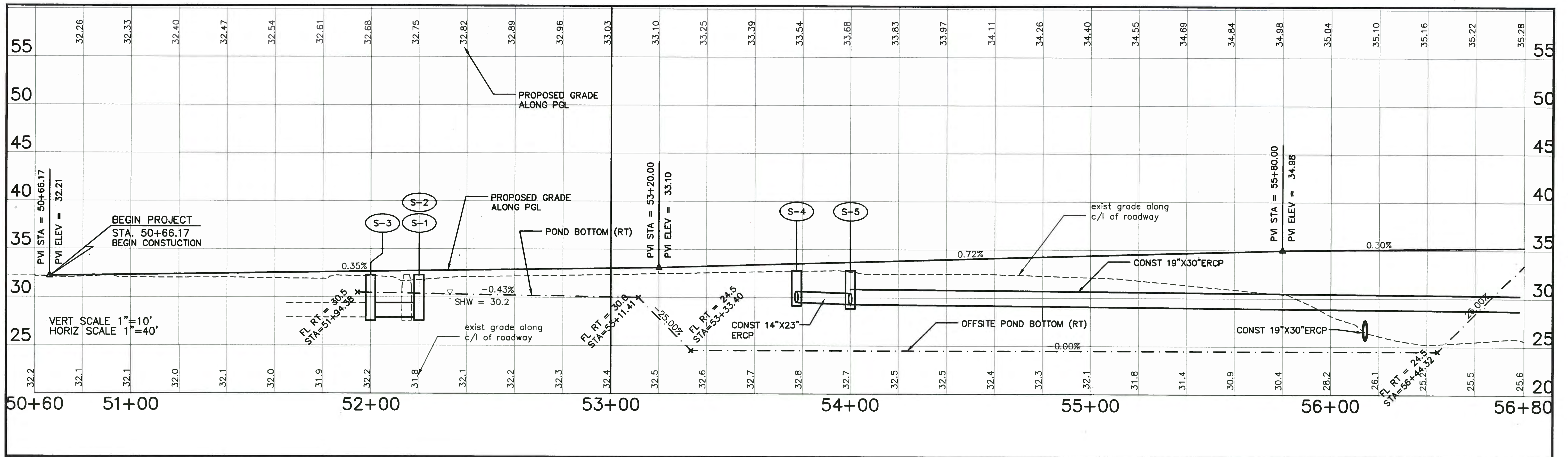
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JASON Y. YAM  
LICENSE  
No. 62449  
6/18/15  
PROFESSIONAL ENGINEER  
FLORIDA

DESIGNED JCC  
DRAWN JCC  
CHECKED JCC  
APPROVED

**PLAN  
44TH AVENUE EAST**

PROJECT NO:  
00193-001-18  
DATE:  
6-17-2015  
SHEET NO:  
20



NO.	DESCRIPTION	BY	DATE

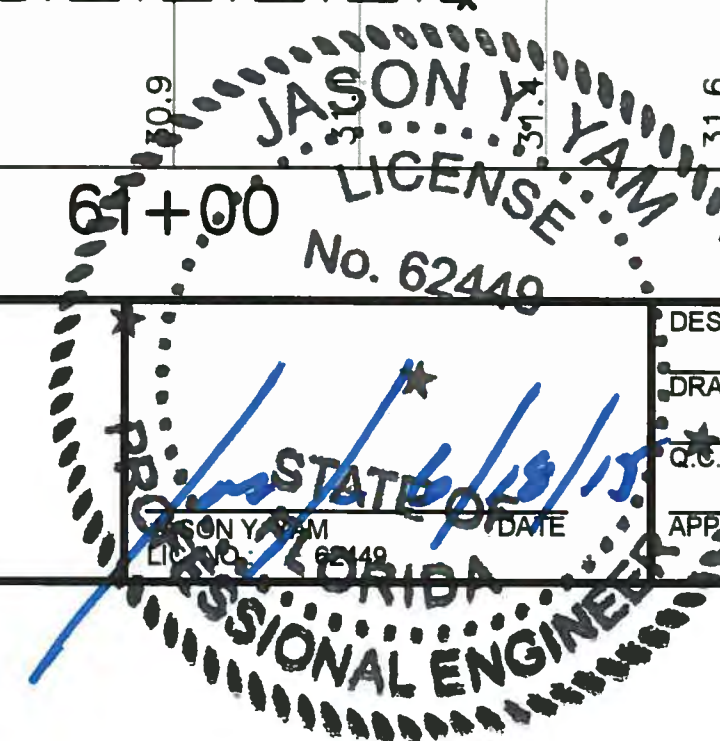
**MANATEE COUNTY**

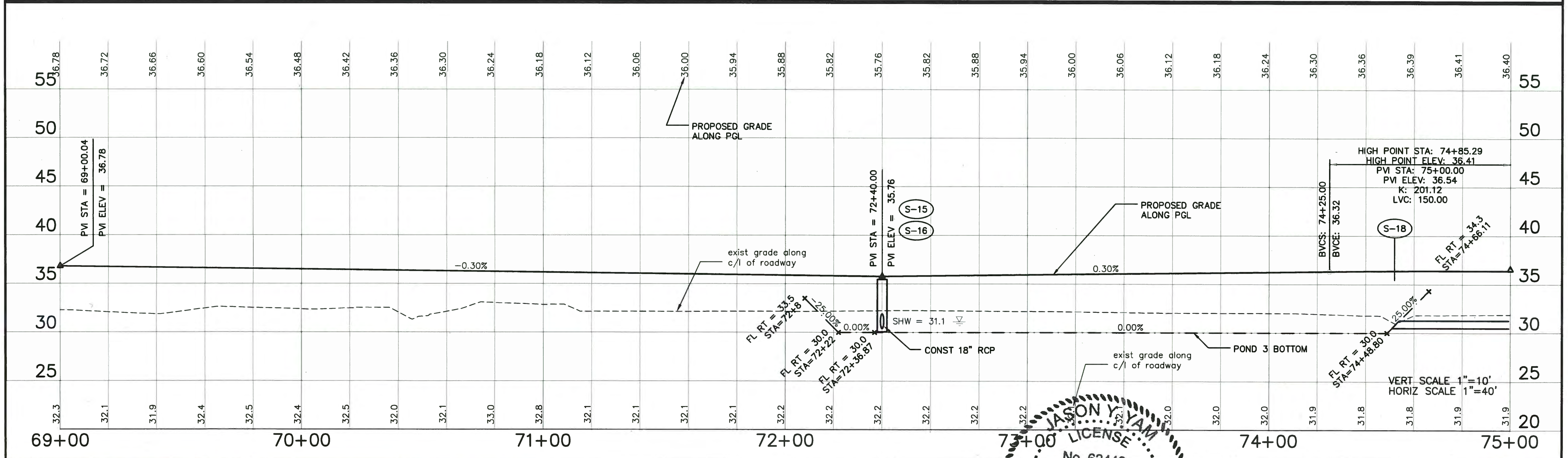
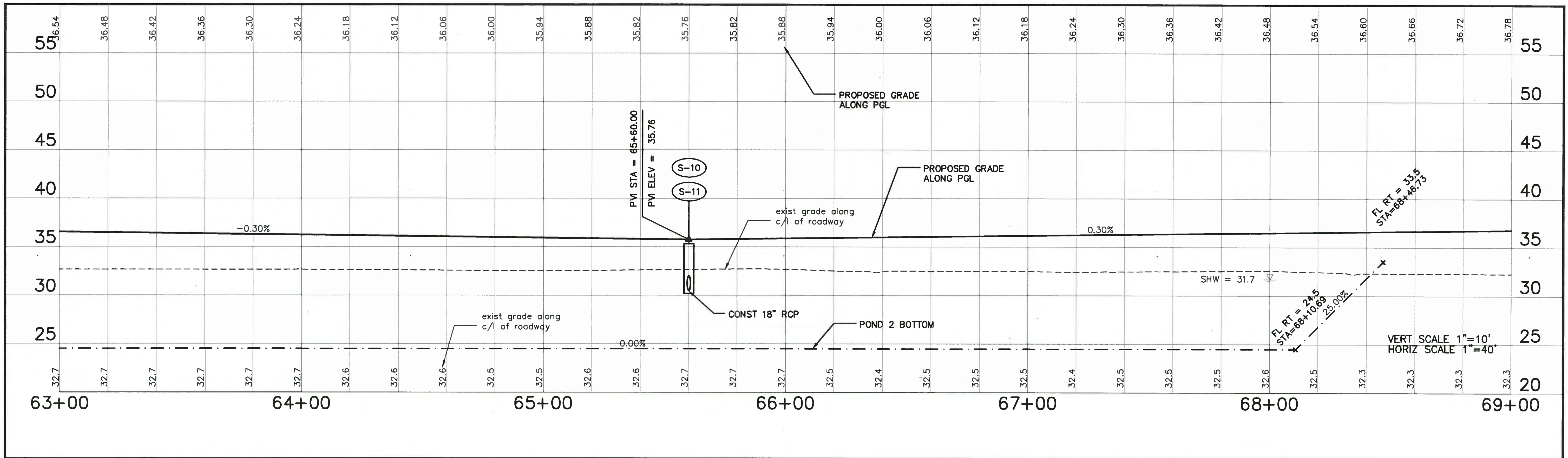
**44TH AVENUE EAST  
ROADWAY EXTENSION**

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**PROFILE  
44TH AVENUE EAST**

PROJECT NO:  
00193-001-18  
DATE:  
6-17-2015  
SHEET NO:  
21





NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

  
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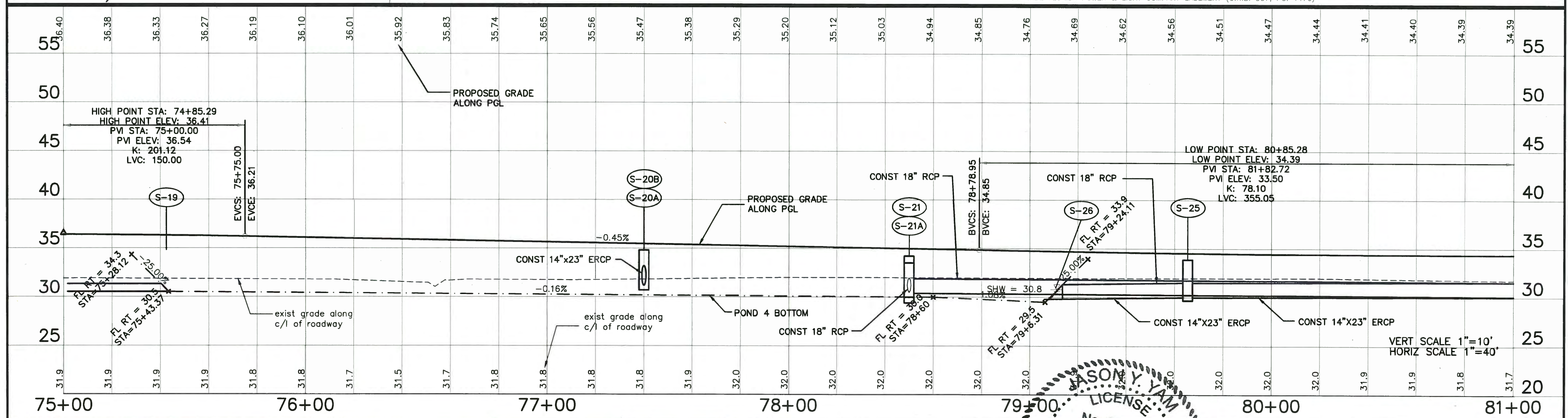
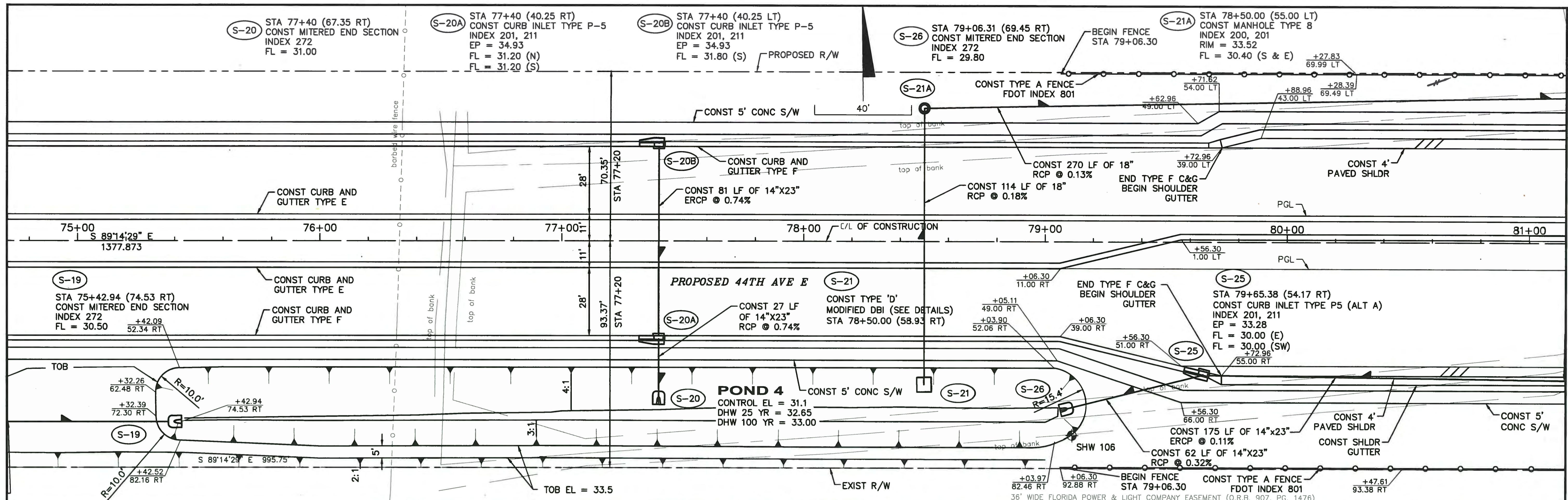
DESIGNED JCC  
 DRAWN JCC  
 CHECKED JCC  
 APPROVED JCC

**PROFILE  
44TH AVENUE EAST**

PROJECT NO: 00193-001-18  
 DATE: 6-17-2015  
 SHEET NO: 22

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NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

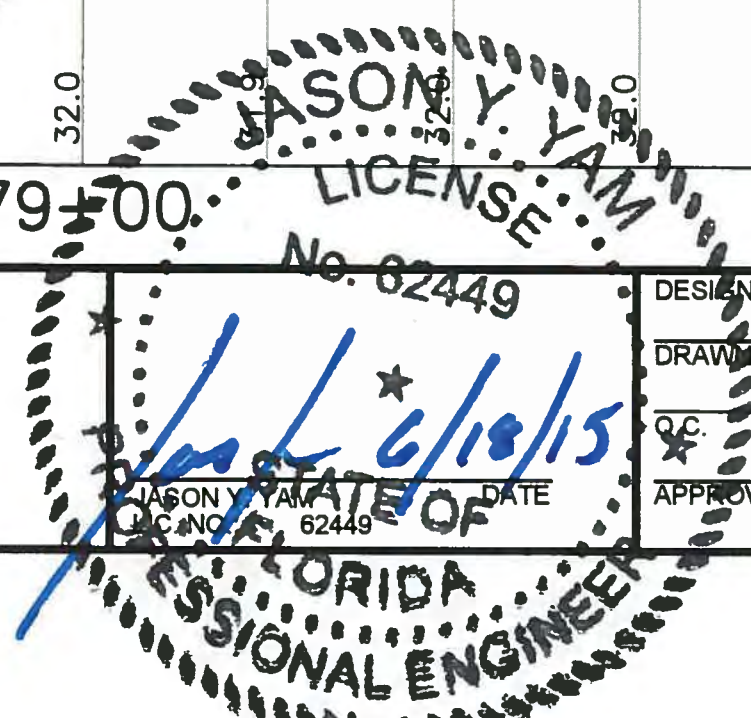
**44TH AVENUE EAST  
ROADWAY EXTENSION**

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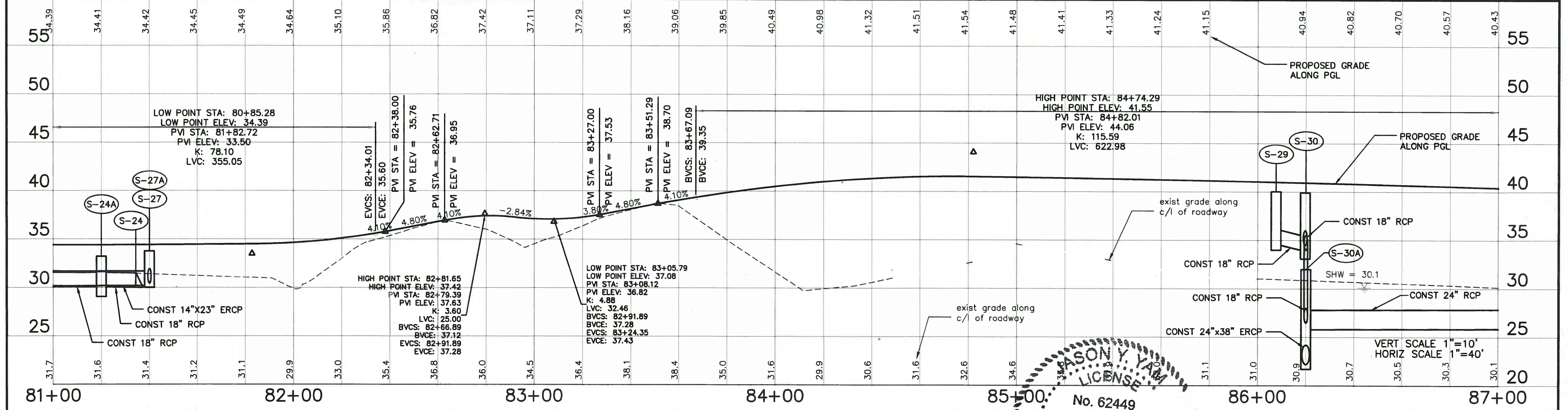
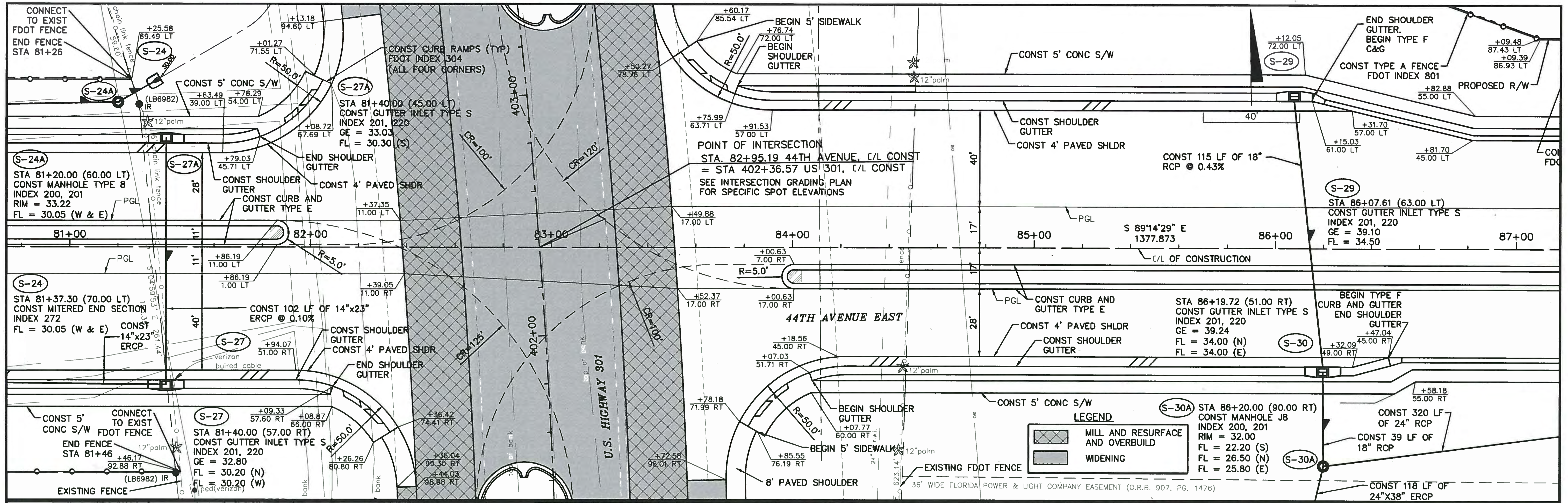
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APPROVED: JCC

**PLAN AND PROFILE  
44TH AVENUE EAST**

PROJECT NO:  
00193-001-18  
DATE:  
6-17-2015  
SHEET NO:  
23



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NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

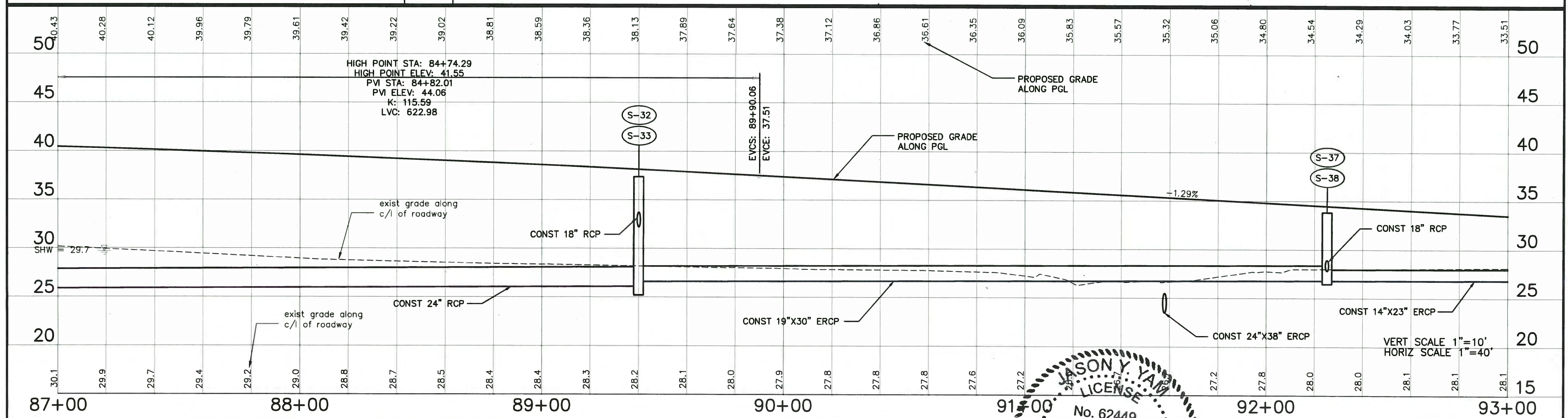
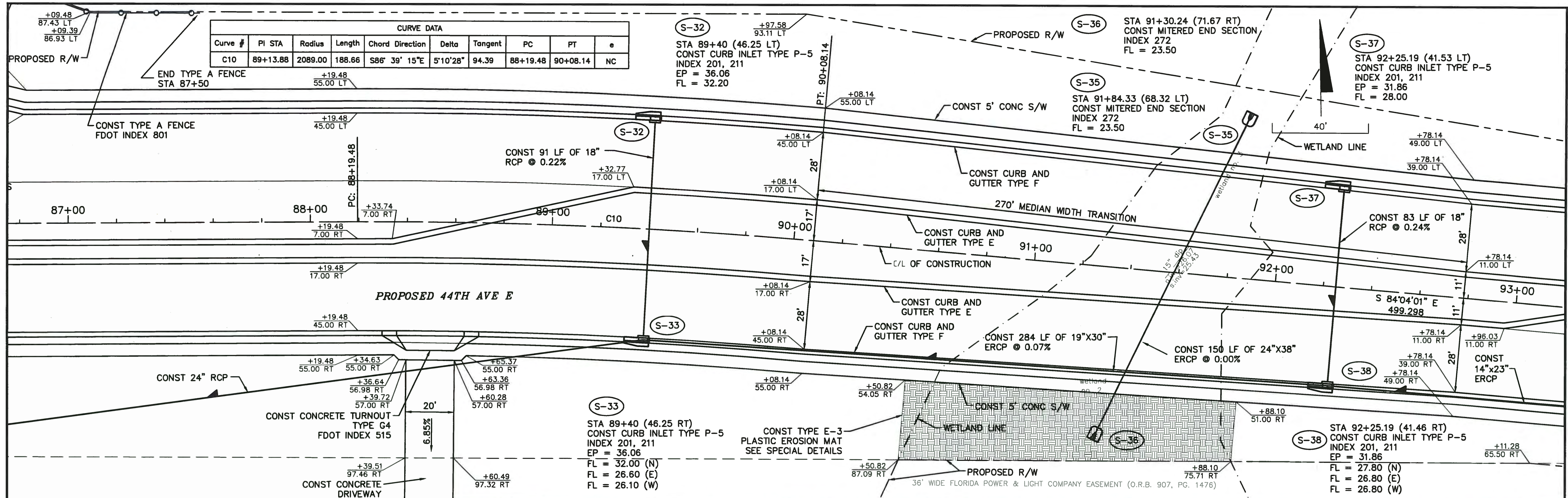
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**PLAN AND PROFILE  
44TH AVENUE EAST**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	24

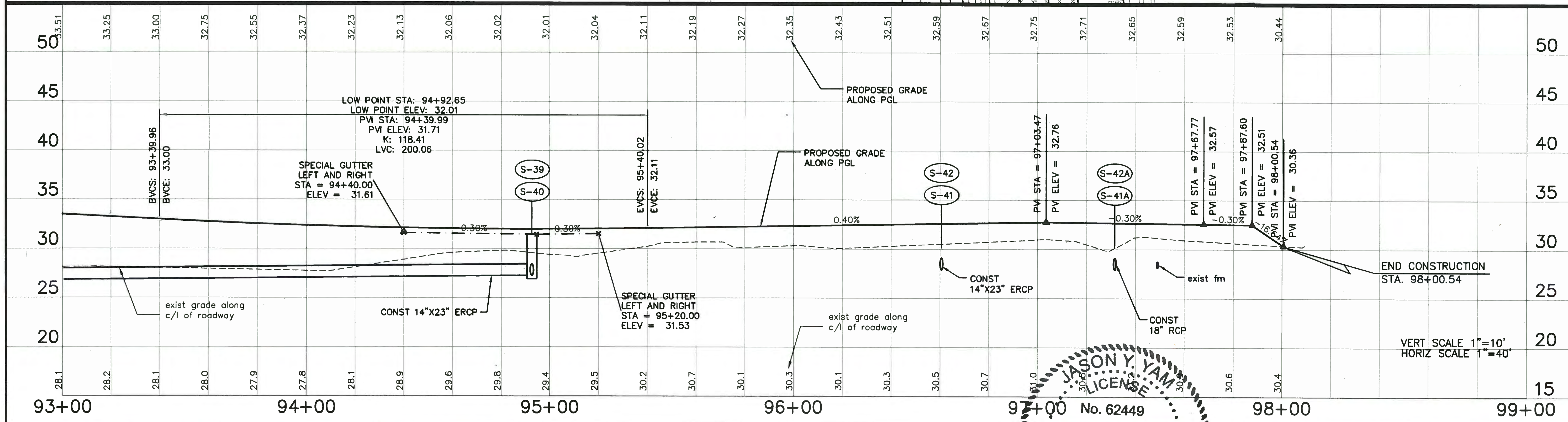
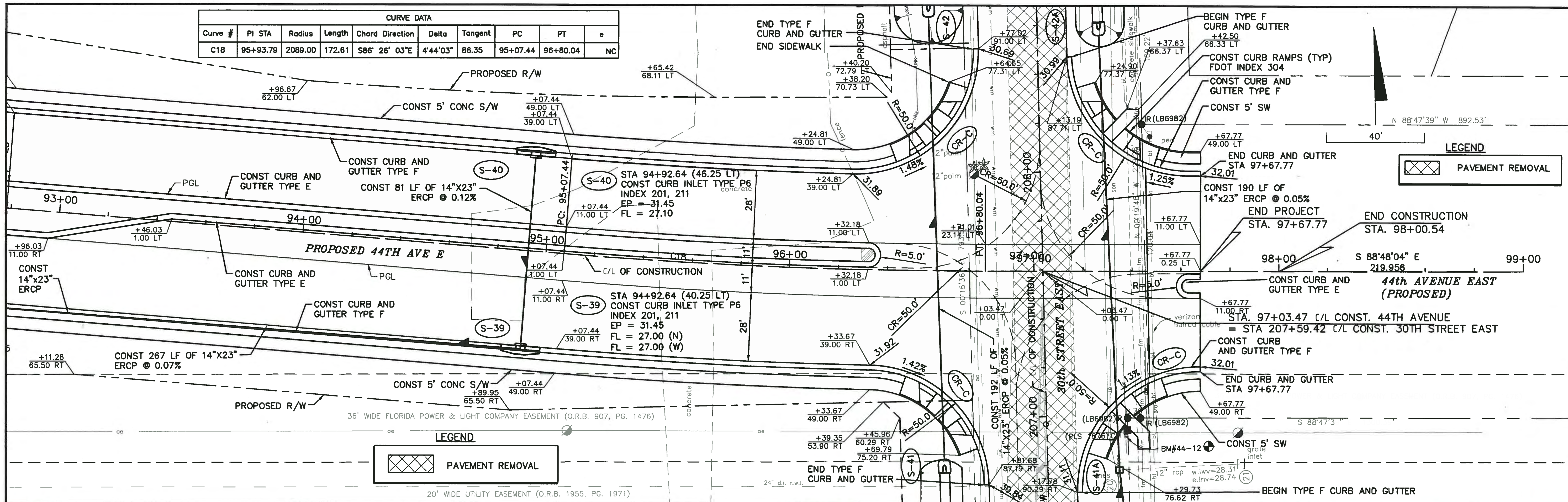
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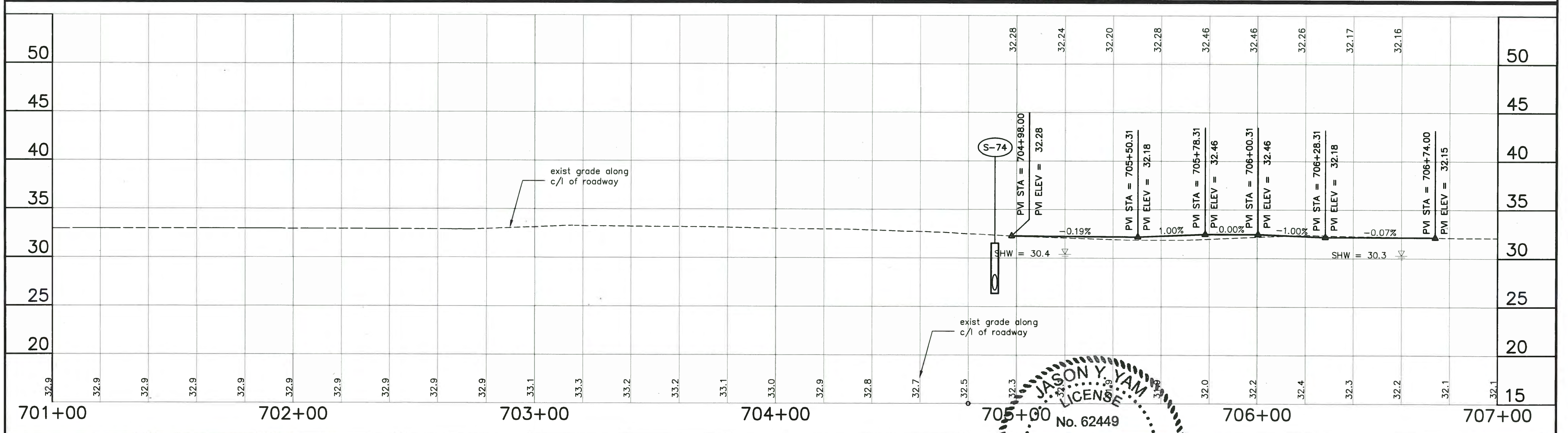
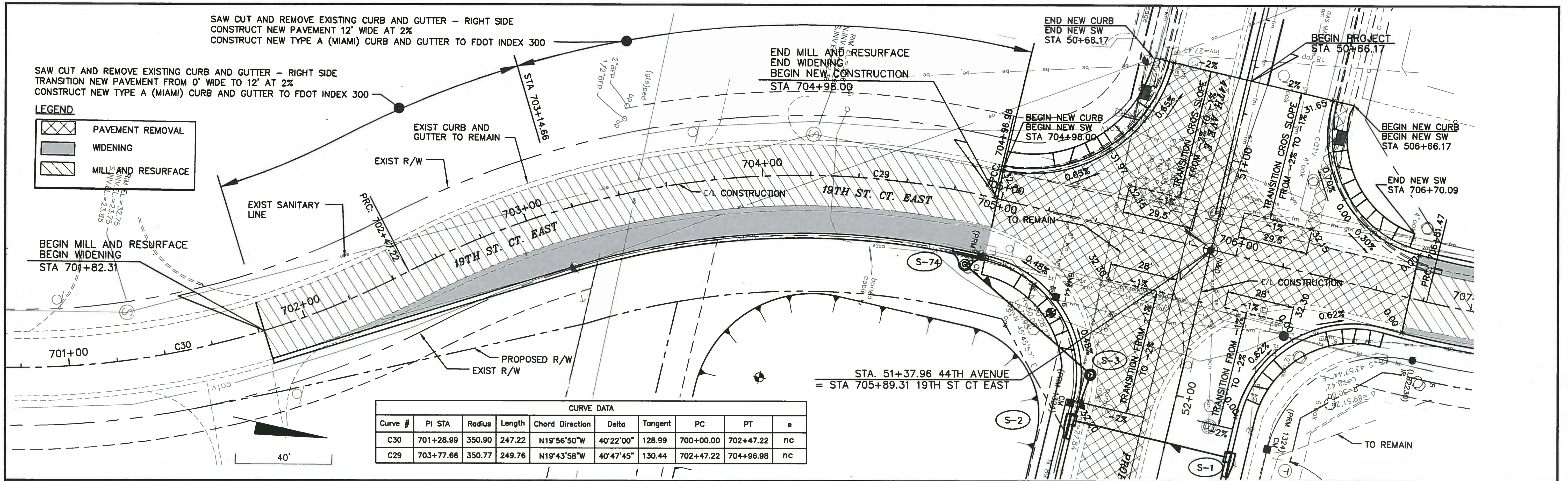
CURVE DATA									
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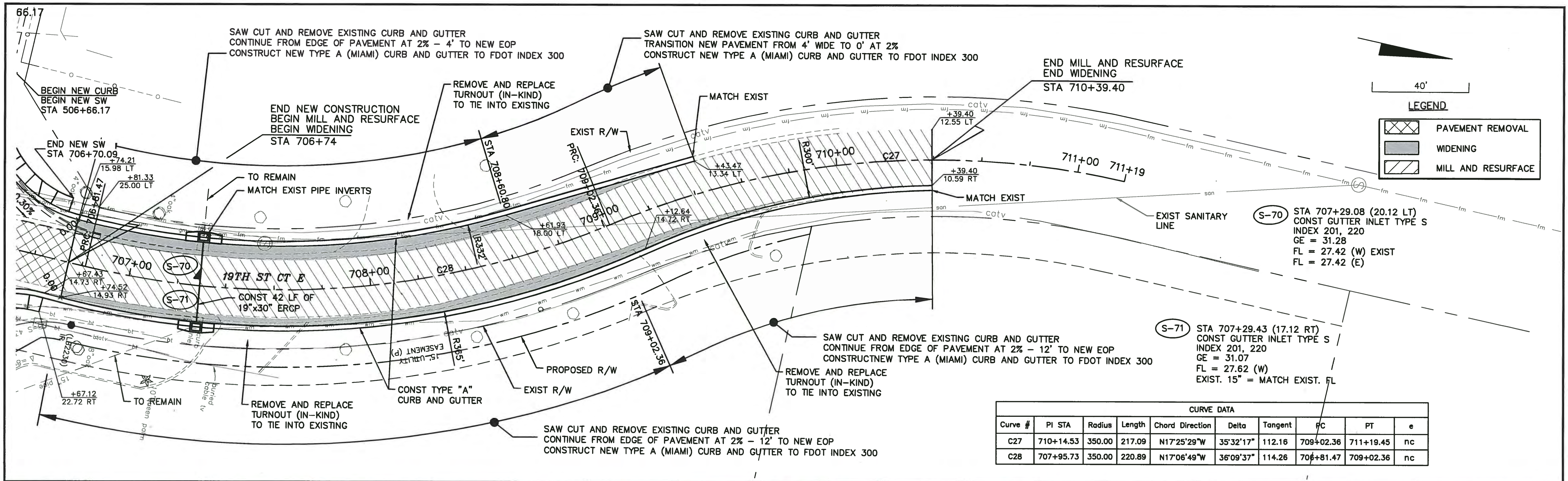
MANATEE COUNTY		44TH AVENUE EAST ROADWAY EXTENSION		 <b>Cardno</b> Shaping the Future 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759 TEL: (727) 531-3505 (800) 861-8314 www.cardno.com Certificate of Authorization No. 29815		<b>PLAN AND PROFILE</b> <b>44TH AVENUE EAST</b>		PROJECT NO: 00193-001-18 DATE: 6-17-2015 SHEET NO: 26	
DESIGNED	JCC	DRAWN	JCC	APPROVED					

**JASON Y. YAM**  
**PROFESSIONAL ENGINEER**  
**FLORIDA**  
**NO. 62449**

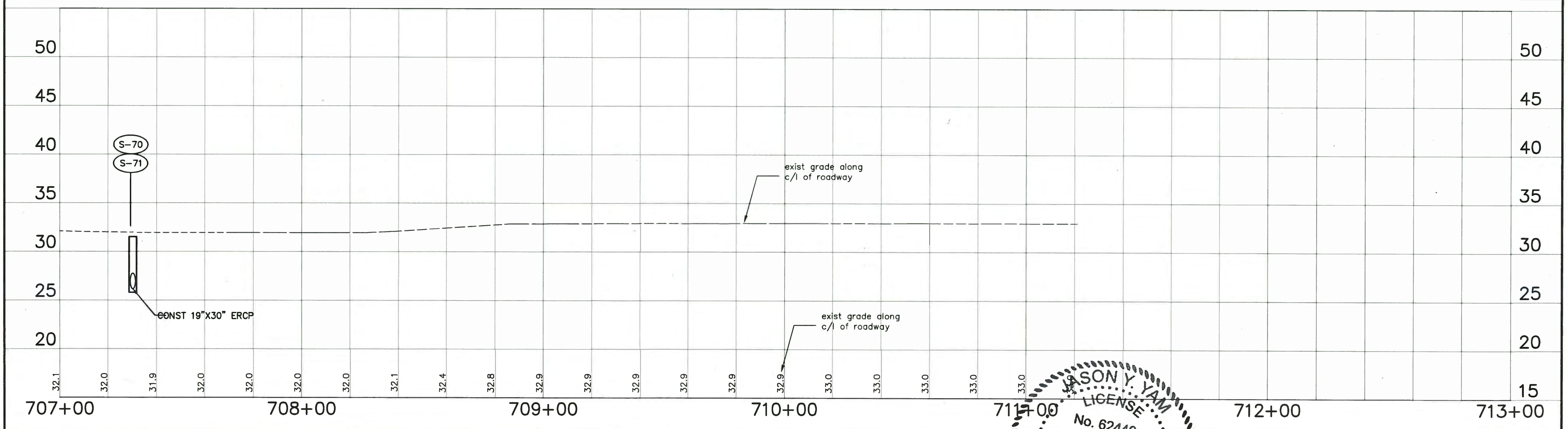
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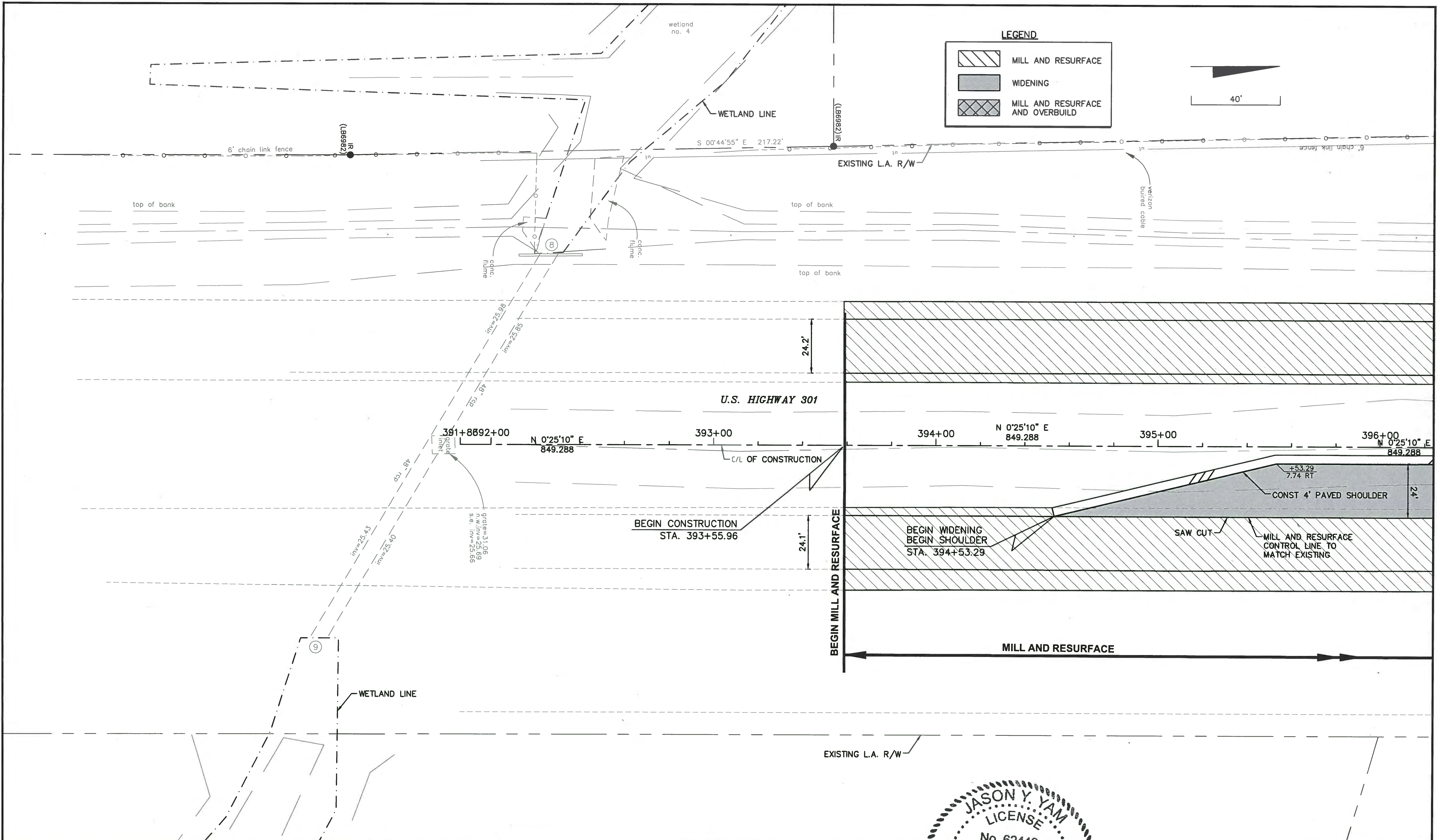


CURVE DATA									
Curve #	PI STA	Radius	Length	Chord Direction	Delta	Tangent	PC	PT	e
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C28	707+95.73	350.00	220.89	N17°06'49"W	36°09'37"	114.26	706+81.47	709+02.36	nc



	<b>MANATEE COUNTY</b>	<b>44TH AVENUE EAST ROADWAY EXTENSION</b>	<b>Cardno</b> Shaping the Future <small>380 PARK PLACE BLVD, STE 300, CLEARWATER, FL          33759 TEL: (727) 531-3505 (800) 861-8314          www.cardno.com Certificate of Authorization No. 25915</small>		<b>DESIGNED</b> JCC <b>DRAWN</b> JCC <b>CHECKED</b> JCC <b>APPROVED</b>	<b>PLAN AND PROFILE 19TH STREET COURT EAST</b>	PROJECT NO: 00193-001-18 DATE: 6-17-2015 SHEET NO: 28
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NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST ROADWAY EXTENSION**

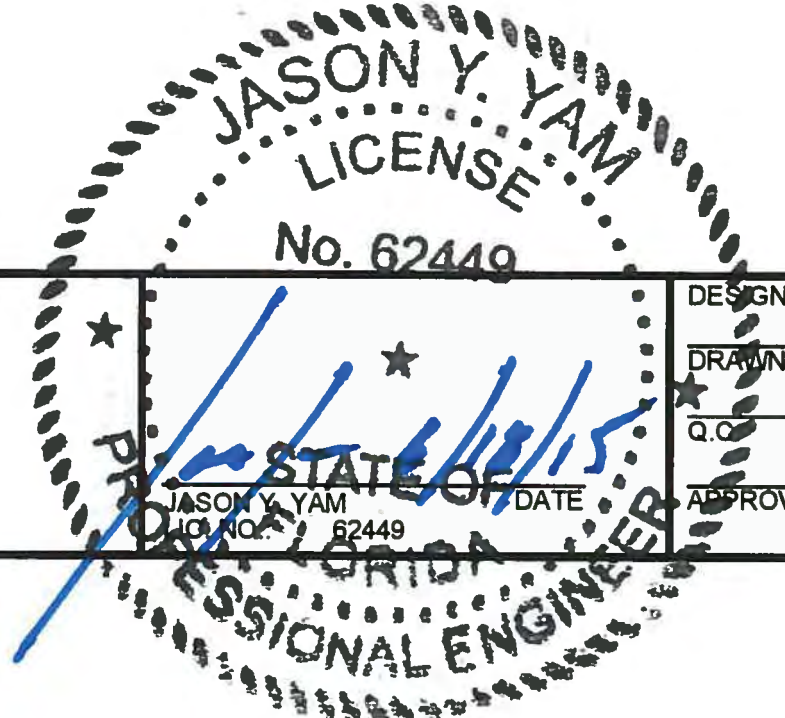
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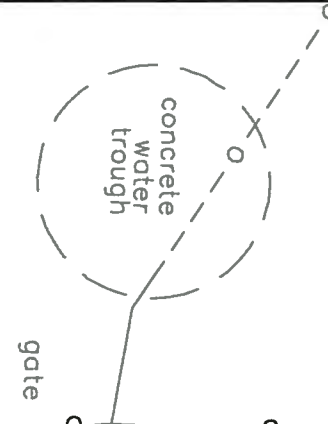
**PLAN US 301**

DESIGNED JCC  
DRAWN JCC  
G.C. APPROVED

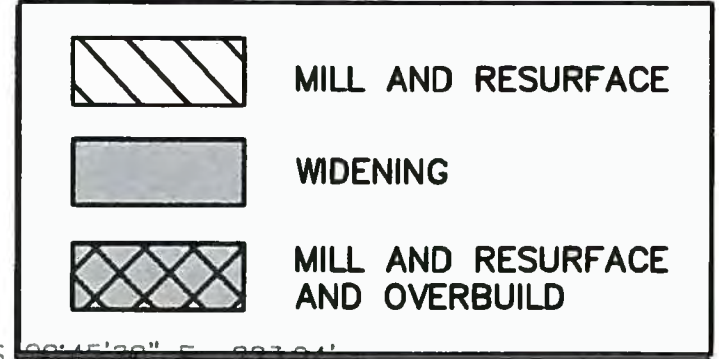
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DATE: 6-17-2015  
SHEET NO: 29



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**LEGEND**



CONST TYPE A FENCE  
FDOT INDEX 801

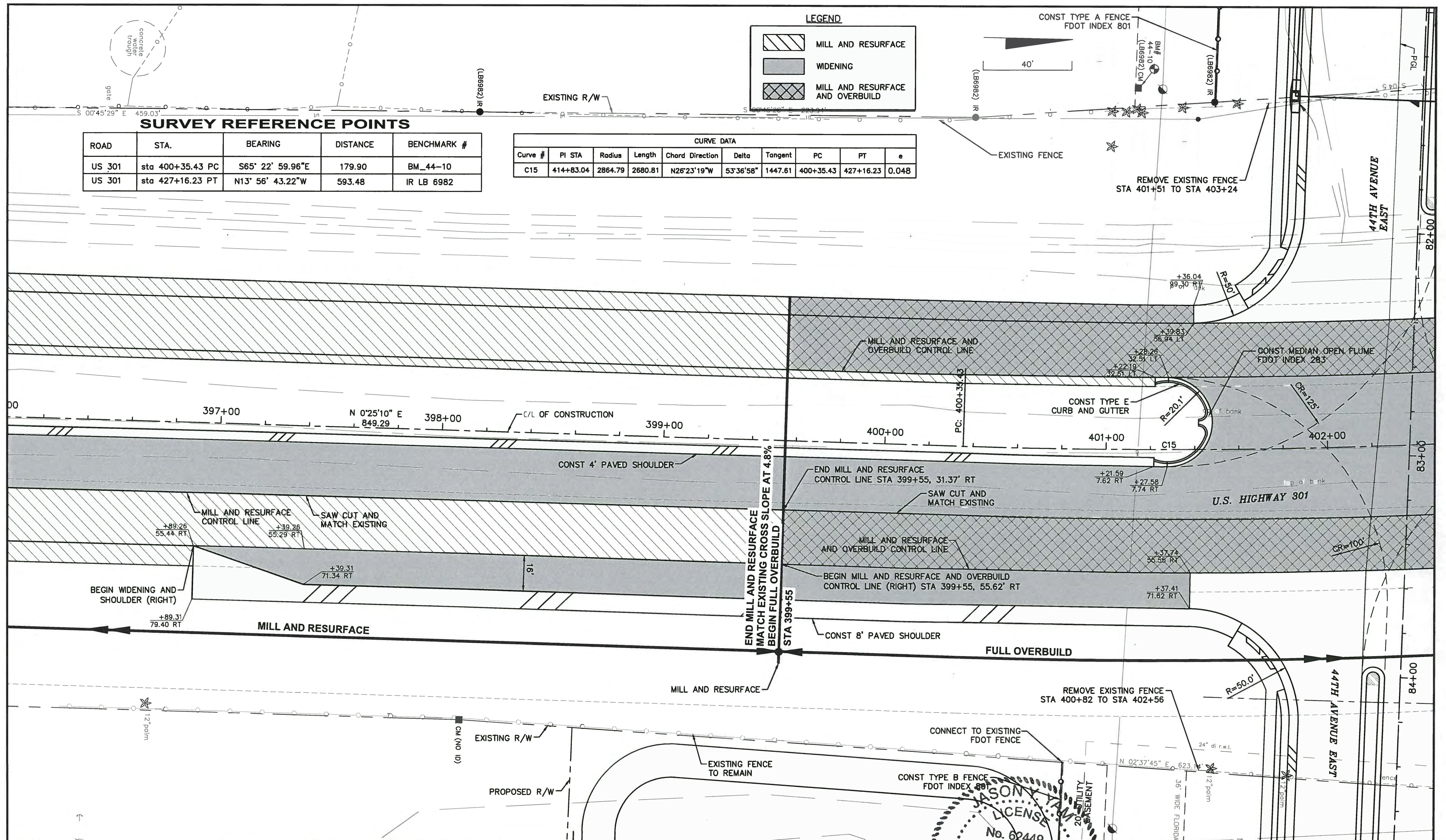


**SURVEY REFERENCE POINTS**

ROAD	STA.	BEARING	DISTANCE	BENCHMARK #
US 301	sta 400+35.43 PC	S65° 22' 59.96"E	179.90	BM_44-10
US 301	sta 427+16.23 PT	N13° 56' 43.22"W	593.48	IR LB 6982

**CURVE DATA**

Curve #	PI STA	Radius	Length	Chord Direction	Delta	Tangent	PC	PT	e
C15	414+83.04	2864.79	2680.81	N26°23'19"W	53°36'58"	1447.61	400+35.43	427+16.23	0.048



NO.	DESCRIPTION	BY	DATE

**MANATEE COUNTY**

**44TH AVENUE EAST  
ROADWAY EXTENSION**

DESIGNED	JCC
DRAWN	JCC
Q.C.	JCC
APPROVED	

**PLAN  
US 301**

PROJECT NO:	00193-001-18
DATE:	6-17-2015
SHEET NO:	30

FILE: J:\00193\00193001-18\ACAD\dwg\PP19300118-1.dwg LAST SAVED: Tue, 06/16/15 4:21p PLOTTED: Tue, 06/16/15 5:04p BY: John.Hutchison