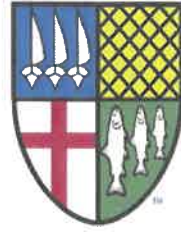


THE TOWN OF
Windermere



MAYOR AND COUNCIL OF THE TOWN OF WINDERMERE

Agenda

Mayor Jim O'Brien
Council Members
Robert McKinley
Andy Williams
Chris Sapp
Bill Martini
Liz Andert

Agenda

WORKSHOP

September 22, 2020

6:00 PM

MEETING TO BE HELD VIRTUALLY ON ZOOM

Join Zoom Meeting

<https://zoom.us/j/95475143900?pwd=anFweHNOOXY3cVhycDR2cEc4V2F0Zz09>

Meeting ID: 954 7514 3900

Passcode: 686971

One tap mobile

+13126266799,,95475143900# US (Chicago)

+16465588656,,95475143900# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

+1 301 715 8592 US (Germantown)

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)
Meeting ID: 954 7514 3900
Find your local number: <https://zoom.us/j/95475143900>

PLEASE NOTE: IN ACCORDANCE WITH F.S. 286.26: Person with disabilities needing assistance to participate in any such proceeding should contact the Office of the Town Clerk at least 48 hours beforehand at (407) 876-2563

Pursuant to Resolution No. 2005-12 adopted on December 13, 2005, the following Civility Code shall govern all proceedings before the Town of Windermere Town Council:

1. All electronic devices, including cell phones and pagers, shall be either turned off or otherwise silenced.
2. Prolonged conversations shall be conducted outside Council meeting hall.
3. Whistling, heckling, gesturing, loud conversations, or other disruptive behavior is prohibited.
4. Only those individuals who have signed the speaker list and/or who have been recognized by the Mayor (or Chair) may address comments to the Council.
5. Comments at public hearings shall be limited to the subject being considered by the Council.
6. Comments at Open Forums shall be directed to Town issues.
7. All public comments shall avoid personal attacks and abusive language
8. No person attending a Town Council meeting is to harass, annoy, or otherwise disturb any other person in the room.

Any member of the public whose behavior is disruptive and violates the Town of Windermere Civility Code is subject to removal from the Town Council meeting by an officer and such other actions as may be appropriate. **PLEASE NOTE:** IN ACCORDANCE WITH F.S. 286.0105: Any person who desires to appeal any decision at this meeting will need a record of this proceeding. For this, such person may need to ensure that a verbatim record of such proceeding is made which includes the

AGENDA

- THE MEETING IS CALLED TO ORDER BY THE MAYOR
- FLAG SALUTE
- INVOCATION

1. OPEN FORUM/PUBLIC COMMENT (3 Minute Limit)

- a. Please email dburkhalter@town.windermere.fl.us prior to 5pm on September 21, 2020 to sign up
- b. Prior to meeting please state name, address and topic within chat box

2. SPECIAL PRESENTATION/PROCLAMATIONS/AWARDS

- a. First & Forest Stormwater Project Presentation (Attachments-KHA Presenting)
- b. Butler & 7th Ave Stormwater Improvements Projects Presentation (Attachments-KHA Presenting)

3. ~~TIMED ITEMS AND PUBLIC HEARING~~

4. ~~NEW BUSINESS~~

- a. ~~MINUTES~~
- b. ~~RESOLUTIONS/ORDINANCES FOR APPROVAL/FIRST READING~~
- c. ~~CONTRACTS & AGREEMENTS~~
- d. ~~FINANCIAL~~
- e. ~~OTHER ITEMS FOR CONSIDERATION:~~

5. MAYOR & COUNCIL LIAISON REPORTS

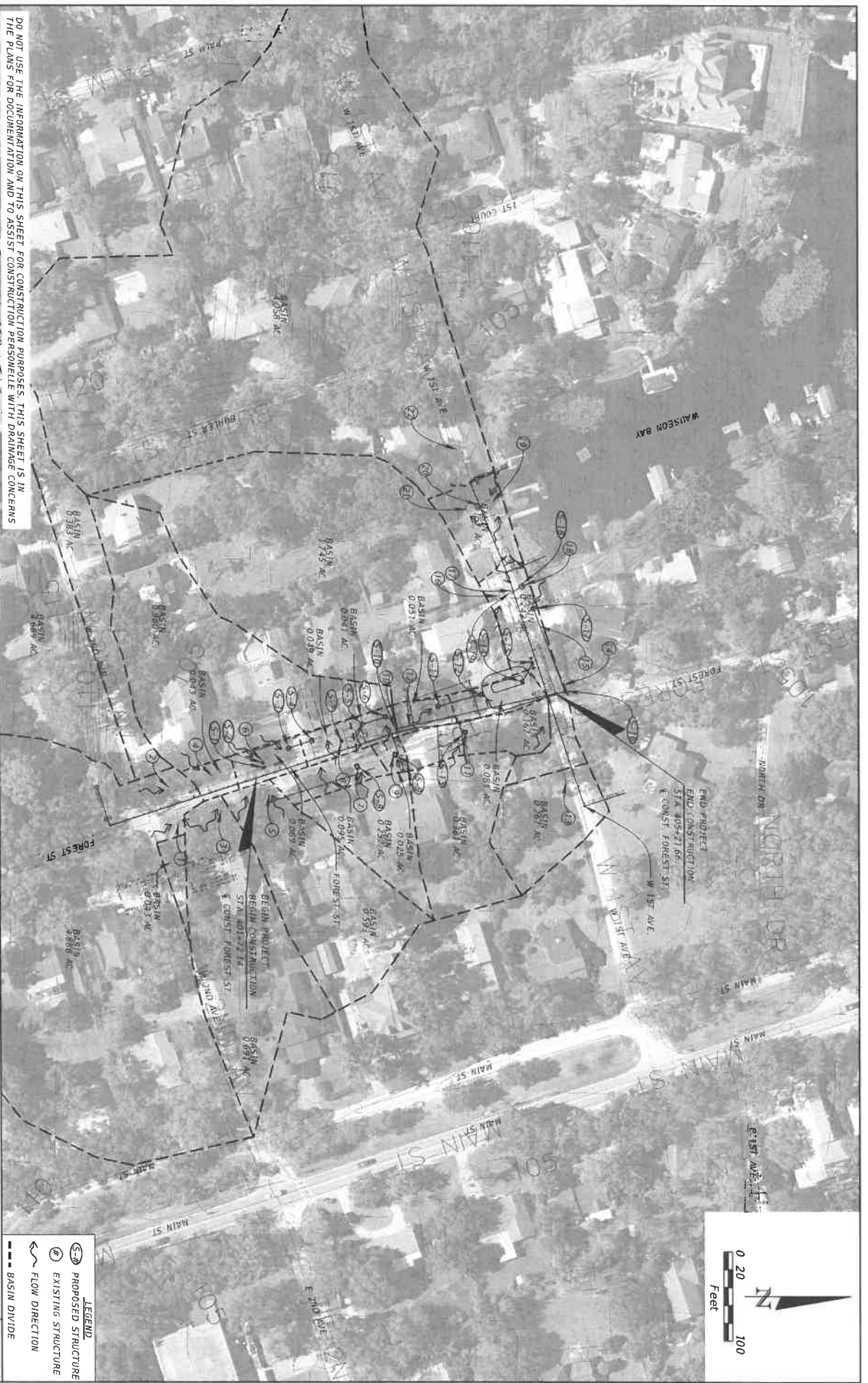
- a. MAYOR O'BRIEN
- b. COUNCILMAN MCKINLEY
- c. COUNCILMAN WILLIAMS
- d. COUNCILMAN SAPP
- e. COUNCILMAN MARTINI
- f. COUNCILMEMBER ANDERT

6. STAFF REPORTS

- a. TOWN MANAGER ROBERT SMITH
- b. TOWN ATTORNEY TOM WILKES
- c. POLICE CHIEF DAVE OGDEN
- d. PUBLIC WORKS DIRECTOR SCOTT BROWN

7. ADJOURN

-
- REPORTS:



LEGEND

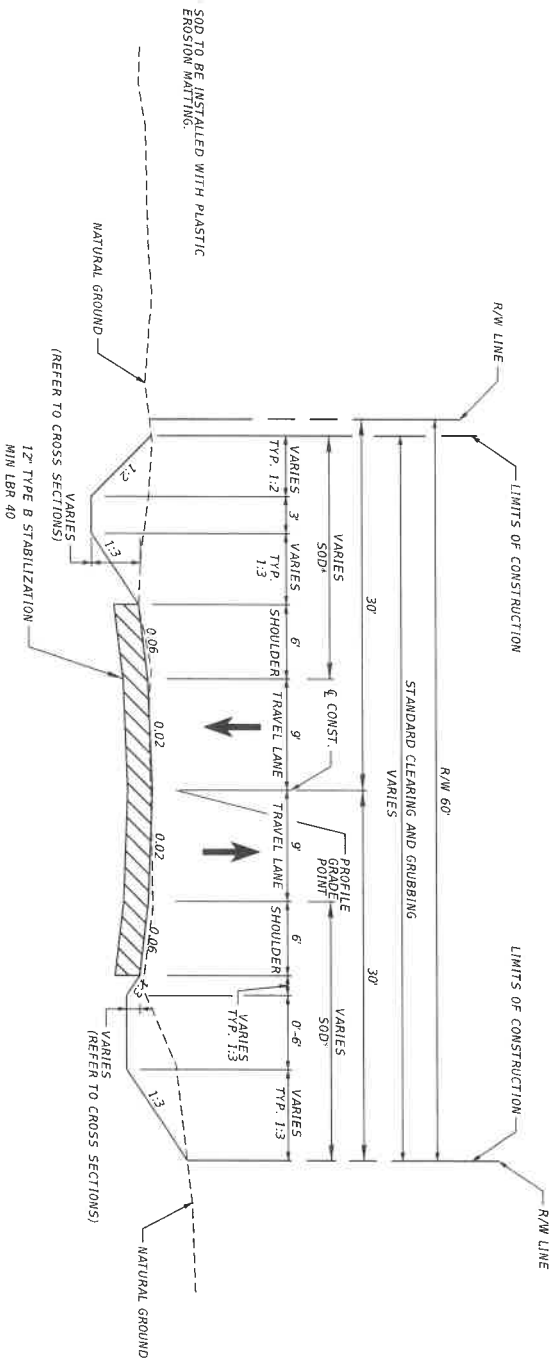
- PROPOSED STRUCTURE
- EXISTING STRUCTURE
- FLOW DIRECTION
- BASIN DIVIDE

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley-Horn</p> <p>Certificate of Authorization No. 696 Victor H. Gallo, P.E. 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>	<p>TOWN OF TOMOKA</p>	<p>DRAINAGE MAP</p>	<p>9/16/2020</p>	<p>4/28/21 Rev</p>	<p>CS:\Users\Ting\OneDrive\Work\Tomoka\Map\00000567\Draw\1901.dwg</p>
			<p>09/16/2020</p>	<p>09/16/2020</p>	<p>09/16/2020</p>

SHEET NO.



TYPICAL SECTION 1
FOREST STREET

STA. 401+72.14 TO STA. 403+30.73

N.T.S.

DESIGN SPEED = 20 MPH

NEW CONSTRUCTION

12" TYPE B STABILIZATION MIN LBR 40

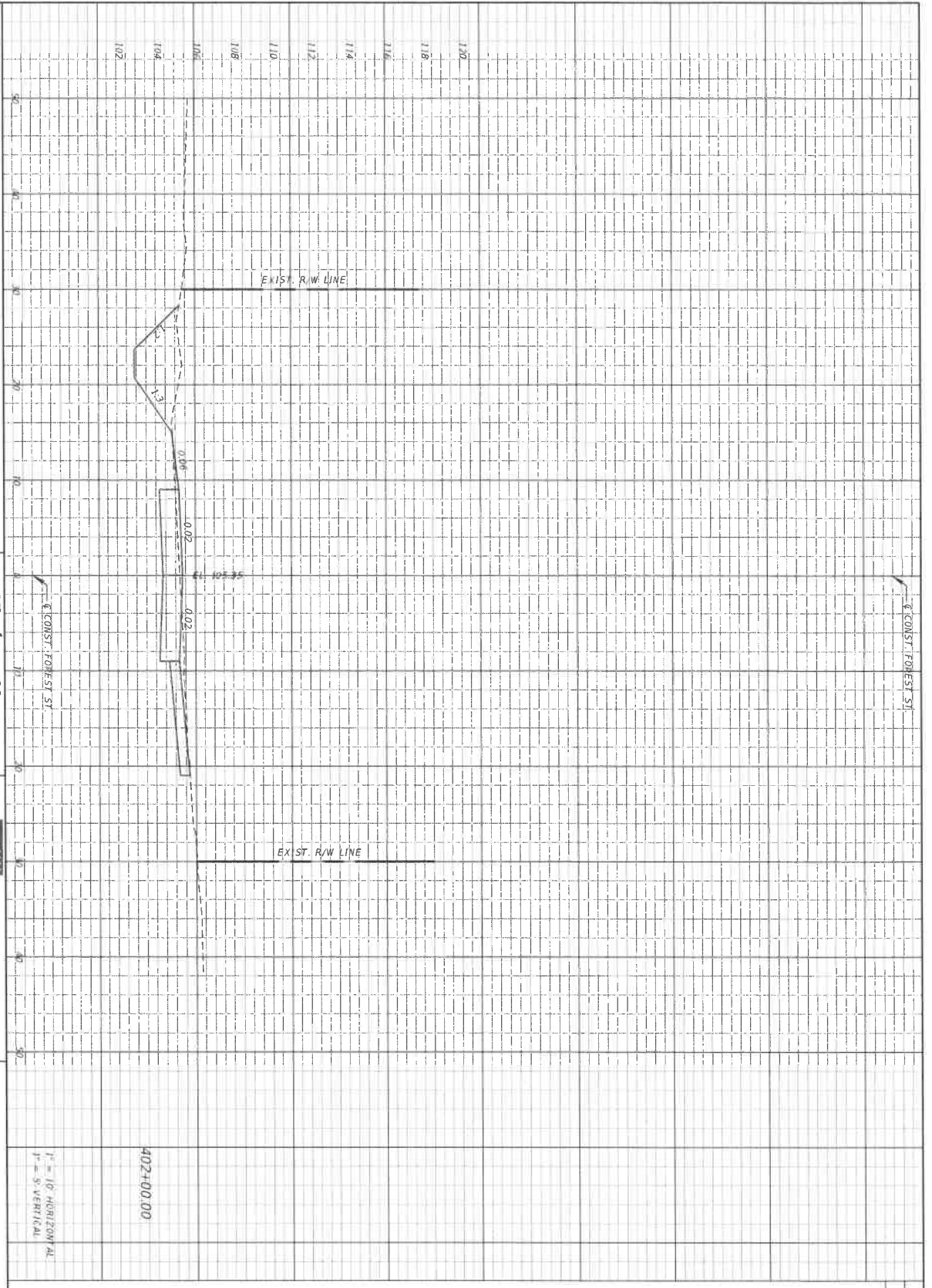
FOREST STREET

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley»Horn Certificate of Authorization No. 696 Hao T. Chau, P.E. License No. 61940 189 South Orlando, Florida 32801</p>			
<p>Assist. Designer 9/16/2020 3:28:43 PM</p>		<p>TYPICAL SECTIONS (01)</p>	

SHEET NO.

Regular Exc.		Embankment	
A	V	A	V



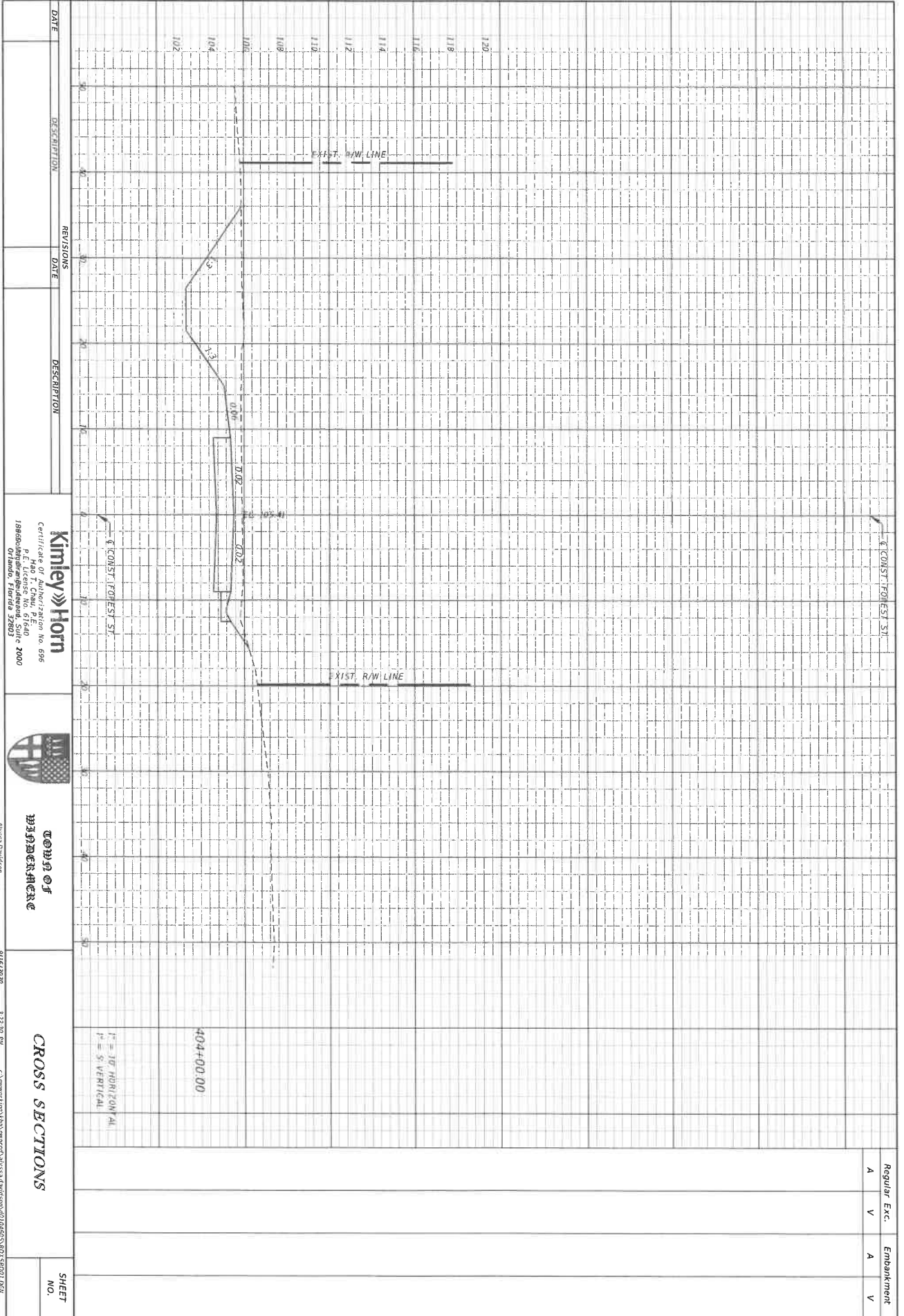
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley»Horn
 Certificate of Authorization No. 696
 Hao T. Chau, P.E.
 18800 Biscayne Boulevard, Suite 2000
 Orlando, Florida 32803



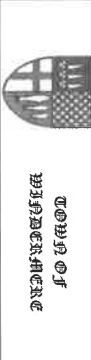
CROSS SECTIONS

SHEET NO. _____



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 696
 HAO T. CHAU, P.E.
 18850 Interchange Blvd., Suite 2000
 Orlando, Florida 32803

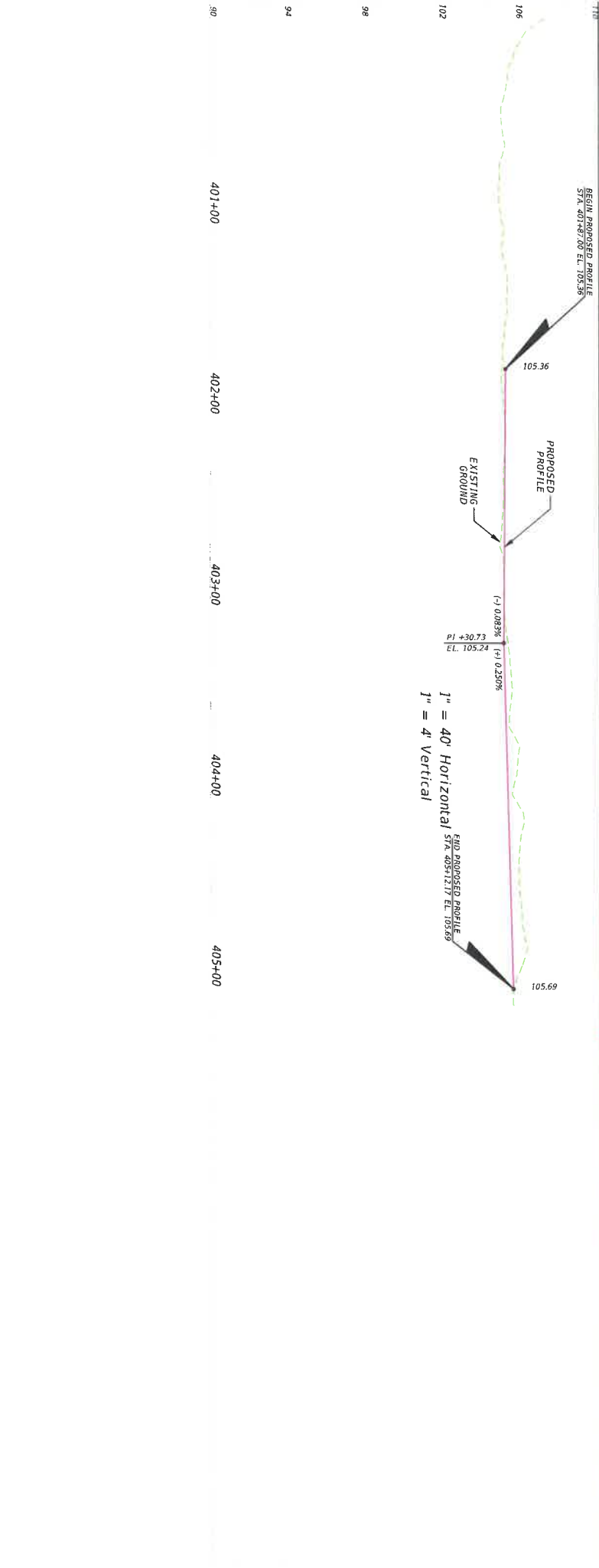
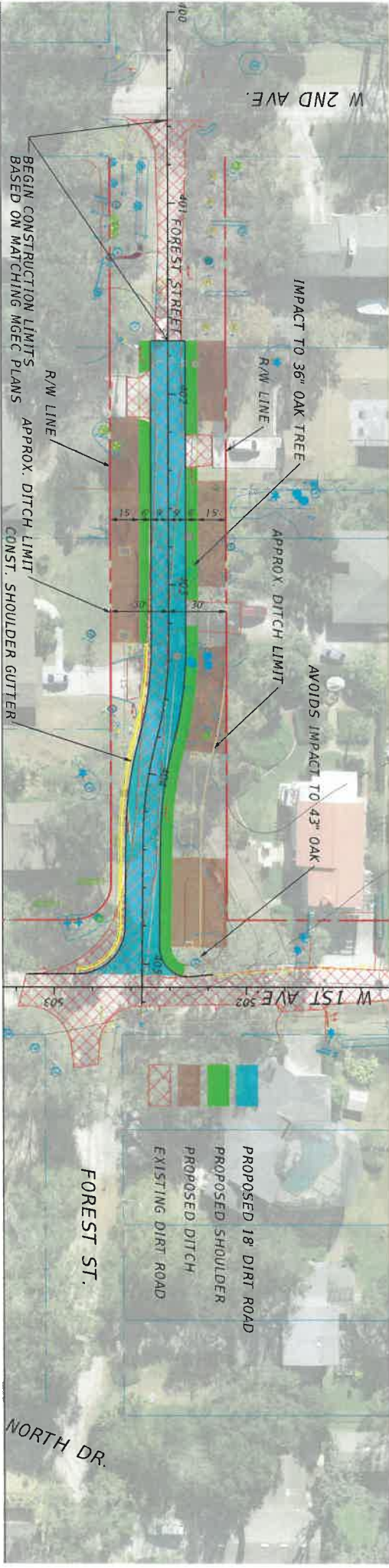


CROSS SECTIONS

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Regular Exc.	Exc.	Embankment
A	V	A
		V

SHEET NO.



90 401+00 402+00 403+00 404+00 405+00

98

94

106

102

110

W 2ND AVE.

401 FOREST STREET

IMPACT TO 36" OAK TREE

R/W LINE

APPROX. DITCH LIMIT

APPROX. SHOULDER GUTTER

AVOIDS IMPACT TO 43" OAK

W 1ST AVE

PROPOSED 18' DIRT ROAD

PROPOSED SHOULDER

PROPOSED DITCH

EXISTING DIRT ROAD

FOREST ST.

NORTH DR.

BEGIN PROPOSED PROFILE
STA. 401+87.00 EL. 105.36

PROPOSED PROFILE

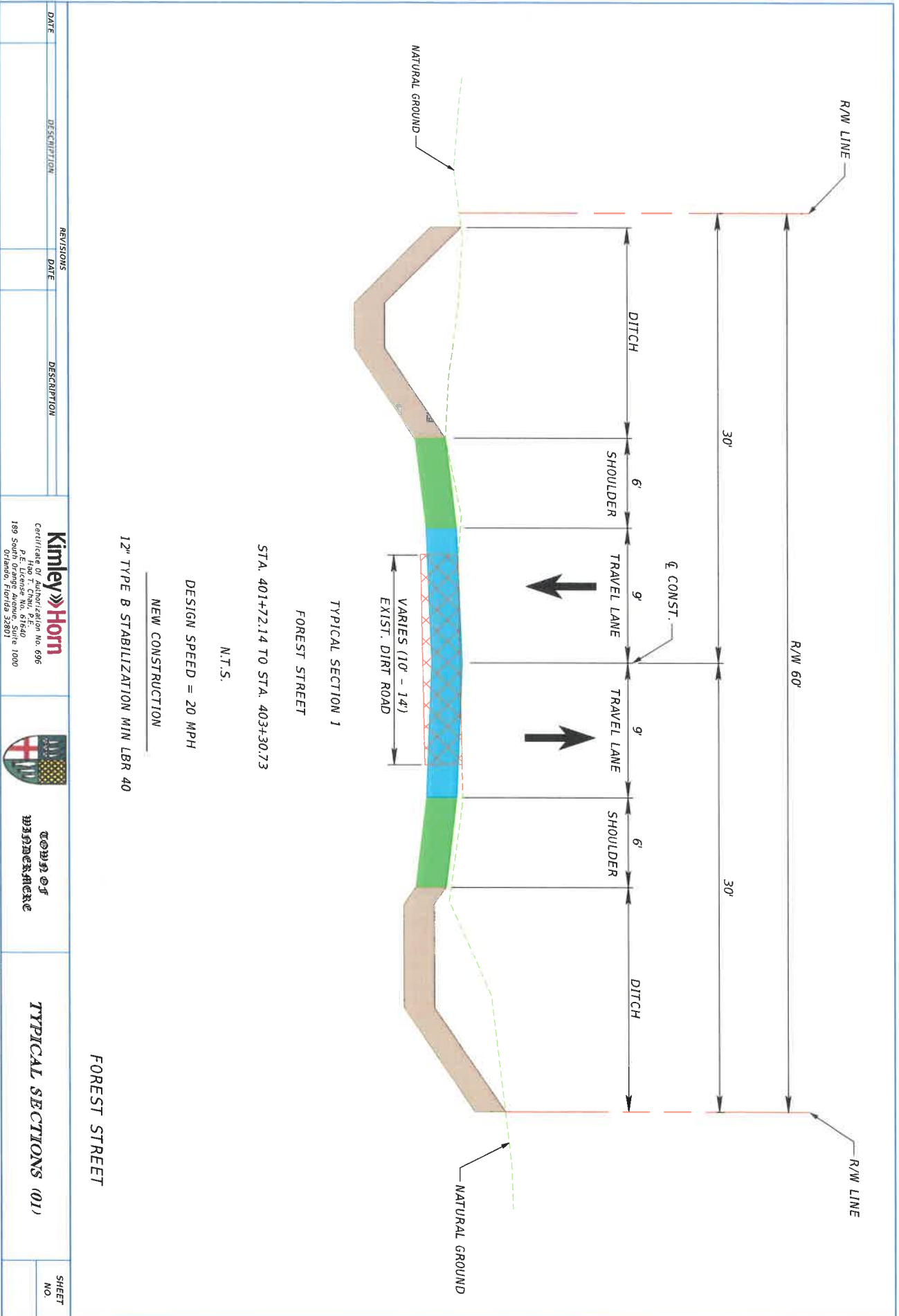
EXISTING GROUND

PVI +30.73
EL. 105.24

END PROPOSED PROFILE
STA. 405+11.17 EL. 105.69

1" = 40' Horizontal

1" = 4' Vertical



STA. 401+72.14 TO STA. 403+30.73

N.T.S.

DESIGN SPEED = 20 MPH

NEW CONSTRUCTION

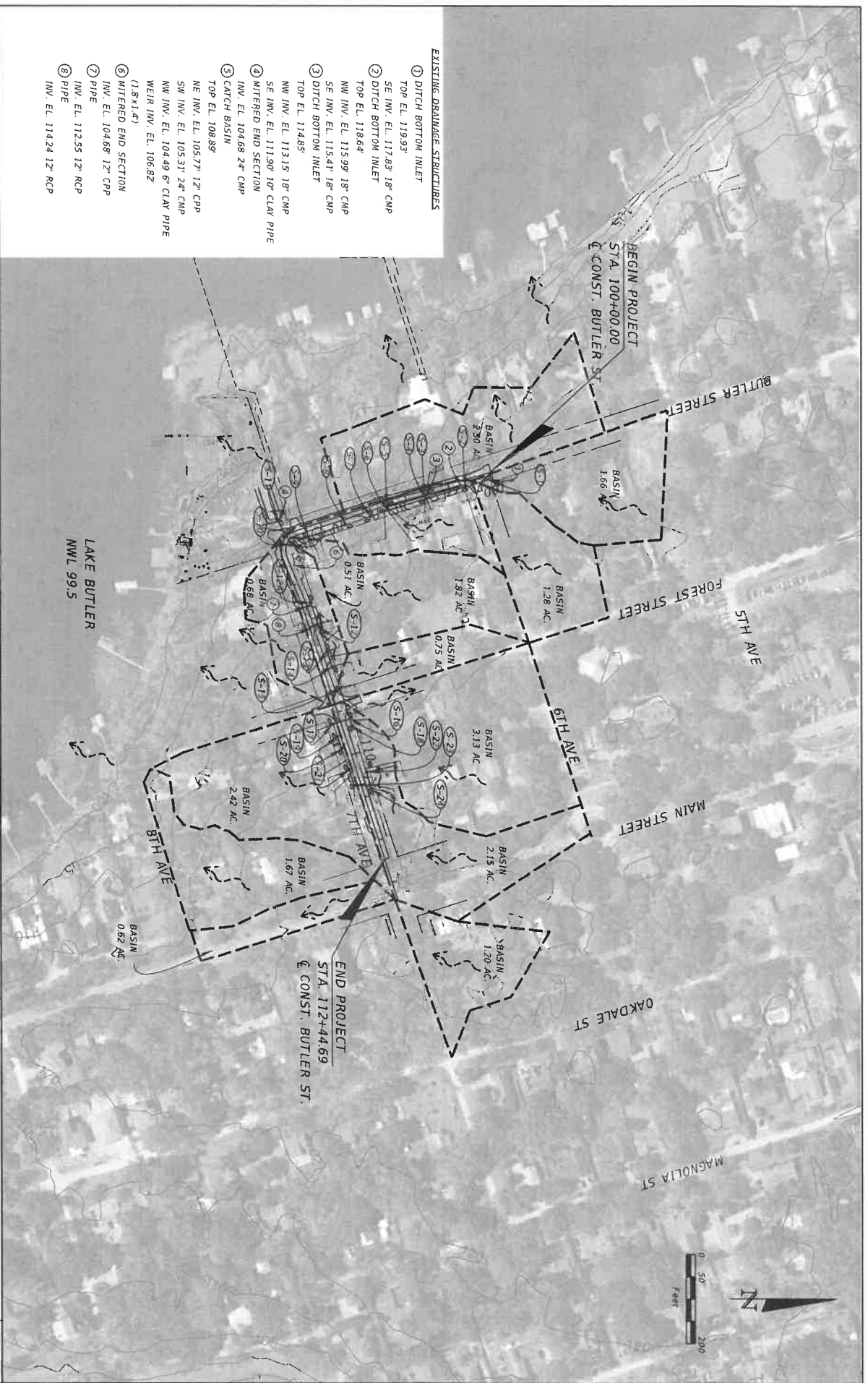
12" TYPE B STABILIZATION MIN LBR 40

FOREST STREET

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley-Horn</p> <p>Certificate of Authorization No. 696 P. Florida, Chgo. 67540 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>			<p>9/16/2020</p>	<p>120318</p>	<p>120318</p>	<p>120318</p>	<p>120318</p>	<p>120318</p>	<p>120318</p>

SHEET NO.

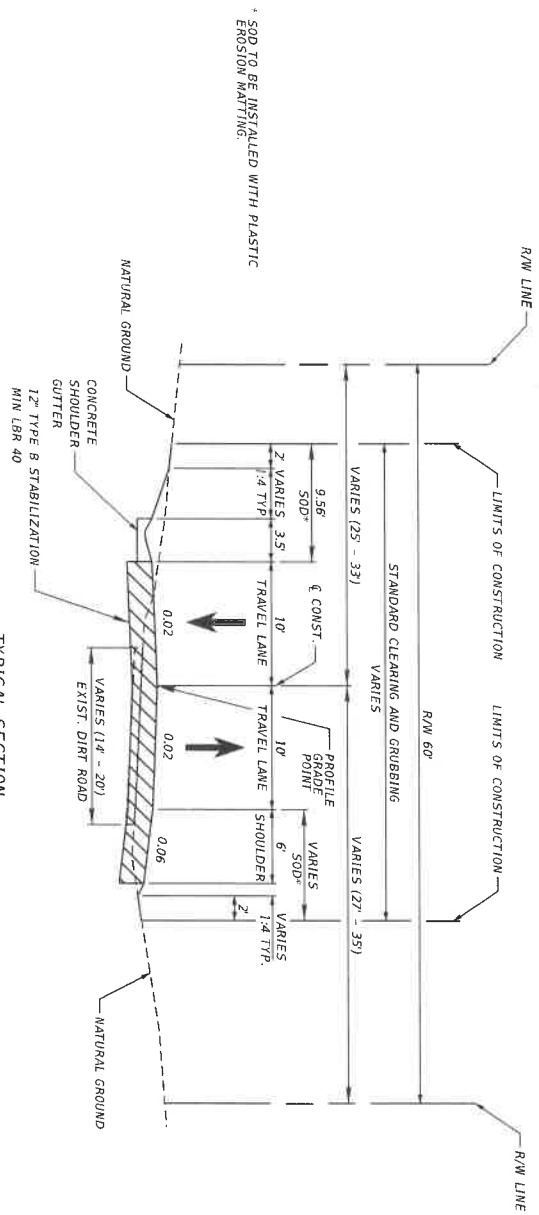


EXISTING DRAINAGE STRUCTURES

- ① DITCH BOTTOM INLET
TOP EL. 119.93
SE INV. EL. 117.83' 18" CMP
- ② DITCH BOTTOM INLET
TOP EL. 118.64
NW INV. EL. 115.99' 18" CMP
SE INV. EL. 115.41' 18" CMP
- ③ DITCH BOTTOM INLET
TOP EL. 114.89
NW INV. EL. 113.15' 18" CMP
SE INV. EL. 111.90' 10" CLAY PIPE
- ④ MITERED END SECTION
NW. EL. 104.68 24" CMP
- ⑤ CATCH BASIN
TOP EL. 108.89
NE INV. EL. 105.71' 12" CPP
SW INV. EL. 103.31' 24" CPP
NW INV. EL. 104.49 6" CLAY PIPE
WEIR INV. EL. 106.82
- (1.8x1.4)
- ⑥ MITERED END SECTION
INV. EL. 104.68 12" CPP
- ⑦ PIPE
INV. EL. 112.55 12" RCP
- ⑧ PIPE
INV. EL. 114.24 12" RCP

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley-Horn Certificate of Authorization No. 696 P. E. Victor Gallo, P.E. 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>	<p>TOWN OF WINTER GARDEN</p>	<p>DRAINAGE MAP</p>	SHEET NO.
			2



TYPICAL SECTION
BUTLER STREET

STA. 100+74.27 TO STA. 102+50.00
(REFER TO PLAN-PROFILE (01) FOR STA. 100+00.00 TO STA. 100+74.27 - IN INTERSECTION)

N.T.S.

DESIGN SPEED = 20 MPH

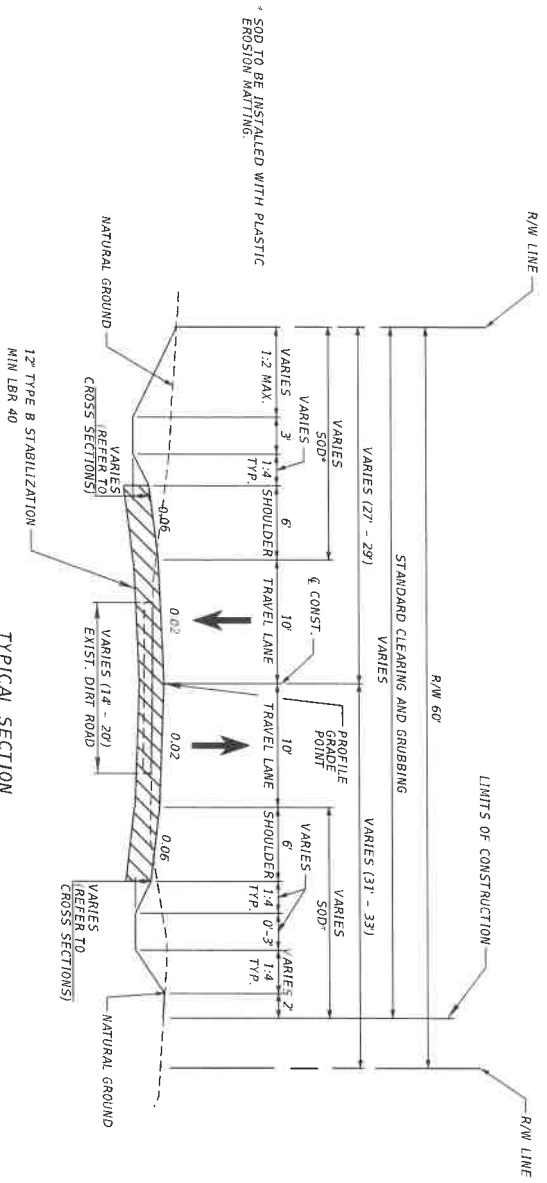
NEW CONSTRUCTION

12" TYPE B STABILIZATION MIN LBR 40

BUTLER STREET

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley»Horn Certificate of Authorization No. 696 440 E. Central Ave. P. O. Box 6140 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>		<p>FLORIDA DEPARTMENT OF TRANSPORTATION</p>	<p>8/11/2020</p>	<p>8:33:24 AM</p>	<p>C:\www\of\img\324\wp\pof\user\j\proj\1567156001.dgn</p>
<p>SHEET NO. 3</p>					



TYPICAL SECTION
7TH AVENUE

STA. 109+30.00 TO STA. 112+44.69

N.T.S.

DESIGN SPEED = 20 MPH

NEW CONSTRUCTION

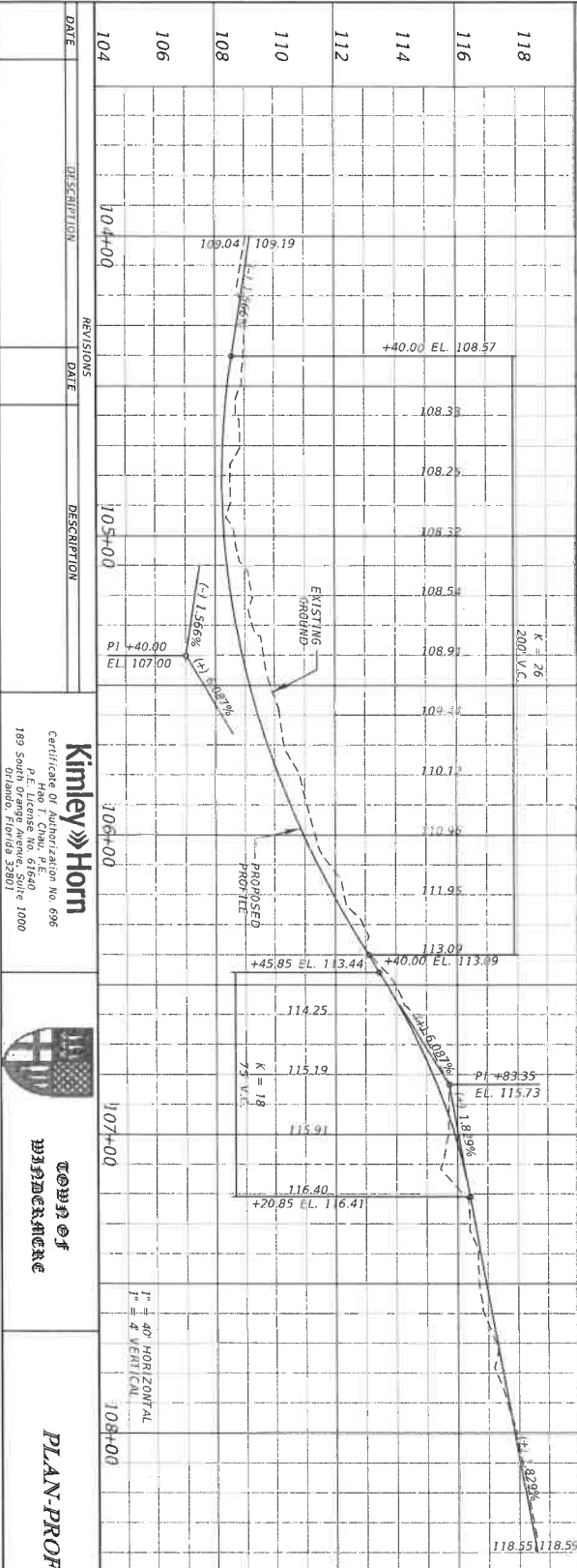
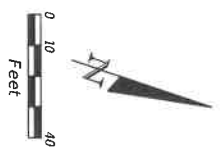
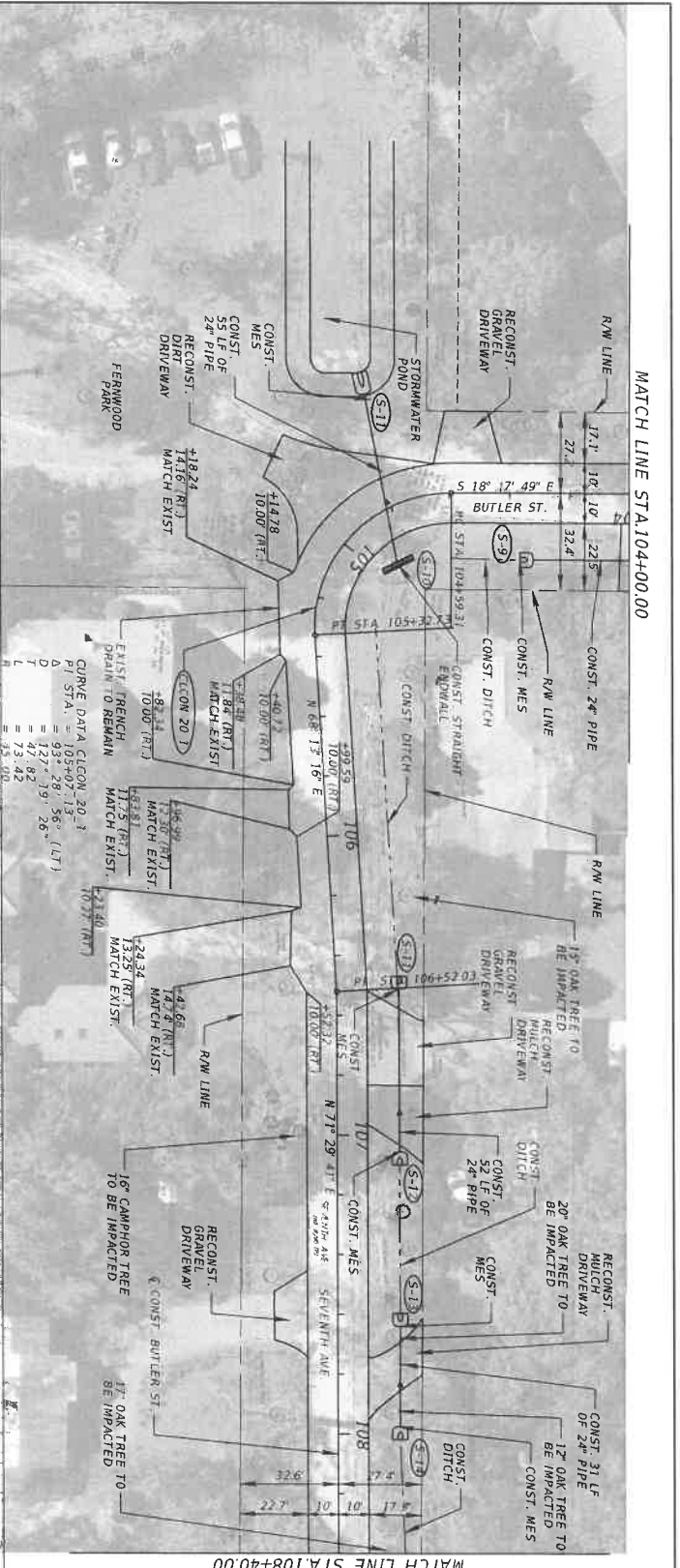
12" TYPE B STABILIZATION MIN LBR 40

7TH AVENUE

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

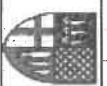
<p>Kimley-Horn Certificate of Authorization No. 696 Hao T. Chau, P.E. 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>		<p>8/17/2020</p>	<p>8:33:30 AM</p>	<p>C:\www\clg\lba\mproj\04\kham\lpr\04101246\1125R02.dgn</p>
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TYPICAL SECTION (03)	SHEET NO. 5
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DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
104	104+00		105+00	
106	106		107+00	
108	108		108+00	
110	110			
112	112			
114	114			
116	116			
118	118			

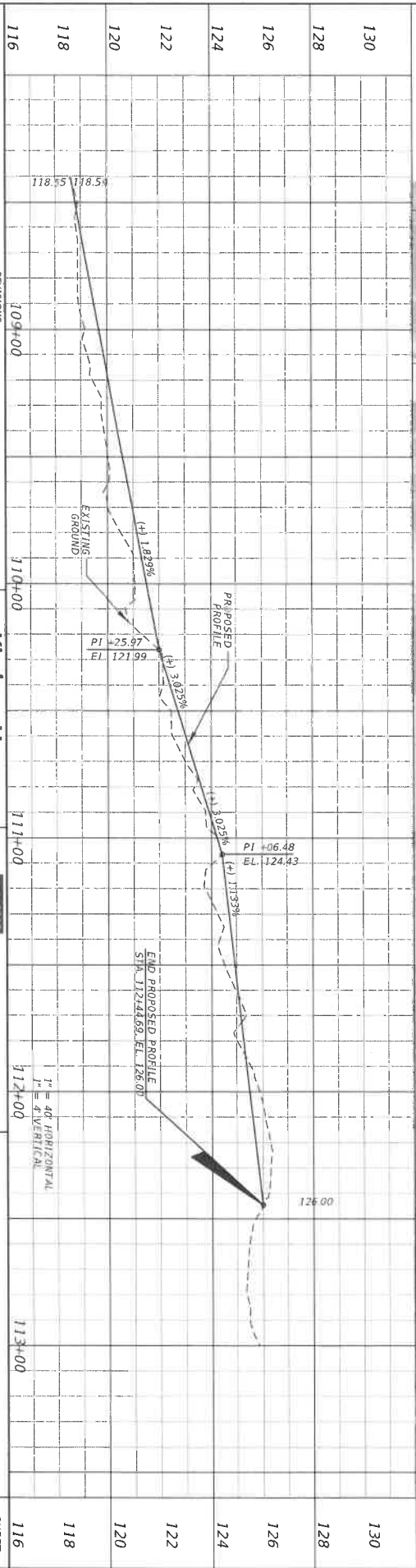
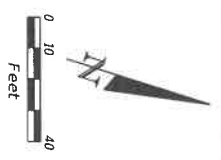
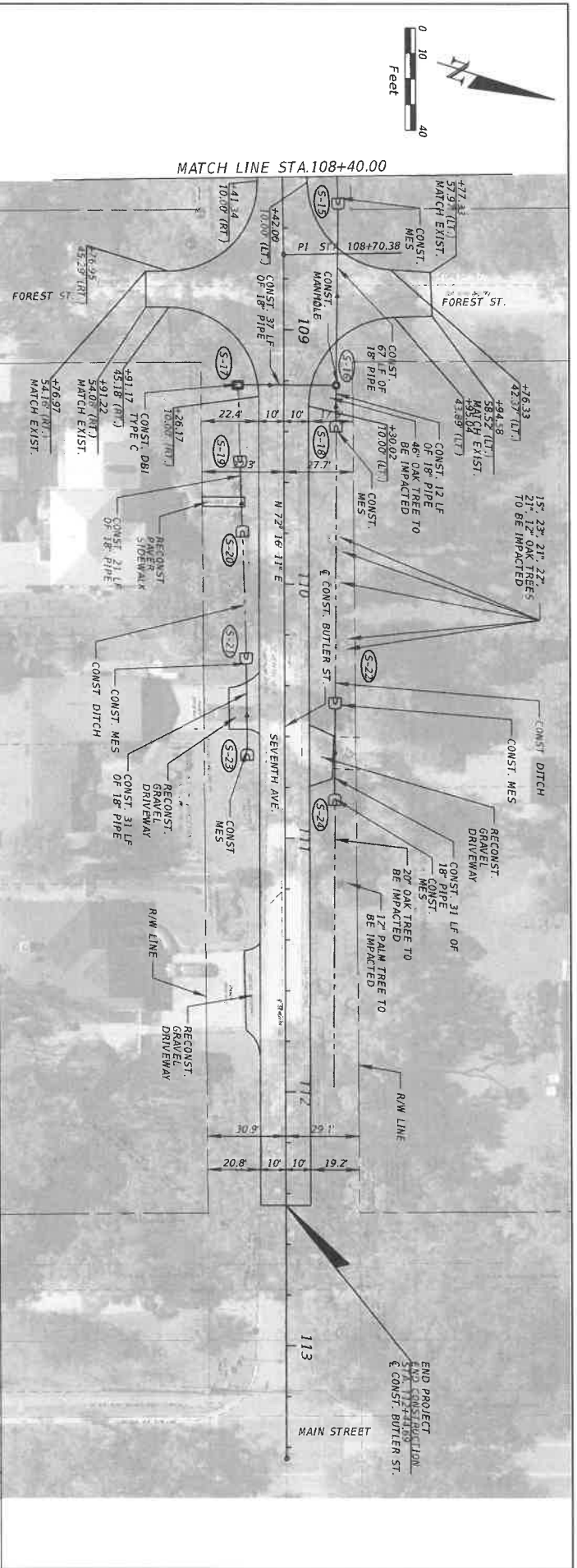
Kimley-Horn
 Certificate of Authorization No. 696
 P. Eng. Chris P. 440
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801



STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

PLAN PROFILE (02)

SHEET NO. 7



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
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118			114+00	
120			111+00	
122			117+00	
124				
126				
128				
130				

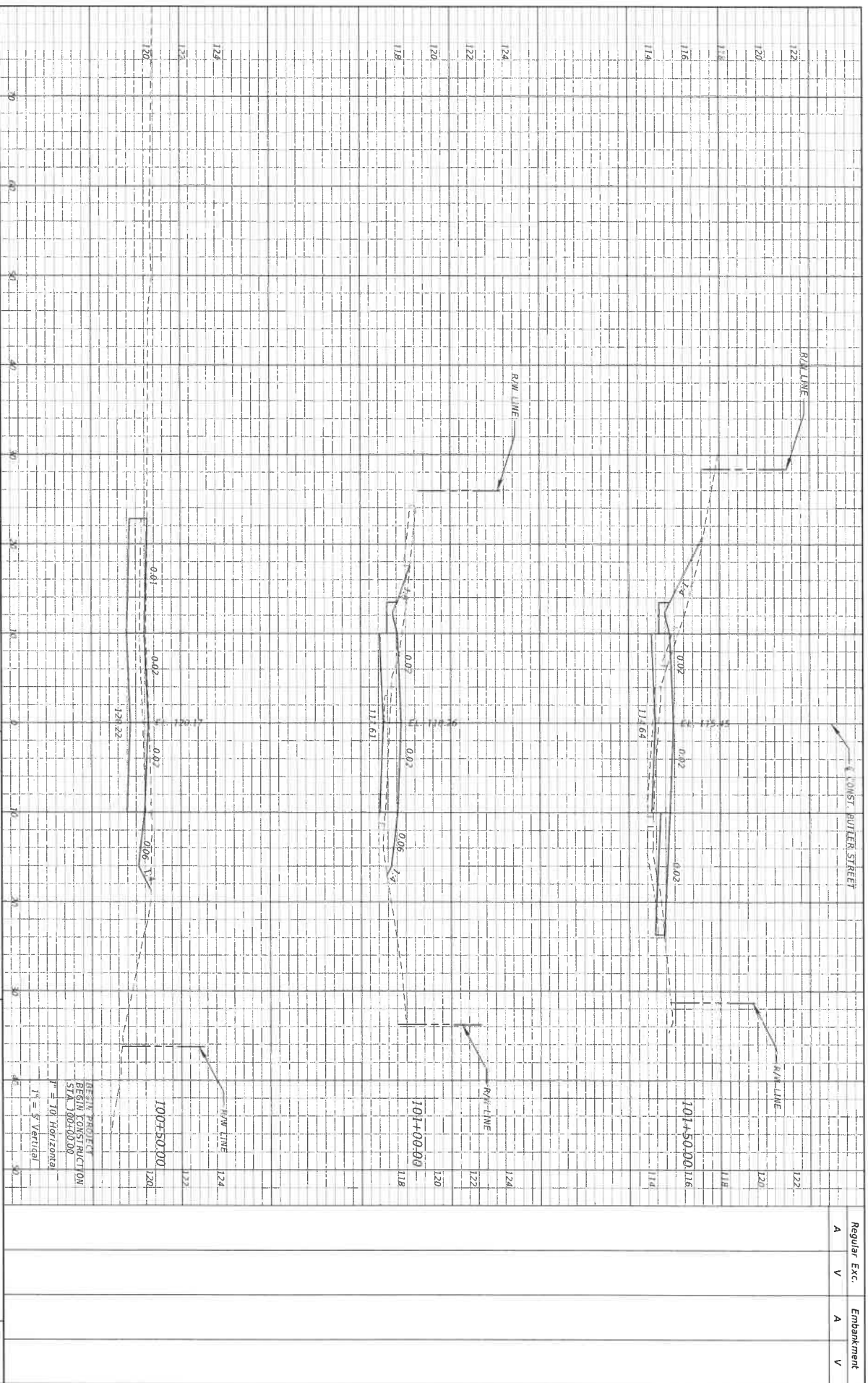
Kimley-Horn
 Certificate of Authorization No. 696
 H. Lee Clark, P.E.
 P. 1100
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801



Town of Winter Park
 8/17/2020
 8:35:14 AM
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PLAN PROFILE (03)

116	SHEET NO.	8
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DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 696
 Hao T. Chau, P.E., F.A.S.
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801

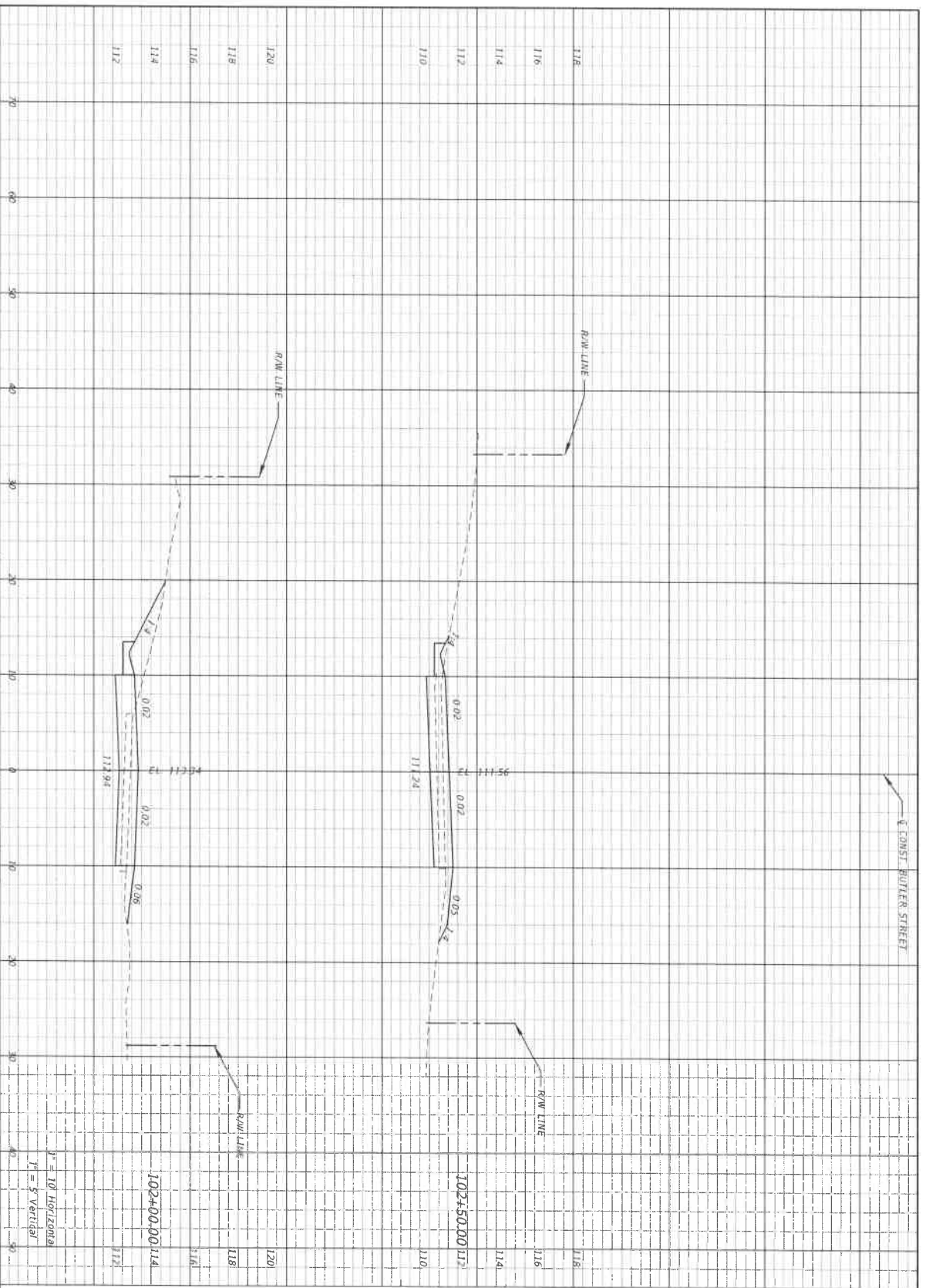


FLORIDA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SHEET NO. 9

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Embankment A V



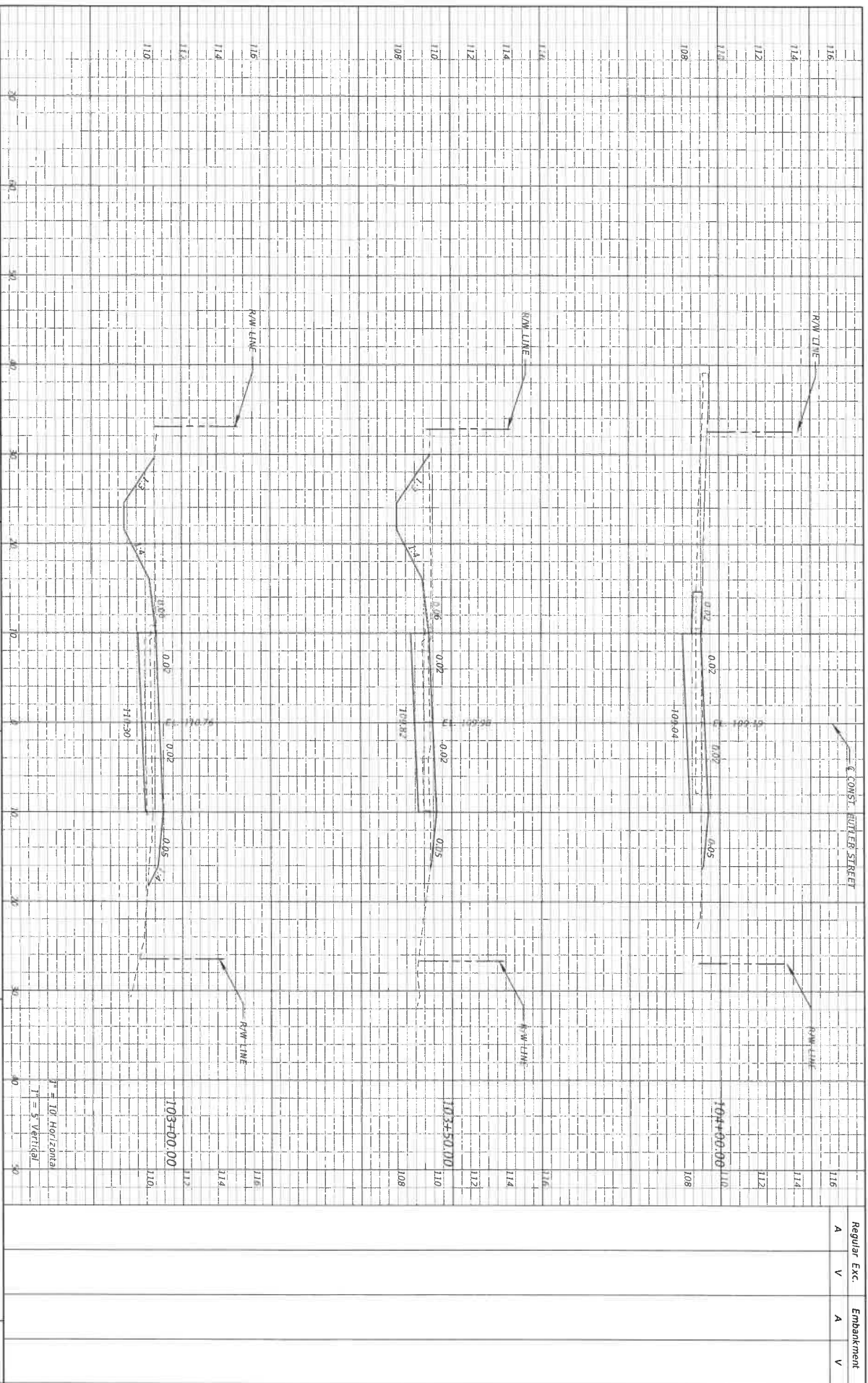
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 695
 Hao T. Chai, P.E., F.A.S.
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801



CROSS SECTIONS

SHEET NO. 10



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 696
 1140 F. CHASE, P.O. BOX 1140
 P. O. BOX 1140
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801

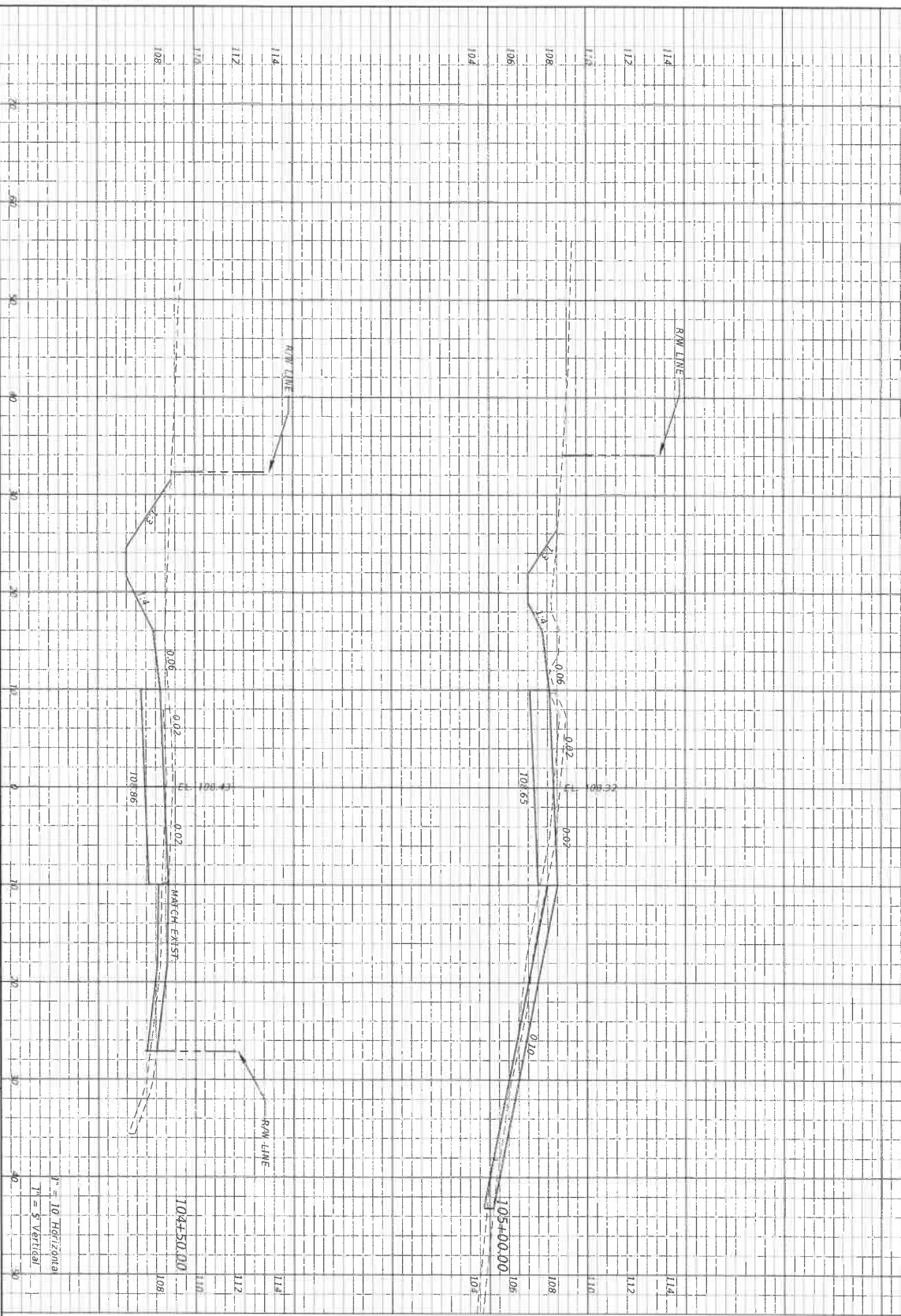


FLORIDA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SHEET NO. 11

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 A V A V



$V = 10$ Horizontal
 $H = 5$ Vertical

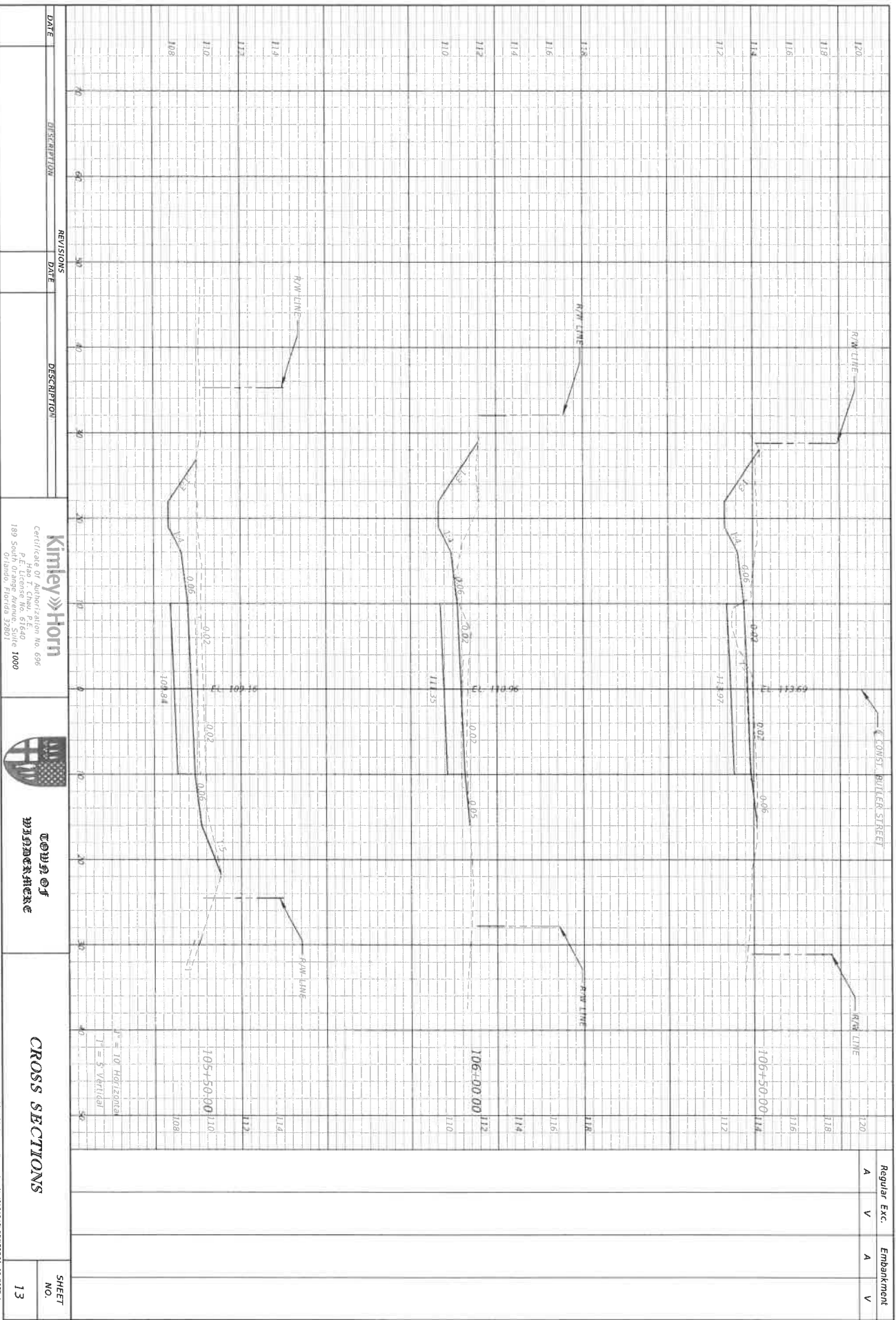
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 696
 Hao T. Chan, P.E.
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801



CROSS SECTIONS

SHEET NO. 12



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 696
 2 East T. Clark, P.E.
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801



FLORIDA
 PROFESSIONAL ENGINEER

CROSS SECTIONS

SHEET NO. 13



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Kimley-Horn
 Certificate of Authorization No. 695
 H. T. Chan, P.E., C.E.
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801

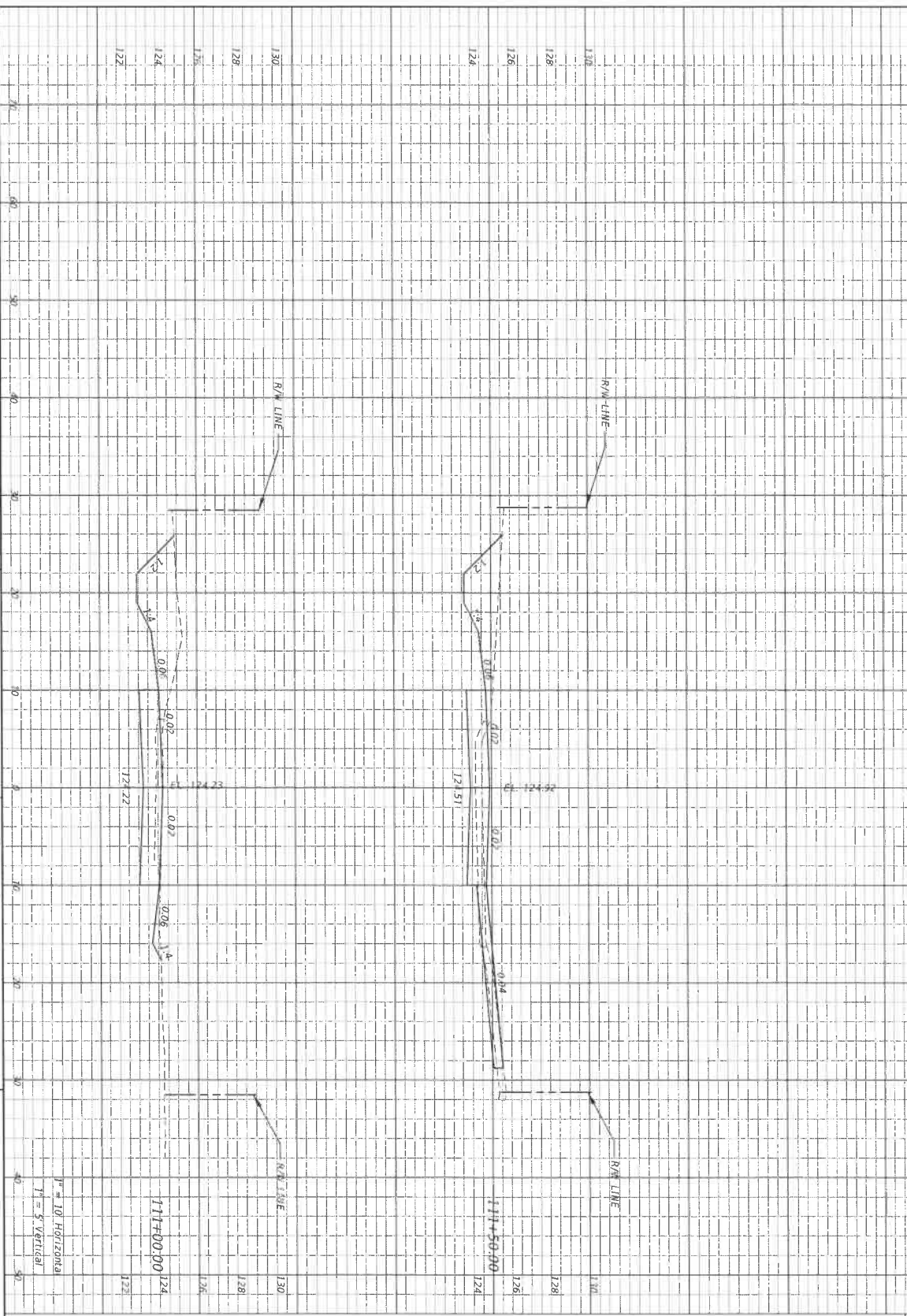


CROSS SECTIONS

REGULAR EXC.	EMBANKMENT
A	A
V	V

SHEET NO. 15

Regular Exc. Embankment
 A V A V



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

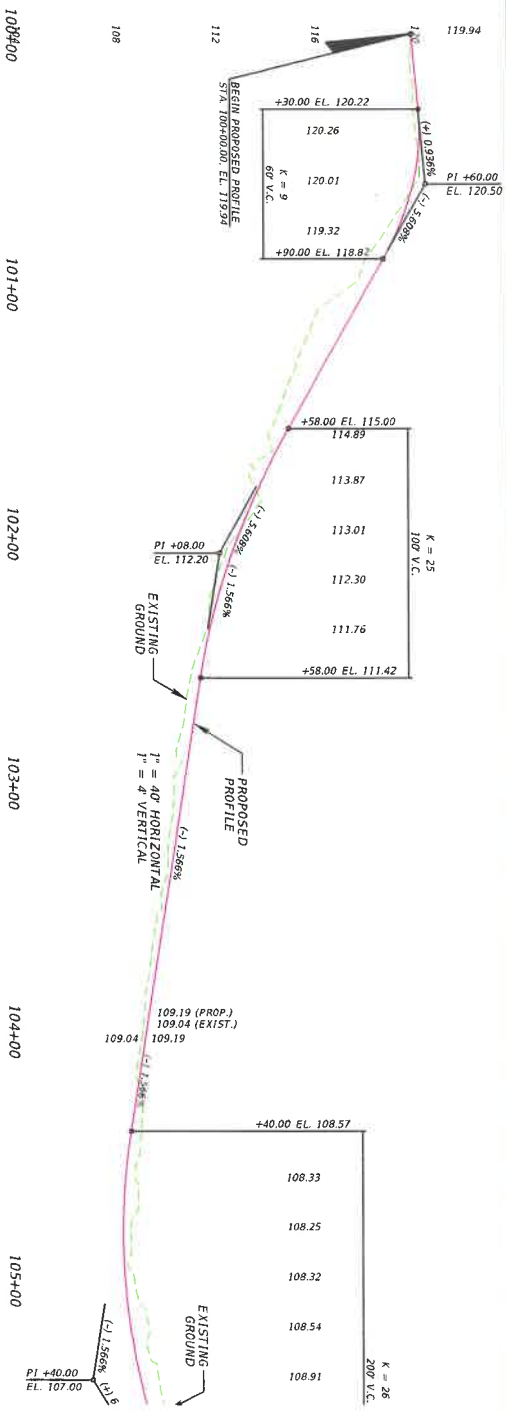
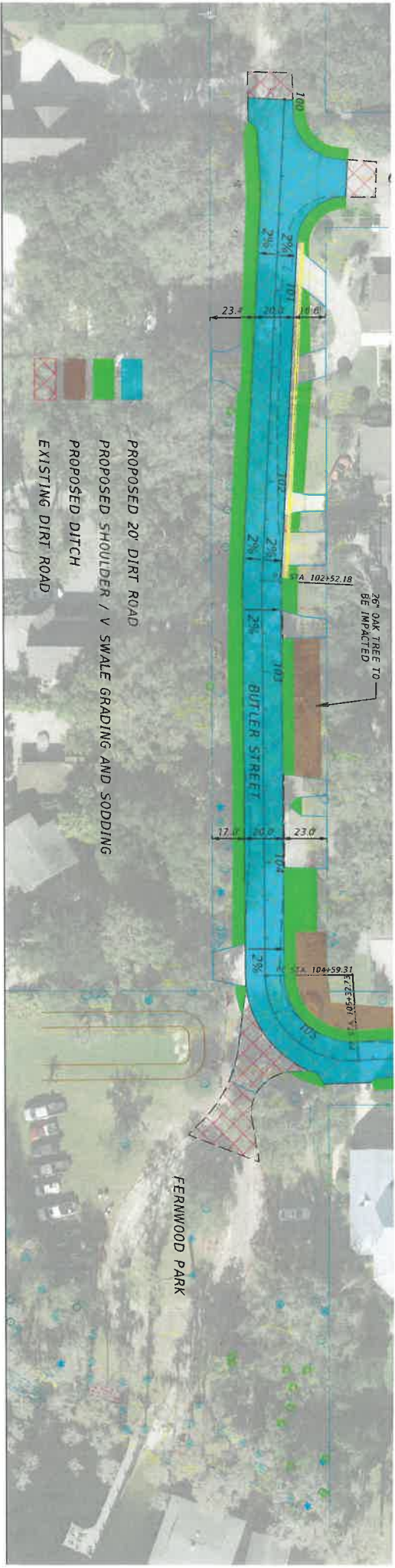
Kimley-Horn
 Certificate of Authorization No. 696
 P. Eng. Chris E. F. 440
 189 South Orange Avenue, Suite 1000
 Orlando, Florida 32801

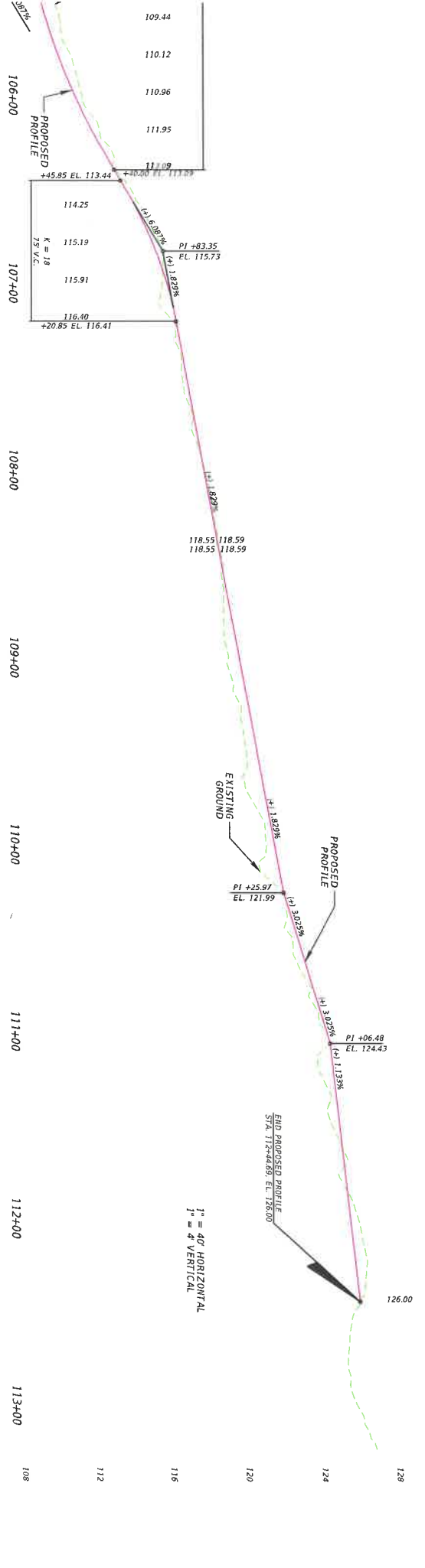
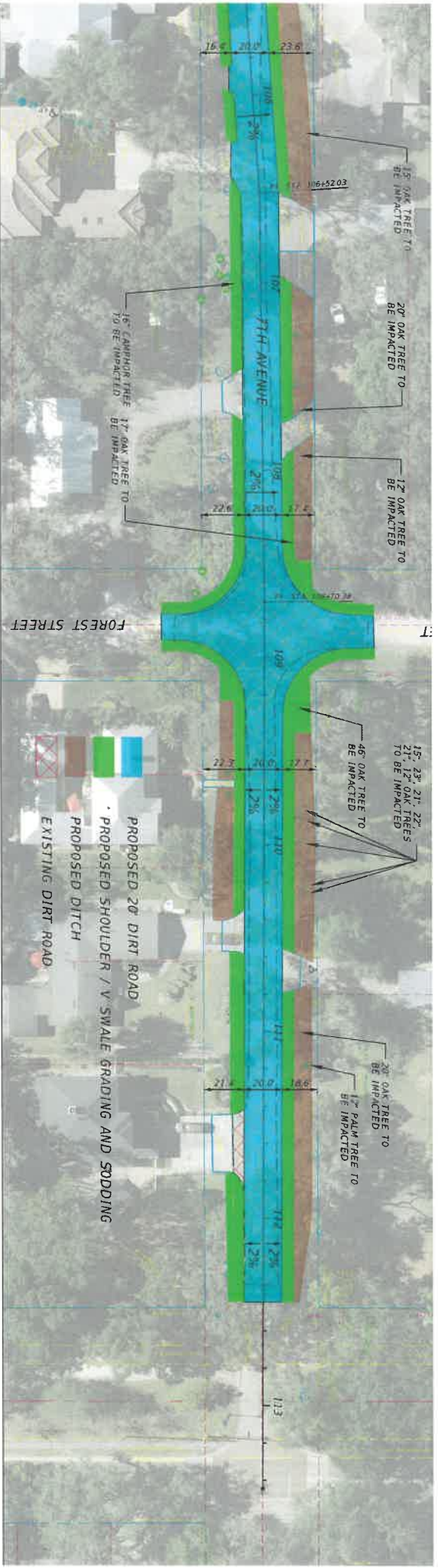


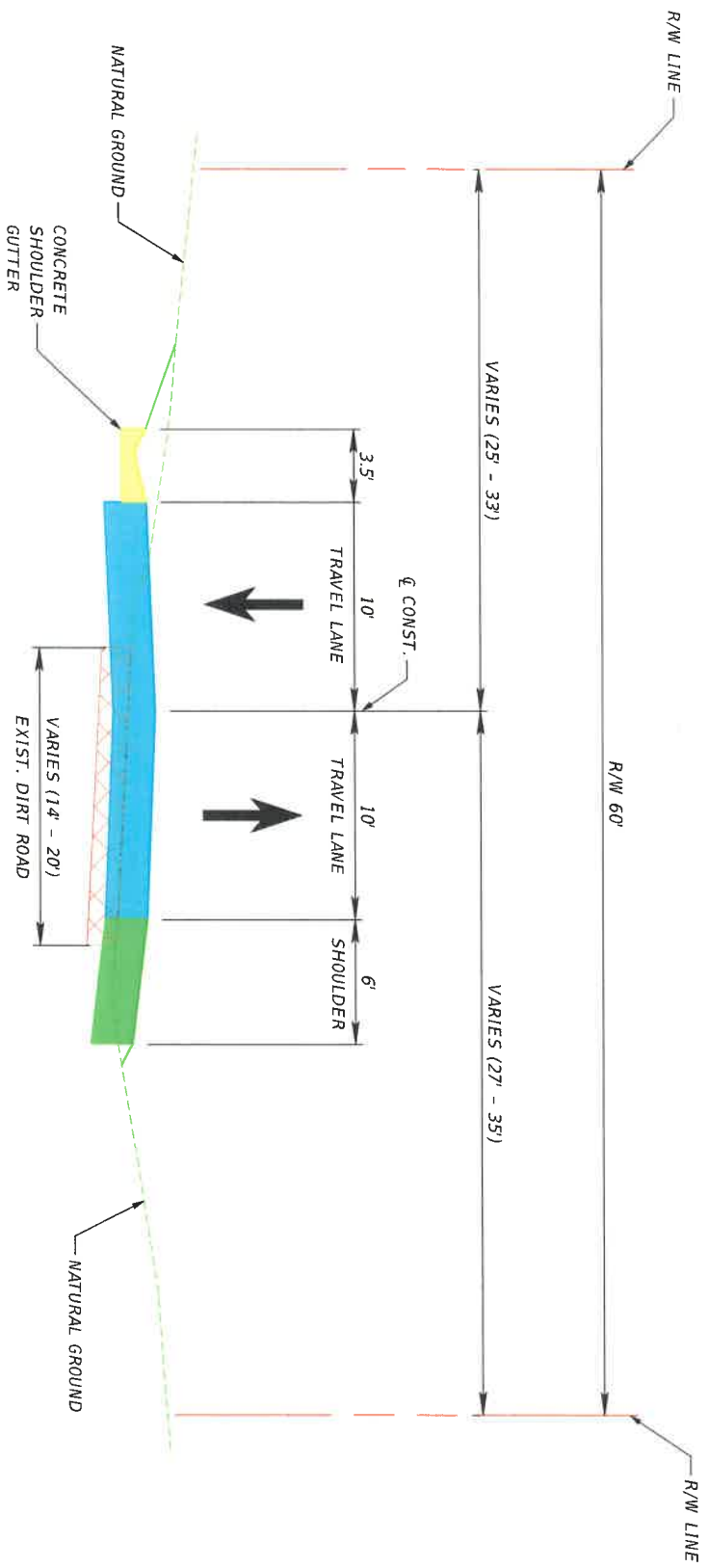
SCS&P
 SCS&P

CROSS SECTIONS

SHEET NO. 17







TYPICAL SECTION
 BUTLER STREET
 STA. 100+74.27 TO STA. 102+50.00
 N.T.S.

DESIGN SPEED = 20 MPH
 NEW CONSTRUCTION

12" TYPE B STABILIZATION MIN LBR 40

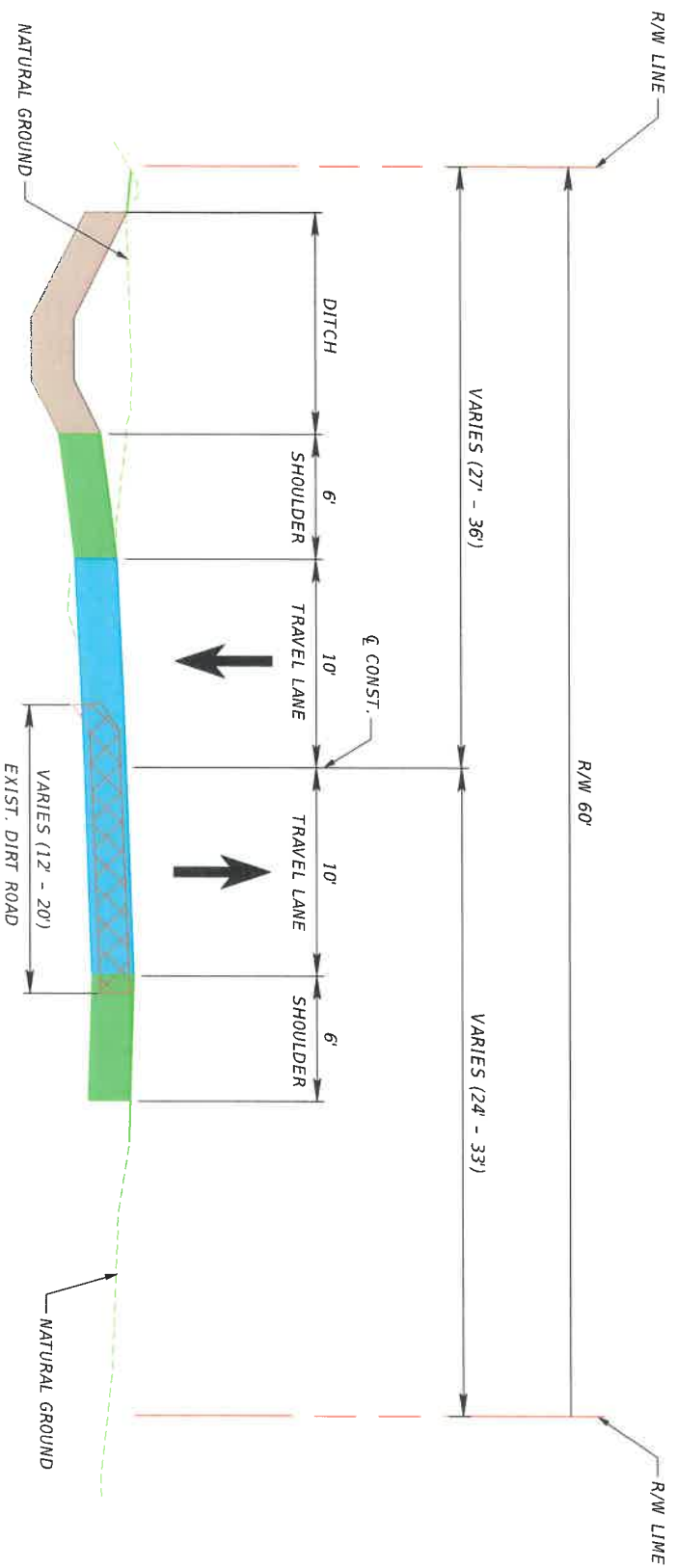
BUTLER STREET

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley-Horn Certificate of Authorization No. 696 P. Hao, P.E., CEM III, FAS 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>	<p>Seal of the State of Florida</p>	<p>9/13/2020</p>	<p>3:00:18 PM</p>	<p>C:\working\13a\project4\project.edwards\011128\75\SNOJ_Land.dgn</p>
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TYPICAL SECTION (01)

SHEET NO.



TYPICAL SECTION

BUTLER STREET & 7TH AVENUE

STA. 102+50.00 TO STA. 108+50.00

N.T.S.

DESIGN SPEED = 20 MPH

NEW CONSTRUCTION

12" TYPE B STABILIZATION MIN LBR 40

BUTLER STREET & 7TH AVENUE

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

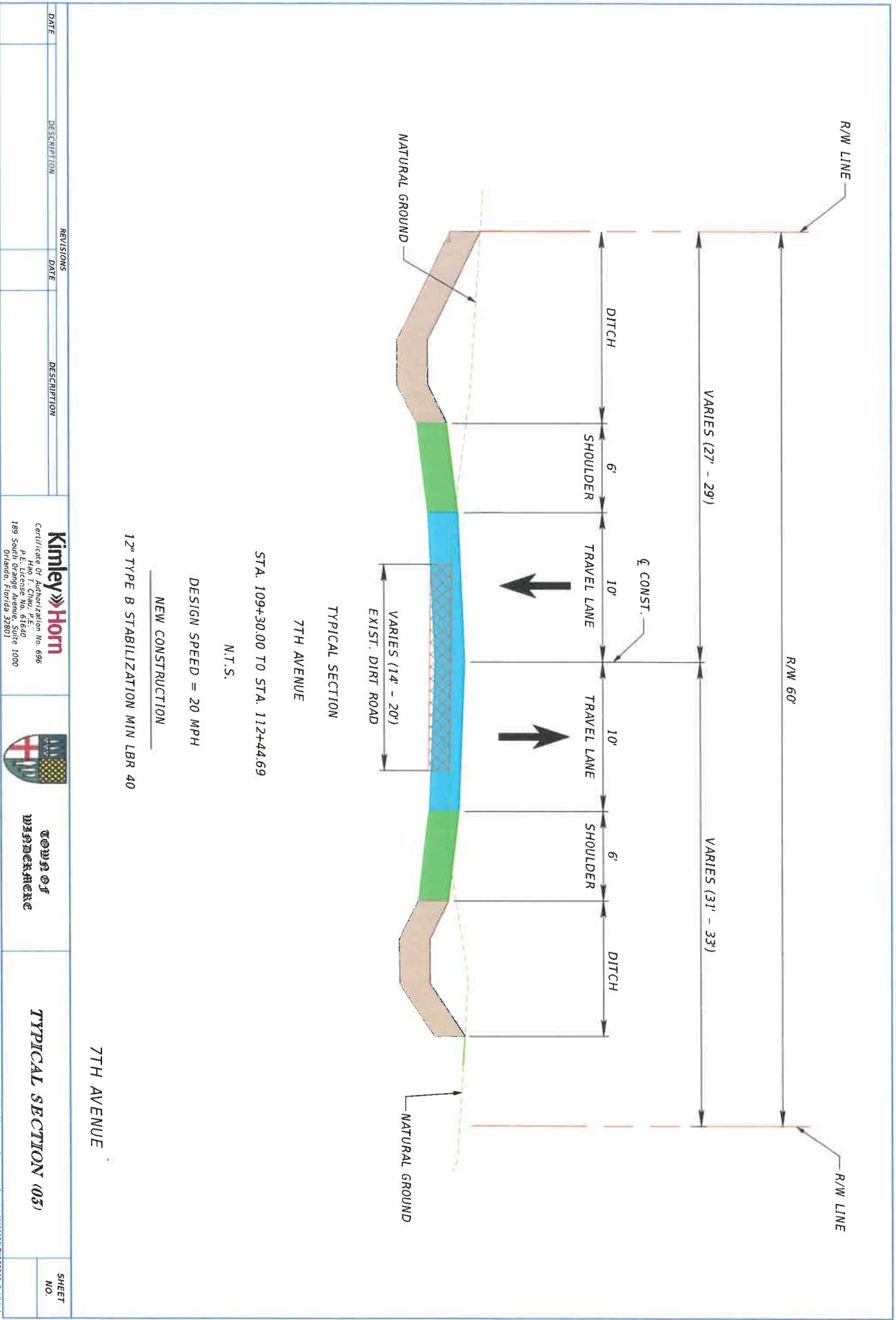
Kimley-Horn
Certificate of Authorization No. 696
Head Office: 189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

9/15/2020 3:46:56 PM

TYPICAL SECTION (02)

SHEET NO.



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

<p>Kimley-Horn Certificate of Authorization No. 696 P. Eberle, C.E., P.E. 189 South Orange Avenue, Suite 1000 Orlando, Florida 32801</p>	<p>Seal of the State of Florida</p>	<p>Professional Engineer Seal</p>	9/15/2020	3:46:09 PM	C:\working\11a\project\spencer-edwards\011128\715\S003_LBR10.dgn
			7/15/2020	3:46:09 PM	TYPICAL SECTION (03)

SHEET NO.

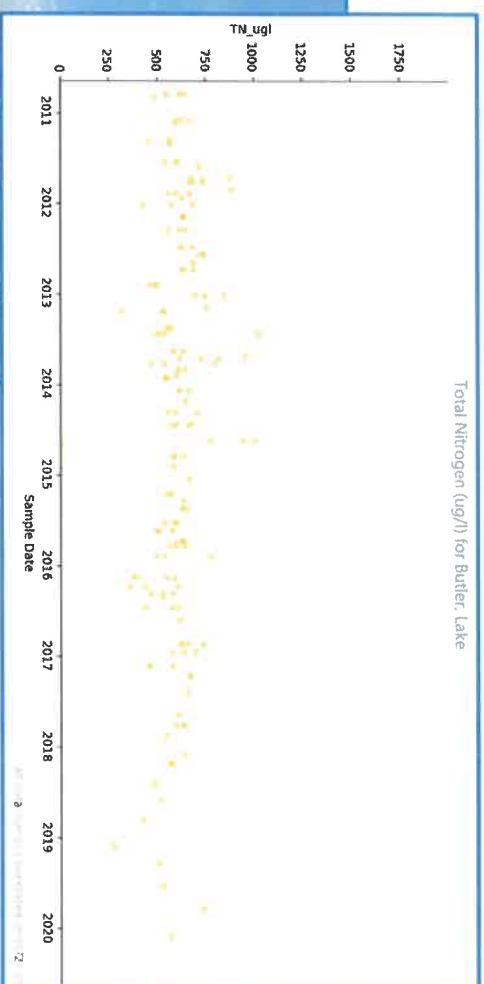
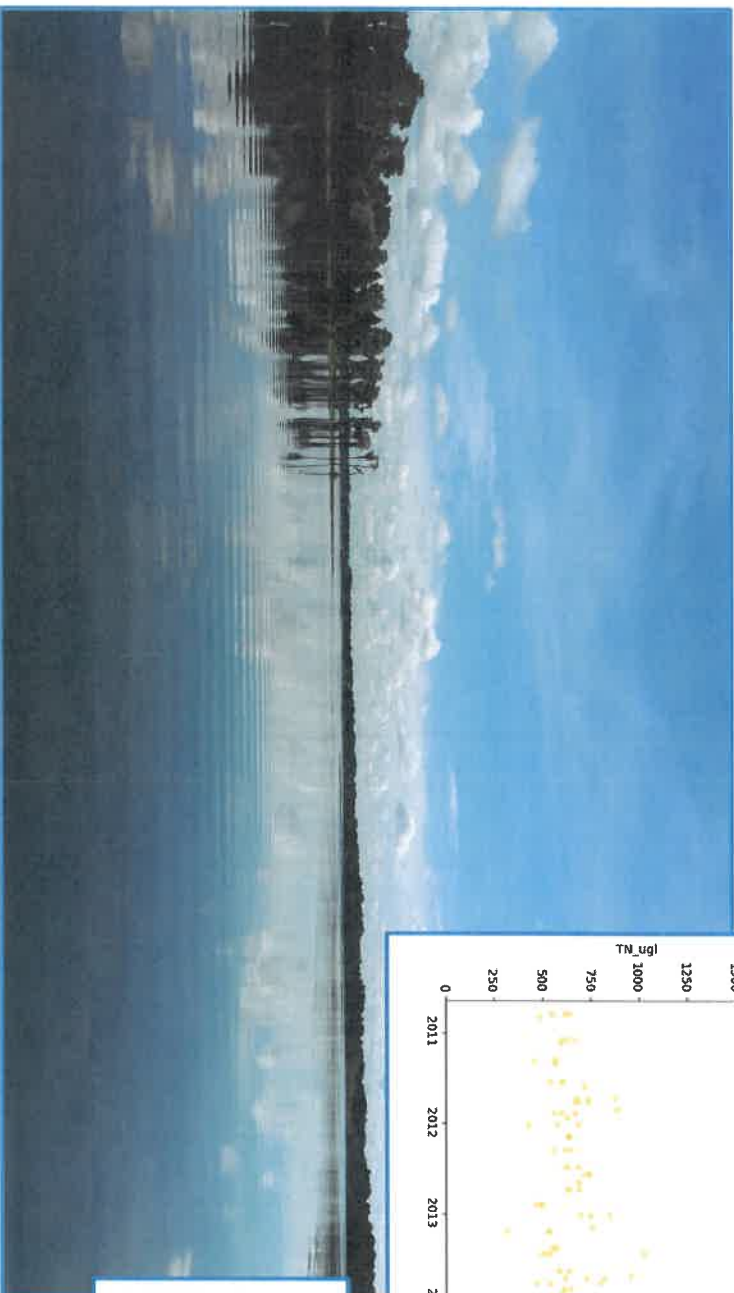
Water Quality Analysis

Butler Street & 7th Ave

Roadway and Drainage Improvements

Lake Butler Water Quality

- Lake Butler is Impaired for Nitrogen



Impairment Status
Impaired

Best Management Practices

- BMP Options analyzed using BMP Trains software for Nitrogen Removal efficiency

8/9/17/20/20

Welcome to EMD Trains Version: 4.1.0

This program is a product of the Stormwater Management Academy of the University of Central Florida.

Analysis by: Dr. Mary Waniakiska
Program by: Dr. Ron Eaglin

- 1) This program version (2020), released on June 3, 2020 is used to calculate the average annual removal effectiveness of stormwater Best Management Practices either as stand alone BMPs or as BMPs in series or in parallel.
- 2) There is a users manual to help navigate this program.
- 3) The State Department of Transportation provided guidance and resources to develop this program. The Stormwater Management Academy is responsible for the content of this program.

Disclaimer: The user is responsible for all input data and an understanding of the program details in the User Manual.




[Continue](#)

Summary Treatment Report Version: 4.1.0

Project: Widdowme
Analysis Type: BMP Analysis
BMP Type: Standard
Catchment 1 - (Other Street) Grade
Based on % removal values to the nearest percent

Summary Report
Nitrogen

Surface Water Discharge

Total N point load	2.99 kg/yr	2.66 kg/yr
Percent N load reduction	69.4%	1.21 kg/yr
Provided N discharge load	1.77 kg/yr	3.91 kg/yr
Provided N load removed	1.19 kg/yr	4.18 kg/yr
From Pre-Condition Loads		618 kg/yr
Exiting N Discharge	217 (kg/yr)	343 (kg/yr)

Phosphorus

Total P point load	4.11 kg/yr	4.28 kg/yr
Percent P load reduction	69.4%	1.18 kg/yr
Provided P discharge load	1.19 kg/yr	2.8 kg/yr
Provided P load removed	2.8 kg/yr	2.8 kg/yr
From Pre-Condition Loads		618 kg/yr
Exiting P Discharge	217 (kg/yr)	343 (kg/yr)

Summary Treatment Report Version: 4.1.0

Project: Widdowme
Analysis Type: BMP Analysis
BMP Type: Multiple
Catchment 1 - (Other Street) Multiple BMP
Based on % removal values to the nearest percent

Summary Report
Nitrogen

Surface Water Discharge

Total N point load	2.98 kg/yr	1.65 kg/yr
Percent N load reduction	75.4%	2.23 kg/yr
Provided N discharge load	0.73 kg/yr	4.92 kg/yr
Provided N load removed	2.23 kg/yr	4.92 kg/yr
From Pre-Condition Loads		618 kg/yr
Exiting N Discharge	217 (kg/yr)	343 (kg/yr)

Phosphorus

Total P point load	4.71 kg/yr	3.26 kg/yr
Percent P load reduction	75.4%	1.18 kg/yr
Provided P discharge load	1.18 kg/yr	3.53 kg/yr
Provided P load removed	3.53 kg/yr	3.53 kg/yr
From Pre-Condition Loads		618 kg/yr
Exiting P Discharge	217 (kg/yr)	343 (kg/yr)

Summary Treatment Report Version: 4.1.0

Project: Widdowme
Analysis Type: BMP Analysis
BMP Type: Multiple
Catchment 1 - (Other Street) Multiple BMP
Based on % removal values to the nearest percent

Summary Report
Nitrogen

Surface Water Discharge

Total N point load	2.66 kg/yr	0.7 kg/yr
Percent N load reduction	91.4%	2.17 kg/yr
Provided N discharge load	0.21 kg/yr	6.11 kg/yr
Provided N load removed	2.17 kg/yr	6.11 kg/yr
From Pre-Condition Loads		618 kg/yr
Exiting N Discharge	217 (kg/yr)	343 (kg/yr)

Phosphorus

Total P point load	4.11 kg/yr	0.7 kg/yr
Percent P load reduction	91.4%	0.83 kg/yr
Provided P discharge load	0.03 kg/yr	4.17 kg/yr
Provided P load removed	4.17 kg/yr	4.17 kg/yr
From Pre-Condition Loads		618 kg/yr
Exiting P Discharge	217 (kg/yr)	343 (kg/yr)

Best Management Practices

- Grassed Swale + Rain Garden
- 98% Nitrogen Removal Efficiency



*Opportunity for Public Education
and Recreation*



Best Management Practices

- Vegetated Shoreline
 - Park runoff must pass over vegetated shoreline to reach Lake Butler
 - Can be used in junction with other BMPs
 - Suggestion from Butler Chain of Lakes Hydrologic/Nutrient Budgets and Management Plan



Figure 7-18. Shoreline Area with Naturally Colonized Vegetation.



Figure 7-19. Shoreline Area Planted with Pickerelweed.

Water Quality Options

- Biosorption Activated Media (BAM) such as Bold and Gold Media
 - Placed in Rain Garden
- Biosorption Activated Media (BAM) such as Bold and Gold Media
 - Placed in Filter Box at outfall to Lake Butler

