TOWN COMMISSION MEETING

TUESDAY FEBRUARY 28TH, 2023

10:00 A.M.

PUBLIC NOTICE/AGENDA
Tuesday February 28th, 2023 at 10:00 a.m.

Town Commission		Town Staff	
Keith Waters, Mayor	_____	Linda Stumpf, Town Manager	_____
Stewart Satter, Vice Mayor	_____	Carmen Mattox, Chief of Police	_____
Richard Granara, Mayor Pro Tem	_____	Erika Petersen, Town Clerk	_____
Hank Siemon, Commissioner	_____	Keith W. Davis, Town Attorney	_____
Chauncey Johnstone, Commissioner	_____	Brent Watson, Waterplant Superintendent	_____
John Deese, Commissioner	_____		
Aileen Carlucci, Commissioner	_____		

CALL TO ORDER & PLEDGE OF ALLEGIANCE

SPECIAL PRESENTATION:
Appreciation award to Mayor Waters for years of service
Appreciation award to Commissioner Siemon for years of service

AGENDA ADDITIONS, DELETIONS OR SUBSTITUTIONS
MAYOR'S COMMENTS

CONSENT AGENDA:
1. Minutes from January 24, 2023 Town Commission Meeting
2. Police Department Report and Fire/Rescue Response Time Reports for January & FDOT Correspondence
3. Chen Moore/NZ Consultants revised agreement

REGULAR AGENDA:
1. Draft Construction Drawings from Mock Roos for the 30% Septic to Sewer design options
2. Lands End Road Cul de Sac improvements
3. Water Plant high service pump equipment purchase
4. Town Manager's Report

PUBLIC COMMENTS
OTHER BUSINESS

ADJOURNMENT

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision made by the Town Commission, Special Magistrate or any other Boards or Commissions of the Town with respect to any matter considered at this meeting or hearing, such interested person will need a record of the proceedings, and for such purpose may need to insure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. The meeting/hearing will be continued from day to day, time to time, place to place, as may be found necessary during the aforesaid meeting. IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), THIS DOCUMENT CAN BE MADE AVAILABLE IN AN ALTERNATE FORMAT (LARGE PRINT) UPON REQUEST AND SPECIAL ACCOMMODATIONS CAN BE PROVIDED UPON REQUEST WITH THREE (3) DAYS ADVANCE NOTICE. Please contact the Town Clerk at (561) 585-9477 - 600 South Ocean Blvd., Manalapan, FL 33462 - townhall@manalapan.org

TOWN OF MANALAPAN
AGENDA ITEM SUMMARY

Meeting Date:	February 28, 2023
Agenda Item No.:	CA.1
Agenda Item Name:	January 24th, 2023 Town Commission Meeting Minutes

ACTION REQUESTED: Discussion ☐ Approval ■

ATTACHMENT:

- January 24th, 2023 Town Commission Meeting Minutes

Town Commission Meeting

Tuesday January 24, 2023, at 10:00 a.m.

IN ATTENDANCE

TOWN COMMISSION	
Keith Waters, Mayor	**Zoom**
Stewart Satter, Vice Mayor	√
Richard Granara, Mayor Pro Tem	**X**
Hank Siemon, Commissioner	√
Chauncey Johnstone, Commissioner	√
John Deese, Commissioner	√
Aileen Carlucci, Commissioner	√

TOWN STAFF	
Linda Stumpf, Town Manager	**Zoom**
Carmen Mattox, Chief of Police	√
Erika Petersen, Town Clerk	√
Keith Davis, Town Attorney	√
Brent Watson, Water Plant Superintendent	√

PUBLIC: Tim Nardi (Eau Palm Beach), Tom Coffman (1725 LER), Joe & Orla Imbesi (1735 LER), Julie & Dan Leever (1730 LER), Amanda Vielma (AcuraAmanda Prod.), Evan Otis (Palm Beach Free Press) and Larry Barszweski (Coastal Star)

CALL TO ORDER & PLEDGE OF ALLEGIANCE

Town Commission meeting called to order at 10:00 a.m.

SPECIAL PRESENTATION

Appreciation plaque awarded to Tim Nardi and the Eau Palm Beach Resort for their support and generosity to the Town of Manalapan and its staff. Presented by Town Manager Stumpf and Chief Mattox.

LPA – LOCAL PLANNING AGENCY: LPA called to order at 10:05 am

Consideration of Ordinance #388 - AN ORDINANCE OF THE TOWN COMMISSION OF THE TOWN OF MANALAPAN, FLORIDA, AMENDING ITS COMPREHENSIVE DEVELOPMENT PLAN TO ADOPT EVALUATION AND APPRAISAL REVIEW ("EAR") BASED AMENDMENTS WHICH PROVIDE FOR AN EVALUATION AND FOR PLAN AMENDMENTS DETERMINED TO BE NECESSARY PURSUANT TO THE REQUIREMENTS OF SECTION 163.3191, FLORIDA STATUTES; BY ADOPTING A PRIVATE PROPERTY RIGHTS ELEMENT AND BY AMENDING THE COASTAL MANAGEMENT ELEMENT TO ADDRESS PERILS OF FLOOD, ALL PURSUANT TO THE REQUIREMENTS OF SECTION 163.3184 FLORIDA STATUTES; PROVIDING FOR TRANSMITTAL TO THE STATE LAND PLANNING AGENCY.

The Ordinance was read by Town Attorney Davis. He explained this ordinance proposes a number of amendments to the Town's Comprehensive Plan based on the periodic evaluation and appraisal review that

occurs every seven years by the State of Florida. Amendments include private property rights elements and coastal management to address the peril of flood issues.

Vice Mayor Satter made a motion to **recommend approval of Ordinance** #388 to the Town Commission on first reading. Commissioner Johnstone seconded the motion which prevailed by the following vote:

YES: Vice Mayor Satter, Commissioner Siemon, Commissioner Johnstone, Commissioner Deese and Commissioner Carlucci.
LPA adjourned at 10:08 am.

CONSENT AGENDA:
1. Minutes December 13, 2022 Town Commission Meeting
2. Police Department Report and Fire/Rescue Response Time Report for December

Commissioner Siemon made a motion to **approve** the Consent Agenda. Commissioner Deese seconded the motion which prevailed by the following vote:

YES: Vice Mayor Satter, Commissioner Siemon, Commissioner Johnstone, Commissioner Deese and Commissioner Carlucci

REGULAR AGENDA:

RA. 1 Town Manager Stumpf's Report

Code Enforcement: Town Manager Stumpf explained Manny, our code enforcement officer continues to keep on top of violations.
COVID update: She explained new case positivity is 15.3% and trending down.
Intracoastal Crossing Update: Town Manager Stumpf informed the Commission that the construction is complete and they are waiting to do back T's and asphalt. She stated the contractors expected to be done in two weeks.
Lands End Road Cul de Sac: Town Manager Stumpf explained the cul de sac at the end of Lands End Road is continually damaged by construction vehicles because the circumference of the circle is too large. She is working with the civil engineering firm, Mock Roos, and Commissioner Granara to get a design that would be more appropriate including reducing the diameter of the island. She also indicated the surrounding homeowners would prefer pavers for the entirety of the circle and they were amenable to providing the funding for the beautification of it.

Neighboring property owner, Joe Imbesi, spoke about the issues they have with the cul de sac.
Commissioner Siemon made a motion to **direct** the Town staff to move forward with the study and plans for the Lands End Road cul de sac improvements with input by local residents to be brought back before the Commission next meeting. Commissioner Deese seconded the motion which prevailed by the following vote:

YES: Vice Mayor Satter, Commissioner Siemon, Commissioner Johnstone, Commissioner Deese and Commissioner Carlucci

PUBLIC COMMENTS

Evan Otis from Palm Beach Free Press made comments.
Amanda Vielma from AcuraAmanda Productions made comments.

OTHER BUSINESS

There was none.

PUBLIC HEARING:

Consideration of Ordinance #388 - AN ORDINANCE OF THE TOWN COMMISSION OF THE TOWN OF MANALAPAN, FLORIDA, AMENDING ITS COMPREHENSIVE DEVELOPMENT PLAN TO ADOPT EVALUATION AND APPRAISAL REVIEW ("EAR") BASED AMENDMENTS WHICH PROVIDE FOR AN EVALUATION AND FOR PLAN AMENDMENTS DETERMINED TO BE NECESSARY PURSUANT TO THE REQUIREMENTS OF SECTION 163.3191, FLORIDA STATUTES; BY ADOPTING A PRIVATE PROPERTY RIGHTS ELEMENT AND BY AMENDING THE COASTAL MANAGEMENT ELEMENT TO ADDRESS PERILS OF FLOOD, ALL PURSUANT TO THE REQUIREMENTS OF SECTION 163.3184 FLORIDA STATUTES; PROVIDING FOR TRANSMITTAL TO THE STATE LAND PLANNING AGENCY.

LPA had recommended approval of Ordinance #388

Vice Mayor Satter made a motion to **recommend approval of Ordinance** #388 to the Town Commission on first reading. Commissioner Johnstone seconded the motion which prevailed by the following vote:
YES: Vice Mayor Satter, Commissioner Siemon, Commissioner Johnstone, Commissioner Deese and Commissioner Carlucci.

Meeting adjourned at 10:36 a.m.

These minutes were presented to the Town Commission on Tuesday February 28, 2023 for approval.

_____ _____

Keith Waters, Mayor Date Signed

_____ _____

Erika Petersen, Town Clerk Date Signed

TOWN OF MANALAPAN

AGENDA ITEM SUMMARY

Meeting Date: February 28, 2023

Agenda Item No.: CA.2

Agenda Item Name: Police Department Chief's Report and Palm Beach County Fire Rescue Response Times for January & FDOT Correspondence

ACTION REQUESTED: Discussion ☐ Action ■

ATTACHMENT:

- The Police Department Chief's Report for January including Monthly Stats
- Palm Beach County Fire/Rescue response times for January
- Correspondence with FDOT

TO: Mayor and Town Commissioners
Linda Stumpf, Town Manager

FROM: Chief Mattox

SUBJECT: Monthly Report for January

DATE: February 16, 2023

Staffing

As stated in my previous memos staffing levels are low due to multiple factors. I am currently processing 3 full time applicants.

Zone Coverage

We are staffing as manpower allows.

Fleet

All services and repairs are up to date

Training

All officers completed November's computer-based training. Several officers are due to complete mandatory re-certification. Every four years all certified law enforcement officers are required to complete the training to retain their certification.

Miscellaneous

I am still communicating with FDOT regarding the flooding on A1A. We did have some heavy rain at the end of January. This rain did not cause any flooding. FDOT is still inspecting their system and making repairs to reduce flooding. Lantana Public Works does not believe their system affects the flooding and chose not to inspect or clean out their drainage lines in the beach parking lot.

We have ordered the furniture for the police department remodel. The remodel is scheduled to begin May 1st, 2023.

The new handguns have yet to arrive. The holsters and other accessories are here however, the Glocks (like all other firearms) are on back order. They are expected to arrive in a month.

The Marine Patrol boat has been serviced and I expect it to be back in the water soon.

I continue to struggle with the Federal Government to move their buoy off the beach at 1600 South Ocean Boulevard. I have been in touch with Scott L. Larson, Chief of the National Park Service South Atlantic Gulf Region - Region 2. He was unable to provide any information regarding a timeline for the removal. I contacted Felicia Goldstein, J.D District Chief of Staff for Congresswoman Lois Frankel to see if they could help expedite the removal. I ultimately received

a response from Clayton Pollock of the Dry Tortugas National Park and they are coordinating payment through Tim Nardi at the EAU Hotel for removal by Beach Keepers beach raking business. The buoy should be removed on Saturday, February 25th. My thanks to Congresswoman Lois Frankel's office for their assistance.

Manalapan Police Department
Monthly Stats
January 2023

CALLS FOR SERVICE

Call Type	Total	Zone 1 Point	Zone 2 A1A	Zone 4 Out of Town	Zone 5 N. Inlet	Zone 6 Beach	Zone 7 Bird Island	Zone 8 Plaza & The EAU	Zone ORP
9-1-1 Abandoned	4								
9-1-1 Received	59								
9-1-1 Transfer	12								
Alarms	9	5	3					1	
Animal Complaints	10	7			1			2	
ATV Completed	134					134			
ATV Cancelled	43					43			
Assault	0								
Battery	0								
Boat/Marine Patrol	0								
Burglary A / B / R / V	0								
Child Abuse	0								
Construction Site Checks	151	117	34						
Dark House Checks	332	156	88					88	
Distressed Swimmer	1					1			
Disturbance	3	1	1					1	
Domestic	0								
Drones	0								
Driving Under Influence	0								
Drug Law Violation	0								
Grand Theft Auto	0								
Lewd Acts	0								
Fire	1		1						
Fire Alarm	0								
Fraud	1		1						
Information	8	3	1	1		1		2	
Obscene Harrassing Calls	1							1	
Mental	1							1	
Medical	12	2	3					7	
Mutual Aid	0								
Open Door	1							1	
Ordinance Violations	6	6							
Plaza Walk and Talk	111							111	
Parking Enforcement	109	51	20		3			35	
Possession of Alcohol	0								
Property Damage	0								
Property Found	0								
Property Lost	0								
Service Calls	27	13	5		4			5	
Suspicious Incident	0								
Suspicious Person	1		1						
Suspicious Vehicle	3		2					1	
Stolen Vehicle Alerts-LPR	0								
Theft	1		1						
Traffic Crash	3	1						2	
Traffic Stops	66	3	56					7	
Traffic Citations	13		13						
Trespass	1		1						
Vessel Stop	0								

Manalapan Police Department
Monthly Stats
January 2023

Warrant Arrest	0							
Welfare Check	1		1					
Work Hour	0							

Manalapan Police Department
Monthly Stats
January 2023

INCIDENT REPORTS

Case #	Incident Type	Zone	Note	Case #	Incident Type	Zone	Note
23-0001	Hit and Run	1					
23-0002	Recovered Stolen Tag	8					
23-0003	Crash	8					
23-0004	Overturned Boat	6					
23-0005	Recovered Stolen Tag	8					
23-0006	Recovered Stolen Decal	2					
23-0007	Theft	2					
23-0008	Traffic Stop	2					
23-0009	Recovered Stolen Tag	2					

MONTHLY TRAINING	MONTHLY DISPATCH CALLS				
In Service PLI - Burglary, Robbery and Theft		**911**	63		
		Non-Emergency	756		
		Total	819		

2/1/2023

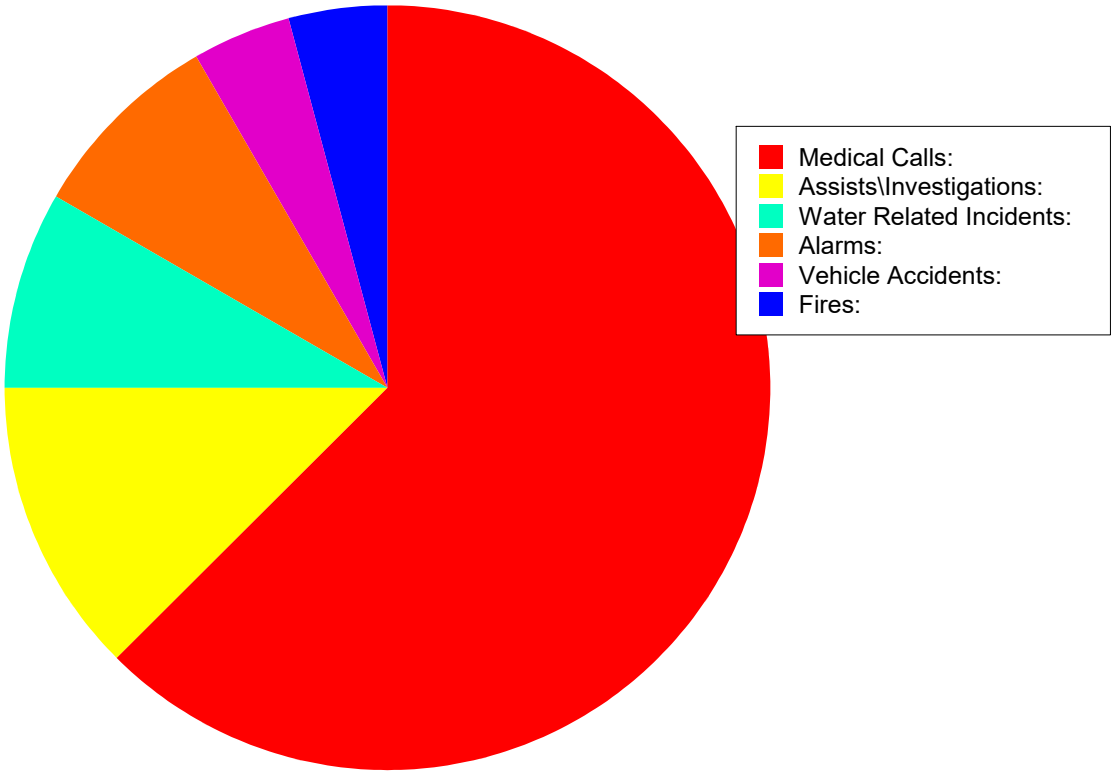
Palm Beach County Fire Rescue

Manalapan - # of Calls by Type

20230101 to 20230131

Type - Situation Dispatched	# of Incidents
Medical Calls:	15
Assists\Investigations:	3
Water Related Incidents:	2
Alarms:	2
Vehicle Accidents:	1
Fires:	1
Total number of Events:	**24**

Calls by Situation Dispatched



Created by Jill Gregory on 06/21/2013

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2/1/2023

Palm Beach County Fire Rescue

Manalapan Response Time Report

20230101 to 20230131

Event #	Station	Sit Disp	Location of Event	Date	Received	Entered	Dispatch	Enroute	Onscene	Close	Disp Hand	Turnout	Travel	Resp Time*
Emergency Calls:														
F23000382	38	Medical	S OCEAN BLVD MN	01/01/2023	12:42:34	12:42:54	12:43:00	12:43:17	12:52:00	13:25:14	0:00:26	0:00:17	0:08:43	0:09:26
F23001147	38	Medical	S OCEAN BLVD MN	01/02/2023	15:12:06	15:12:18	15:12:31	15:13:10	15:18:51	15:54:12	0:00:25	0:00:39	0:05:41	0:06:45
F23002412	38	Medical	S OCEAN BLVD MN	01/04/2023	12:19:44	12:20:12	12:20:20	12:20:43	12:23:00	13:09:29	0:00:36	0:00:23	0:02:17	0:03:16
F23003243	38	Medical	S OCEAN BLVD MN	01/05/2023		14:33:20	14:33:28	14:34:55	14:36:10	16:00:54	0:00:33	0:01:27	0:01:15	0:03:15
F23007984	38	Medical	S OCEAN BLVD MN	01/12/2023	09:10:17	09:10:44	09:10:49	09:11:51	09:21:23	10:22:47	0:00:32	0:01:02	0:09:32	0:11:06
F23008041	38	Medical	S OCEAN BLVD MN	01/12/2023	10:37:12	10:37:33	10:37:42	10:38:12	10:40:19	10:50:24	0:00:30	0:00:30	0:02:07	0:03:07
F23008780	38	Medical	LOGGERHEAD LN MN	01/13/2023		09:50:47	09:51:02	09:52:12	10:00:52	10:56:51	0:00:40	0:01:10	0:08:40	0:10:30
F23010893	38	Medical	S OCEAN BLVD MN	01/16/2023	10:41:26	10:42:10	10:42:17	10:43:00	10:48:43	11:12:34	0:00:51	0:00:43	0:05:43	0:07:17
F23012060	38	Medical	EVANS LN MN	01/17/2023		21:50:54	21:51:00	21:52:32	21:54:01	22:06:40	0:00:31	0:01:32	0:01:29	0:03:32
F23012287	38	Medical	LOGGERHEAD LN MN	01/18/2023	09:40:51	09:41:13	09:41:19	09:42:16	09:48:23	10:44:35	0:00:28	0:00:57	0:06:07	0:07:32
F23014592	38	Medical	S OCEAN BLVD MN	01/21/2023		13:21:19	13:21:29	13:21:37	13:28:32	14:27:11	0:00:35	0:00:08	0:06:55	0:07:38
F23015977	38	Brush Fire	S OCEAN BLVD MN	01/23/2023	13:07:59	13:08:18	13:08:51	13:09:42	13:11:11	13:16:54	0:00:52	0:00:51	0:01:29	0:03:12
F23016651	38	Medical	S OCEAN BLVD MN	01/24/2023	14:27:45	14:28:06	14:28:17	14:30:01	14:31:28	15:05:29	0:00:32	0:01:44	0:01:27	0:03:43
F23016654	38	Medical	S OCEAN BLVD MN	01/24/2023	14:28:49	14:29:39	14:30:02	14:30:06	14:39:26	15:41:11	0:01:13	0:00:04	0:09:20	0:10:37
F23018316	38	Medical	S OCEAN BLVD MN	01/26/2023	20:47:21	20:47:51	20:47:58	20:49:00	20:50:51	22:10:05	0:00:37	0:01:02	0:01:51	0:03:30
F23021381	38	Medical	S OCEAN BLVD MN	01/31/2023	10:52:58	10:53:15	10:53:24	10:54:31	10:56:03	11:12:53	0:00:26	0:01:07	0:01:32	0:03:05
										Average Response Times:	**0:00:37**	**0:00:51**	**0:04:38**	**0:06:06**
Non Emergency Calls:														
F23004579	38	Assist	S OCEAN BLVD MN	01/07/2023		11:54:59	11:55:04	11:55:14	11:56:54	12:07:15	0:00:30	0:00:10	0:01:40	0:02:20
F23009085	38	Assist	S OCEAN BLVD MN	01/13/2023		16:29:04	16:29:10	16:29:42	16:31:24	16:46:44	0:00:31	0:00:32	0:01:42	0:02:45
F23017010	38	Assist	S OCEAN BLVD MN	01/25/2023		00:55:02	00:55:10	00:57:21	01:01:54	01:33:20	0:00:33	0:02:11	0:04:33	0:07:17
F23019719	38	Fire Alarm	S OCEAN BLVD MN	01/28/2023		21:15:46	21:15:52	21:17:16	21:20:52	21:46:17	0:00:31	0:01:24	0:03:36	0:05:31

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2/1/2023

Palm Beach County Fire Rescue

Manalapan Response Time Report

20230101 to 20230131

Event #	Station	Sit Disp	Location of Event	Date	Received	Entered	Dispatch	Enroute	Onscene	Close	Disp Hand	Turnout	Travel	Resp Time*
Corrupt Data:														
F23009147	38	Medical	S OCEAN BLVD MN	01/13/2023		18:51:20	18:51:31	18:51:48		18:54:07	Empty Time Fields			
F23012056	38	Medical	EVANS LN MN	01/17/2023		21:41:03	21:41:10	21:43:07		21:44:35	Empty Time Fields			
F23021456	38	Medical	AUDUBON CSWY/DEAD END	01/31/2023	12:47:52	12:48:27	12:48:46	12:48:54		12:55:49	Empty Time Fields			
F23004823	38	Fire Alarm	LANDS END RD MN	01/07/2023		18:21:18	18:21:29	18:22:15		18:31:07	Empty Time Fields			

Total number of Events: 24

*Represents call received to arrival. If there is no received time, the County annual average call received to call entered time is used.

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From:	Carmen Mattox
To:	Erika Petersen
Subject:	Fwd: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us
Date:	Friday, February 3, 2023 4:06:00 PM
Attachments:	image001.png image001.png Report_TM_012323_Appendices_S&S.pdf

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Carmen Mattox

Begin forwarded message:

> **From:** Carmen Mattox <cmattox@manalapan.org>
> **Date:** February 3, 2023 at 4:04:53 PM EST
> **To:** Linda Stumpf <lstumpf@manalapan.org>
> **Subject: Fwd: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us**

> Carmen Mattox
>
> Begin forwarded message:

> > **From:** "Keel, Rana" <Rana.Keel@dot.state.fl.us>
> > **Date:** February 3, 2023 at 3:52:47 PM EST
> > **To:** Carmen Mattox <cmattox@manalapan.org>
> > **Cc:** "Overton, Jonathan" <Jonathan.Overton@dot.state.fl.us>, "Anaya de Yeats, Maria" <Maria.AnayadeYeats@dot.state.fl.us>
> > **Subject: RE: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us**
>
> > Good afternoon Chief Mattox,
> >
> > This email is in response to your request to reduce the speed limit on SR A1A within the Town of Manalapan (from East Ocean Boulevard to the Boynton Beach Inlet). The Department conducted a speed study (attached) to determine the feasibility of lowering the speed limit from 35 MPH to 25 MPH. The study determined that the 85th percentile speeds range from 30 to 38 MPH for the northbound direction and from 35 to 38 MPH for the southbound direction. Therefore, the posted speed of 35 MPH will not be lowered at this time.
> >
> > Your email request also indicated that there is a section of SR A1A south

of Manalapan where the posted speed is 25 MPH. Please note that the speed limit is posted as 25 MPH in this small section of SR A1A so drivers can safely reduce their speed approaching a curved road where the reduced speed is needed. Furthermore, the speed study that was prepared shows that the current posted speed of 35 MPH is appropriate along this corridor.

Thank you,

Rana Keel, E.I.
Push Button Program Manager
FDOT – District 4 Traffic Operations
Rana.Keel@dot.state.fl.us
954-777-4079

From: Overton, Jonathan <Jonathan.Overton@dot.state.fl.us>
Sent: Tuesday, January 17, 2023 2:10 PM
To: Carmen Mattox <cmattox@manalapan.org>; Keel, Rana <Rana.Keel@dot.state.fl.us>
Subject: RE: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us

Rana,
Please advise. Thank you.

Jonathan M. Overton, PE
District Traffic Operations Engineer
District Four
Office (954) 777-4351
Mobile (954) 868-7729
Jonathan.overton@dot.state.fl.us

From: Carmen Mattox <cmattox@manalapan.org>
Sent: Tuesday, January 17, 2023 2:01 PM
To: Overton, Jonathan <Jonathan.Overton@dot.state.fl.us>
Subject: RE: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us

Mr. Overton,

By any chance do you have an update for me

Carmen Mattox
Chief of Police
Manalapan Police Department
Desk (561)383 2550
Cell (561) 301-0981
Dispatch (561) 585-4030

From: Overton, Jonathan <Jonathan.Overton@dot.state.fl.us>
Sent: Thursday, December 29, 2022 12:34 PM
To: Carmen Mattox <cmattox@manalapan.org>; Keel, Rana <Rana.Keel@dot.state.fl.us>
Cc: Linda Stumpf <lstumpf@manalapan.org>
Subject: RE: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us

Hi Chief Mattox,
We will review this request for reduced speed limit and evaluate whether to make the speed limit change. Thank you.

Rana,
Please assign this study to staff and let Chief Mattox know the schedule with copy to me. Thank you.

Jonathan M. Overton, PE
District Traffic Operations Engineer
District Four
Office (954) 777-4351
Mobile (954) 868-7729
Jonathan.overton@dot.state.fl.us

From: Carmen Mattox <cmattox@manalapan.org>
Sent: Thursday, December 29, 2022 12:15 PM
To: Overton, Jonathan <Jonathan.Overton@dot.state.fl.us>
Cc: Linda Stumpf <lstumpf@manalapan.org>
Subject: Request to reduce speed limit on A1AJonathan.overton@dot.state.fl.us

EXTERNAL SENDER: Use caution with links and attachments.

Mr. Overton,

The Town of Manalapan is requesting that the speed limit be reduced from 35 to 25 MPH on A1A. The section of A1A I am referring to runs from East Ocean Boulevard to the Boynton Inlet.
Directly south of Manalapan on A1A in the adjacent jurisdiction there a sections of the roadway posted at 25 MPH.

Thank you for your assistance in this matter

Carmen Mattox
Chief of Police
Manalapan Police Department
Desk (561)383 2550
Cell (561) 301-0981
Dispatch (561) 585-4030

Traffic Operations Continuing Services

Task Work Order No. 55

Spot Speed Study

SR-A1A from Boynton Beach Inlet to E Ocean Avenue

Palm Beach County, FL

Prepared for

FDOT

District 4

Prepared by:
McMahon, A Bowman Company

January 2023

mcmahonassociates.com

SPOT SPEED STUDY

SR-A1A from Boynton Beach Inlet to E Ocean Avenue

Palm Beach County, FL

Traffic Operations Continuing Services

FM NO.:	229944-6-32-01
CONTRACT NO.:	C-AJ59
TASK WORK ORDER NO.:	55
FDOT PROJECT MANAGER:	Maria Elena Anaya de Yeats, E.I.
McMAHON PROJECT MANAGER:	R. Trent Ebersole, P.E.
ROADWAY ID:	93060000
MILEPOST:	15.723 to 18.417

RICHARD TRENT EBERSOLE
LICENSE
No. 64318
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1/23/23

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Professional Engineering License No. 64318
State of Florida, Board of Professional Engineers
Certificate of Authorization No. 4908

prepared for

FDOT
District 4

Prepared by:
McMahon, A Bowman Company

McMahon No.: L22107.55

January 2023

TECHNICAL MEMORANDUM

Date: January 23, 2023
Client: Florida Department of Transportation – District 4
Project: SR-A1A from Boynton Beach Inlet to E Ocean Avenue – Spot Speed Study
County: Palm Beach County
Roadway ID No.: 93060000
SLDMP: 15.723 to 18.417
Contract No.: C-AJ59
Payment FM No.: 229944-6-32-01
Task Work Order No.: 55
McMahon Project No.: L22107.55

McMahon Associates, Inc. (McMahon) used automatic traffic recorder (ATR) machines to collect northbound and southbound 24-hour vehicle speed data at four (4) locations along SR-A1A from Boynton Beach Inlet to E Ocean Avenue, in Palm Beach County. **Appendix A** provides an aerial photograph showing the data collection locations. This section of SR-A1A is generally a two-lane, two-way, undivided roadway. The posted speed limit is 35 miles per hour (MPH). The area is surrounded by retail, office, restaurant, residential, and police station land uses. The speed data was collected on Tuesday, January 17, 2023, and is included as **Appendix B**.

Table 1 summarizes the date, posted speed limit, 85th percentile speed, average speed, and 10 MPH pace for each direction. The 85th percentile speeds range from 30 to 38 MPH for the northbound direction and from 35 to 38 MPH for the southbound direction. The speeds for the 24-hours of collected data are graphically shown on Figure A-1, attached in Appendix A.

Table 1 Data Collection Summary

Location		Posted Speed Limit (MPH)	Direction	Date	85th Percentile Speed (MPH)	Average Speed (MPH)	10 MPH Pace Speed (MPH)
No.	Street						
1	SR A1A, north of Boynton Beach Inlet	35	Northbound	1/17/2023	33	28	25-34
			Southbound		35	29	25-34
2	SR A1A, south of 1720 S Ocean Boulevard	35	Northbound	1/17/2023	30	25	20-29
			Southbound		35	30	25-34
3	SR A1A, south of 1100 S Ocean Boulevard	35	Northbound	1/17/2023	37	32	30-39
			Southbound		38	33	30-39
4	SR A1A, south of E Ocean Avenue	35	Northbound	1/17/2023	38	33	30-39
			Southbound		38	33	30-39

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Appendix A

Spot Speed Locations

Figure A-1
Data Collection Location
SR-A1A from Boynton Beach Inlet to E Ocean Avenue
Palm Beach County, Florida

McMahon, a Bowman Company

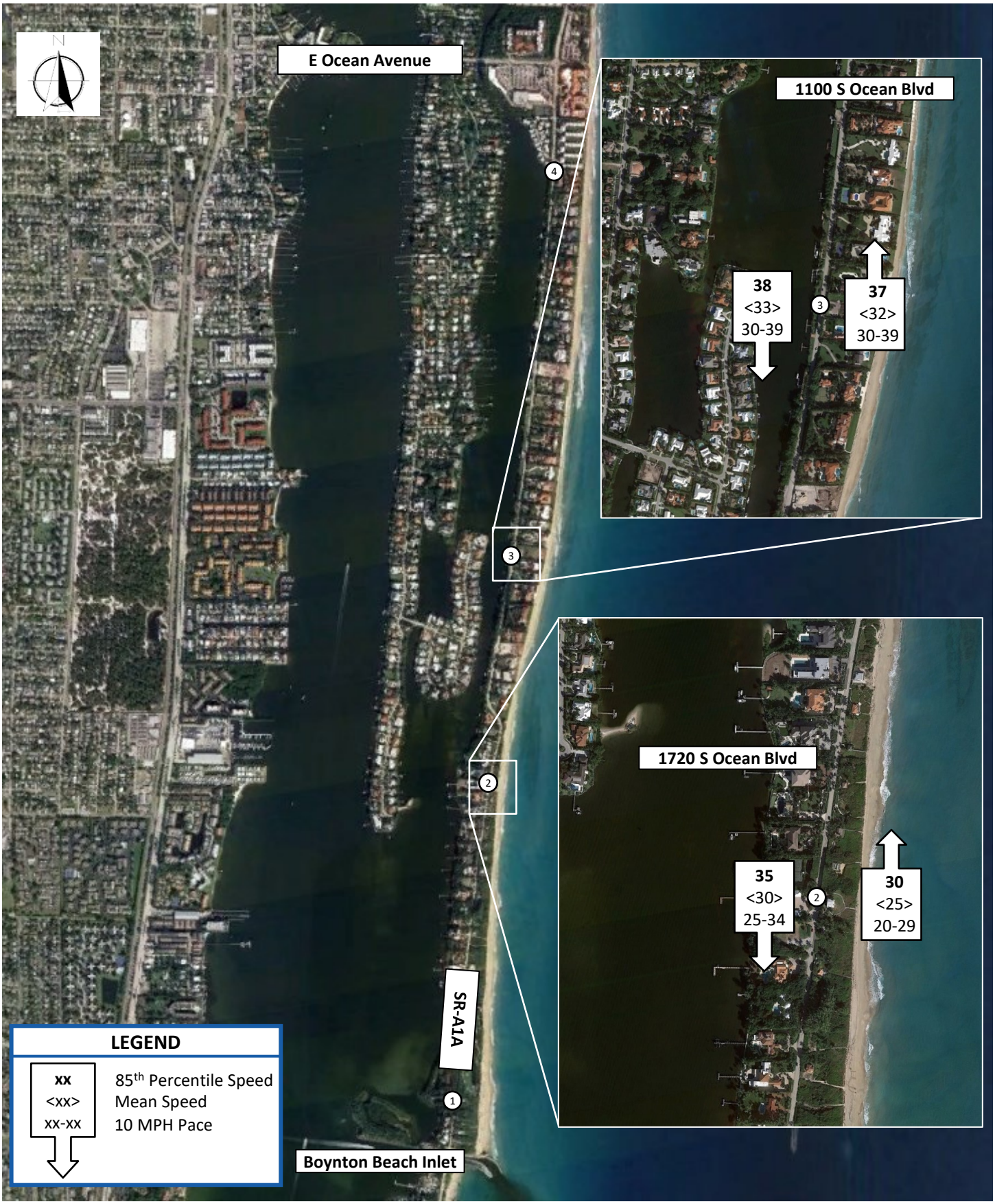


Figure A-1 (Continued)
Data Collection Location
SR-A1A from Boynton Beach Inlet to E Ocean Avenue
Palm Beach County, Florida

McMahon, a Bowman Company

Appendix B

Speed Data

24 Hour Speed Study

File Name: Location1
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Northbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	0	3	5	3	0	0	0	0	0	0	0	11
1:00	0	0	0	6	2	0	0	0	0	0	0	0	0	8
2:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
3:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
4:00	0	0	0	2	0	0	0	0	0	0	0	0	0	2
5:00	0	0	0	2	1	0	1	0	0	0	0	0	0	4
6:00	0	2	8	5	20	2	2	1	0	0	0	0	0	40
7:00	2	5	4	32	51	11	1	0	0	0	0	0	0	106
8:00	0	8	25	55	57	18	0	1	0	0	0	0	0	164
9:00	2	3	19	58	39	9	1	1	0	0	0	0	0	132
10:00	5	4	34	69	46	4	0	0	0	0	0	0	0	162
11:00	3	12	45	95	30	6	0	0	0	0	0	0	0	191
12:00 PM	0	10	49	99	45	10	1	0	0	0	0	0	0	214
1:00	1	9	55	99	43	7	0	0	0	0	0	0	0	214
2:00	1	4	56	103	49	5	0	0	0	0	0	0	0	218
3:00	0	12	55	138	63	0	1	0	0	0	0	0	0	269
4:00	0	4	43	120	70	7	0	0	0	0	0	0	0	244
5:00	1	2	44	134	76	10	1	0	0	0	0	0	0	268
6:00	0	2	29	79	42	8	0	0	0	0	0	0	0	160
7:00	0	0	0	36	34	3	1	0	0	0	0	0	0	74
8:00	0	1	2	25	30	7	1	0	0	0	0	0	0	66
9:00	0	0	4	21	24	3	1	1	0	0	0	0	0	54
10:00	1	0	5	12	16	3	1	0	0	0	0	0	0	38
11:00	0	0	3	9	8	1	0	0	0	0	0	0	0	21
Total	16	78	480	1203	752	118	12	4	0	0	0	0	0	2663

Stats					
	Percentile	15th	50th	85th	95th
	Speed	24	29	33	36
	Mean Speed (Average)	28.2			
	10 MPH Pace Speed	25-34			
	Number in Pace	1950			
	Percent in Pace	73.2			
	Number 35 MPH	134			
	Percent 35 MPH	5.0			

24 Hour Speed Study

File Name: Location1
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Southbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	2	3	1	0	0	0	0	0	0	0	0	6
1:00	0	0	0	0	2	2	1	0	0	0	0	0	0	5
2:00	0	0	0	0	0	1	1	0	0	0	0	0	0	2
3:00	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:00	0	0	1	0	1	0	0	0	0	0	0	0	0	2
5:00	0	0	2	3	0	0	0	0	0	0	0	0	0	5
6:00	2	2	10	20	21	8	1	0	0	0	0	0	0	64
7:00	0	0	11	61	43	20	12	0	0	0	0	0	0	147
8:00	0	8	30	64	52	15	5	1	0	0	0	0	0	175
9:00	0	10	28	62	43	11	2	0	0	0	0	0	0	156
10:00	0	12	25	60	42	19	4	0	0	0	0	0	0	162
11:00	7	5	24	61	46	10	7	0	0	0	0	0	0	160
12:00 PM	1	3	32	93	40	30	4	0	0	0	0	0	0	203
1:00	2	4	28	92	53	17	6	1	0	0	0	0	0	203
2:00	1	1	46	102	57	15	6	1	0	0	0	0	0	229
3:00	0	17	67	109	59	7	4	0	0	0	0	0	0	263
4:00	0	9	55	113	58	28	8	0	0	0	0	0	0	271
5:00	0	4	18	104	71	27	9	1	0	0	0	0	0	234
6:00	0	2	19	83	56	41	12	0	0	0	0	0	0	213
7:00	0	0	9	23	15	9	6	2	0	0	0	0	0	64
8:00	0	0	8	24	19	12	1	1	0	0	0	0	0	65
9:00	0	0	1	14	31	13	6	1	0	0	0	0	0	66
10:00	0	0	1	5	13	4	7	0	0	0	0	0	0	30
11:00	0	0	0	1	1	2	2	0	0	0	0	0	0	6
Total	13	77	417	1097	724	291	104	9	0	0	0	0	0	2732

Stats					
	Percentile	15th	50th	85th	95th
	Speed	25	29	35	40
	Mean Speed (Average)	29.4			
	10 MPH Pace Speed	25-34			
	Number in Pace	1815			
	Percent in Pace	66.4			
	Number 35 MPH	404			
	Percent 35 MPH	14.8			

24 Hour Speed Study

File Name: Location2
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Southbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	0	0	9	1	3	0	0	0	0	0	0	13
1:00	0	0	0	6	1	1	0	0	0	0	0	0	0	8
2:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1
3:00	0	0	0	1	0	0	1	0	0	0	0	0	0	2
4:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
5:00	0	0	0	0	2	1	1	0	0	0	0	0	0	4
6:00	0	2	2	6	16	11	5	1	0	0	0	0	0	43
7:00	1	2	3	14	50	29	2	0	0	0	0	0	0	101
8:00	1	0	13	64	65	26	2	1	0	0	0	0	0	172
9:00	4	3	12	53	44	16	2	0	0	0	0	0	0	134
10:00	3	1	27	64	60	17	0	0	0	1	0	0	0	173
11:00	3	4	29	100	53	16	2	0	0	0	0	0	0	207
12:00 PM	1	5	38	69	85	23	0	0	0	0	0	0	0	221
1:00	3	3	28	93	70	20	2	0	0	0	0	0	0	219
2:00	7	7	33	107	67	15	1	0	1	0	0	0	0	238
3:00	10	25	43	99	93	17	1	0	0	0	0	0	0	288
4:00	1	7	24	122	97	15	4	0	0	0	0	0	0	270
5:00	4	7	26	105	108	25	5	3	0	0	0	0	0	283
6:00	2	2	11	63	69	20	1	0	0	0	0	0	0	168
7:00	0	0	1	21	41	8	2	0	0	0	0	0	0	73
8:00	0	0	2	24	28	9	2	2	0	0	0	0	0	67
9:00	0	0	2	10	28	12	5	1	1	0	0	0	0	59
10:00	0	0	1	9	15	14	0	0	0	0	0	0	0	39
11:00	0	1	2	7	9	2	0	0	0	0	0	0	0	21
Total	40	69	297	1038	1011	298	42	8	2	1	0	0	0	2806

Stats					
		Percentile	15th	50th	85th	95th
		Speed	25	30	35	37
	Mean Speed (Average)		29.7			
	10 MPH Pace Speed		25-34			
	Number in Pace		2035			
	Percent in Pace		72.5			
	Number	35 MPH	351			
	Percent	35 MPH	12.5			

24 Hour Speed Study

File Name: Location2
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Northbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	2	3	0	2	0	0	0	0	0	0	0	7
1:00	2	1	2	2	2	0	0	0	0	0	0	0	0	9
2:00	0	0	1	0	1	0	0	0	0	0	0	0	0	2
3:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:00	0	0	1	1	0	0	0	0	0	0	0	0	0	2
5:00	0	3	1	2	0	1	0	0	0	0	0	0	1	8
6:00	2	12	20	22	13	5	3	0	0	0	0	0	0	77
7:00	3	15	38	74	38	9	1	0	0	0	0	0	0	178
8:00	4	30	43	76	44	8	1	0	0	0	0	0	0	206
9:00	9	27	61	73	28	0	0	0	0	0	0	0	0	198
10:00	21	14	56	89	18	2	0	0	0	0	0	0	0	200
11:00	24	29	46	70	31	11	2	0	0	0	0	0	0	213
12:00 PM	20	23	62	99	30	7	0	1	1	0	0	0	0	243
1:00	7	22	70	101	38	5	1	0	0	0	0	0	0	244
2:00	7	28	98	88	23	6	2	0	0	0	0	0	0	252
3:00	11	42	120	91	26	2	0	1	0	0	0	0	0	293
4:00	11	31	110	135	25	2	0	0	0	0	0	0	0	314
5:00	2	17	87	117	45	4	1	0	0	0	0	0	0	273
6:00	2	15	72	104	36	5	1	0	0	0	0	0	0	235
7:00	2	5	26	24	15	4	1	0	0	0	0	0	0	77
8:00	0	7	17	30	6	3	0	0	0	0	0	0	0	63
9:00	0	7	12	29	17	4	0	0	0	0	0	0	0	69
10:00	0	3	14	9	5	1	0	0	0	0	0	0	0	32
11:00	0	0	4	2	3	1	0	0	0	0	0	0	0	10
Total	127	331	964	1241	444	82	13	2	1	0	0	0	1	3206

Stats					
Percentile	15th	50th	85th	95th	
Speed	20	26	30	34	
Mean Speed (Average)	25.3				
10 MPH Pace Speed	20-29				
Number in Pace	2187				
Percent in Pace	68.2				
Number 35 MPH	99				
Percent 35 MPH	3.1				

24 Hour Speed Study

File Name: Location 3
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Southbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	0	3	2	1	1	0	0	0	0	0	0	7
1:00	0	0	0	1	1	2	2	1	0	0	0	0	0	7
2:00	0	0	0	0	0	0	3	0	0	0	0	0	0	3
3:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1
4:00	0	0	0	0	1	1	0	0	0	0	0	0	0	2
5:00	0	1	0	2	3	2	2	0	0	0	1	0	0	11
6:00	0	0	2	6	36	25	7	0	0	0	0	0	0	76
7:00	1	1	3	9	69	87	15	3	0	0	0	0	0	188
8:00	0	5	13	12	88	71	19	1	1	0	0	0	0	210
9:00	3	12	6	29	107	42	5	1	0	0	0	0	0	205
10:00	8	14	2	21	94	50	7	0	0	0	0	0	0	196
11:00	9	11	2	28	77	59	17	4	0	0	0	0	0	207
12:00 PM	5	5	3	52	111	54	11	1	0	0	0	0	0	242
1:00	10	7	7	38	125	43	12	1	0	0	0	0	0	243
2:00	2	2	9	40	136	65	7	0	0	0	0	0	0	261
3:00	4	3	11	55	118	71	13	2	0	0	0	0	0	277
4:00	3	8	14	34	137	92	16	2	0	0	0	0	0	306
5:00	2	4	2	26	112	102	25	1	0	0	0	0	0	274
6:00	1	5	9	28	108	62	10	0	0	0	0	0	0	223
7:00	0	1	1	2	31	37	5	1	0	0	0	0	0	78
8:00	0	0	0	1	27	32	4	1	0	0	0	0	0	65
9:00	0	0	0	3	21	33	7	3	0	1	0	0	0	68
10:00	0	0	1	2	11	11	8	0	0	0	0	0	0	33
11:00	0	0	0	0	5	1	3	2	0	0	0	0	0	11
Total	48	79	85	392	1420	943	200	24	1	1	1	0	0	3194

Stats					
	Percentile	15th	50th	85th	95th
	Speed	29	34	38	41

Mean Speed (Average)	33.2
10 MPH Pace Speed	30-39
Number in Pace	2352
Percent in Pace	73.6
Number 35 MPH	1170
Percent 35 MPH	36.6

24 Hour Speed Study

File Name: Location 3
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Northbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	0	1	4	4	4	0	1	0	0	0	0	14
1:00	0	0	0	5	1	4	1	0	0	0	0	0	0	11
2:00	0	0	0	0	0	1	1	1	0	0	0	0	0	3
3:00	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
5:00	0	0	0	0	6	0	1	0	0	0	0	0	0	7
6:00	4	7	3	5	13	19	3	1	0	1	0	0	0	56
7:00	0	11	4	7	29	45	17	0	0	0	0	0	0	113
8:00	2	7	7	26	97	64	11	1	0	0	0	0	0	215
9:00	0	13	9	30	78	33	6	0	1	0	0	0	0	170
10:00	3	8	14	42	84	48	2	0	0	0	0	0	0	201
11:00	1	9	30	57	107	30	7	0	1	0	0	0	0	242
12:00 PM	2	4	9	60	137	46	7	2	0	0	0	0	0	267
1:00	1	5	14	53	127	61	8	1	0	0	0	0	0	270
2:00	1	3	12	42	119	76	6	1	0	1	0	0	0	261
3:00	6	16	41	86	136	61	6	1	0	0	0	0	0	353
4:00	1	2	9	55	163	98	12	1	1	0	0	0	0	342
5:00	0	0	9	36	156	107	10	5	0	0	0	0	0	323
6:00	1	1	15	34	88	46	10	1	0	0	0	0	0	196
7:00	0	1	1	5	45	36	2	0	1	0	0	0	0	91
8:00	0	0	1	4	33	22	9	1	0	0	0	0	0	70
9:00	0	0	0	5	36	21	6	0	1	0	1	0	0	70
10:00	0	0	2	4	7	23	6	1	0	0	0	0	0	43
11:00	0	0	2	3	7	10	2	0	0	0	0	0	0	24
Total	22	87	182	560	1473	856	137	18	6	2	1	0	0	3344

Stats					
		Percentile	15th	50th	85th	95th
		Speed	28	33	37	40
	Mean Speed (Average)		32.4			
	10 MPH Pace Speed		30-39			
	Number in Pace		2323			
	Percent in Pace		69.5			
	Number	35 MPH	1020			
	Percent	35 MPH	30.5			

24 Hour Speed Study

File Name: Location 4
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Southbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	0	2	1	2	0	1	0	0	0	0	0	6
1:00	0	0	0	2	2	0	3	0	0	0	0	0	0	7
2:00	0	0	0	0	0	0	2	1	0	0	0	0	0	3
3:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4:00	0	1	0	0	2	1	0	0	0	0	0	0	0	4
5:00	0	1	1	1	6	3	2	0	0	1	0	0	0	15
6:00	0	4	4	12	28	36	7	4	1	0	0	0	0	96
7:00	2	1	4	18	84	97	17	8	0	0	0	0	0	231
8:00	1	16	5	31	97	105	25	2	0	0	0	0	0	282
9:00	5	16	19	41	81	67	10	2	0	0	0	0	0	241
10:00	9	16	10	31	92	51	13	1	0	0	0	0	0	223
11:00	9	11	9	32	88	81	12	0	1	0	0	0	0	243
12:00 PM	7	15	19	50	113	57	12	2	0	0	0	0	0	275
1:00	6	4	0	40	143	73	14	0	0	0	0	0	0	280
2:00	5	5	13	46	112	88	6	1	0	0	0	0	0	276
3:00	1	7	9	47	142	78	10	1	1	0	0	0	0	296
4:00	7	12	9	67	144	61	14	1	0	0	0	0	0	315
5:00	8	6	10	30	137	85	12	1	0	0	0	0	0	289
6:00	3	8	22	38	99	46	7	0	0	0	0	0	0	223
7:00	0	2	0	5	38	28	5	1	0	0	0	0	0	79
8:00	0	0	4	14	36	18	3	1	0	0	0	0	0	76
9:00	0	1	3	9	38	23	1	0	0	0	0	0	0	75
10:00	2	0	0	4	4	22	4	0	0	0	0	0	0	36
11:00	0	0	1	0	6	5	0	1	1	0	0	0	0	14
Total	65	126	142	520	1493	1028	179	28	4	1	0	0	0	3586

Stats					
	Percentile	15th	50th	85th	95th
	Speed	28	34	38	41
	Mean Speed (Average)	32.5			
	10 MPH Pace Speed	30-39			
	Number in Pace	2511			
	Percent in Pace	70.0			
	Number 35 MPH	1240			
	Percent 35 MPH	34.6			

24 Hour Speed Study

File Name: Location 4
Date Printed: 1/20/2023
Start Date: 1/17/2023
End Date: 1/17/2023

Direction: Northbound

1/17/2023 Time	0 - 15 MPH	15 - 20 MPH	20 - 25 MPH	25 - 30 MPH	30 - 35 MPH	35 - 40 MPH	40 - 45 MPH	45 - 50 MPH	50 - 55 MPH	55 - 60 MPH	60 - 65 MPH	65 - 70 MPH	70 MPH	Total
12:00 AM	0	0	1	1	1	9	6	0	0	0	0	0	0	18
1:00	0	0	0	3	1	6	0	0	0	0	0	0	0	10
2:00	0	0	1	1	0	1	1	0	0	0	0	0	0	4
3:00	0	1	0	0	0	1	1	0	0	0	0	0	0	3
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	1	0	0	0	1	3	3	0	0	0	0	0	0	8
6:00	1	5	5	4	10	17	6	2	1	0	0	0	0	51
7:00	3	12	9	3	26	51	17	0	0	0	0	0	0	121
8:00	5	5	4	13	74	78	14	1	1	0	0	0	0	195
9:00	6	19	10	25	65	49	4	0	0	0	0	0	0	178
10:00	3	18	9	26	91	66	3	0	1	0	0	0	0	217
11:00	4	7	11	49	132	67	5	4	0	0	0	0	0	279
12:00 PM	5	7	25	48	137	59	9	0	0	0	0	0	0	290
1:00	1	9	7	33	131	86	10	0	0	0	0	0	0	277
2:00	0	7	6	28	125	100	19	2	1	0	0	0	0	288
3:00	2	0	16	77	166	92	20	0	0	0	0	0	0	373
4:00	4	12	27	48	172	115	15	1	0	0	0	0	0	394
5:00	4	7	6	50	163	88	13	1	1	0	0	0	0	333
6:00	0	3	18	27	103	60	7	0	0	0	0	0	0	218
7:00	1	4	1	8	33	40	9	0	0	0	0	0	0	96
8:00	0	3	2	7	36	28	7	0	1	0	0	0	0	84
9:00	2	0	1	5	31	25	7	0	0	0	0	0	0	71
10:00	0	0	0	5	13	26	1	2	1	0	0	0	0	48
11:00	0	0	1	2	11	4	4	1	0	0	0	0	0	23
Total	42	119	160	463	1523	1071	181	14	7	0	0	0	0	3580

Stats					
	Percentile	15th	50th	85th	95th
	Speed	29	34	38	41
	Mean Speed (Average)	32.8			
	10 MPH Pace Speed	30-39			
	Number in Pace	2582			
	Percent in Pace	72.1			
	Number 35 MPH	1273			
	Percent 35 MPH	35.6			

TOWN OF MANALAPAN

AGENDA ITEM SUMMARY

Meeting Date: February 28, 2023

Agenda Item No.: CA.3

Agenda Item Name: Chen Moore/NZ Consultants revised agreement

ACTION REQUESTED: Discussion ☐ Action ■

BACKGROUND:

- NZ Consultants has provided the Town planning and zoning services for many years. As of December 2022, NZ Consultants has merged with Chen Moore & Associates. The staff would like to continue the working relationship under the same terms and conditions that they had with NZ Consultants with Chen Moore & Associates. The attached agreement outlines the particulars of the arrangement.

ATTACHMENT:

- Planning Services agreement with Chen Moore & Associates

TOWN OF MANALAPAN

ASSIGNMENT OF PLANNING SERVICES AGREEMENT

THIS ASSIGNMENT OF PLANNING SERVICES AGREEMENT is entered into and effective this ____ day of February, 2023 (the "Effective Date"), by and between the TOWN OF MANALAPAN, a Florida municipal corporation with offices located at 600 South Ocean Boulevard, Manalapan, Florida 33462, organized and existing in accordance with the laws of the State of Florida, hereinafter the "Town"; and CHEN MOORE AND ASSOCIATES, INC., a Florida corporation, with offices located at 500 West Cypress Creek Road, Suite 630, Fort Lauderdale, FL 33309, hereinafter the "Consultant" and collectively with the Town, the "Parties".

WITNESSETH

WHEREAS, the Town has historically and consistently received "Planning Services" from the planning firm of NZ Consultants, Inc. for many years; and

WHEREAS, NZ Consultants, Inc. has, as of December 2022 merged its Planning Services practice into the Consultant's firm; and

WHEREAS, The Consultant now desires, and the Town agrees, to assume the provision of Planning Services to the Town under the same terms and conditions as the Town previously had with NZ Consultants, Inc. in December 2022; and

WHEREAS, the Town and the Consultant, in consideration of the mutual covenants contained herein and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by both Parties, hereby agree as follows:

1. <u>SCOPE OF SERVICES:</u>

a. The Consultant hereby assumes the obligations and the rights to provide the Town with continued Planning Services as the Town has historically and consistently received from NZ Consultants, Inc. through December 2022.

b. "Planning Services" for purposes of this Agreement means that the Consultant will provide professional planning services through its Planner, A. Everard, who shall be responsible for all matters under the jurisdiction of the Town's Architectural Commission (ARCOM), including attendance at all ARCOM meetings, reviewing and commenting to applicants on all ARCOM applications, consulting as needed with Town personnel regarding same, and

performing related tasks as directed by the Town Manager from time to time. It is the purpose and intent of this Agreement that A. Everard continue to provide planning services to the Town in the exact same manner as she did under NZ Consultants, Inc. prior to the merger of NZ Consultants, Inc.'s planning services into the Consultant's company.

c. "Planning Services" for purposes of this Agreement also means responsibility for maintaining and updating the Town's Comprehensive Development Plan as required by Chapter 163, *Florida Statutes*. Work related to the Town's Comprehensive Development Plan may be performed by A. Everard or by other qualified planners employed by the Consultant, who were previously affiliated with NZ Consultants, Inc., or by such other qualified planners employed by the Consultant upon the advance written approval of the Town Manager.

d. The Consultant may provide additional Planning Services upon mutual agreement with the Town Manager for the provision of such services. The provision of any such additional services, including additional hours of work and additional compensation shall be pursuant to an addendum to this Agreement, executed by both the Consultant and the Town Manager.

e. The Consultant will perform all Planning Services for the Town in accordance with all applicable federal, state and local laws, rules and regulations.

f. IT IS EXPRESSLY AGREED AND UNDERSTOOD BY THE TOWN AND THE CONSULTANT THAT THE CONSULTANT SHALL NOT PROVIDE "ENGINEERING SERVICES" OR "ARCHITECT SERVICES" OR "LANDSCAPE ARCHITECT SERVICES" OR "SURVEYING AND MAPPING SERVICES" TO THE TOWN UNDER THIS AGREEMENT, AS THOSE SERVICES ARE DEFINED BY SEC. 287.055, *FLORIDA STATUTES,* WITHOUT THE TOWN FIRST COMPLYING WITH ALL REQUIREMENTS OF THE "CONSULTANTS' COMPETITIVE NEGOTIATION ACT" AND THE CONSULTANT BEING SELECTED BY THE TOWN AND SEPARATELY CONTRACTED BY THE TOWN TO PERFORM SUCH SERVICES AS A RESULT.

2. INDEPENDENT CONTRACTOR: The Consultant will perform all required services on an independent contractor basis and shall be solely responsible for its employees' payroll taxes to include, but not be limited to Federal Income Withholding Tax, workers' compensation, FICA, and Federal and State Unemployment taxes. The Consultant is responsible for proper certification and licensure of all officers and employees and for the provision of benefits, insurance, etc. for its officers and employees.

3. COMPENSATION: The fee for Planning Services provided pursuant to this Agreement shall be at the rate of Seventy One Dollars and Fifty Cents ($71.50) per hour for all Planning Services. Travel expenses shall be at the flat rate of Thirty Seven Dollars ($37.00) for each day A. Everard travels to and from the Town to perform ARCOM related Planning Services. No other travel expenses shall be paid by the Town without advance written approval of the Town Manager. No other Consultant incurred expenses shall be paid by the Town without advance written approval of the Town Manager. This compensation structure may be re-negotiated by the Parties in conjunction with any renewal of this Agreement.

4. PAYMENT: The Consultant shall submit a monthly billing invoice to the Town identifying and itemizing in detail the task(s) completed by the Consultant and the amount due and payable to the Consultant. The Town shall pay the Consultant pursuant to the invoice normally within thirty (30) days of receipt.

5. PROVISION OF OFFICE SPACE AND SUPPLIES: The Town agrees to provide the necessary administrative materials for A. Everard in the same manner as they were provided to A. Everard prior to the merger of NZ Consultants, Inc.'s planning services into the Consultant's company.

6. INSURANCE: The Consultant shall carry general and professional liability insurance in amounts satisfactory to the Town.

7. TERM; RENEWAL: This Agreement shall be for a term of two years, and shall automatically renew each year thereafter for additional one-year terms, unless either Party gives notice to terminate pursuant to paragraph 8 below.

8. TERMINATION: Either party may terminate this Agreement upon thirty (30) days written notice.

9. **NOTICE:** Notice as required in this Agreement shall be sufficient when sent by certified mail to the following addresses, or by hand delivered to the attention of the parties:

Town	Consultant
Town of Manalapan 600 South Ocean Boulevard Manalapan, FL 33462 Attn: Town Manager	Chen Moore and Associates, Inc. 500 West Cypress Creek Road, Suite 630, Fort Lauderdale, FL 33309 Attn: Nilsa Zacarias, AICP

10. **PUBLIC ENTITIES CRIMES ACT:** As provided in Sections 287.132-133, *Florida Statutes*, by entering into this Agreement or performing any work in furtherance hereof, the Consultant certifies that it, its affiliates, suppliers, and subcontractors who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within thirty-six (36) months immediately preceding the date hereof. This notice is required by Section 287.133(3)(a), *Florida Statutes*.

11. **E-VERIFY ELIGIBILITY:** The Consultant warrants and represents that it is in compliance with Section 448.095, *Florida Statutes*, as may be amended. No later than January 1, 2023, the Consultant shall: (1) register with and use the E-Verify System (E-Verify.gov) to electronically verify the employment eligibility of all newly hired workers; and (2) verify that all of the Consultant's subconsultants performing the duties and obligations of this Agreement are registered with and use the E-Verify System to electronically verify the employment eligibility of all newly hired workers. The Consultant shall obtain from each of its subconsultants an affidavit stating that the subconsultant does not employ, contract with, or subcontract with an Unauthorized Alien, as that term is defined in Section 448.095(1)(k), *Florida Statutes*, as may be amended. The Consultant shall maintain a copy of any such affidavit from a subconsultant for, at a minimum, the duration of the subcontract and any extension thereof. This provision shall not supersede any provision of this Agreement which requires a longer retention period. The Town shall terminate this Agreement if it has a good faith belief that the Consultant has knowingly violated Section 448.09(1), *Florida Statutes,* as may be amended. If the Consultant has a good faith belief that the Consultant's subconsultant has knowingly violated Section 448.09(1), *Florida Statutes*, as may be

amended, the Town shall notify the Consultant to terminate its contract with the subconsultant and the Consultant shall immediately terminate its contract with the subconsultant. In the event of such contract termination, the Consultant shall be liable for any additional costs incurred by the Town as a result of the termination.

12. **SCRUTINIZED COMPANIES:** For agreements under $1M, the Consultant certifies that it is not on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, *Florida Statutes*, and that it is not engaged in a boycott of Israel. The Town may terminate this Agreement at the Town's option if the Consultant is found to have submitted a false certification as provided under Section 287.135(5), *Florida Statutes*, if the Consultant has been placed on the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, *Florida Statutes*, or if the Consultant is engaged in a boycott of Israel. For agreements over $1M, the Consultant certifies that it is not on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, *Florida Statutes*. The Consultant further certifies that it is not engaged in a boycott of Israel, and that it does not have business operations in Cuba or Syria, as similarly provided in Section 287.135, *Florida Statutes*. The Town may terminate this Agreement at the Town's option if the Consultant is found to have submitted a false certification as provided under Section 287.135(5), *Florida Statutes* or if the Consultant has been placed on one of the aforementioned lists created pursuant to Section 215.4725, *Florida Statutes*. Additionally, the Town may terminate this Agreement at the Town's option if the Consultant is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, *Florida Statutes*.

13. **INSPECTOR GENERAL:** Pursuant to Article XII of the Palm Beach County Charter, the Office of the Inspector General has jurisdiction to investigate municipal matters, review and audit municipal contracts and other transactions, and make reports and recommendations to municipal governing bodies based on such audits, reviews, or investigations. All parties doing business with the Town shall fully cooperate with the inspector general in the exercise of the inspector general's functions, authority, and power. The inspector general has the power to take sworn statements, require the production of records, and to audit, monitor, investigate and inspect the activities of the Town, as well as contractors and lobbyists of the Town in order to detect, prevent, and eradicate fraud, waste, mismanagement, misconduct, and abuses.

14. **PUBLIC RECORDS:** In accordance with Section 119.0701, *Florida Statutes*, the Consultant must keep and maintain this Agreement and any other records associated therewith and that are associated with the performance of the work described herein. Upon request from the Town's custodian of public records, the Consultant must provide the Town with copies of requested records, or allow such records to be inspected or copied, within a reasonable time in accordance with access and cost requirements of Chapter 119, *Florida Statutes*. Should the Consultant fail to provide the public records to the Town, or fail to make them available for inspection or copying within a reasonable time, the Consultant may be subject to attorney's fees and costs pursuant to Section 119.0701, *Florida Statutes*, and other penalties under Section 119.10, *Florida Statutes*. Further, the Consultant shall ensure that any exempt or confidential records associated with this Agreement or associated with the performance of the work described herein are not disclosed except as authorized by law for the duration of the Agreement term, and following completion of the Agreement if the Consultant does not transfer the records to the Town. Finally, upon completion of the Agreement, the Consultant shall transfer, at no cost to the Town, all public records in possession of the Consultant, or keep and maintain public records required by the Town. If the Consultant transfers all public records to the Town upon completion of the Agreement, the Consultant shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Consultant keeps and maintains public records upon completion of the Agreement, the Consultant shall meet all applicable requirements for retaining public records. Records that are stored electronically must be provided to the Town, upon request from the Town's custodian of public records, in a format that is compatible with the Town's information technology systems.

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, PLEASE CONTACT THE TOWN CLERK, RECORDS CUSTODIAN FOR THE TOWN, AT (561) 383-2541, OR AT epetersen@manalapan.org, OR AT 600 SOUTH OCEAN BOULEVARD, MANALAPAN, FLORIDA 33462.

15. <u>ENTIRE AGREEMENT:</u> This seven (7) page Agreement constitutes the entire understanding and agreement between the Parties; no modification shall be made to this Agreement unless such modification is in writing, agreed to by both parties and attached hereto as an addendum to this Agreement. This Agreement supersedes and replaces all previous agreements between the Consultant and the Town. Both the Consultant and the Town hereby agree that all such previous agreements shall be deemed terminated upon the effective date of this Agreement.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the date and year first above written.

WITNESSES:

CHEN MOORE AND ASSOCIATES, INC.

_____

_____

By:

_____

(Corporate Seal)

TOWN OF MANALAPAN

ATTEST:

_____

By: **Keith Waters, Mayor**

_____

Erika Petersen, Town Clerk

(Seal)

TOWN OF MANALAPAN
AGENDA ITEM SUMMARY

Meeting Date: February 28, 2023

Agenda Item No.: RA 1

Agenda Item Name: 30% Septic to Sewer Draft Construction Drawings from Mock Roos

ACTION REQUESTED: Discussion ☐ Action ☐

BACKGROUND:

The Town Commission authorized Mock Roos to perform a 30% Wastewater Collection and Transmission System design on 10/05/2022. This preliminary design was deemed necessary in order to explore available funding options and the feasibility of the project. There will be additional information presented on phasing the project along with pictures of what the equipment will look like. Tom Biggs from Mock Roos will be present to explain the documents and field questions.

ATTACHMENT:

- 30% Draft Construction Documents
- Engineer's Opinion of Probable Construction Cost (EOPCC)
- Private Wastewater Pump Station Installation PEOPCC

Engineer's Opinion of Probable Construction Cost

Wastewater Collection and Transmission System

For

Town of Manalapan

30% Design

MOCK • ROOS

CONSULTING ENGINEERS

PA#A5060.88

Town of Manalapan
Low Pressure Collection and Transmission System
Preliminary Engineer's Opinion of Probable Construction Cost

Item	Description	Quantity	Unit	Unit Cost	Total
A. General Items					
1	Mobilization, Demobilization, General Conditions	1	LS		$ 600,000
2	Bonds & Insurance	1	LS		$ 150,000
3	Maintenance of Traffic	1	LS		$ 25,000
4	Preconstruction Video	1	LS		$ 6,000
5	Survey Layout, Prepare and Furnish Record Drawings	1	LS		$ 12,000
				Subtotal A	**$ 793,000**
B. Wastewater Improvements					
1	1.5" PVC Forcemain (Open Cut)	1,880	LF	$ 35	$ 65,800
2	2" PVC Forcemain (Open Cut)	1,800	LF	$ 40	$ 72,000
3	3" PVC Forcemain (Open Cut)	1,190	LF	$ 45	$ 53,550
4	4" PVC Forcemain (Open Cut)	4,000	LF	$ 55	$ 220,000
5	8" PVC Forcemain (Open Cut)	320	LF	$ 70	$ 22,400
6	1.5" PVC Forcemain (Directional Drill)	380	LF	$ 50	$ 19,000
7	2" HDPE Forcemain (Directional Drill)	4,700	LF	$ 50	$ 235,000
8	3" HDPE Forcemain (Directional Drill)	2,930	LF	$ 55	$ 161,150
9	4" HDPE Forcemain (Directional Drill)	6,000	LF	$ 60	$ 360,000
10	8" HDPE Forcemain (Directional Drill)	2,310	LF	$ 100	$ 231,000
11	Grout & Abandon 6" Forcemain	2,700	LF	$ 12	$ 32,400
12	Aerial Crossing (Audubon Causeway)	1	LS		$ 4,000
13	8" Sanitary Sewer	60	LF	$ 100	$ 6,000
14	Flushing Stations	15	EA	$ 3,000	$ 45,000
15	ARV & Manhole	8	EA	$ 10,000	$ 80,000
16	Connect to Town of Lantana Manhole	1	LS		$ 2,000
17	Connect to Town of Manalapan A1A Manhole	1	LS		$ 2,000
18	Tap & Connect to South Palm Beach Forcemain	1	LS		$ 7,000
19	Short Single Service	79	EA	$ 3,000	$ 237,000
20	Short Double Service	1	EA	$ 3,500	$ 3,500
21	Long Single Service	111	EA	$ 6,500	$ 721,500
22	Long Double Service	3	EA	$ 7,000	$ 21,000
23	Asphalt Trench Patch	940	SY	$ 90	$ 84,600
24	Mill & Asphalt Overlay	43,620	SY	$ 50	$ 2,181,000
25	Sod Replacement	5,600	SY	$ 10	$ 56,000
26	Landscape & Miscellaneous Restoration	1	LS		$ 30,000

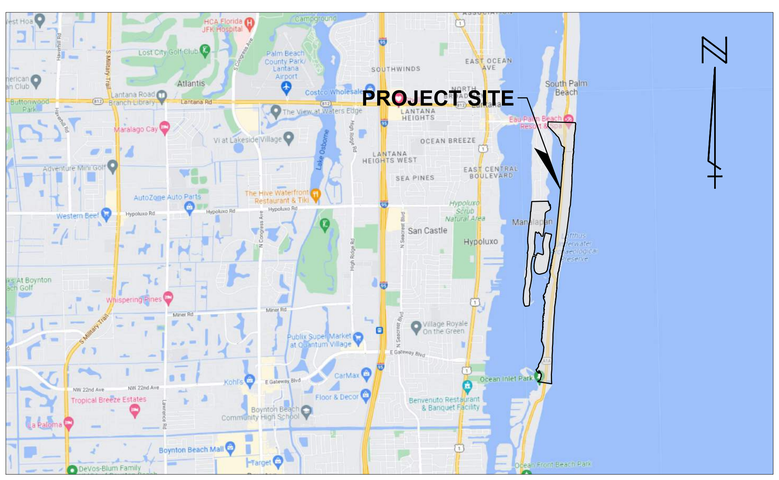
Town of Manalapan
Low Pressure Collection and Transmission System
Preliminary Engineer's Opinion of Probable Construction Cost

Item	Description	Quantity	Unit	Unit Cost	Total
27	Metering Station with Telemetry	1	LS		$ 35,000
28	Existing A1A Pump Station No. 1 Modifications	1	LS		$ 400,000
29	Lands End Road Pump Station No. 2	1	LS		$ 350,000
30	Upgrade to Town of Lantana Pump Station No. 7	1	LS		$ 250,000
				Subtotal B	**$ 7,573,900**
	Subtotal A + B				**$ 8,366,900**
	Contingency @ 30%				$ 2,273,100
	Subtotal				$ 10,640,000
	Construction Inflation for 2025 @12%				$ 1,280,000
	Subtotal				$ 11,920,000
	Engineer's Opinion of Probable Construction Cost Rounded				$ 12,000,000
	Engineering, Legal & Misc.@20%				$ 2,400,000
	Land & Easement Allowance (for Lands End Road Pump Station)				$ 100,000
	Total				$ 14,500,000
	Preliminary Engineer's Opinion of Probable Project Cost Rounded				**$ 14,500,000**

Town of Manalapan
Private Wastewater Pump Station Installation
Preliminary Engineer's Opinion of Probable Construction Cost

Item	Description	Quantity	Unit	Unit Cost	Total
A. General Items					
1	Mobilization, Demobilization, General Conditions	1	LS		$ 1,500
2	Bonds & Insurance	1	LS		$ 350
5	Survey, Engineering & Permitting	1	LS		$ 2,000
				Subtotal A	**$ 3,850**
B. Wastewater Improvements					
1	1.25" PVC Forcemain (Open Cut)	60	LF	$ 35	$ 2,100
2	Grinder Pump Station	1	LS		$ 12,000
3	Electrical	1	LS		$ 2,000
4	Landscape Restoration	1	LS		$ 1,000
5	Cleanout	1	LS		$ 1,000
				Subtotal B	**$ 18,100**
	Subtotal A + B				**$ 21,950**
	Contingency @ 30%				$ 6,585
	Subtotal				$ 28,535
	Construction Inflation for 2025 @12%				$ 3,424
	Subtotal				$ 31,959
	Preliminary Engineer's Opinion of Probable Construction Cost Rounded				**$ 32,000**

WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN
PREPARED FOR
TOWN OF MANALAPAN
PALM BEACH COUNTY, FLORIDA
FEBRUARY 2023



VICINITY MAP
N.T.S.

SECTION 10 TOWNSHIP 45 SOUTH, RANGE 43 EAST

TOWN OF MANALAPAN

KIETH WATERS, MAYOR
STEWART SATTER, VICE MAYOR
RICHARD GRANARA, MAYOR PRO TEM
CHAUNCEY JOHNSTONE, COMMISSIONER
HENRY SIEMON, COMMISSIONER
JOHN DEESE, COMMISSIONER
AILEEN CARLUCCI, COMMISSIONER

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
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C0-2	LOCATION MAP
C0-3	GENERAL NOTES AND LEYEND
C1-1	PLAN AND PROFILE LANDS END ROAD STA 100+00 TO 109+18
C1-2	PLAN AND PROFILE LANDS END ROAD STA 109+18 TO 119+17
C1-3	PLAN AND PROFILE LANDS END ROAD STA 119+17 TO 129+61
C1-4	PLAN AND PROFILE LANDS END ROAD STA 129+61 TO 139+94
C1-5	PLAN AND PROFILE LANDS END ROAD STA 139+94 TO 150+18
C1-6	PLAN AND PROFILE LANDS END ROAD STA 150+18 TO160+50
C1-7	PLAN AND PROFILE AUDUBON CAUSEWAY STA 200+00 TO 210+82
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C1-10	PLAN AND PROFILE SPOONBILL ROAD STA 270+48 TO 280+91
C1-11	PLAN AND PROFILE CHURCHILL WAY STA 300+00 TO 308+25
C1-12	PLAN AND PROFILE PASLAY PLACE STA 350+00 TO 360+41
C1-13	PLAN AND PROFILE LITTLE POND ROAD STA 400+00 TO 407+16
C1-14	PLAN AND PROFILE LOGGERHEAD LANE STA 400+00 TO 457+19
C1-15	PLAN AND PROFILE S OCEAN BLVD STA 500+00 TO 510+32
C1-16	PLAN AND PROFILE S OCEAN BLVD STA 510+32 TO 519+75
C1-17	PLAN AND PROFILE S OCEAN BLVD STA 519+75 TO 529+64
C1-18	PLAN AND PROFILE S OCEAN BLVD STA 529+64 TO 539+07
C1-19	PLAN AND PROFILE S OCEAN BLVD STA 539+07 TO 549+02
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C1-21	PLAN AND PROFILE S OCEAN BLVD STA 557+88 TO 568+46
C1-22	PLAN AND PROFILE S OCEAN BLVD STA 568+46 TO 578+71
C1-23	PLAN AND PROFILE S OCEAN BLVD STA 578+71 TO 588+96
C1-24	PLAN AND PROFILE S OCEAN BLVD STA 588+96 TO 599+28
C1-25	PLAN AND PROFILE S OCEAN BLVD STA 599+28 TO 609+09
C1-26	PLAN AND PROFILE S OCEAN BLVD STA 609+09 TO 619+28
C1-27	PLAN AND PROFILE S OCEAN BLVD STA 619+28 TO 628+29
C1-28	PLAN AND PROFILE S OCEAN BLVD STA 636+48 TO 646+66
C1-29	PLAN AND PROFILE S OCEAN BLVD STA 646+66 TO 656+91
C1-30	PLAN AND PROFILE S OCEAN BLVD STA 656+91 TO 664+44
C1-31	A1A PUMP STATION IMPROVEMENTS SITE PLAN
C1-32	LANDS END ROAD WASTEWATER PUMP STATION SITE PLAN
C1-33	LANDS END ROAD WASTEWATER PUMP STATION DETAILS
C1-34	1385 LANDS END RD EXHIBIT
C1-35	55 CURLEW RD EXHIBIT
C1-36	1680 S OCEAN BLVD EXHIBIT
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C1-38	STANDARD DETAILS
C1-39	STANDARD DETAILS

TOTAL NO. OF SHEETS - 42

PRELIMINARY
FEBRUARY 2023

CADD File: F:\manalmanaw30\CAD\DWG\WW30CS01_C0-1.dwg
PLOT DATE: Feb 22, 2023 - 10:13am)

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
Florida P.E. No. 41645

Date

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5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com
Florida Reg. No. 48 Florida L.B. No. 48

WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN
TOWN OF MANALAPAN, FL

COVER

FEBRUARY 2023
C0-1

CADD File: F:\manaj\manawx30\CAD\DWG\WW30CS01_C0-2.dwg
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WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

LOCATION MAP

FEBRUARY 2023

C0-2

GENERAL NOTES

1. ALL LOCATIONS AND ELEVATIONS SHOWN FOR EXISTING GRADES FOR SURFACE AND SUBSURFACE STRUCTURES, PIPING, ETC. ARE BASED ON RECORD DRAWINGS, ATLAS AND THE BEST AVAILABLE INFORMATION. WHILE EVERY ATTEMPT HAS BEEN MADE TO PROVIDE ACCURATE DATA, THE CONTRACTOR SHALL CONSIDER ALL LOCATIONS AND ELEVATIONS APPROXIMATE IN NATURE. PRIOR TO THE START OF CONSTRUCTION AND/OR ORDERING OF ANY MATERIALS OR FABRICATED ITEMS, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS AND ELEVATIONS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" STRUCTURES, UTILITIES, ETC. NOT SHOWN ON THE DRAWINGS EXIST WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION AND WRITTEN NOTIFICATION OF ALL CONFLICTS WITH THE PROPOSED CONSTRUCTION TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL ALL CONFLICTS HAVE BEEN RESOLVED.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, DISPOSAL, ABANDONMENT, AND RELOCATIONS NECESSARY TO COMPLETE THE WORK WHETHER SHOWN ON THE DRAWINGS OR NOT. CONTRACTOR SHALL COORDINATE RELOCATIONS WITH THE NECESSARY UTILITY COMPANIES.

3. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S ACTIVITIES INVOLVING CONSTRUCTION, STAGING AREAS, AND ACCESS ROADS IN KIND. ALL DISTURBED NON-PAVED AREAS SHALL BE PLANTED WITH "IN-KIND" VEGETATION.

4. CONTRACTOR SHALL SUBMIT A M.O.T. PLAN AS REQUIRED IN THE PROJECT SPECIFICATIONS.

5. CONTRACTOR SHALL COORDINATE WITH THE NECESSARY UTILITY COMPANIES AND SUNSHINE STATE ONE CALL (800-432-4770) FOR ALL UTILITY LOCATES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

6. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH CHAPTER 556 OF THE FLORIDA STATUTES: THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.

7. CONTRACTOR SHALL MAINTAIN A NEAT, ORDERLY, AND SAFE SITE AT ALL TIMES.

8. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS SILT FENCES AND INLET PROTECTION WHERE NECESSARY IN ORDER TO COMPLY WITH THE STATE AND LOCAL WATER QUALITY STANDARDS AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) REQUIREMENTS.

9. WHERE DEWATERING IS REQUIRED, CONTRACTOR MUST SUBMIT A DEWATERING AND DRAINAGE PLAN TO SFWMD FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING FLOW CAPACITY, STORMWATER CONVEYANCE, AND FLOOD PROTECTION SYSTEMS FOR IMPACTED AREAS AT ALL TIMES DURING CONSTRUCTION.

10. ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHALL NOTIFY: NATIONAL GEODETIC INFORMATION SERVICES CENTER NOAA NATIONAL GEODETIC SURVEY, N/CG 17 SSMC 3, STATION 09202 SILVER SPRING, MARYLAND 20910 TELEPHONE NO. (301) 713-3242.

11. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.

12. ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF PALM BEACH COUNTY INVOLVED UTILITY COMPANIES, PROJECT ENGINEER AND REGULATORY AGENCIES.

13. THE CONTRACTOR SHALL USE CAUTION WITH EQUIPMENT WHEN WORKING AROUND OVER HEAD ELECTRICAL.

14. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE DEPICTING EACH PHASE OF THE WORK.

15. THE CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO CONSTRUCTION.

16. ALL EXCESS FILL FROM THE SITE SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.

17. ALL UTILITIES SHALL BE ADJUSTED TO NEW FINISH GRADES AND PROPERLY SET TO PAVEMENT CROSS SLOPE AS REQUIRED.

18. WORK HOURS TO BE FROM 7:00am TO 5:00pm MONDAY THROUGH FRIDAY UNLESS OTHERWISE REQUESTED BY THE OWNER. IF THE CONTRACTOR WISHES TO PERFORM ANY WORK OUTSIDE OF THIS WINDOW A REQUEST MUST BE SUBMITTED TO OWNER AND ENGINEER FOR APPROVAL A MINIMUM OF 72 HOURS BEFORE COMMENCEMENT OF ANY AFTER HOURS WORK. THERE ARE PORTIONS OF THE WORK THAT MUST OCCUR DURING LOW FLOW PERIODS AFTER HOURS. THE CONTRACTOR MUST STILL COORDINATE THIS AFTER HOURS WORK WITH OWNER AND ENGINEER IN THE SAME MANNER AS VOLUNTARY AFTER HOURS WORK.

19. CONTRACTOR SHALL COORDINATE ALL SITE WORK FOR PEDESTRIAN AND TRAFFIC CONTROL WITH PALM BEACH COUNTY AND THE FDOT AS APPROPRIATE.

20. CONTRACTOR SHALL LIMIT ACCESS AND CONSTRUCTION OPERATIONS TO WITHIN LIMITS OF THE ROAD RIGHT OF WAYS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF THE ROAD RIGHT OF WAYS.

21. AREAS FOR THE STORAGE OF EXCAVATED MATERIAL ARE LIMITED. SUCH MATERIAL MAY BE REMOVED AND STORED OFFSITE AND RETURNED FOR BACKFILLING.

22. CONTRACTOR SHALL HAVE NO TRENCHES OPEN AT THE END OF EACH WORK DAY. IF NECESSARY, TRENCHES SHALL BE TEMPORARILY BACKFILLED AND BARRICADED.

23. ALL NEW PIPE FITTINGS, VALVES AND MATERIALS SHALL COMPLY WITH THE LATEST PALM BEACH COUNTY UTILITIES DEPARTMENT APPROVED MATERIALS LIST.

24. ANY AERIAL PHOTOGRAPH USED FOR THIS PROJECT (DR. NO. 44-43-19-36) WERE PREPARED USING AERIALS FROM THE PALM BEACH COUNTY DATA BASE AND AS SUCH SHOULD BE USED ONLY AS SCHEMATICS.

25. SOURCE AND DATE OF AERIAL PHOTOGRAPHY: PBC GIS DATED 2019.

26. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH WATER AND COORDINATE WITH THE PBCWUD FOR USE OF A HYDRANT METER FOR POTABLE WATER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS AND EQUIPMENT NECESSARY TO GET THE NECESSARY POTABLE WATER TO THE SITE.

27. RECORD DRAWING NOTES:
    - A. ALL RECORD DRAWING INFORMATION SUCH AS ELEVATIONS, DISTANCES, LOCATION OF UNDERGROUND UTILITIES, AND ROAD CROSS-SECTIONS MUST BE OBTAINED BY A PROFESSIONAL SURVEYOR AND MAPPER, WHO IS LICENSED IN THE STATE OF FLORIDA. THE SURVEYOR WILL BE RETAINED BY THE CONTRACTOR. INFORMATION MUST BE SIGNED AND SEALED.
    - B. UNDER NO CIRCUMSTANCES WILL ROADWAY PAVING WORK BE ALLOWED TO START UNTIL THE ENGINEER HAS REVIEWED THE RECORD DRAWING INFORMATION FOR WORK CONSTRUCTED WITHIN THE ROADWAY AREA THAT WILL BE PAVED.
    - C. AT THE CONCLUSION OF THE PROJECT, CONTRACTOR SHALL SUBMIT ELECTRONIC FILES AND UP TO TEN SETS OF SIGNED AND SEALED PRINTS TO THE ENGINEER FOR PERMANENT RECORD KEEPING.
    - D. RECORD DRAWINGS TO BE DRAWN IN STATE PLANE SYSTEM.
    - E. UTILITY FACILITIES MUST BE SHOWN IN AS-BUILT LOCATIONS.
    - F. STATE PLANE COORDINATES ARE REQUIRED FOR UTILITY FACILITIES.

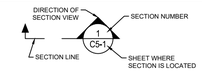
29. ANY STORM DRAIN FACILITIES AFFECTED BY THE CONTRACTOR'S ACTIONS SHALL BE FULLY RESTORED TO LIKE OR BETTER THAN EXISTING CONDITIONS AND TO COUNTY/FDOT STANDARDS.

30. IF WALKS, PATHS, CURB & GUTTER, AND/OR ADA FACILITIES ARE DAMAGED BY THE CONTRACTOR'S ACTIONS, THOSE FACILITIES SHALL BE RESTORED TO LIKE OR BETTER THAN EXISTING CONDITIONS AND A MINIMUM OF 10' IN LENGTH (SAWCUT TO SAWCUT). FOR SIDEWALKS; IF CONSTRUCTION IS LOCATED AT A SAWCUT, 2 FLAGS (MINIMUM) ARE REQUIRED TO BE REPLACED; IF CONSTRUCTION IS LOCATED IN THE MIDDLE OF A FLAG, 3 FLAGS (MINIMUM) MUST BE REPLACED (SAWCUT TO SAWCUT).

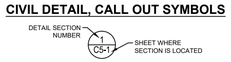
ENGINEER LEGEND

⊕	BENCH MARK
BTM	BOTTOM
℄	CENTERLINE
▭	CATCH BASIN
CONC	CONCRETE
N:836903.41 E:879844.21	CONTROL POINT
DIP	DUCTILE IRON PIPE
E:	EASTING
EL	ELEVATION
EXIST	EXISTING
— — GAS — —	EXISTING GAS MAIN
— — SS — —	EXISTING SANITARY SEWER
— — FO — —	EXISTING BURIED FIBER OPTIC
— — WM — —	EXISTING WATERMAIN
— — SD — —	EXISTING STORM DRAIN
FM	FORCEMAIN
INV	INVERT
LF	LINEAR FEET
N:	NORTHING
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
Ⓢ	SANITARY SEWER
SS	SANITARY SEWER
STA	STATION
STRM	STORM SEWER
Ⓓ	STORM MANHOLE
STR	STRUCTURE
TYP	TYPICAL
WM	WATERMAIN
	PLAN VIEW GV (HORIZONTAL)
	PLAN VIEW GV (VERTICAL)

CIVIL SECTION VIEW, CALL OUT SYMBOLS



CIVIL DETAIL, CALL OUT SYMBOLS



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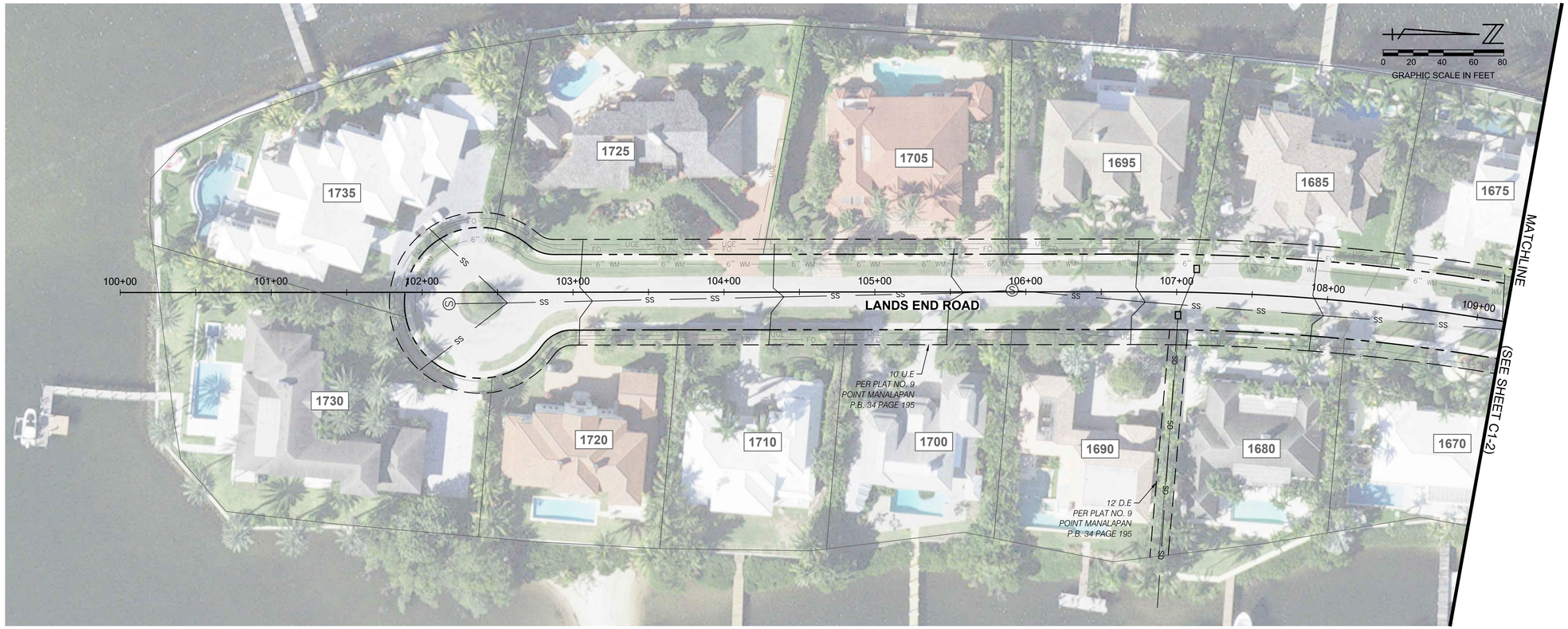
WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN

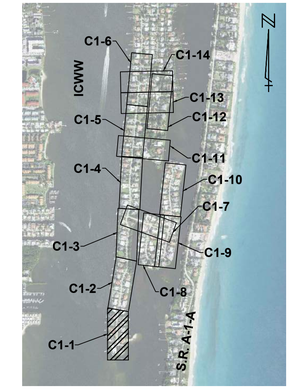
TOWN OF MANALAPAN, FL

GENERAL NOTES AND LEYEND

FEBRUARY 2023

C0-3





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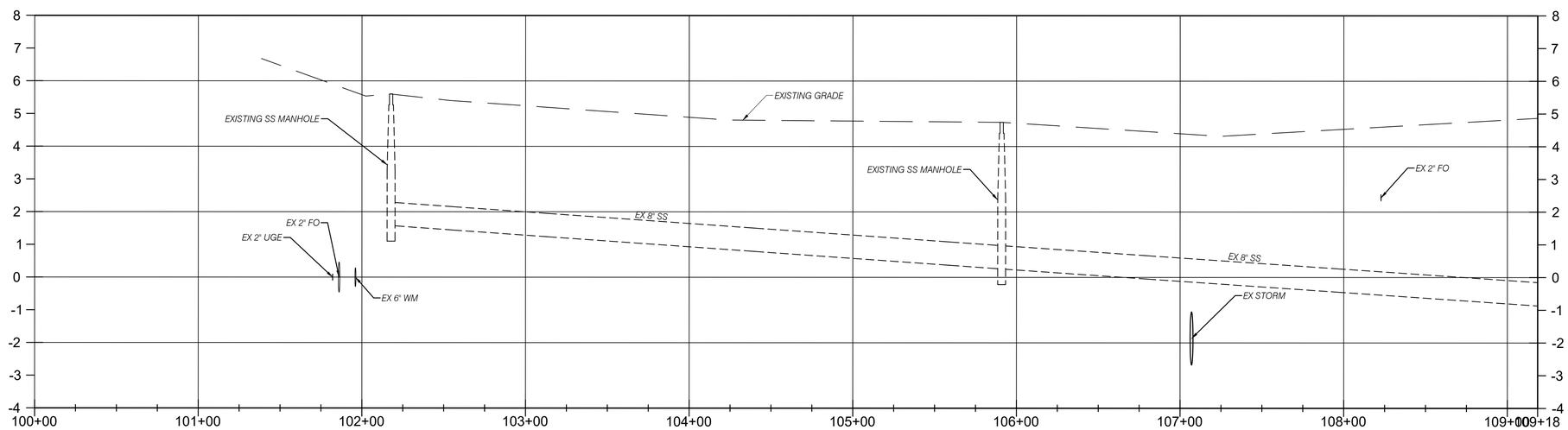

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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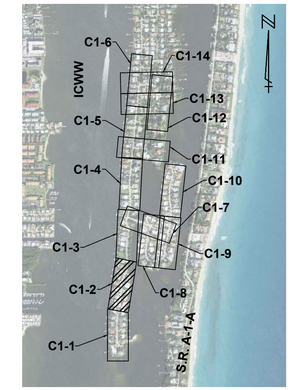
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LANDS END ROAD
STA 100+00 TO 109+18

FEBRUARY 2023

C1-1



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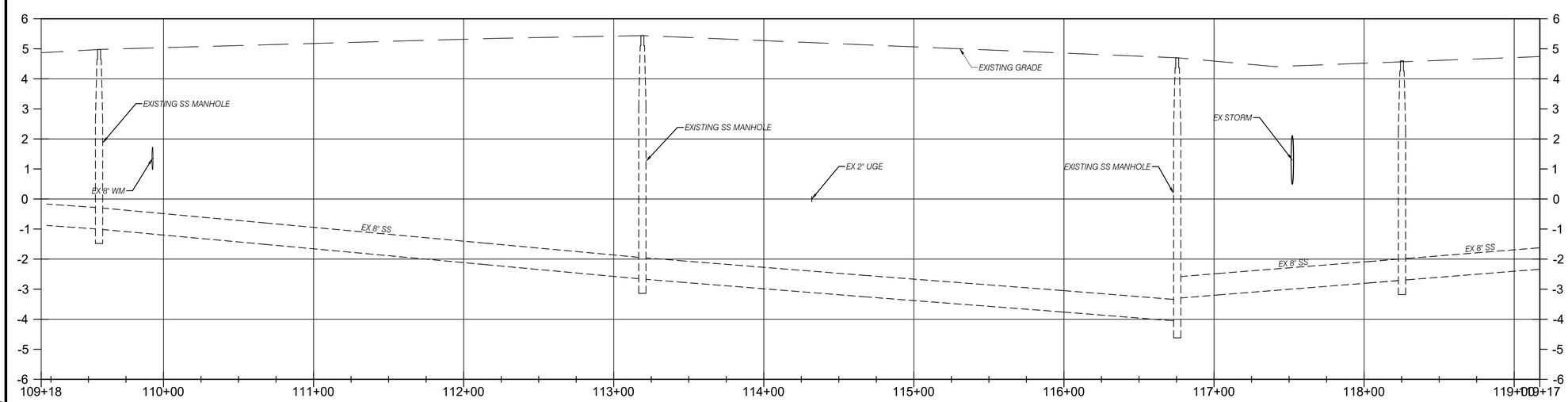

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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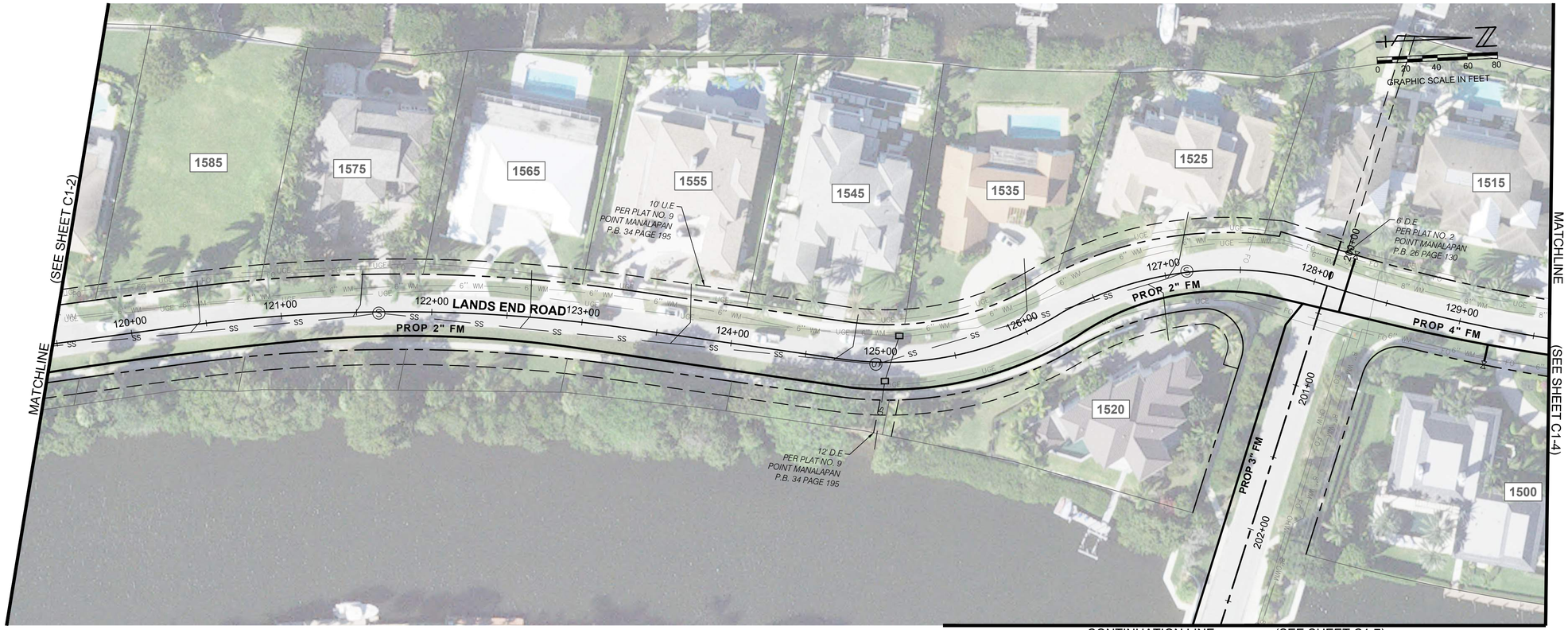
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

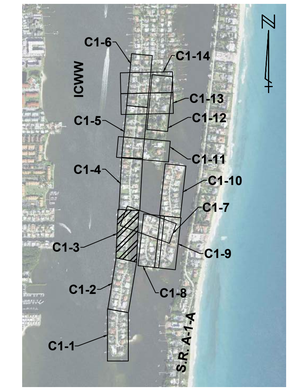
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LANDS END ROAD
STA 109+18 TO 119+17

FEBRUARY 2023

C1-2





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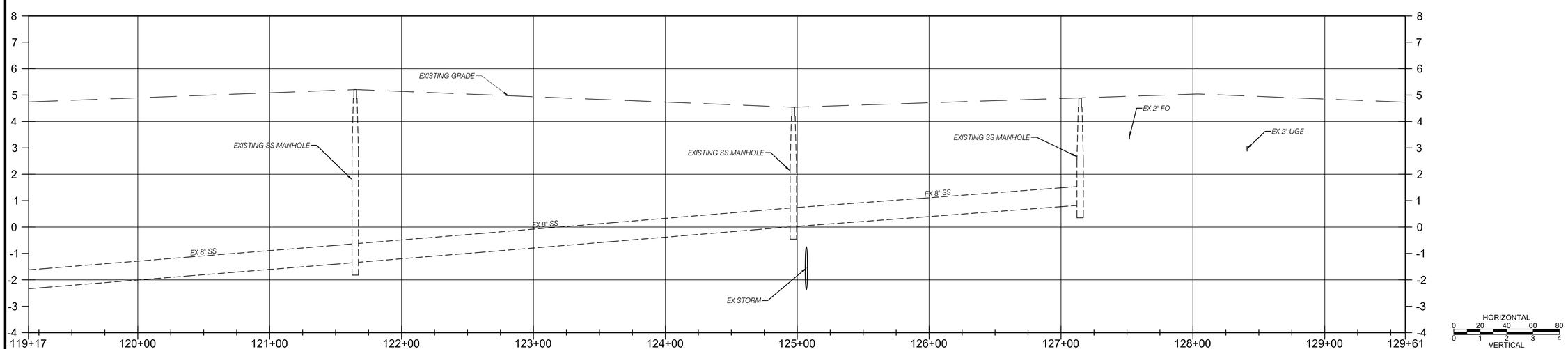

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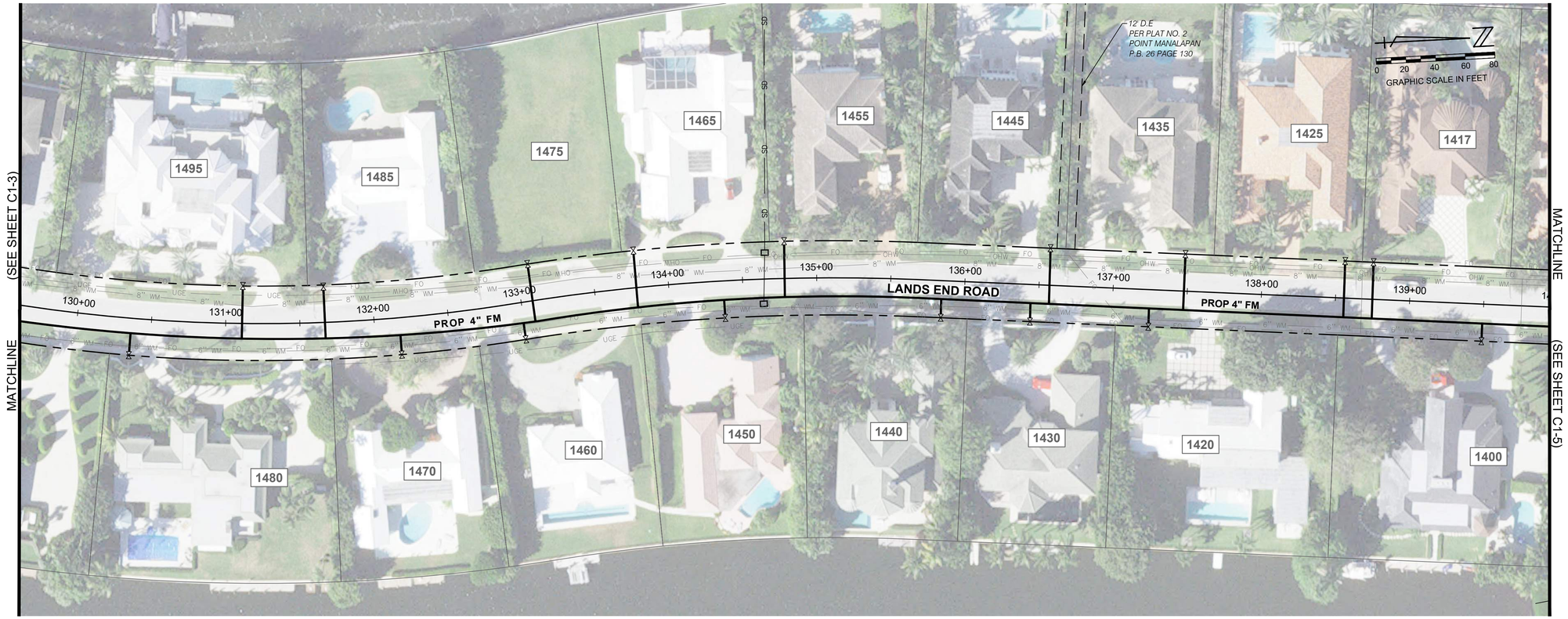
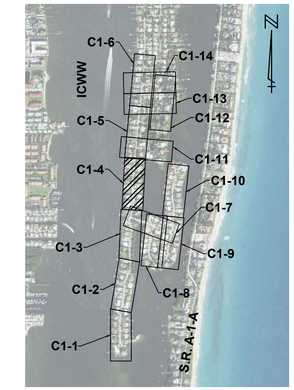
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LANDS END ROAD
STA 119+17 TO 129+61

FEBRUARY 2023

C1-3





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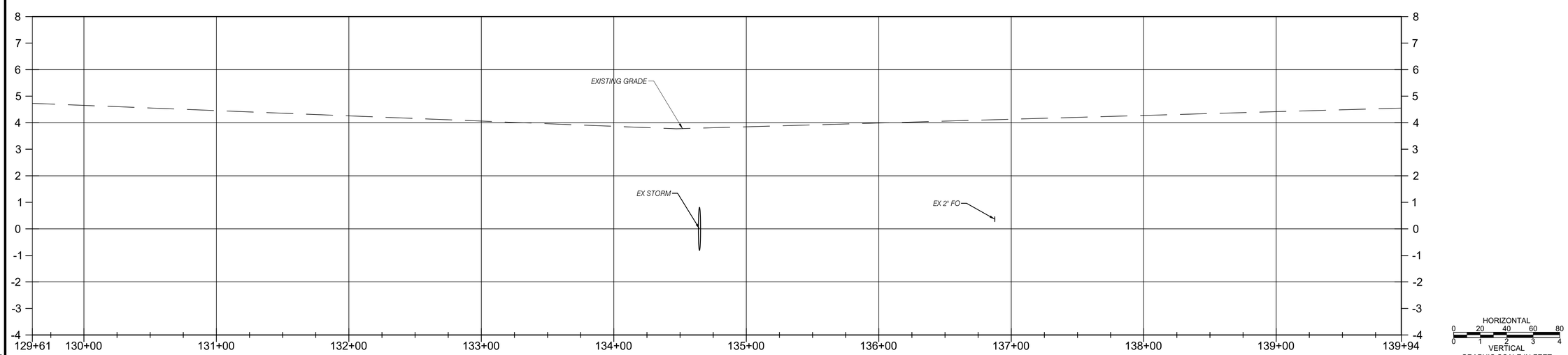

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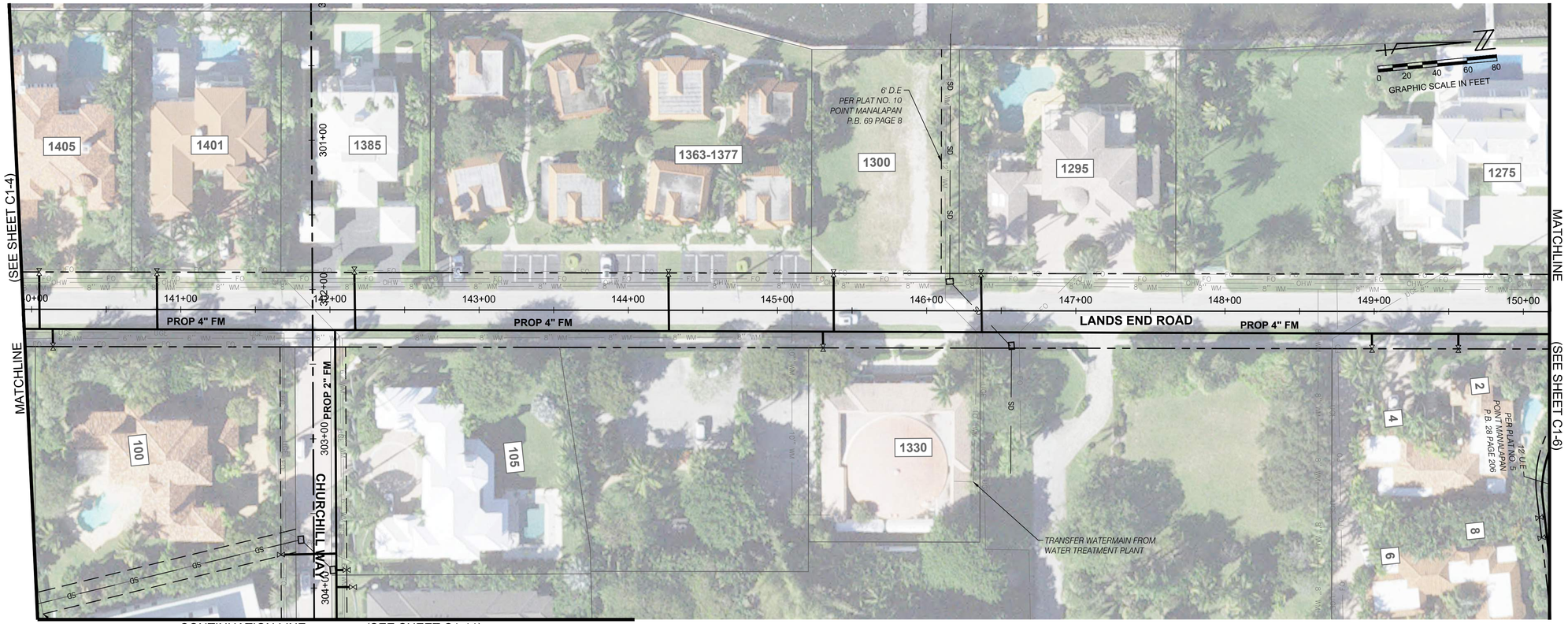
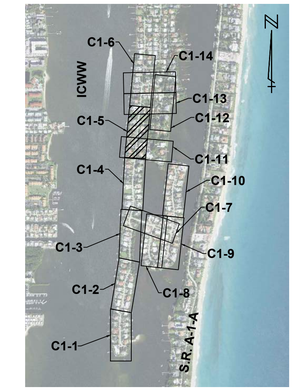
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LANDS END ROAD
STA 129+61 TO 139+94

FEBRUARY 2023

C1-4





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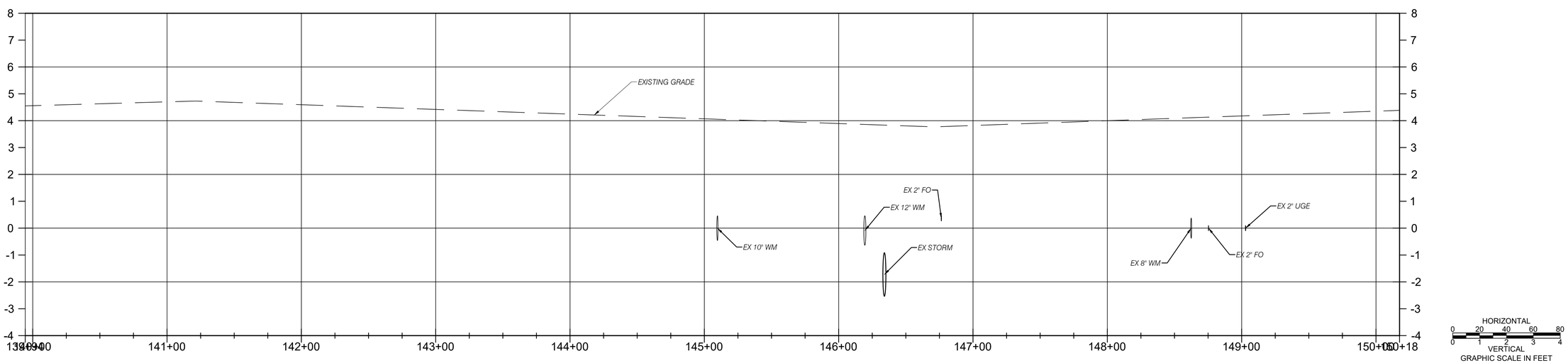

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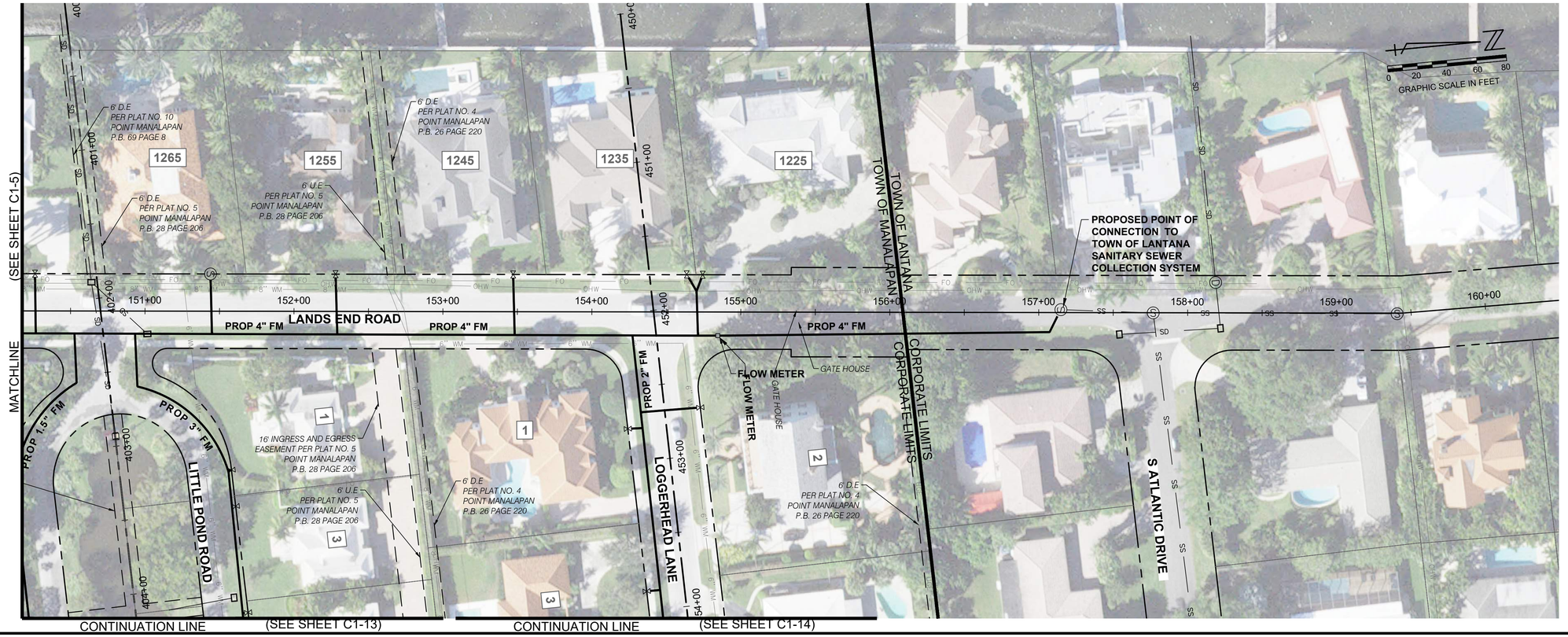
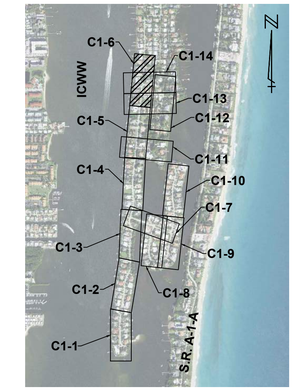
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LANDS END ROAD
STA 139+94 TO 150+18

FEBRUARY 2023

C1-5





LOCATION AND KEY MAP
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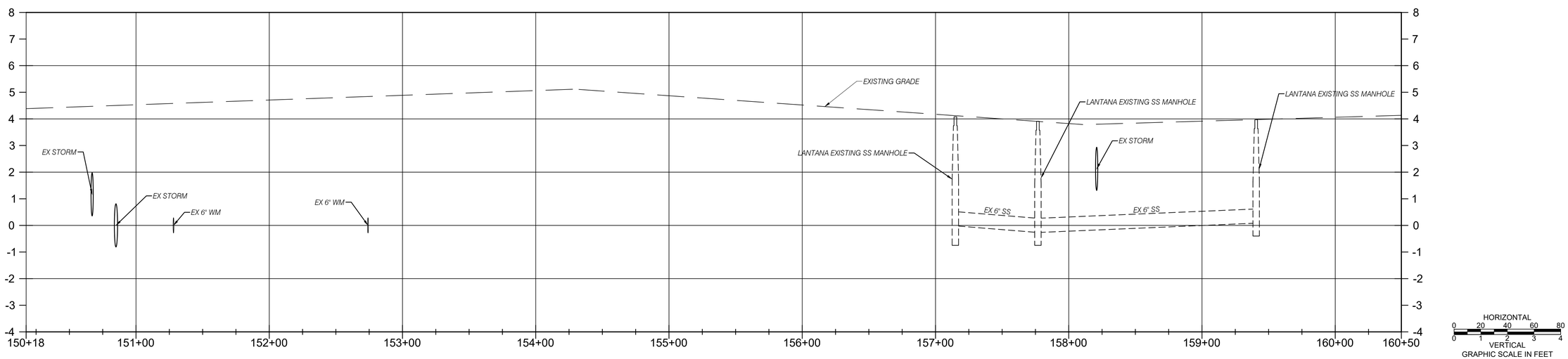

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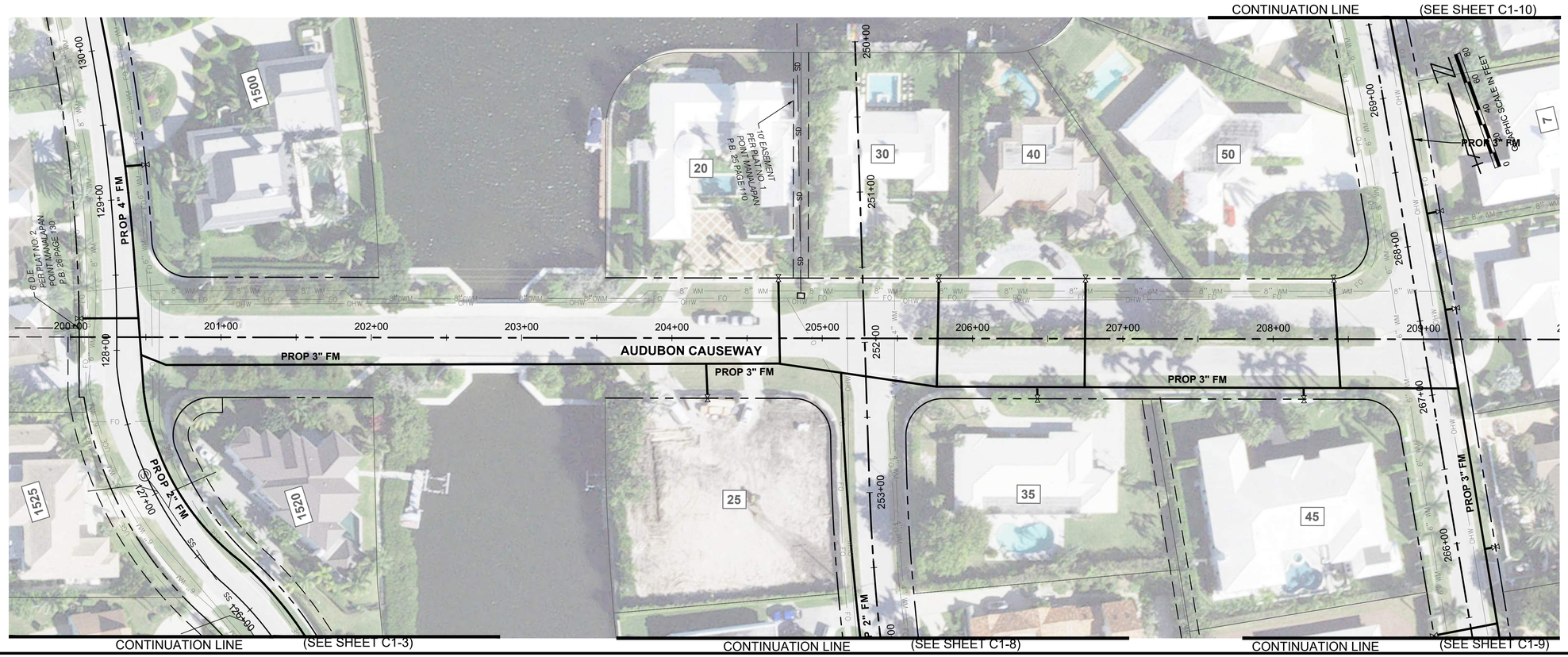
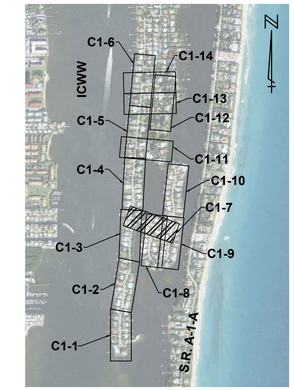
PLAN AND PROFILE
LANDS END ROAD
STA 150+18 TO160+50

FEBRUARY 2023

C1-6





LOCATION AND KEY MAP
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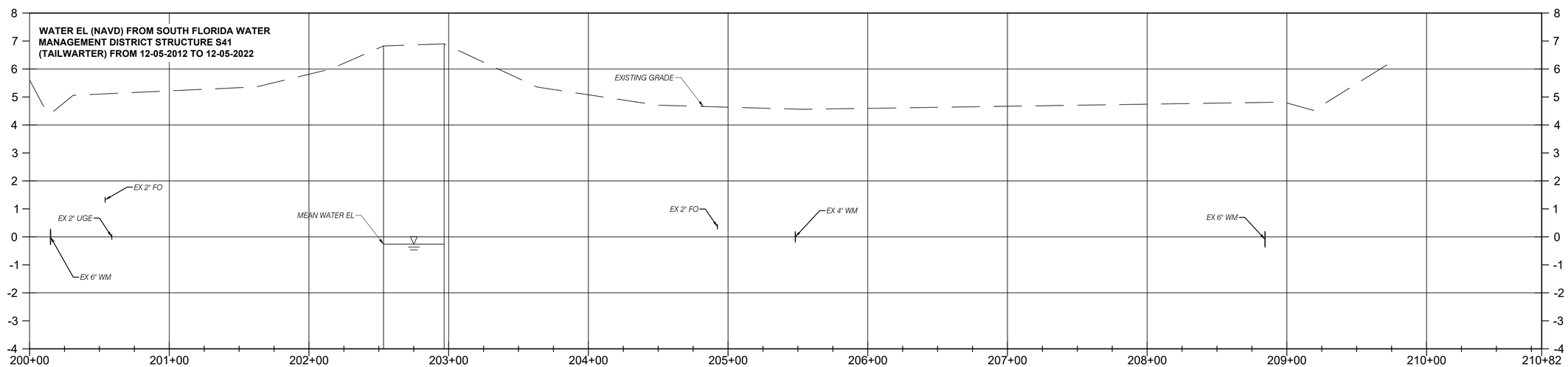

HORIZONTAL
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:15am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
Florida P.E. No. 41645

Date

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Florida Reg. No. 48 Florida L.B. No. 48

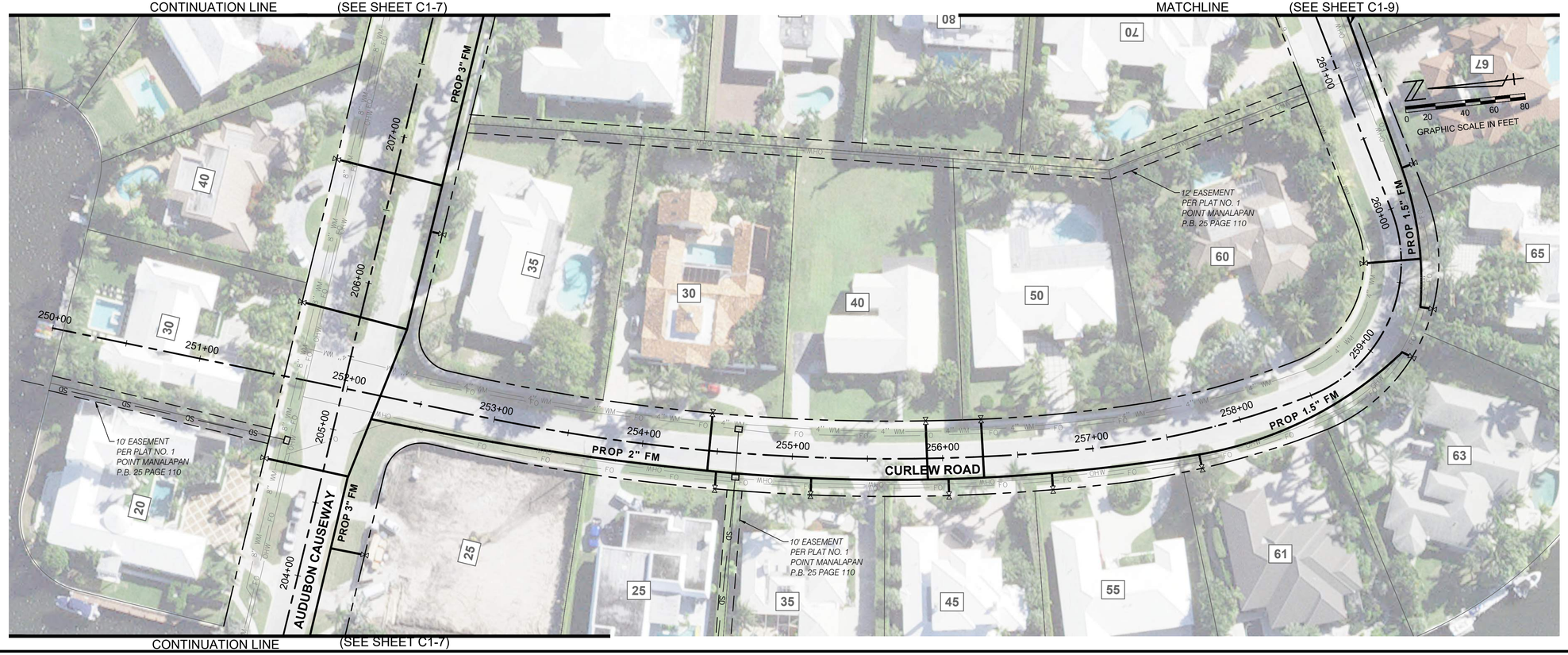
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

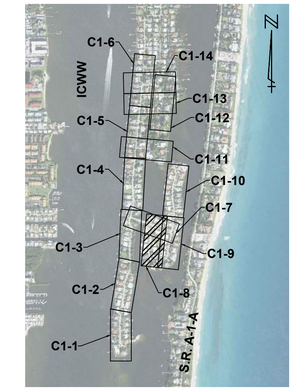
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
AUDUBON CAUSEWAY STA 200+00 TO 210+82

FEBRUARY 2023

C1-7





LOCATION AND KEY MAP
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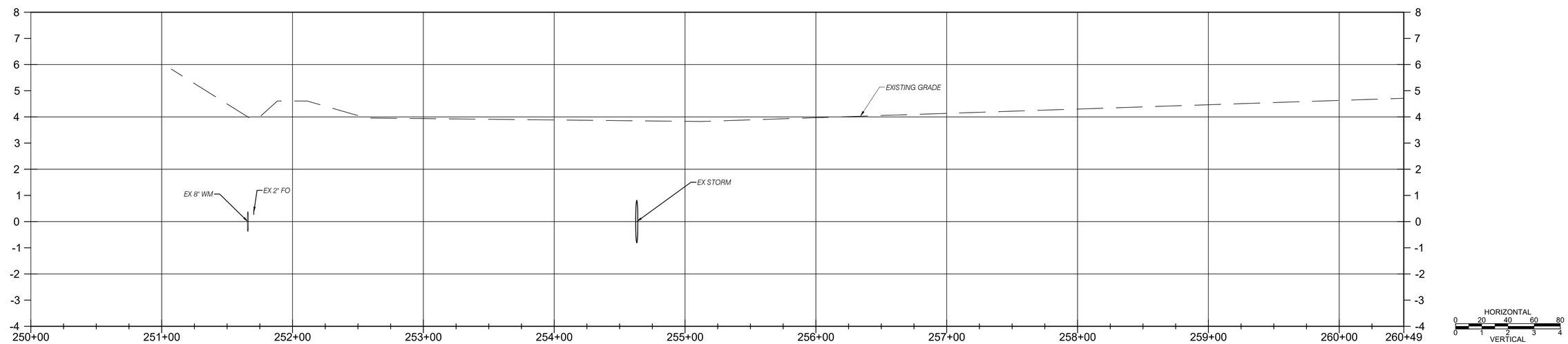

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Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
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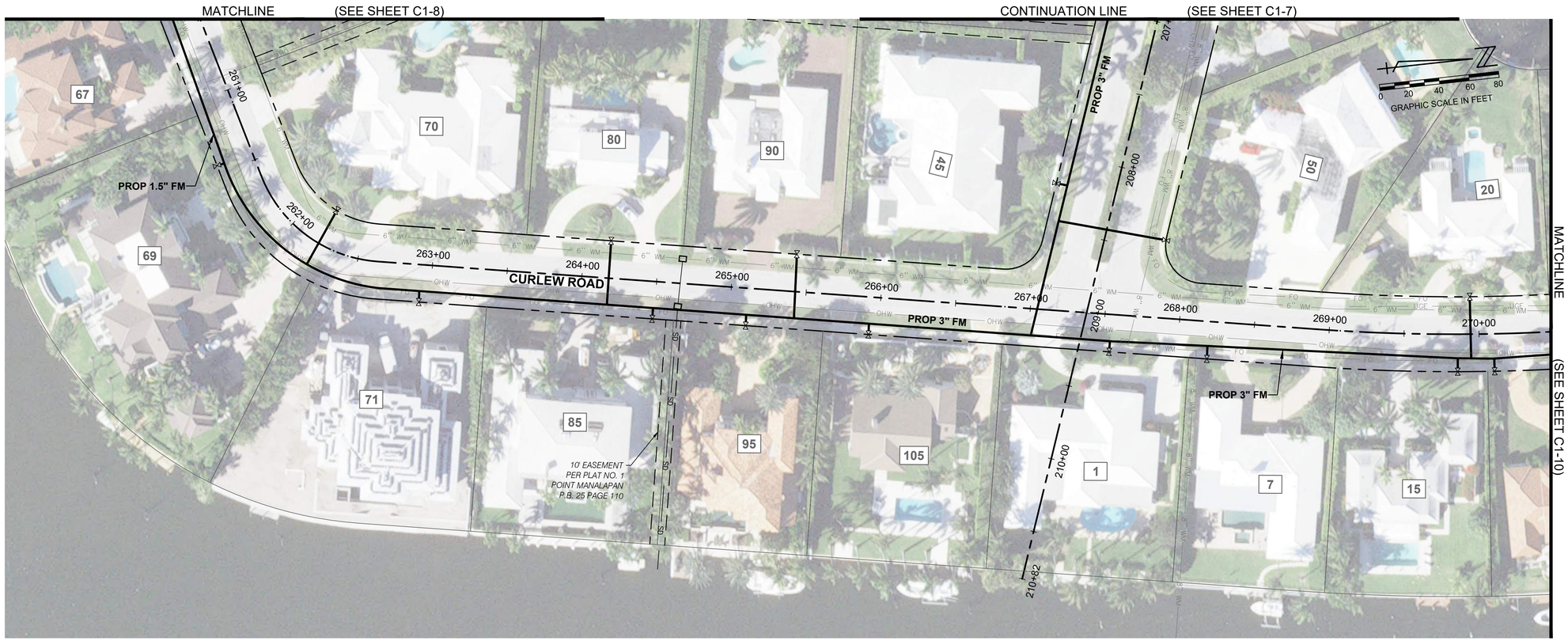
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

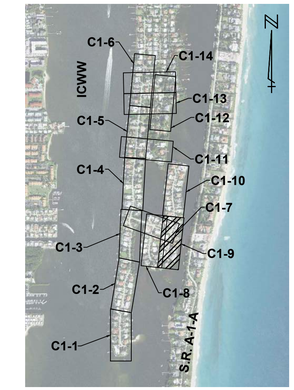
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
CURLEW ROAD STA 250+00 TO 260+49

FEBRUARY 2023

C1-8





LOCATION AND KEY MAP
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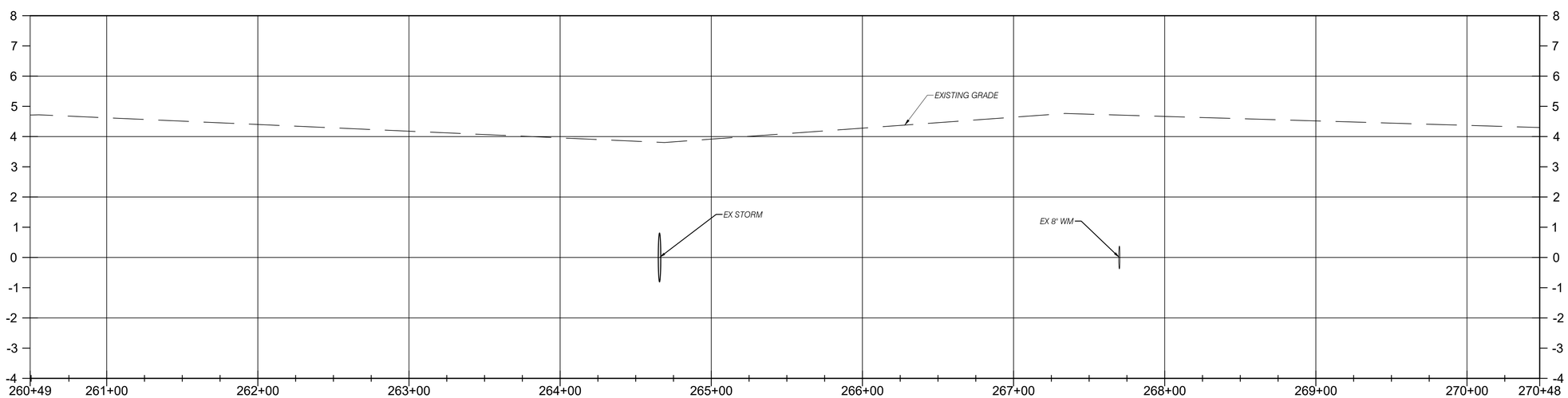

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:15am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
Florida P.E. No. 41645

Date

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Florida Reg. No. 48 Florida L.B. No. 48

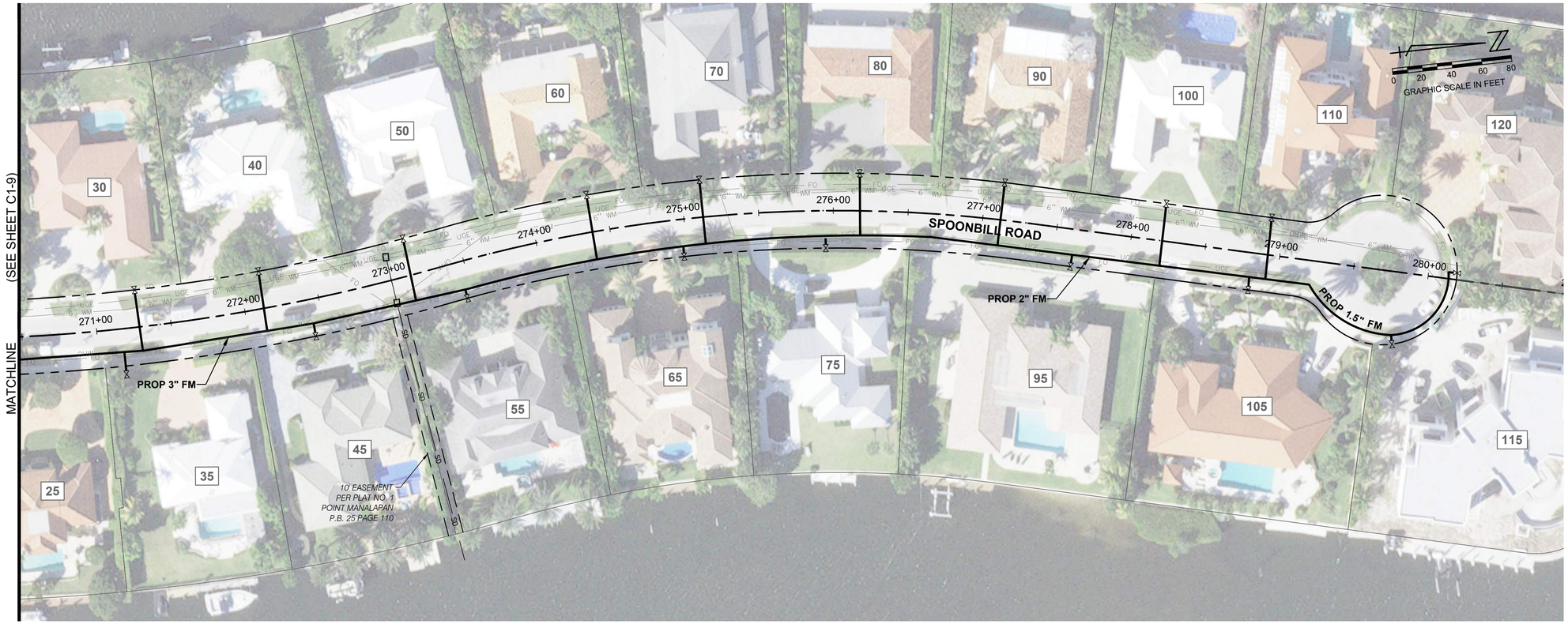
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

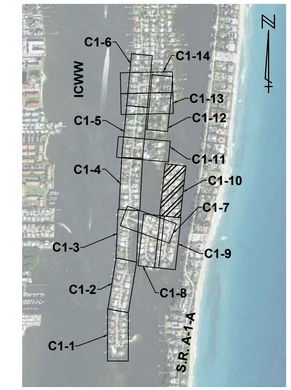
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
CURLEW ROAD STA
260+49 TO 270+48

FEBRUARY 2023

C1-9





LOCATION AND KEY MAP
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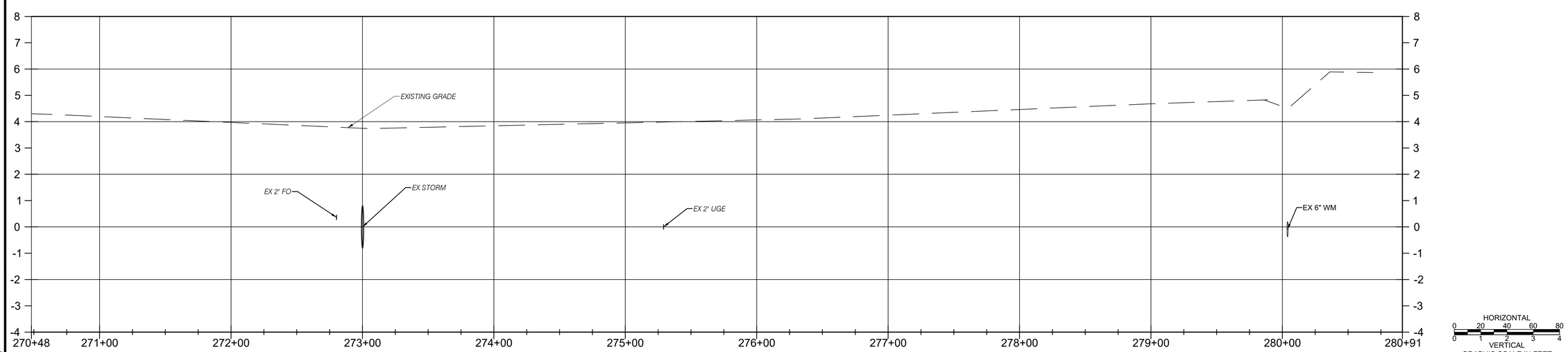

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Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1"

No.	Date	By	Revision

SEAL

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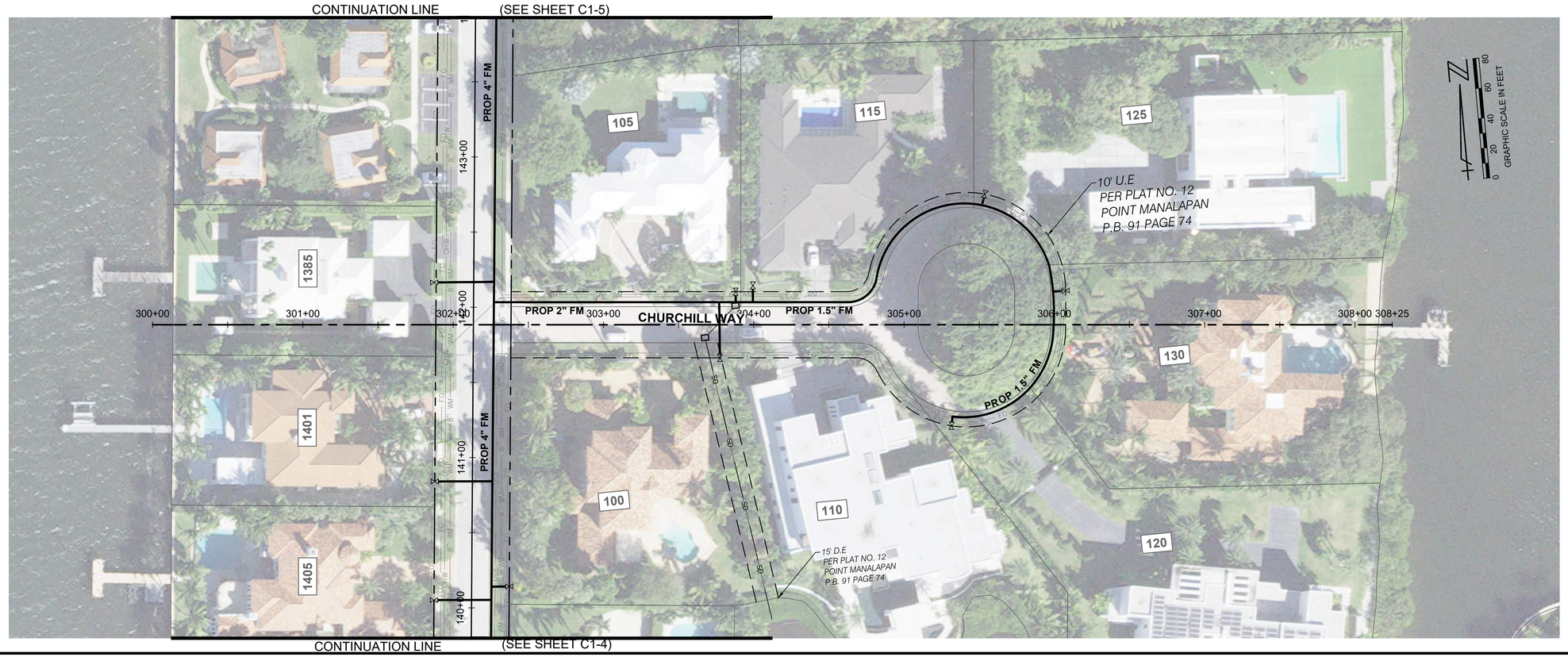
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

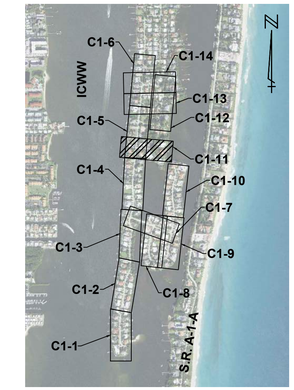
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
SPOONBILL ROAD
STA 270+48 TO 280+91

FEBRUARY 2023

C1-10





LOCATION AND KEY MAP
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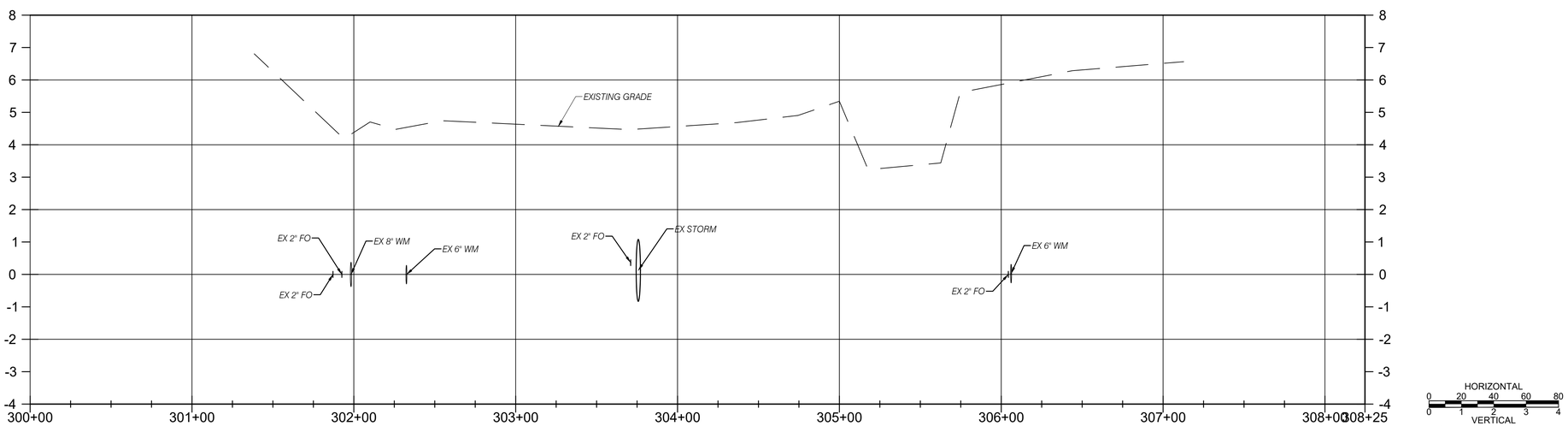

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Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

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Florida P.E. No. 41645

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Florida Reg. No. 48 Florida L.B. No. 48

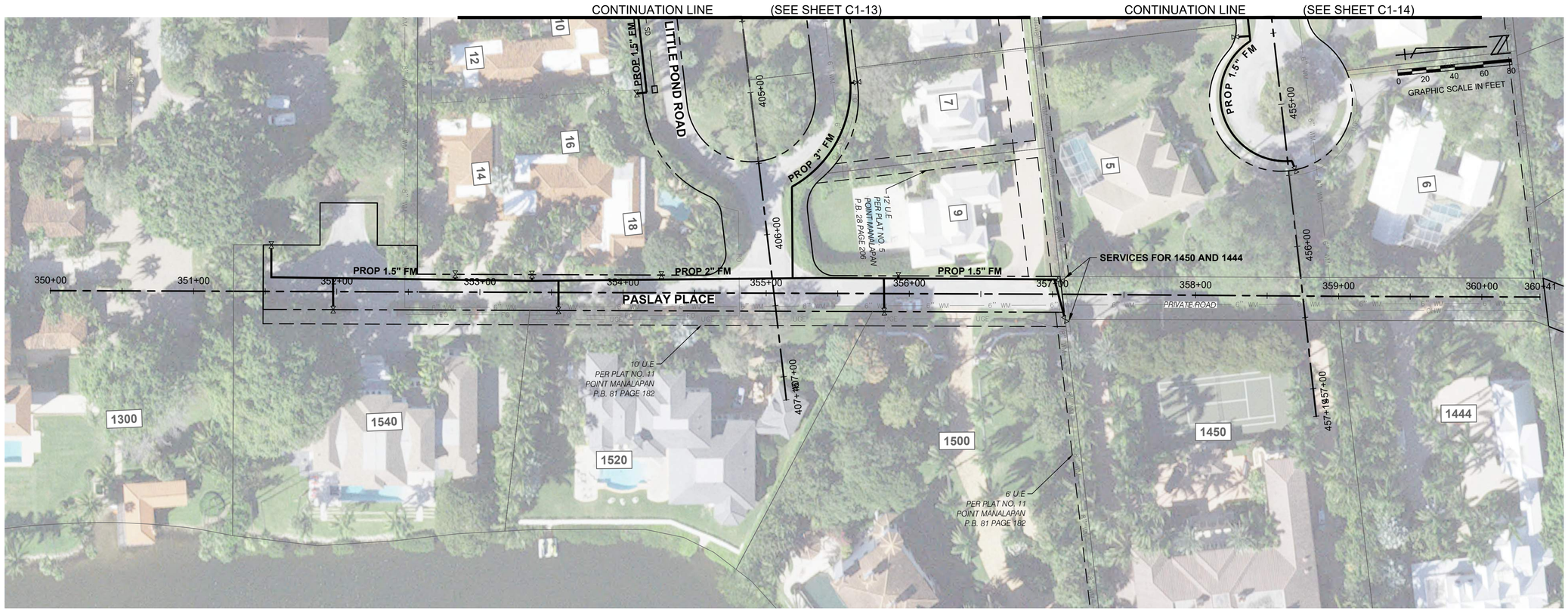
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

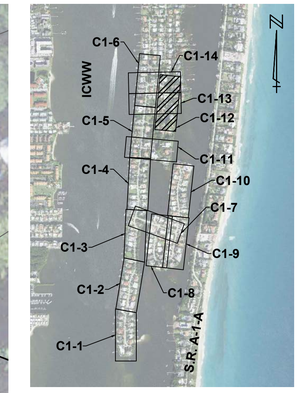
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
CHURCHILL WAY STA
300+00 TO 308+25

FEBRUARY 2023

C1-11





LOCATION AND KEY MAP
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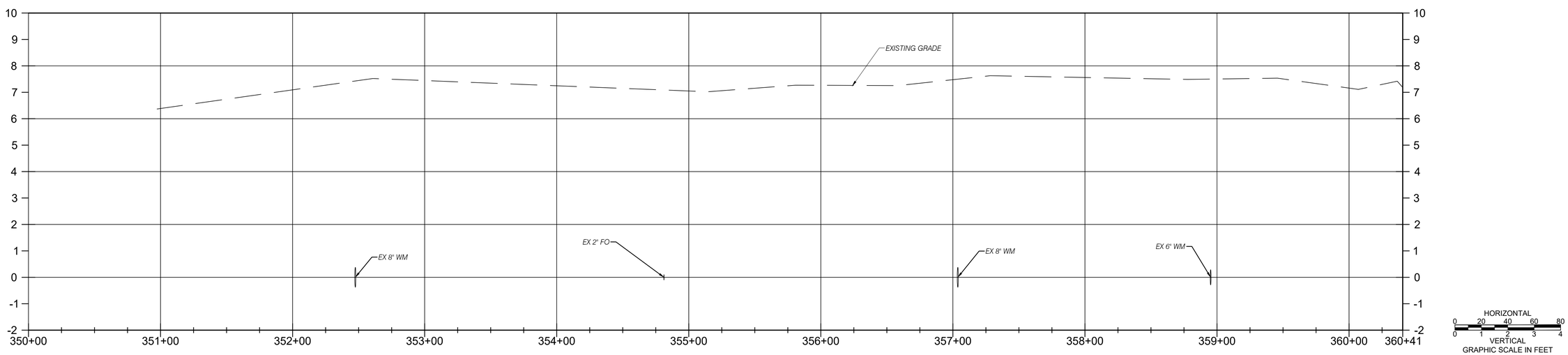

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Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

No.	Date	By	Revision

SEAL

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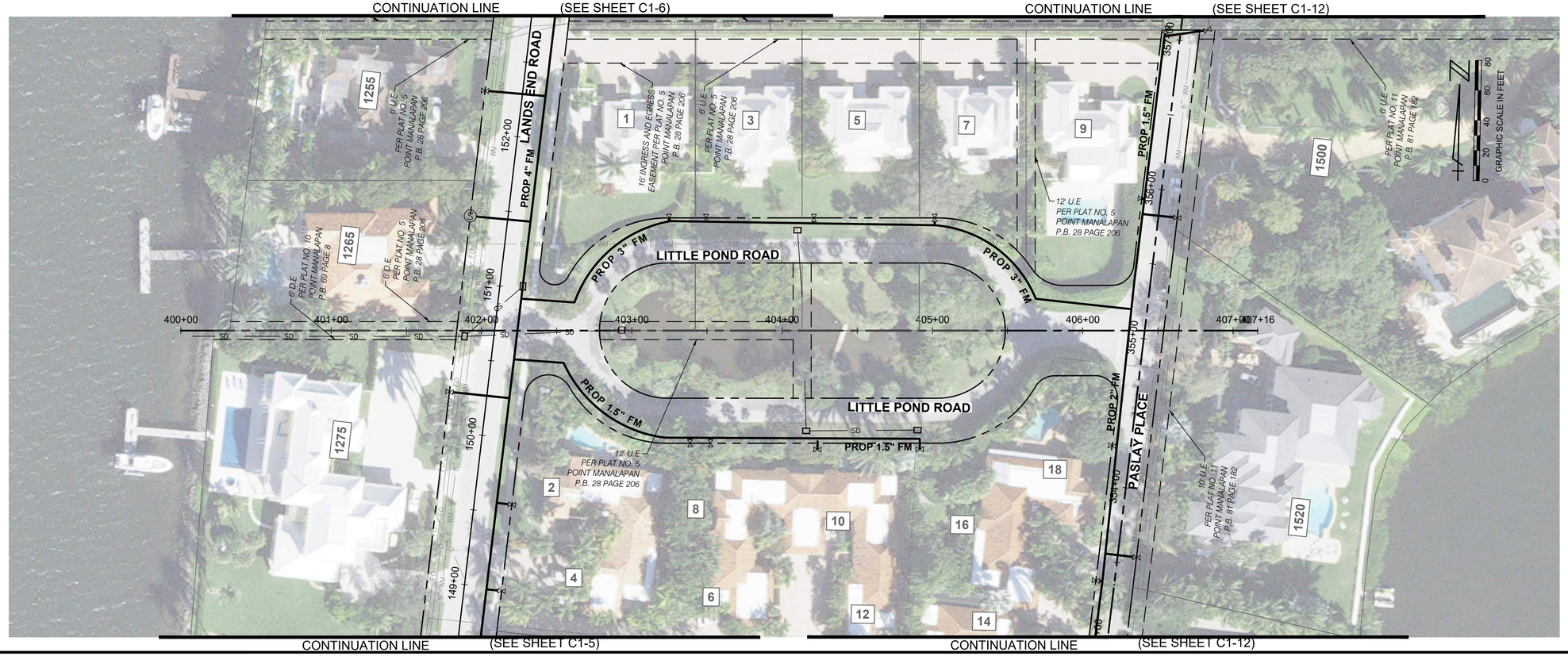
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

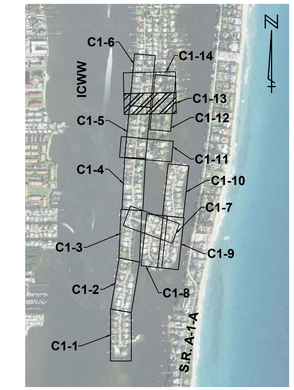
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
PASLAY PLACE STA
350+00 TO 360+41

FEBRUARY 2023

C1-12





LOCATION AND KEY MAP
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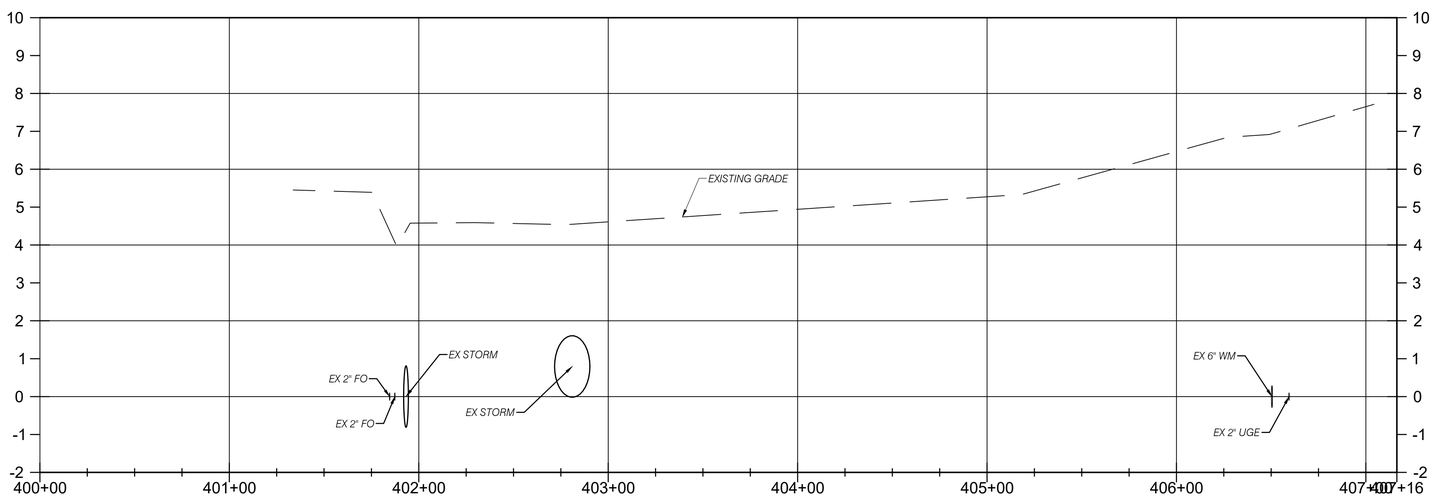

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PLOT DATE: Feb 22, 2023 - 10:18am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
Florida P.E. No. 41645

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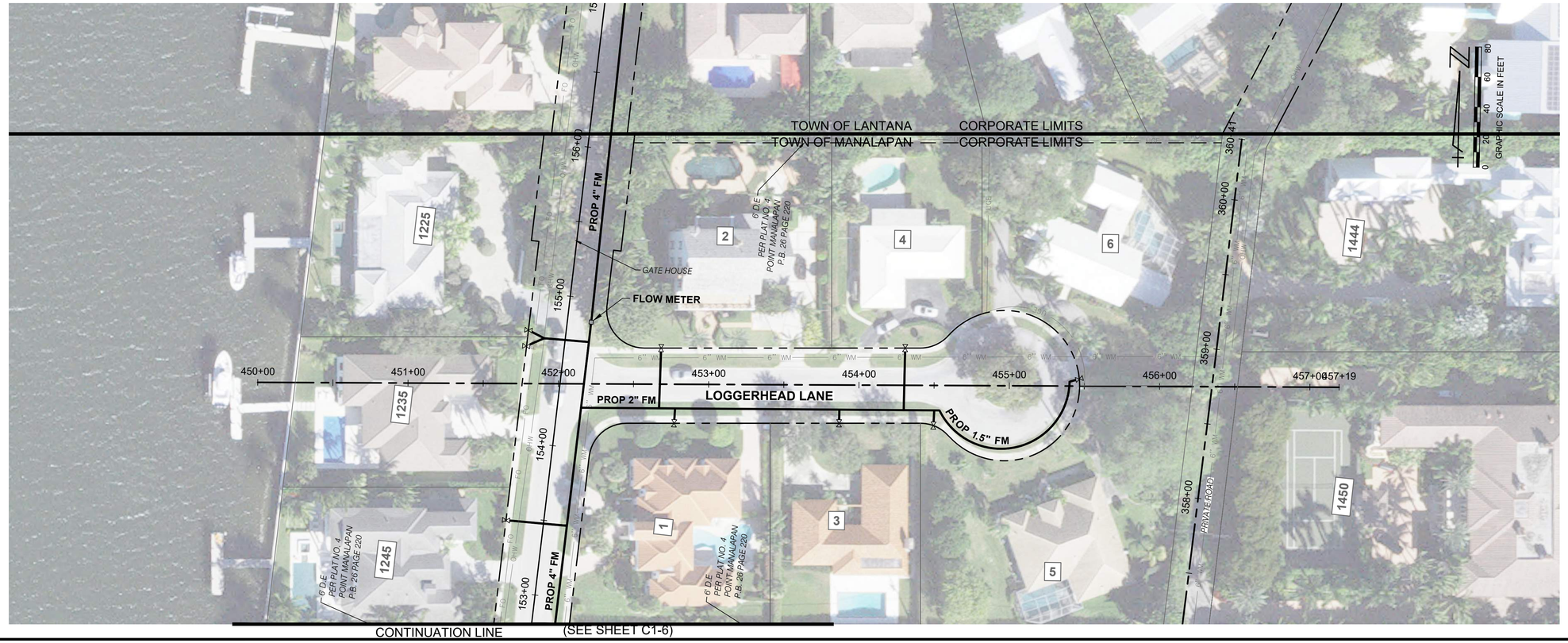
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

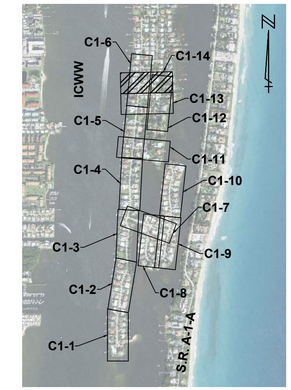
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LITTLE POND ROAD
STA 400+00 TO 407+16

FEBRUARY 2023

C1-13





LOCATION AND KEY MAP
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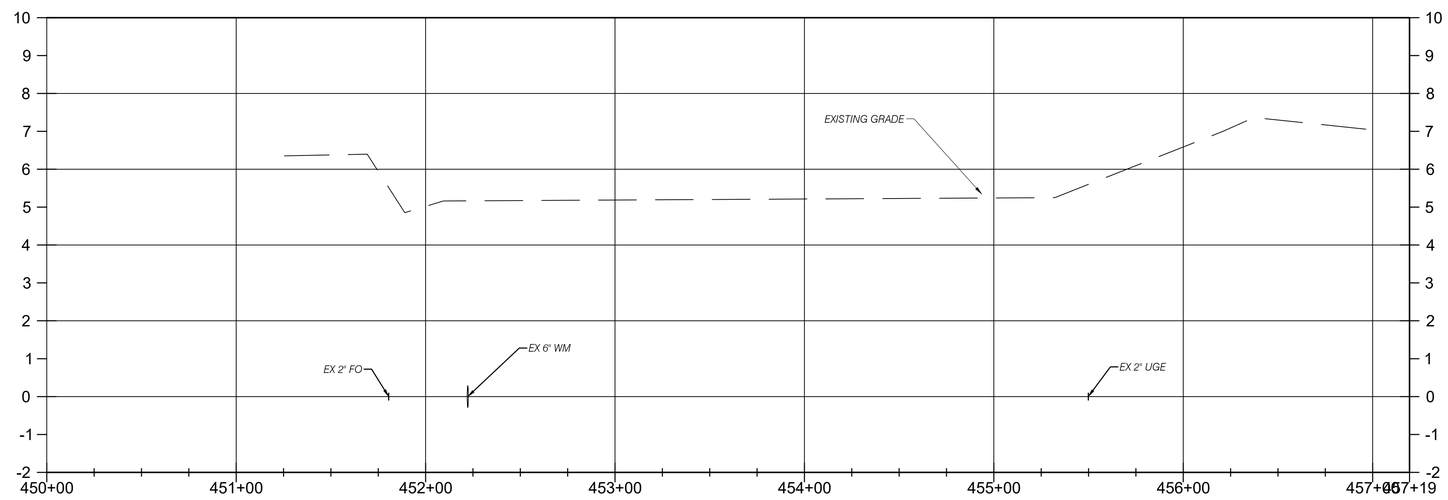

HORIZONTAL
0 20 40 60 80
0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 1:07 pm
Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

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Florida Reg. No. 48 Florida L.B. No. 48

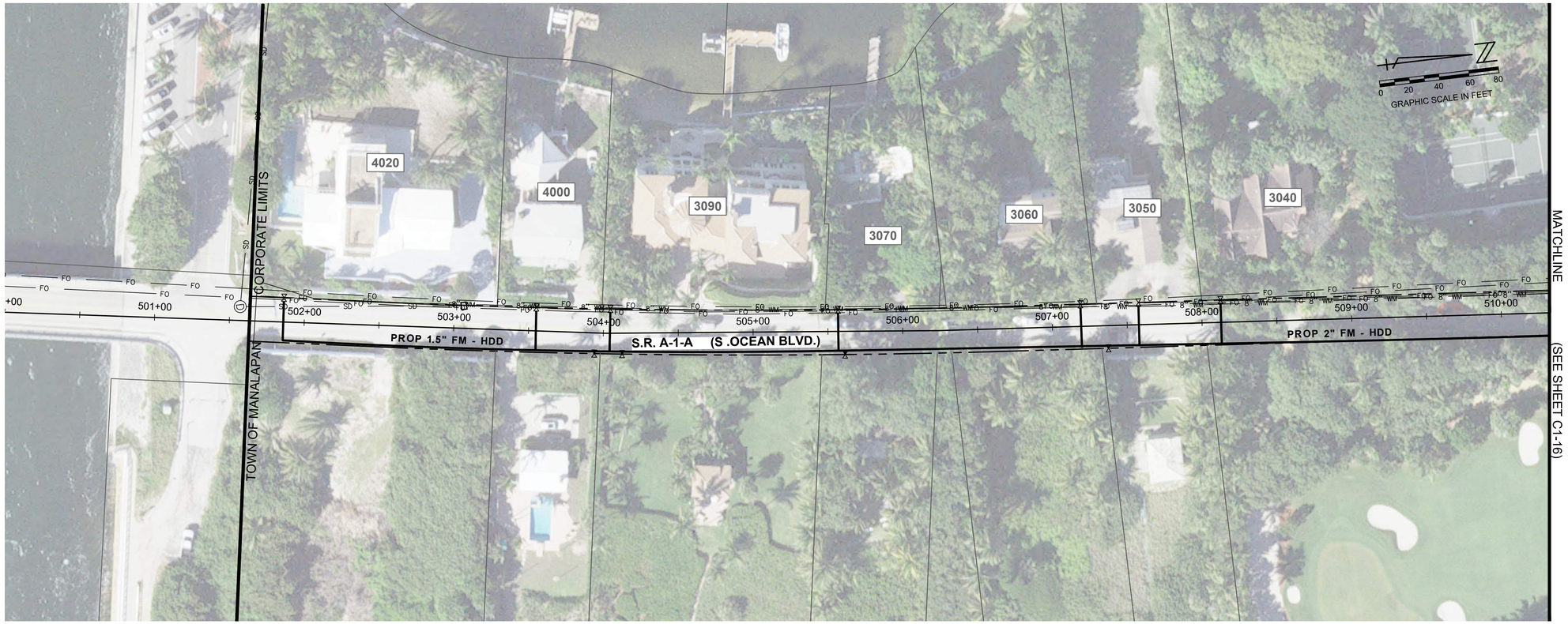
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

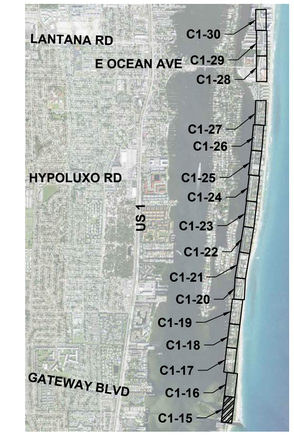
TOWN OF MANALAPAN, FL

PLAN AND PROFILE
LOGGERHEAD LANE
STA 400+00 TO 457+19

FEBRUARY 2023

C1-14





LOCATION AND KEY MAP
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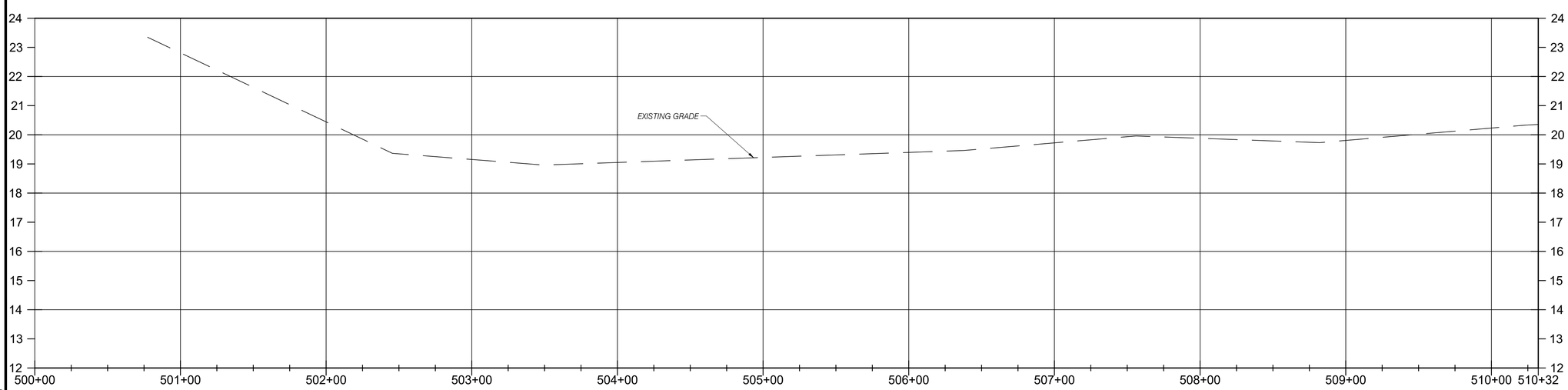

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:17am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
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No.	Date	By	Revision

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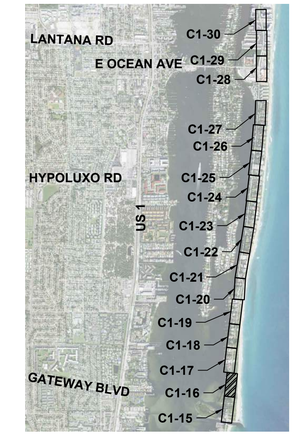
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

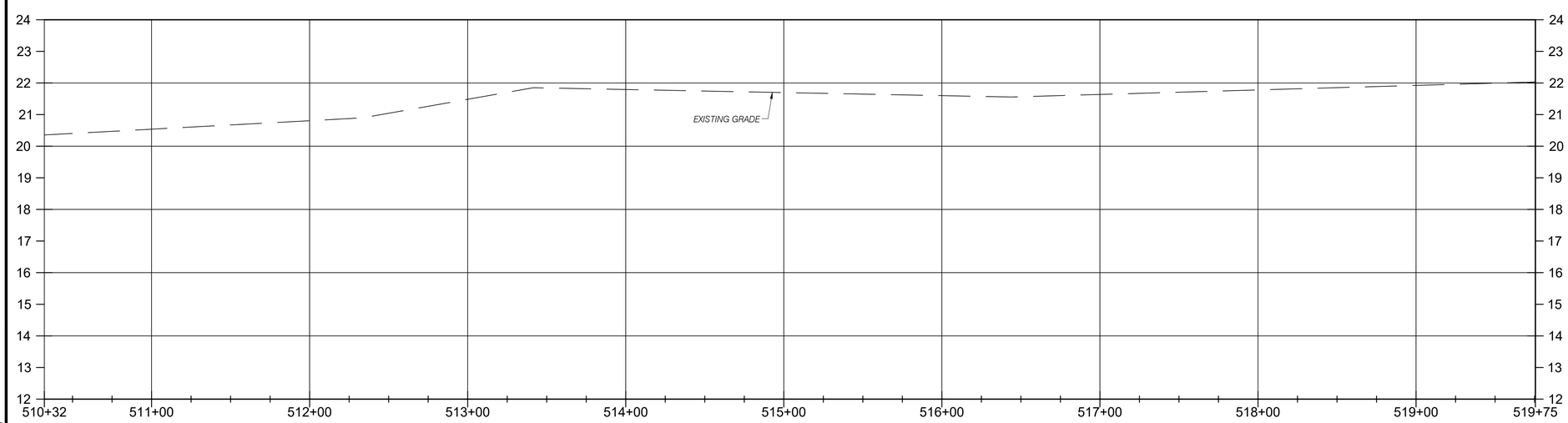
PLAN AND PROFILE S OCEAN BLVD STA 500+00 TO 510+32

FEBRUARY 2023

C1-15



LOCATION AND KEY MAP
N.T.S.



HORIZONTAL
0 20 40 60 80
0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:17am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
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Florida Reg. No. 48 Florida L.B. No. 48

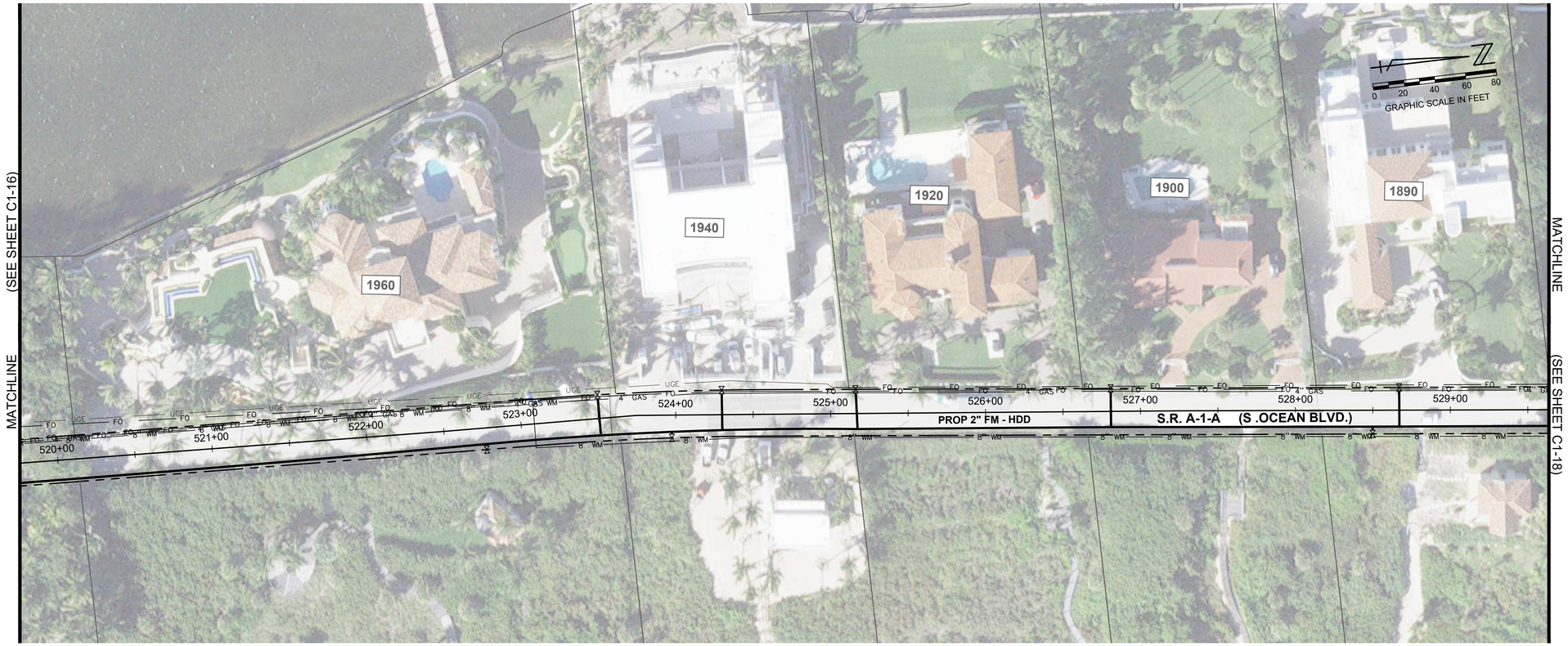
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

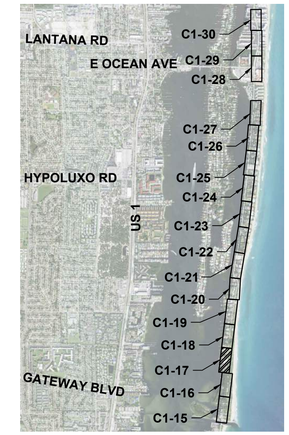
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 510+32 TO 519+75

FEBRUARY 2023

C1-16





LOCATION AND KEY MAP
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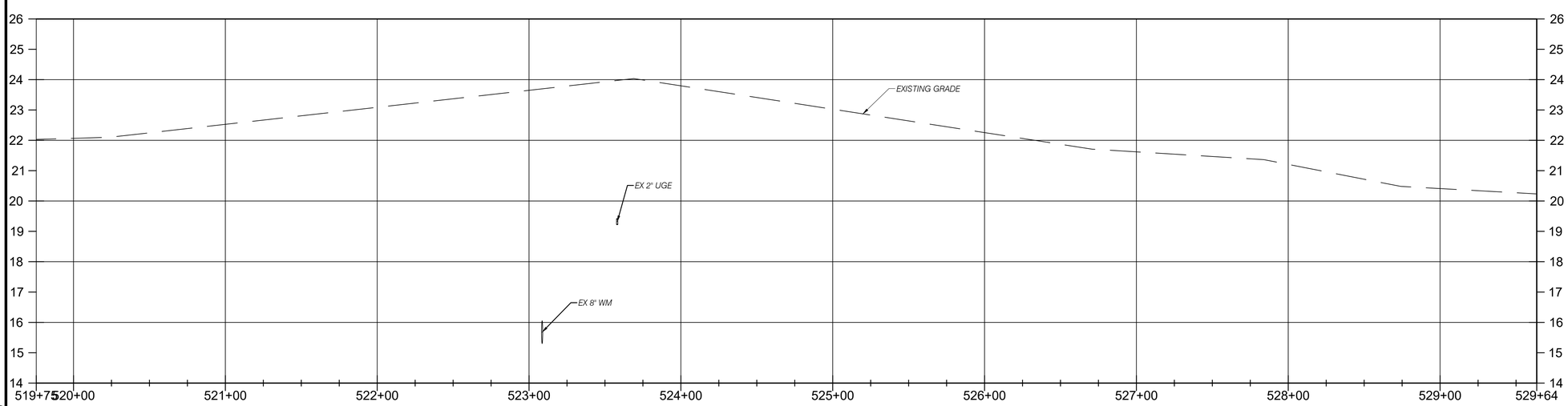

HORIZONTAL
0 20 40 60 80
0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

CADD File: F:\manala\marawx00\CADD\GWW\W300CS01_C1-15.dwg
PLOT DATE: Feb 22, 2023 - 10:15am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

No.	Date	By	Revision

SEAL

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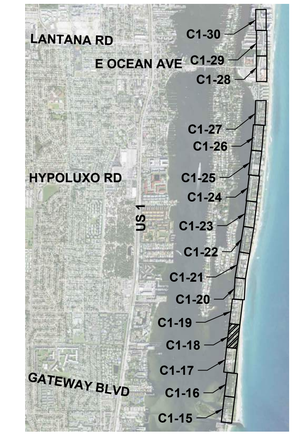
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

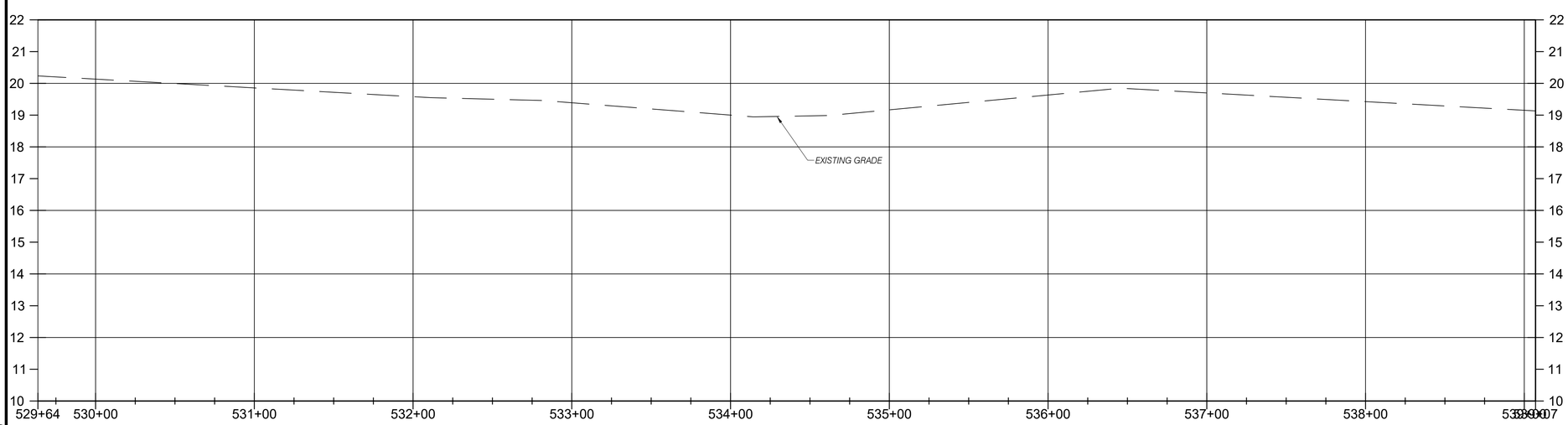
PLAN AND PROFILE S OCEAN BLVD STA 519+75 TO 529+64

FEBRUARY 2023

C1-17



LOCATION AND KEY MAP
N.T.S.



HORIZONTAL
0 20 40 60 80
0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

CADD File: F:\manala\marawx00\CADD\GWW\W300CS01_C1-15.dwg
PLOT DATE: Feb 22, 2023 - 10:19am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
Florida P.E. No. 41645

Date

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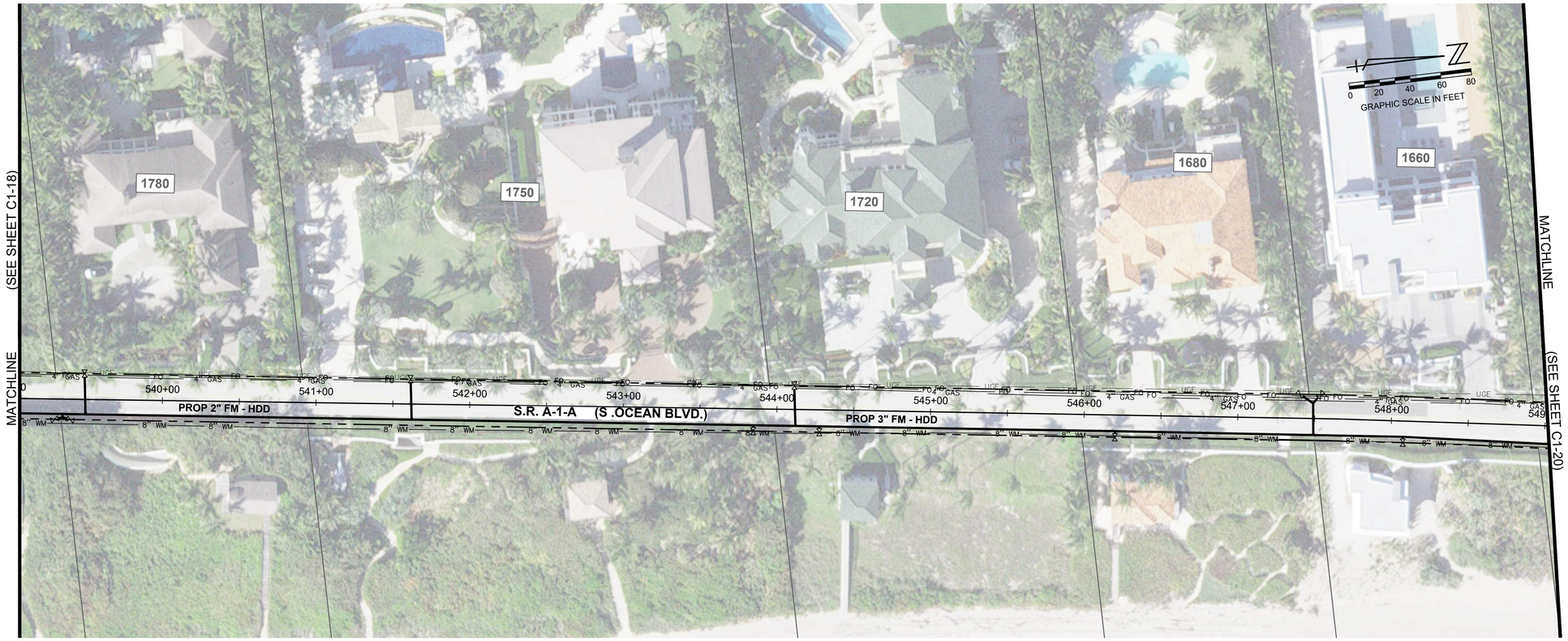
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

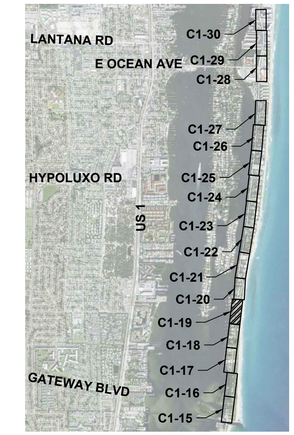
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 529+64 TO 539+07

FEBRUARY 2023

C1-18





LOCATION AND KEY MAP
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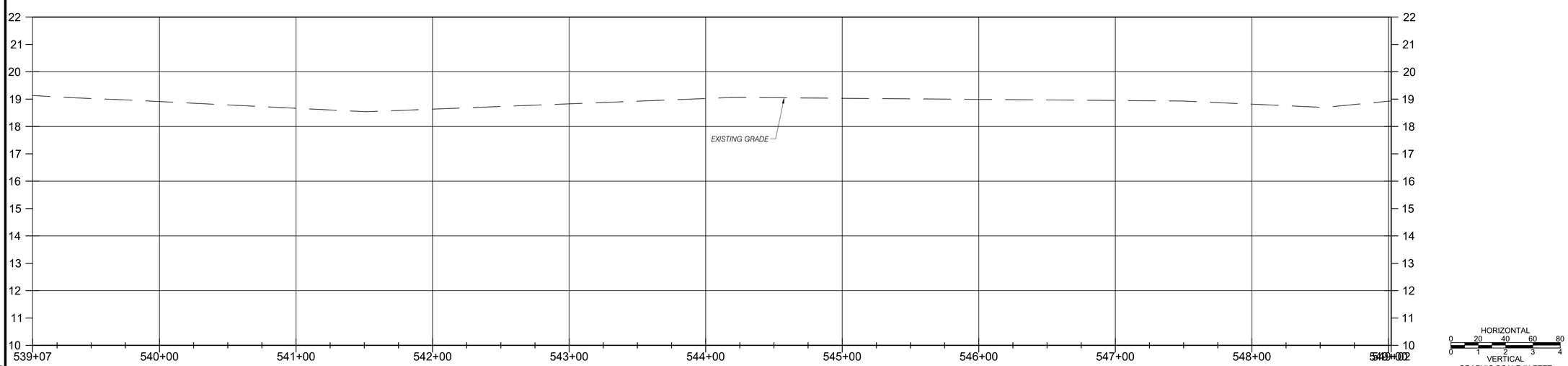

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:18am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

No.	Date	By	Revision

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JOHN R. LEEMON
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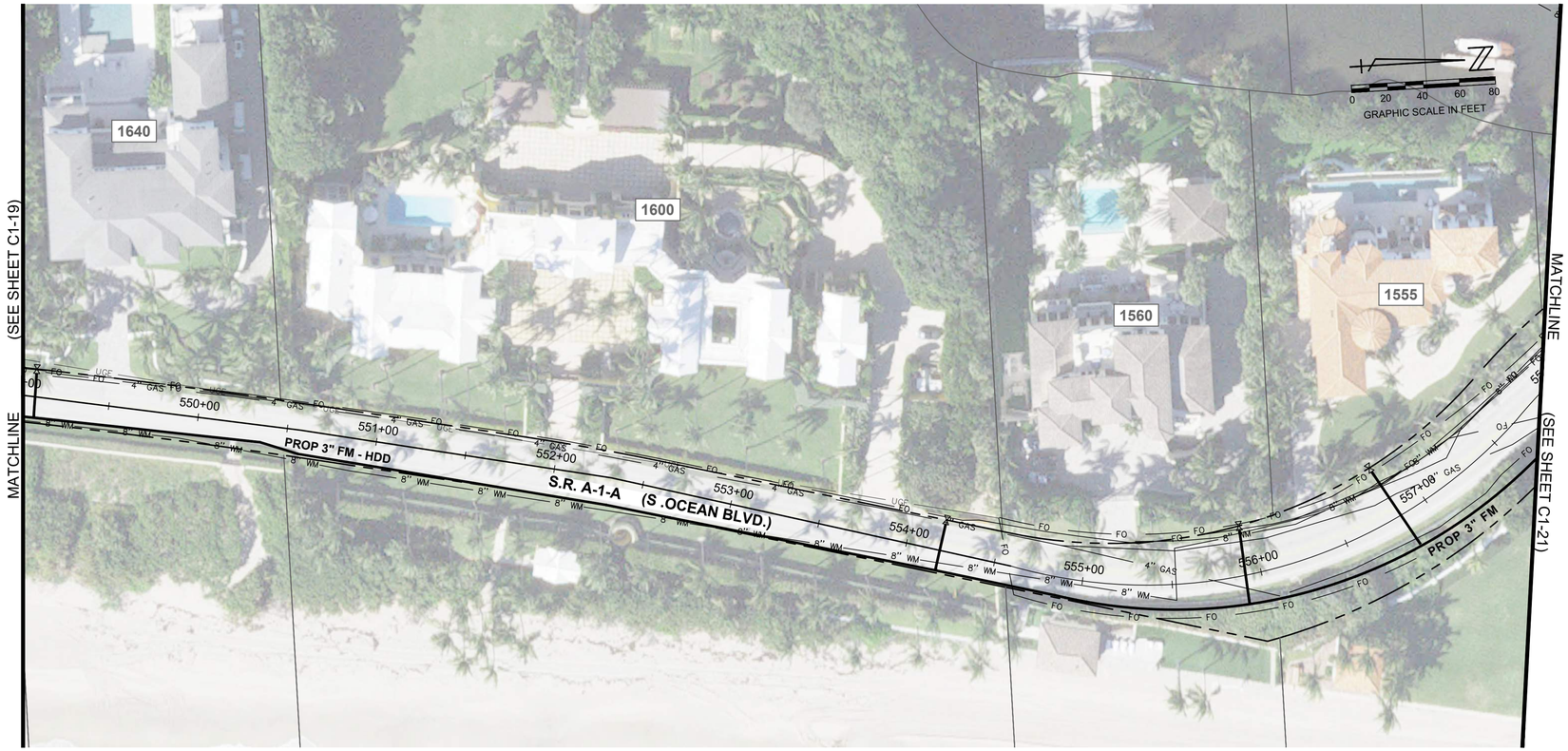
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

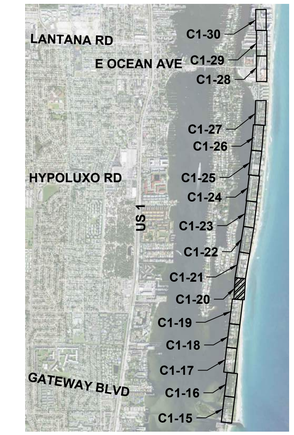
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 539+07 TO 549+02

FEBRUARY 2023

C1-19





LOCATION AND KEY MAP
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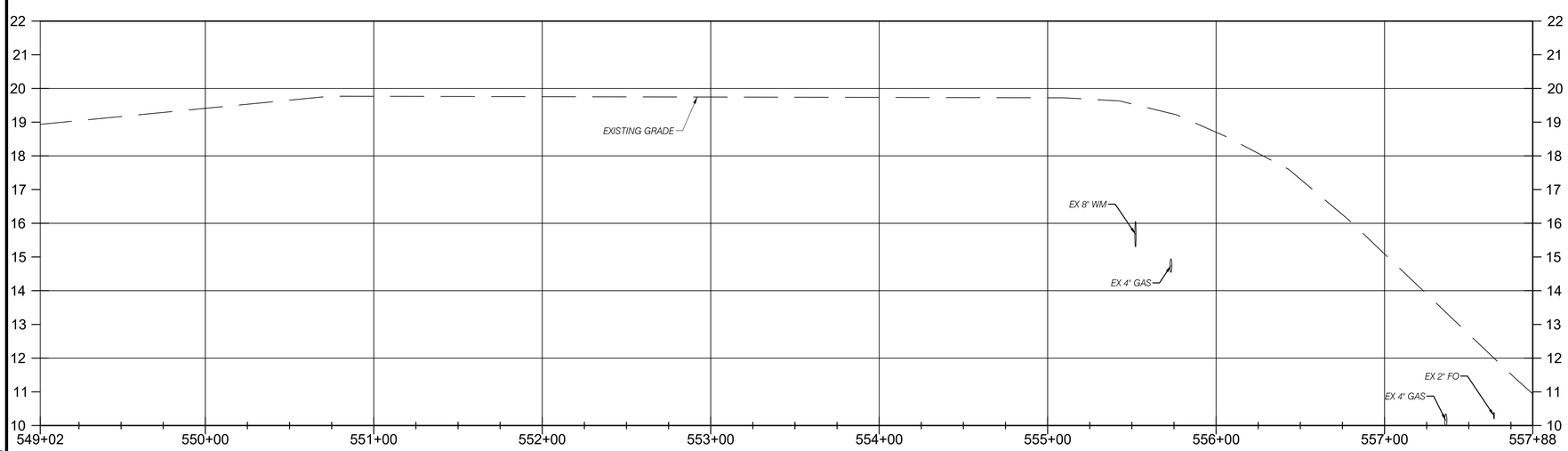

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 12:15pm

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

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Florida P.E. No. 41645

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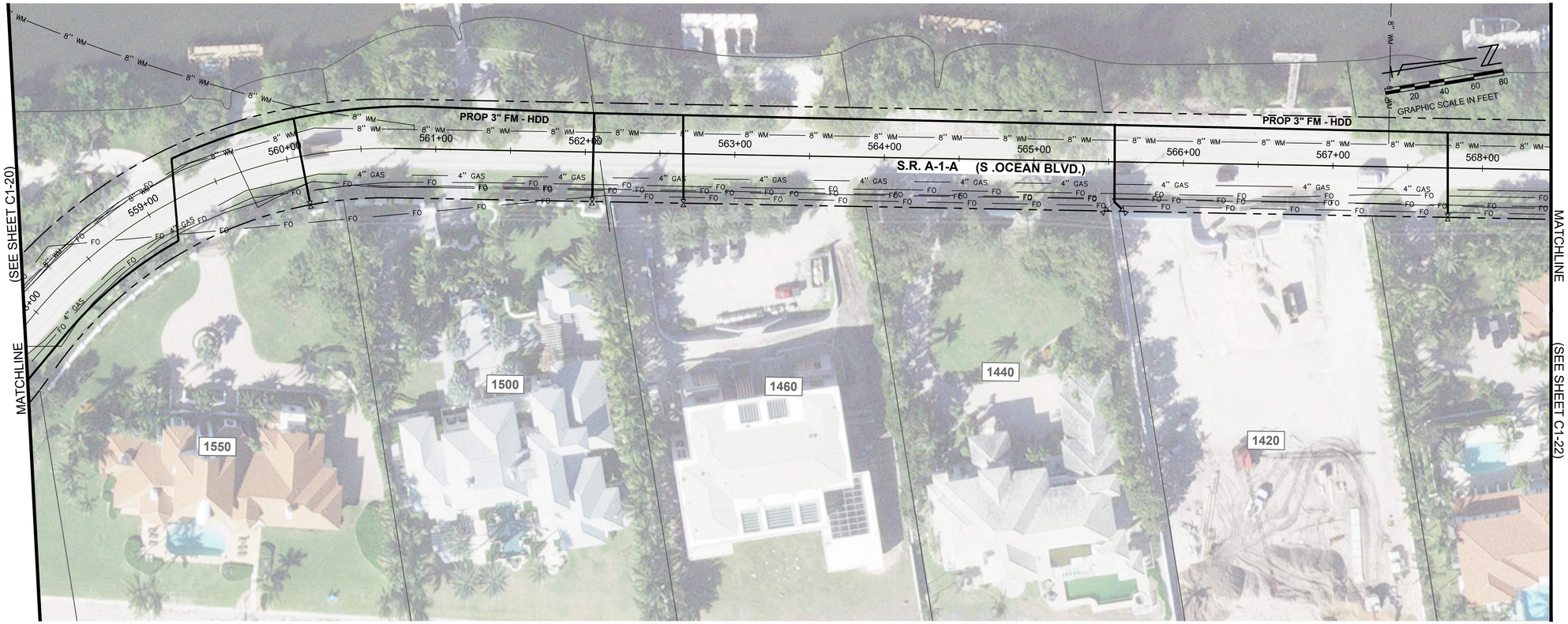
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

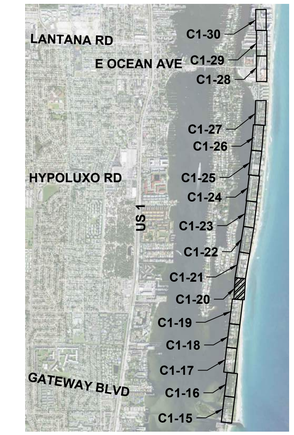
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 549+02 TO 557+88

FEBRUARY 2023

C1-20





LOCATION AND KEY MAP
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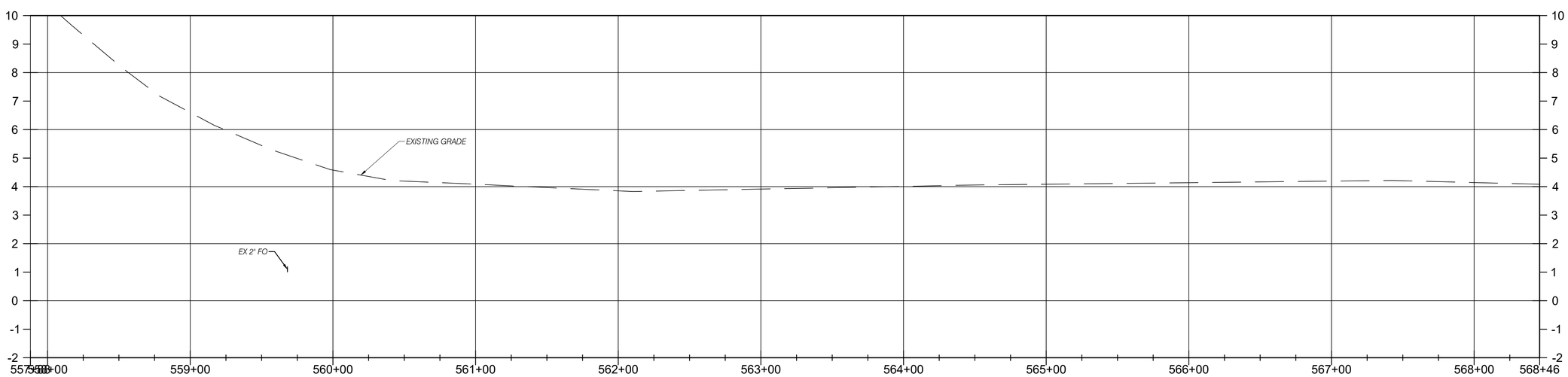

HORIZONTAL
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:19am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
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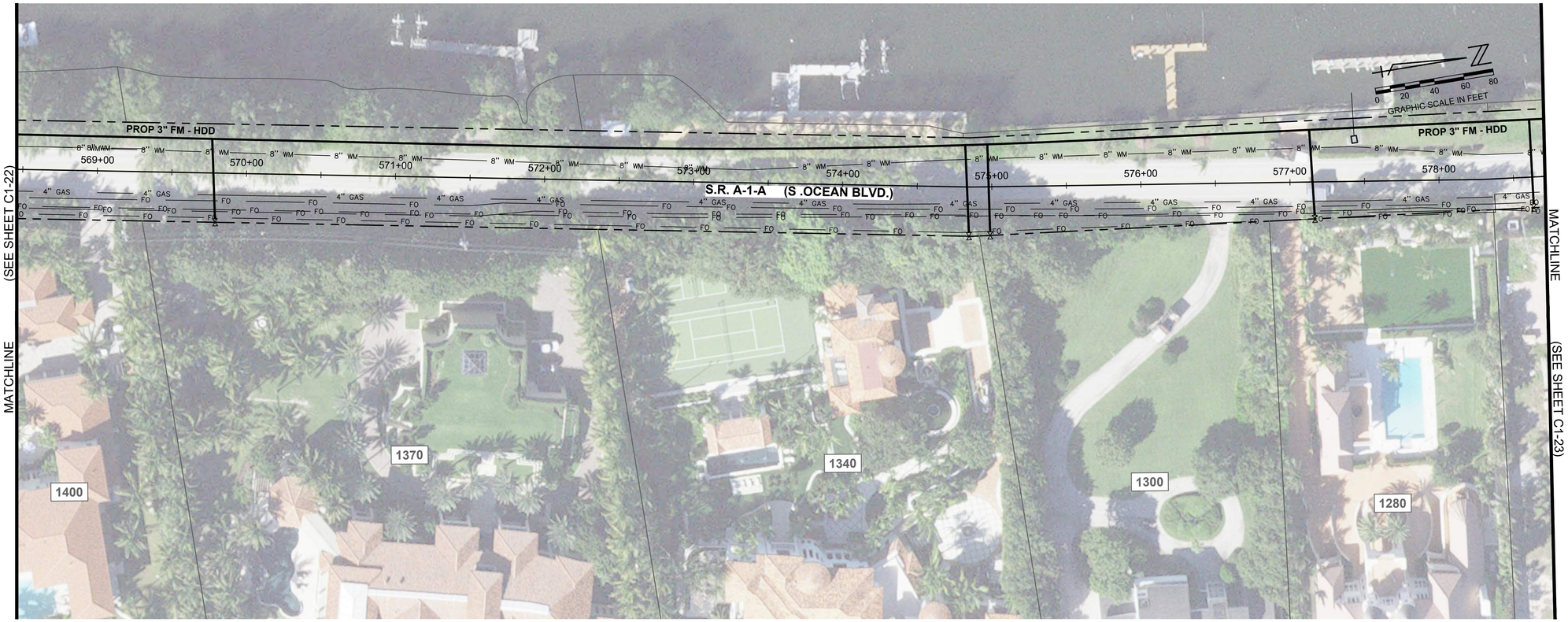
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

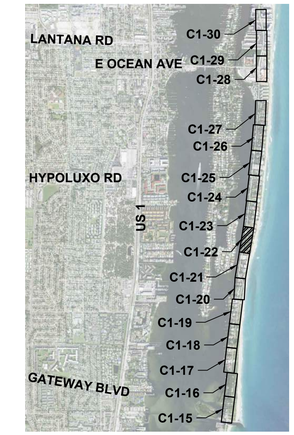
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 557+88 TO 568+46

FEBRUARY 2023

C1-21





LOCATION AND KEY MAP
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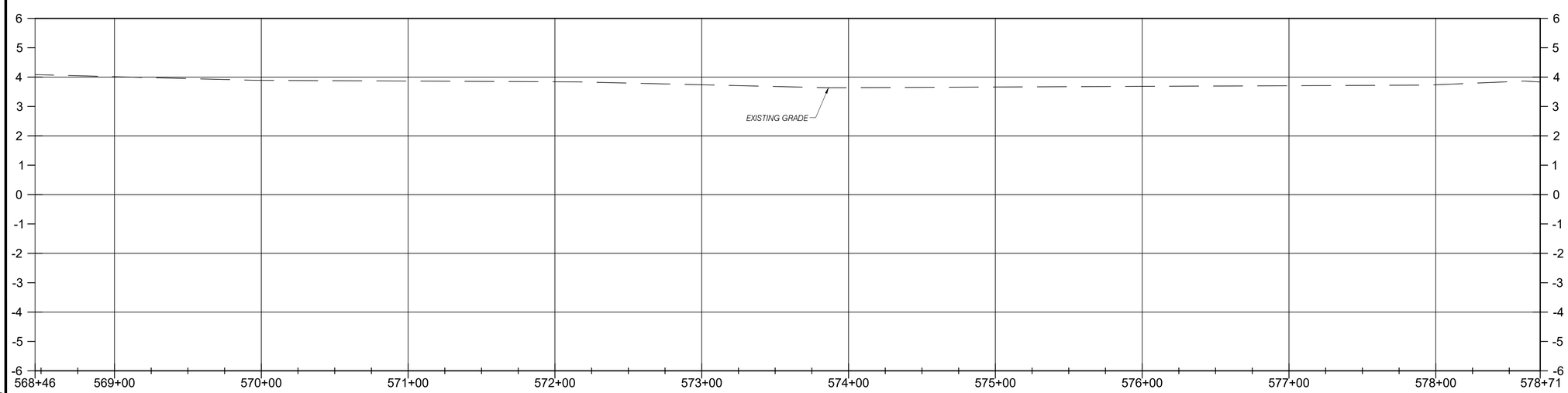

HORIZONTAL
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VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:19am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

No.	Date	By	Revision

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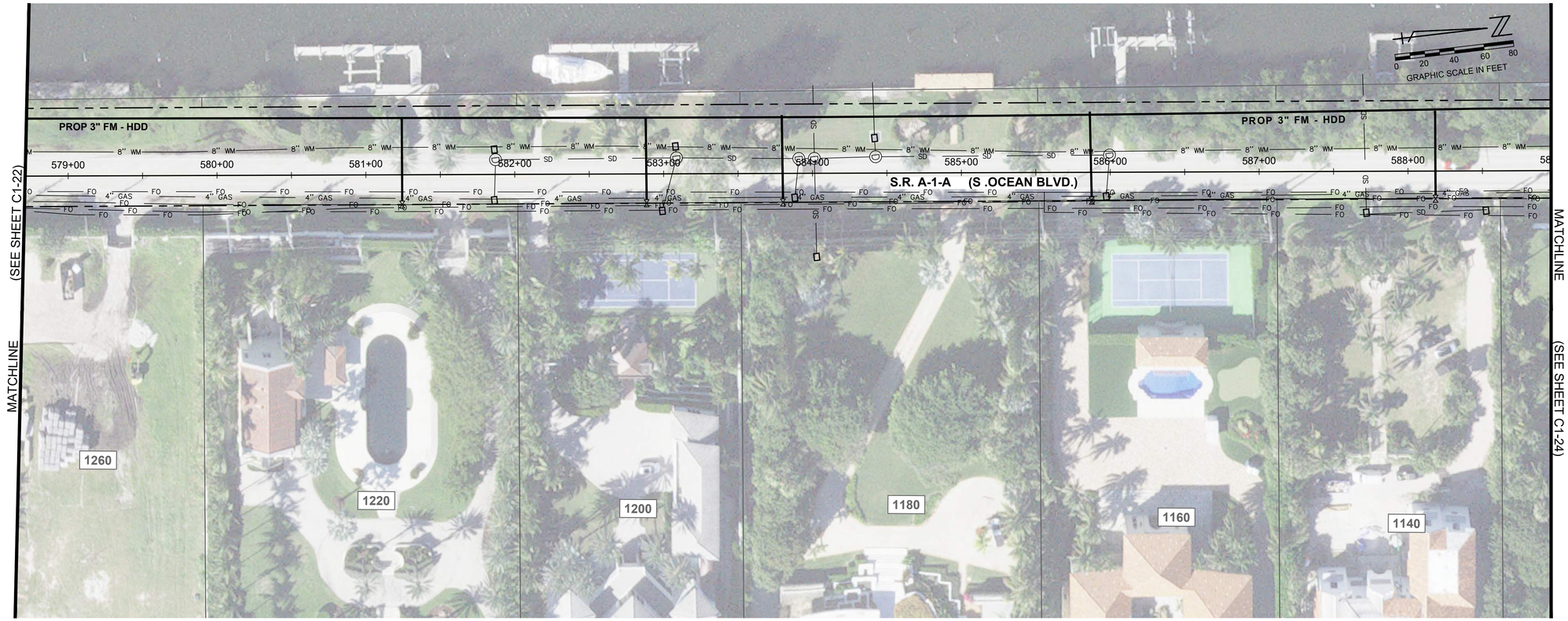
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

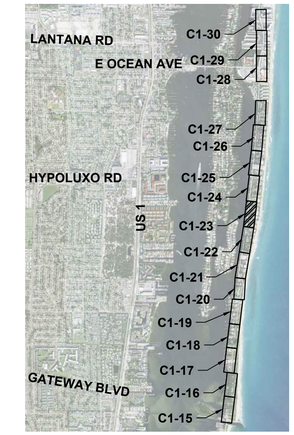
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 568+46 TO 578+71

FEBRUARY 2023

C1-22





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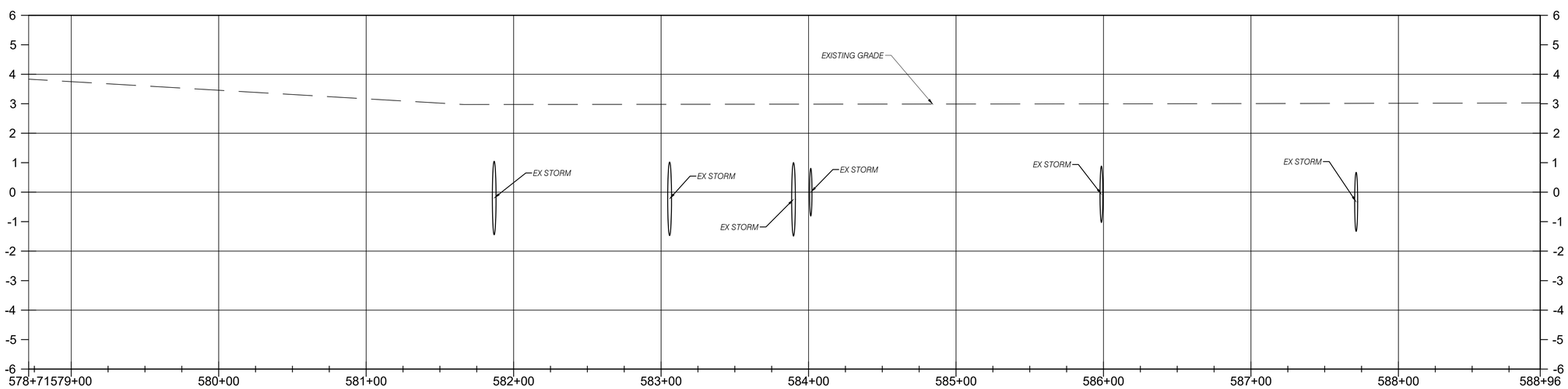

HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:19am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

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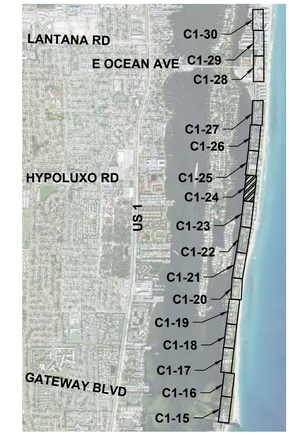
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 578+71 TO 588+96

FEBRUARY 2023

C1-23



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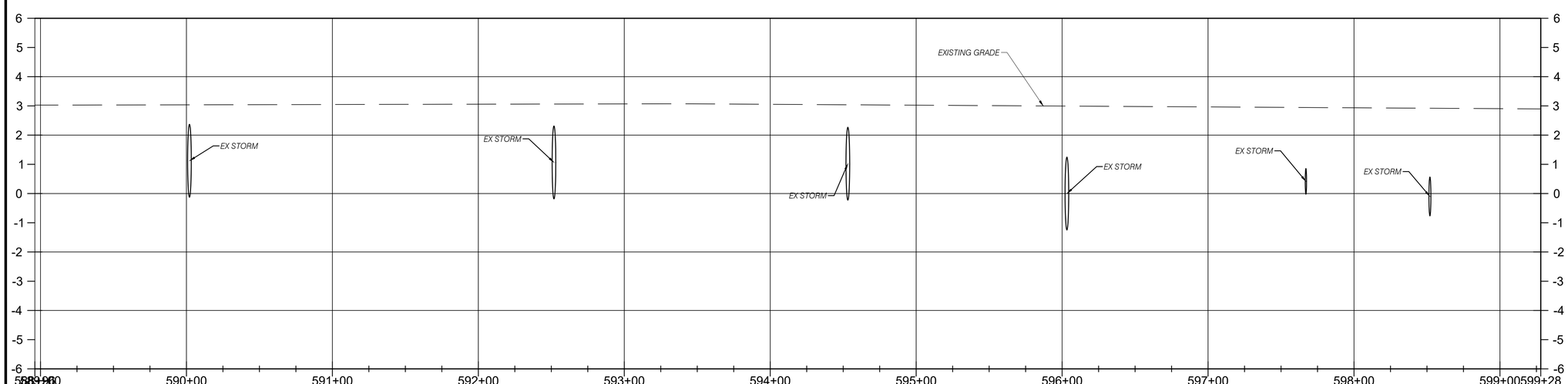

HORIZONTAL
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VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:19am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

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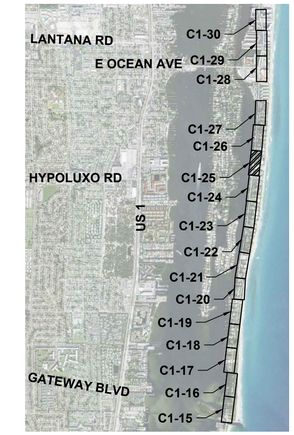
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 588+96 TO 599+28

FEBRUARY 2023

C1-24



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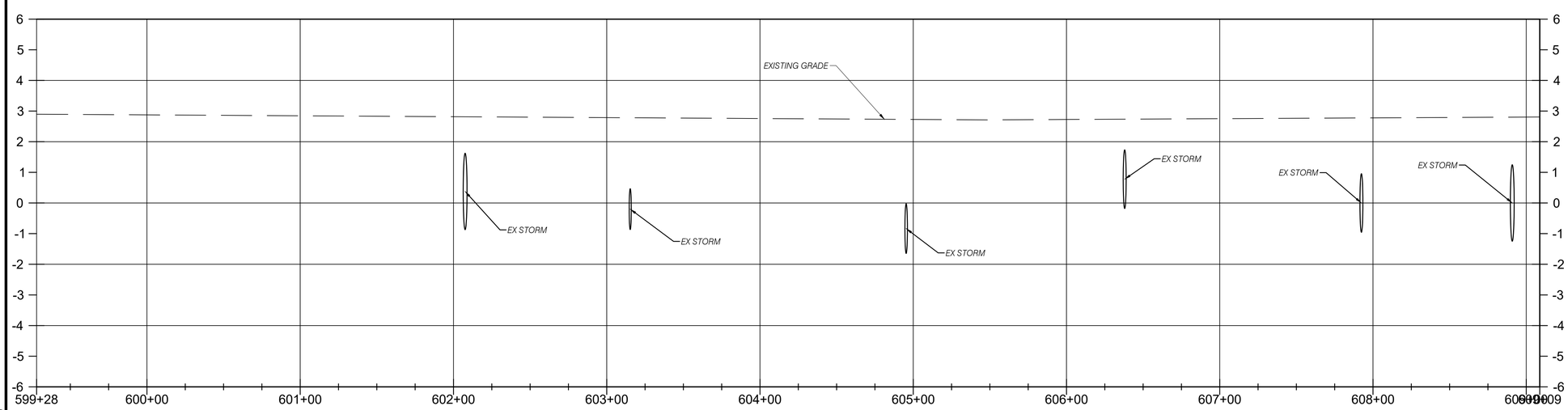

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VERTICAL
GRAPHIC SCALE IN FEET

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Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

Vertical Datum: NAVD88
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Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

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Florida P.E. No. 41645

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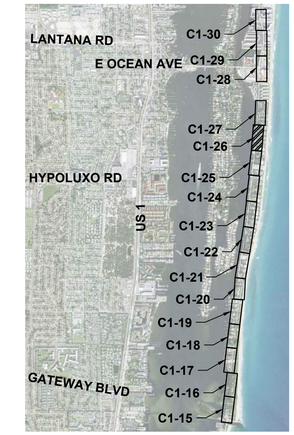
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 599+28 TO 609+09

FEBRUARY 2023

C1-25



LOCATION AND KEY MAP
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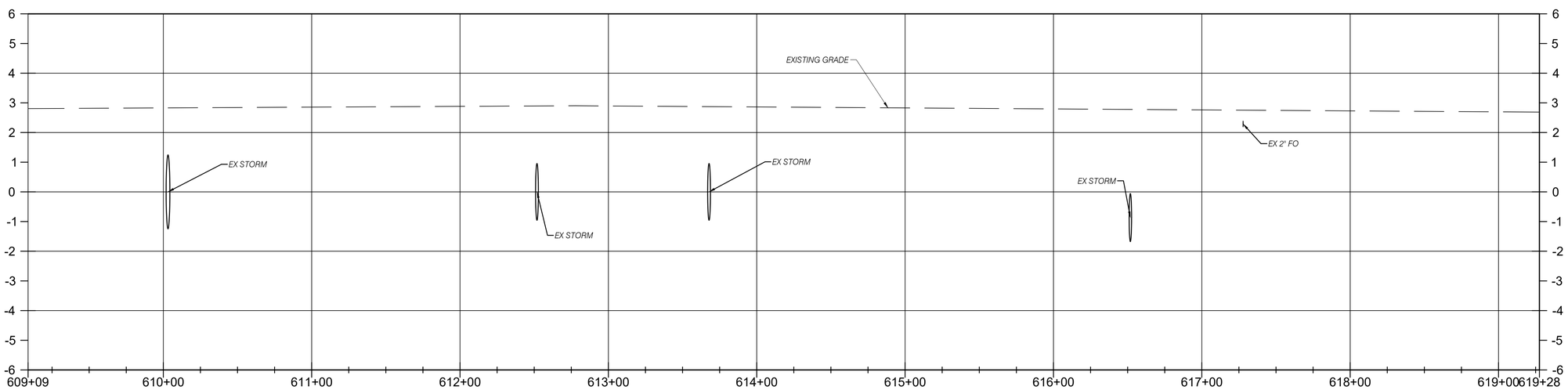

HORIZONTAL
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VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:20am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

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Florida P.E. No. 41645

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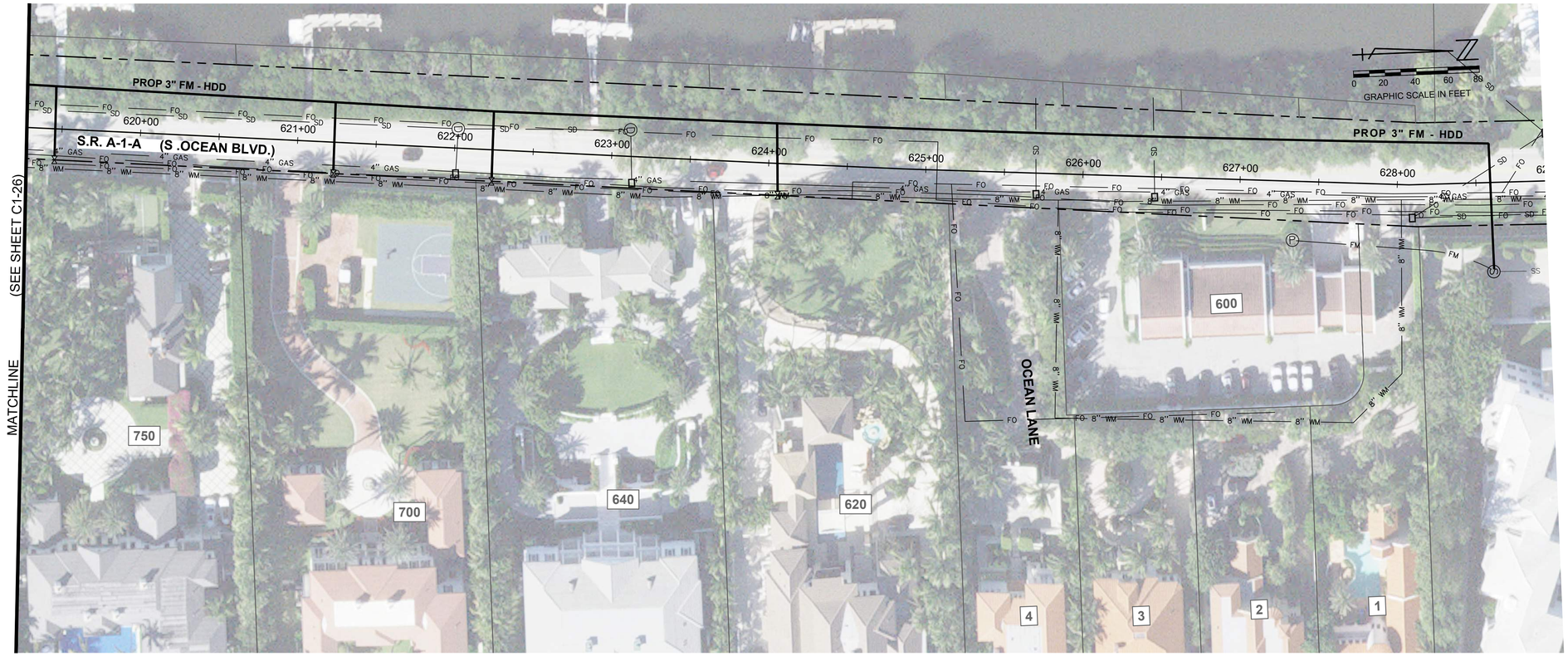
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

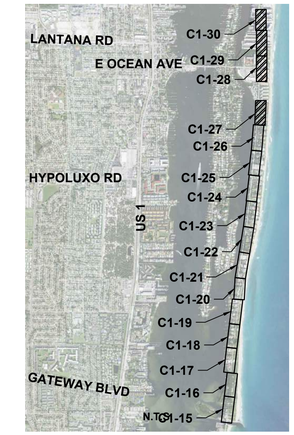
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 609+09 TO 619+28

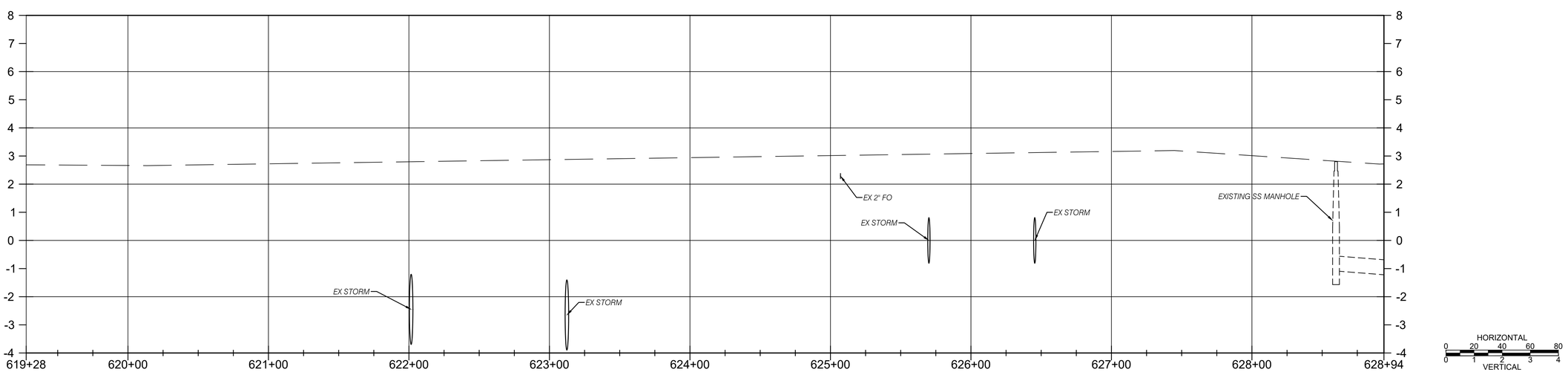
FEBRUARY 2023

C1-26





LOCATION AND KEY MAP



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PLOT DATE: Feb 22, 2023 - 10:20am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

No.	Date	By	Revision

SEAL

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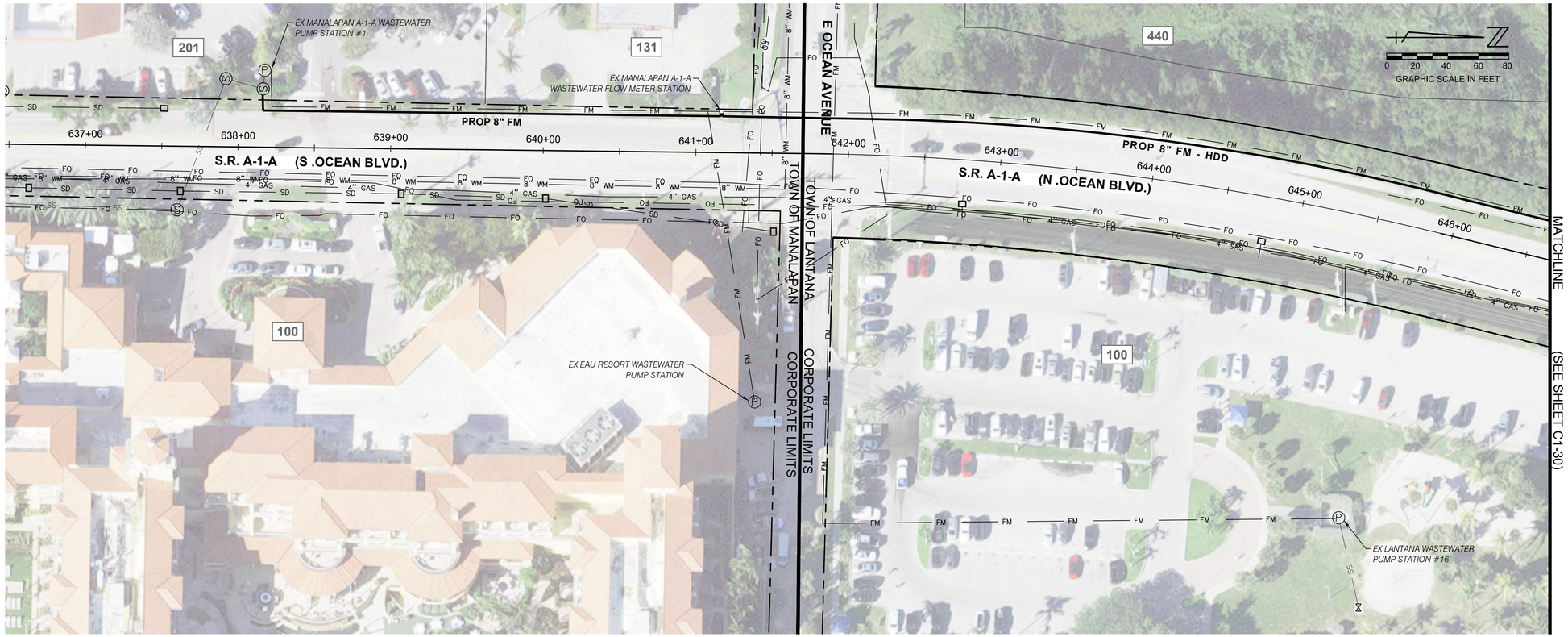
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

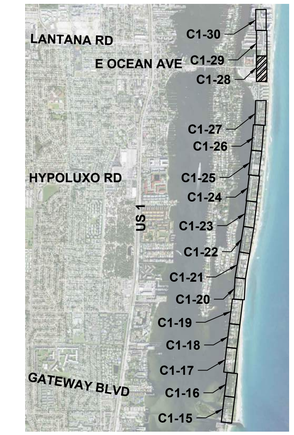
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 619+28 TO 628+29

FEBRUARY 2023

C1-27





LOCATION AND KEY MAP
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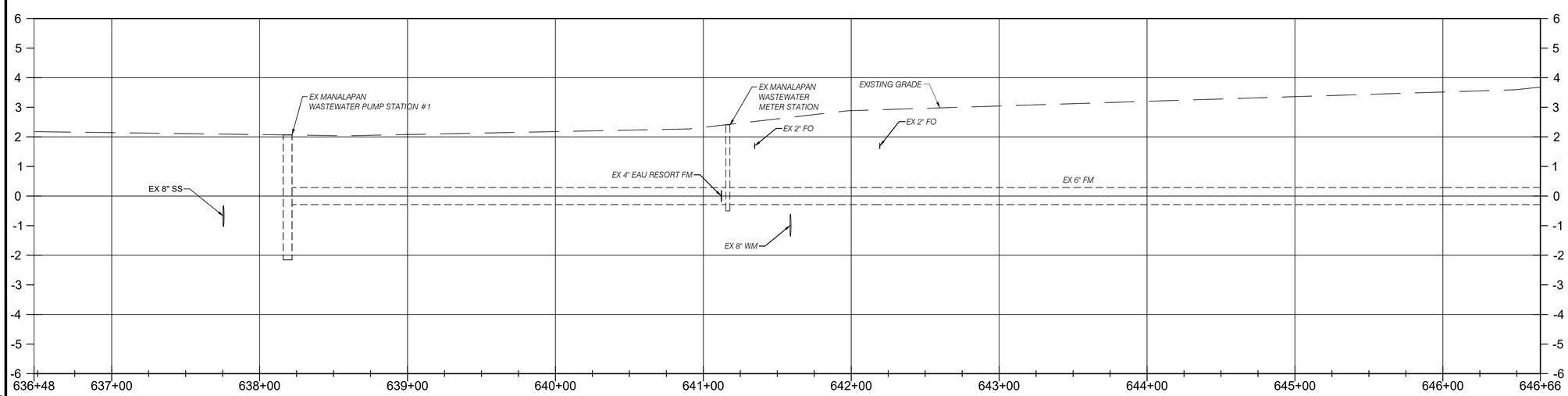

HORIZONTAL
VERTICAL
GRAPHIC SCALE IN FEET

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PLOT DATE: Feb 22, 2023 - 10:20am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Adjust all scaled dimensions accordingly
Bar is equal to one inch on original drawing

No.	Date	By	Revision

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JOHN R. LEEMON
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Florida Reg. No. 48 Florida L.B. No. 48

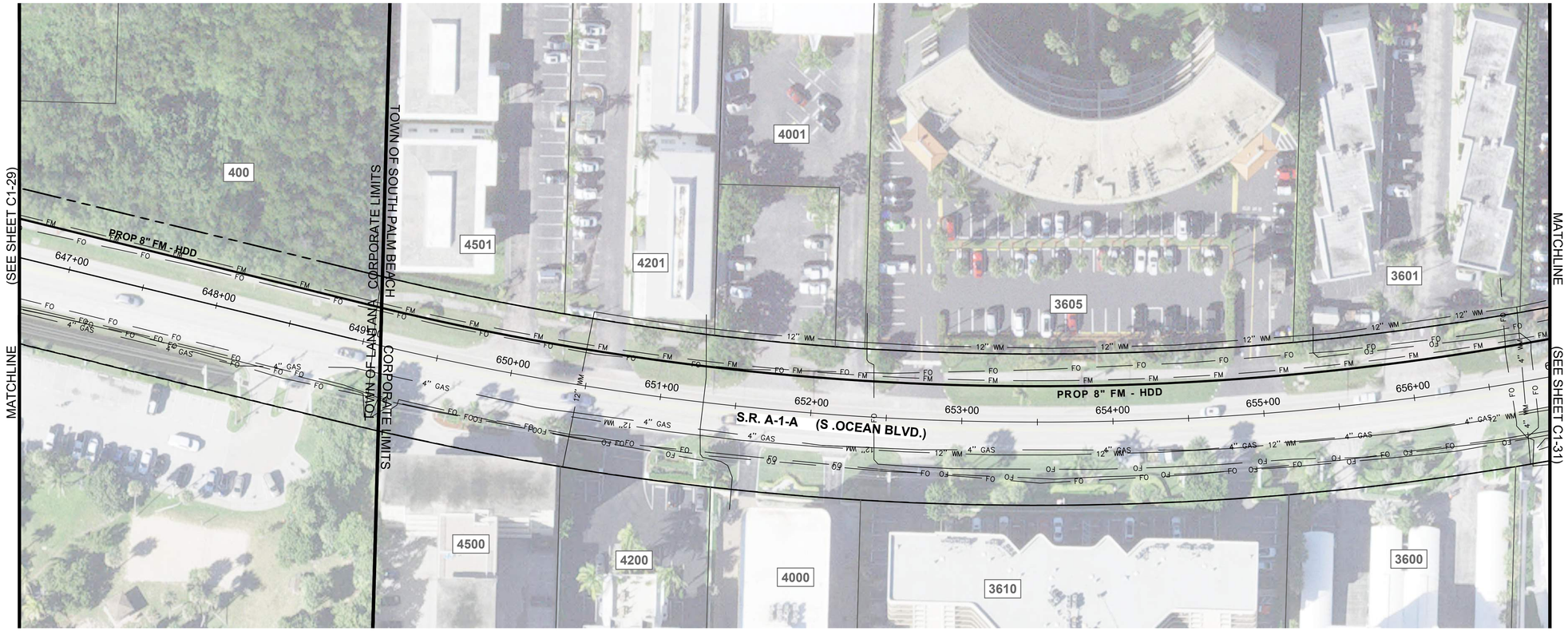
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

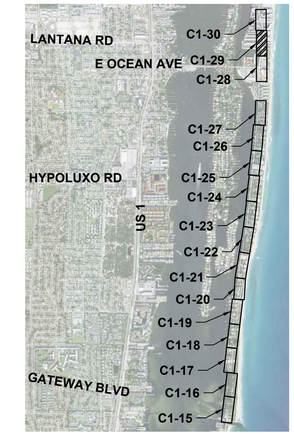
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 636+48 TO 646+66

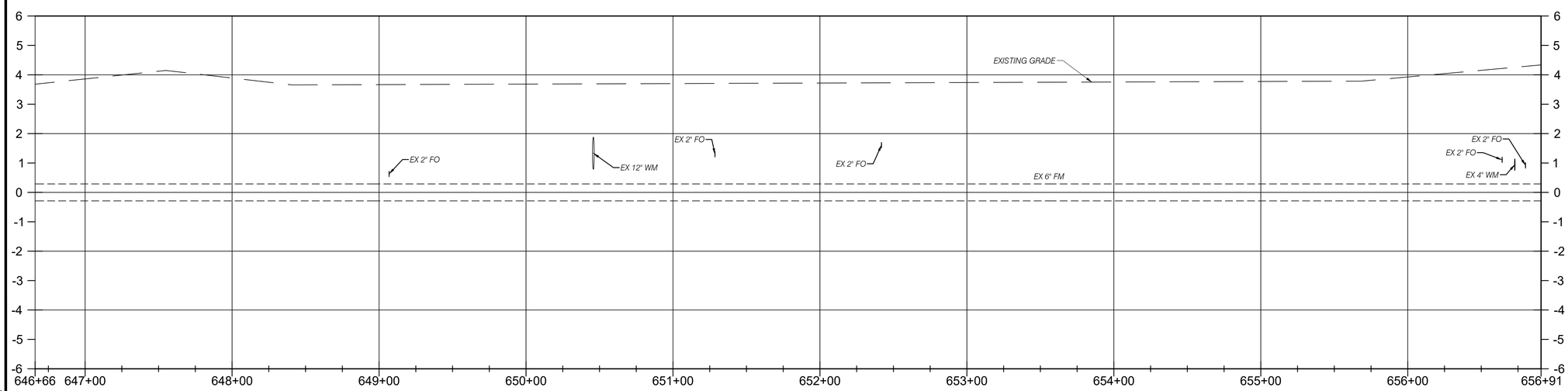
FEBRUARY 2023

C1-28





LOCATION AND KEY MAP
N.T.S.



HORIZONTAL
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0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET

CADD File: F:\manala\marawx00\CAD\DWG\WW300CS01_C1-15.dwg
PLOT DATE: Feb 22, 2023 - 10:20am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly
1

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
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Date

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Florida Reg. No. 48 Florida L.B. No. 48

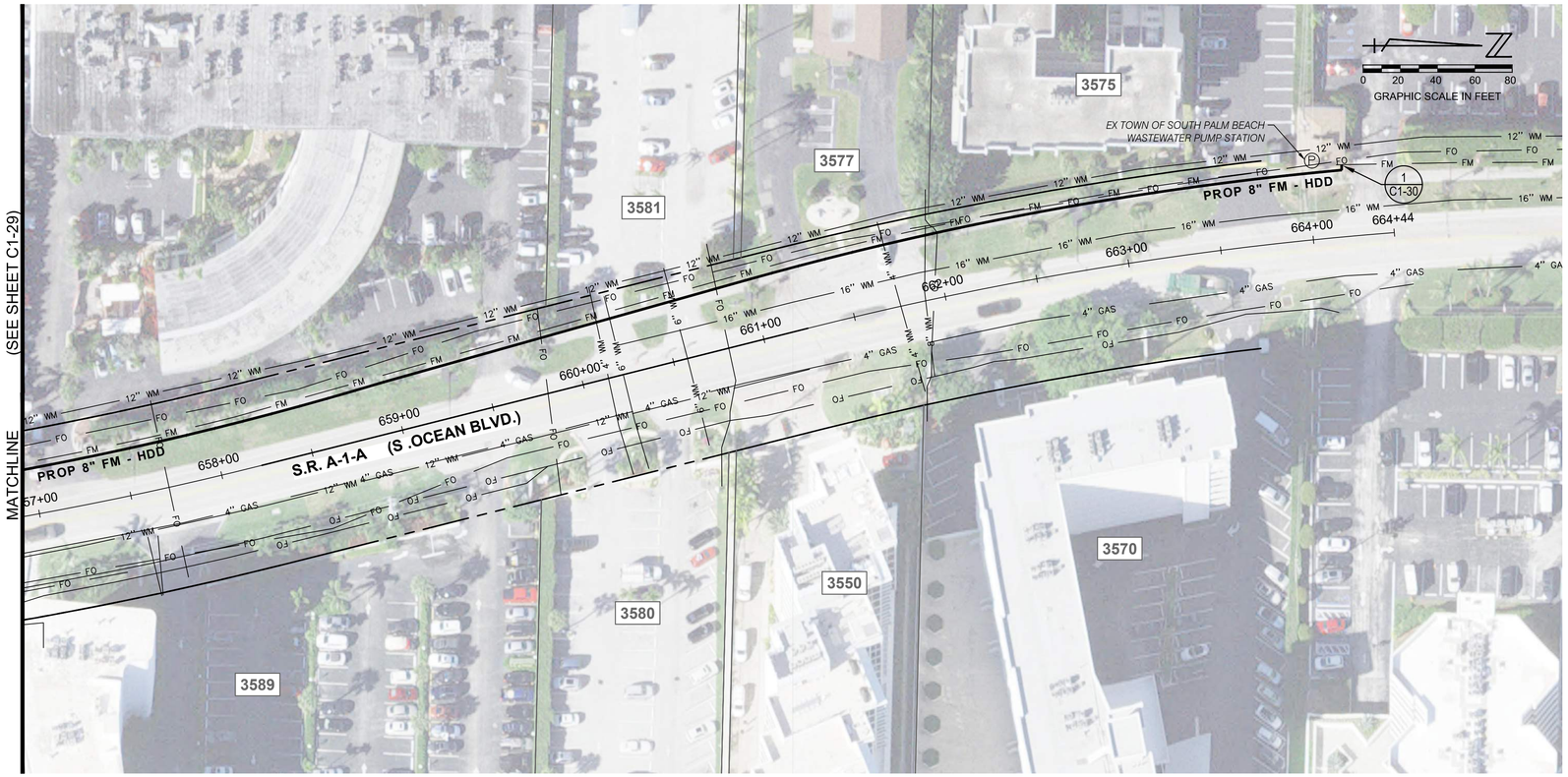
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

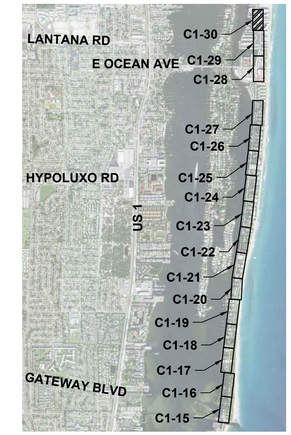
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 646+66 TO 656+91

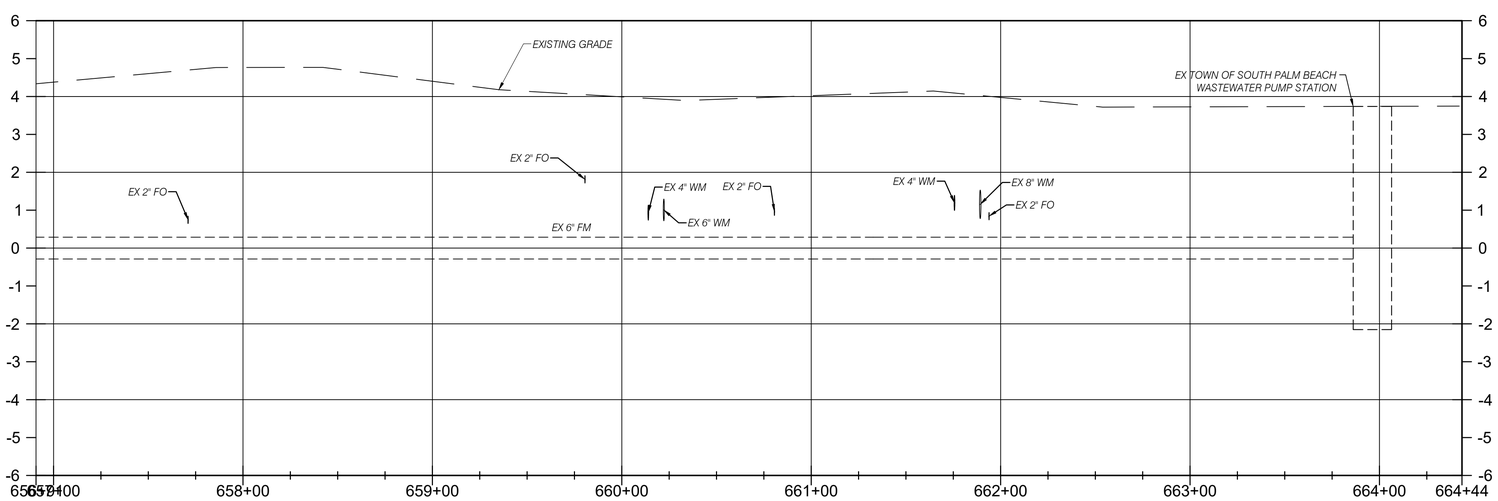
FEBRUARY 2023

C1-29

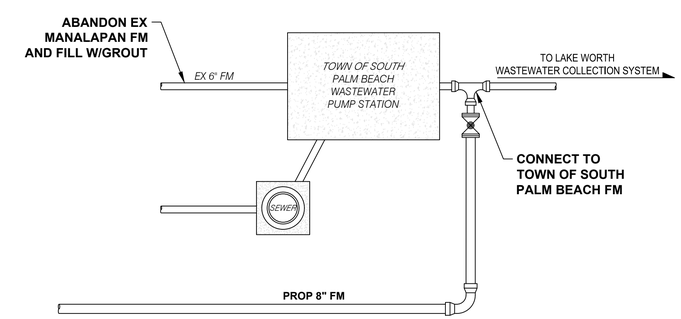




LOCATION AND KEY MAP
N.T.S.



HORIZONTAL
0 20 40 60 80
0 1 2 3 4
VERTICAL
GRAPHIC SCALE IN FEET



1 / C1-30 CONNECTION TO SOUTH PALM BEACH FORCEMAIN
NTS

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PLOT DATE: Feb 22, 2023 - 10:21am

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

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Adjust all scaled dimensions accordingly

No.	Date	By	Revision

SEAL
JOHN R. LEEMON
Florida P.E. No. 41645
Date

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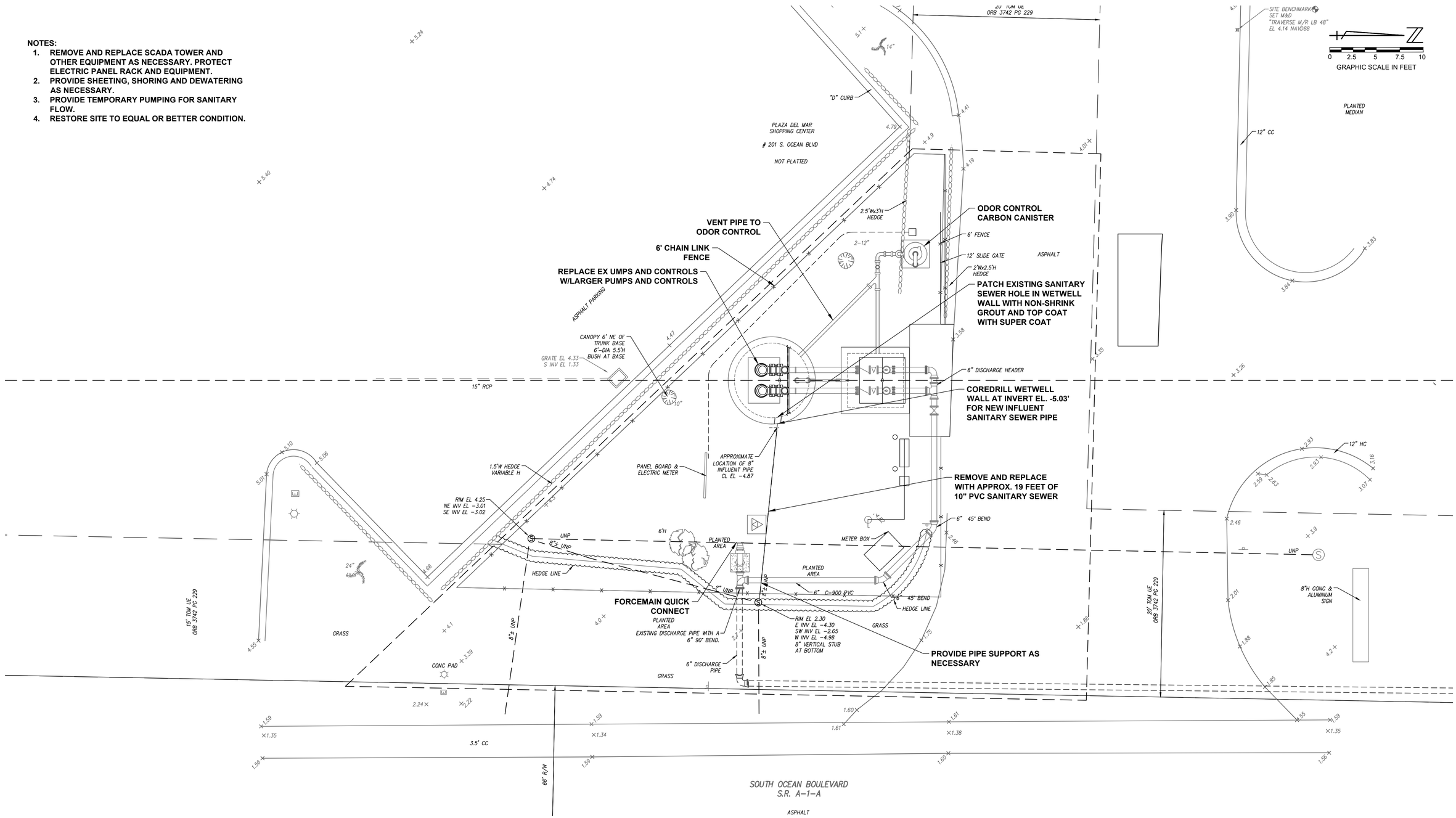
WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN
TOWN OF MANALAPAN, FL

PLAN AND PROFILE S OCEAN BLVD STA 656+91 TO 664+44

FEBRUARY 2023
C1-30

NOTES:

1. REMOVE AND REPLACE SCADA TOWER AND OTHER EQUIPMENT AS NECESSARY. PROTECT ELECTRIC PANEL RACK AND EQUIPMENT.
2. PROVIDE SHEETING, SHORING AND DEWATERING AS NECESSARY.
3. PROVIDE TEMPORARY PUMPING FOR SANITARY FLOW.
4. RESTORE SITE TO EQUAL OR BETTER CONDITION.



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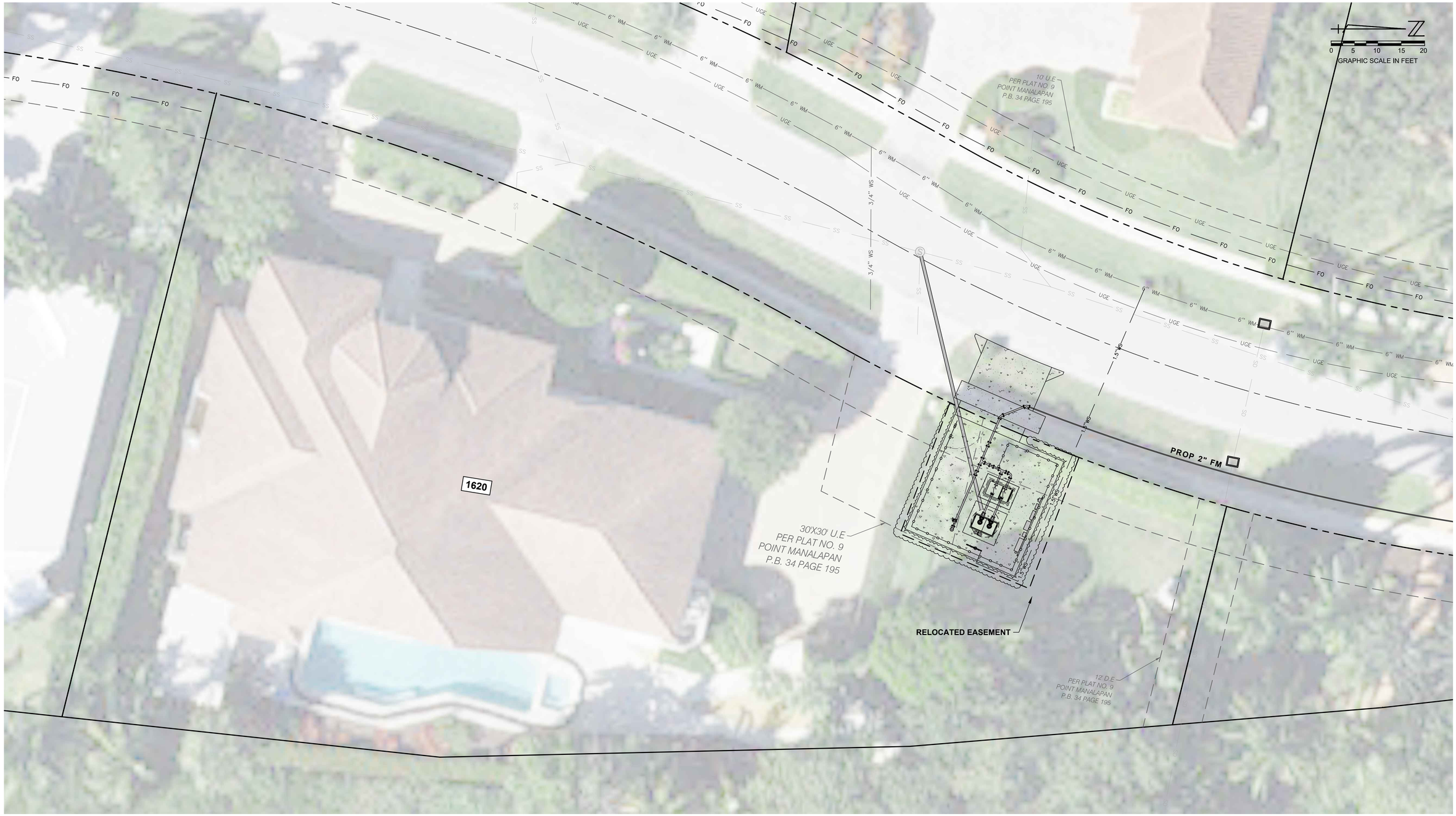
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

A1A PUMP STATION IMPROVEMENTS
SITE PLAN

JANUARY 2023

C1-31



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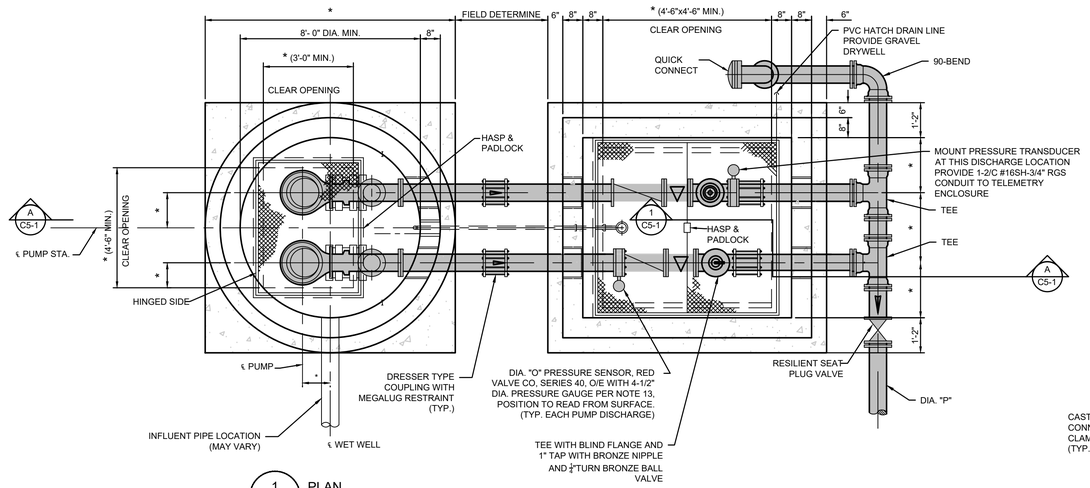
WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN

TOWN OF MANALAPAN, FL

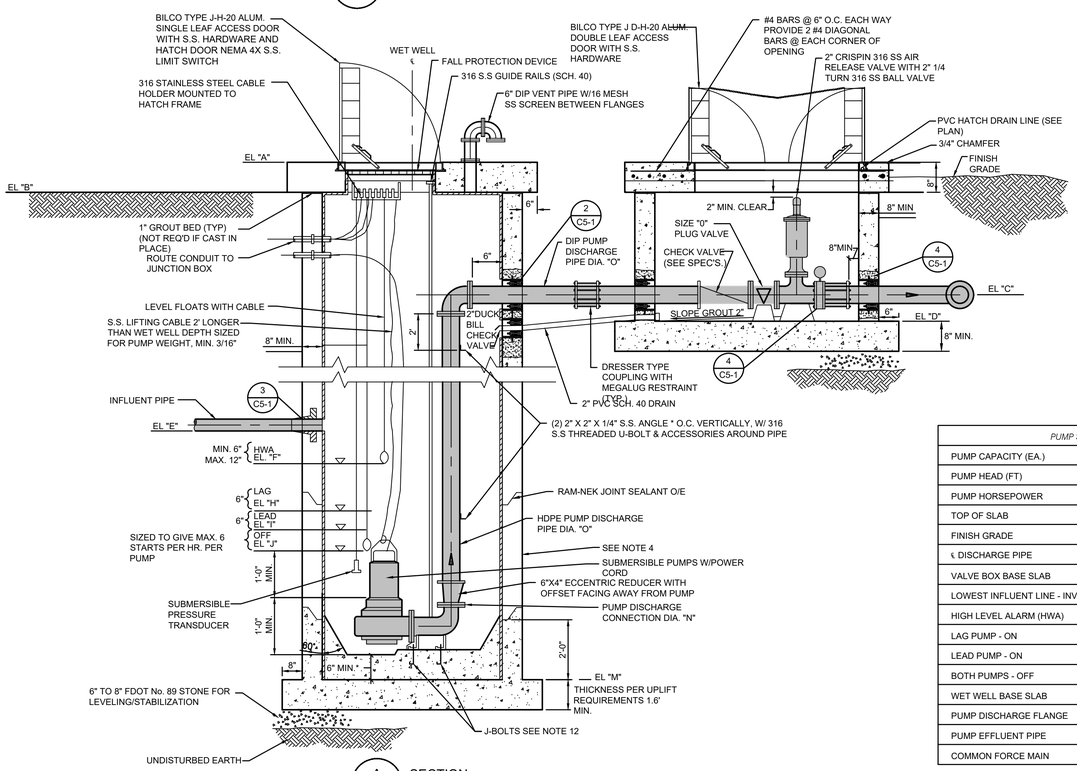
LANDS END ROAD WASTEWATER PUMP STATION SITE PLAN

FEBRUARY 2023

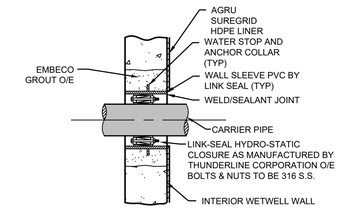
C1-32



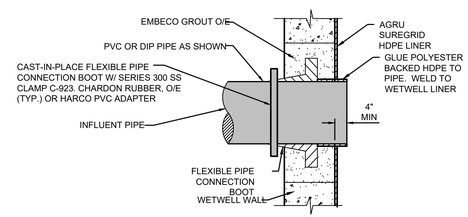
1 C5-1 PLAN NTS



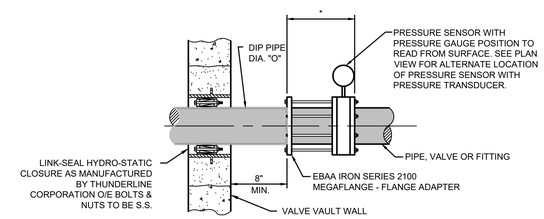
A C5-1 SECTION NTS



2 C5-1 TYPICAL WALL PENETRATION NTS



3 C5-1 INFLUENT PIPE WALL PENETRATION NTS



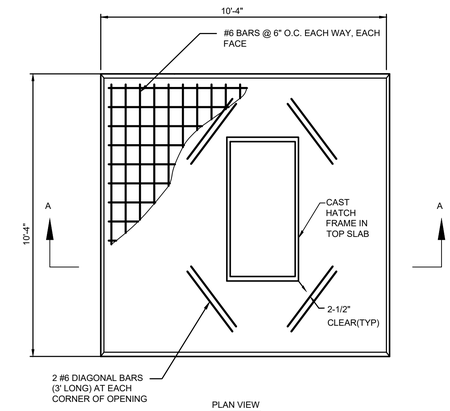
4 C5-1 DETAIL NTS

PUMP STATION DATA		
PUMP CAPACITY (EA.)		GPM
PUMP HEAD (FT)		FT
PUMP HORSEPOWER		HP
TOP OF SLAB	EL "A"	
FINISH GRADE	EL "B"	
℄ DISCHARGE PIPE	EL "C"	
VALVE BOX BASE SLAB	EL "D"	
LOWEST INFLUENT LINE - INVERT	EL "E"	
HIGH LEVEL ALARM (HWA)	EL "F"	
LAG PUMP - ON	EL "H"	
LEAD PUMP - ON	EL "I"	
BOTH PUMPS - OFF	EL "J"	
WET WELL BASE SLAB	EL "M"	
PUMP DISCHARGE FLANGE	DIA. "N"	
PUMP EFFLUENT PIPE	DIA. "O"	
COMMON FORCE MAIN	DIA. "P"	6"

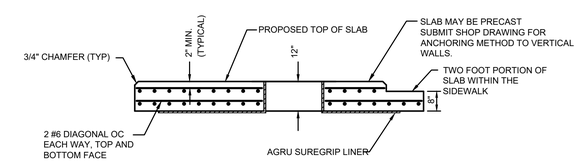
PUMP STATION DATA & ELEVATIONS

GENERAL NOTES

1. SYMBOL (*) DENOTES DIMENSION TO BE CONFIRMED WITH MANUFACTURERS SHOP DRAWINGS.
2. ALL EQUIPMENT, ANCHOR BOLT SIZES, LOCATIONS, CLEARANCES, ETC. SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPROVED SHOP DRAWINGS.
3. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL HAVE A BITUMASTIC COATING (2 COATS, 9 MILS EACH COAT DFT).
4. ALL STRUCTURES SHALL BE COATED ON THE EXTERIOR WITH KOPPERS 300M COAL TAR EPOXY.
5. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" MINIMUM.
6. ALL BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
7. TYPE 316 STAINLESS STEEL SHALL BE USED IN THE WET WELL FOR FLANGE BOLTS, BRACKETS, GUIDE RAILS AND ALL OTHER HARDWARE.
8. WET WELL SHALL BE CONSTRUCTED OF 8'- 0" MAX. LG. SECTIONS OF REINFORCED CONCRETE PIPE, IN ACCORDANCE WITH FDOT SPECIFICATIONS. WHENEVER POSSIBLE, NO OPENING SHALL BE WITHIN 12" OF THE END OF ANY SECTION.
9. ALL WETWELL SECTIONS INCLUDING TOP SLABS SHALL BE LINED WITH AGRU SUREGRIP HDPE LINER.
10. PUMP ACCESS HATCH CONFIGURATION & DIMENSIONS SHALL BE CONFIRMED W/ EQUIPMENT SUPPLIER. DIMENSIONS SHOWN ARE MINIMUM VALUES ONLY.
11. PIPING, VALVES AND FITTINGS IN VALVE VAULT AREA SHALL BE SUPPORTED AS DETERMINE IN THE FIELD BY THE ENGINEER OR HIS REPRESENTATIVE.
12. "J" - BOLTS TO BE USED (316 STAINLESS STEEL).
13. PRESSURE GAUGES SHALL BE TRERICE MODEL D-80 SERIES, BY MARSHALLTOWN. GAUGES SHALL BE DUAL SCALE AND SHALL BE CALIBRATED 0-50 PSI AND 115 FEET OF WATER. GAUGES SHALL HAVE 4-INCH DIAMETER DIALS. GAUGE CASES SHALL BE 304 STAINLESS STEEL, FLANGED MOUNTED, BACK OR BOTTOM CONNECTED WITH "SNAP-ON" RING OR BEZEL. BOURDON TUBES SHALL BE OF 316 STAINLESS STEEL. THE POINTERS SHALL BE ADJUSTABLE FOR FIELD CALIBRATION AND SETTING. EACH GAUGE SHALL BE EQUIPPED WITH A LEVER HANDLE GAUGE COCK OF 316 STAINLESS STEEL CONSTRUCTION. CONNECTION OF THE GAUGES SHALL BE WITH SCREWED 316 STAINLESS STEEL PIPE NEATLY INSTALLED WITH STRAIGHT RUNS AND RIGHT ANGLE BENDS.
14. MINIMUM WET WELL INTERNAL DIAMETER SHALL BE 8 FEET. THE DEPTH OF WET WELL SHALL BE SIZED TO ALLOW PUMPS TO HAVE NO MORE THAN 6 STARTS PER HOUR.
15. PROVIDE 3-1/2' CLEARANCE IN FRONT OF PANEL DISCONNECT AND METER.
16. CONTRACTOR HAS THE OPTION TO USE TREME CONSTRUCTION METHOD. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR TREME METHOD.



PLAN VIEW



SECTION A-A

5 C5-1 WETWELL TOP SLAB NTS

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Dwg. No. 45-43-02-34
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WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN

TOWN OF MANALAPAN, FL

LANDS END ROAD WASTEWATER PUMP STATION DETAILS

FEBRUARY 2023

C1-33

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WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN

TOWN OF MANALAPAN, FL

1385 LANDS END RD EXHIBIT

FEBRUARY 2023

C1-34

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WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

55 CURLEW RD
EXHIBIT

FEBRUARY 2023

C1-35

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P.A. No. A5060.88
Dwg. No. 45-43-02-34
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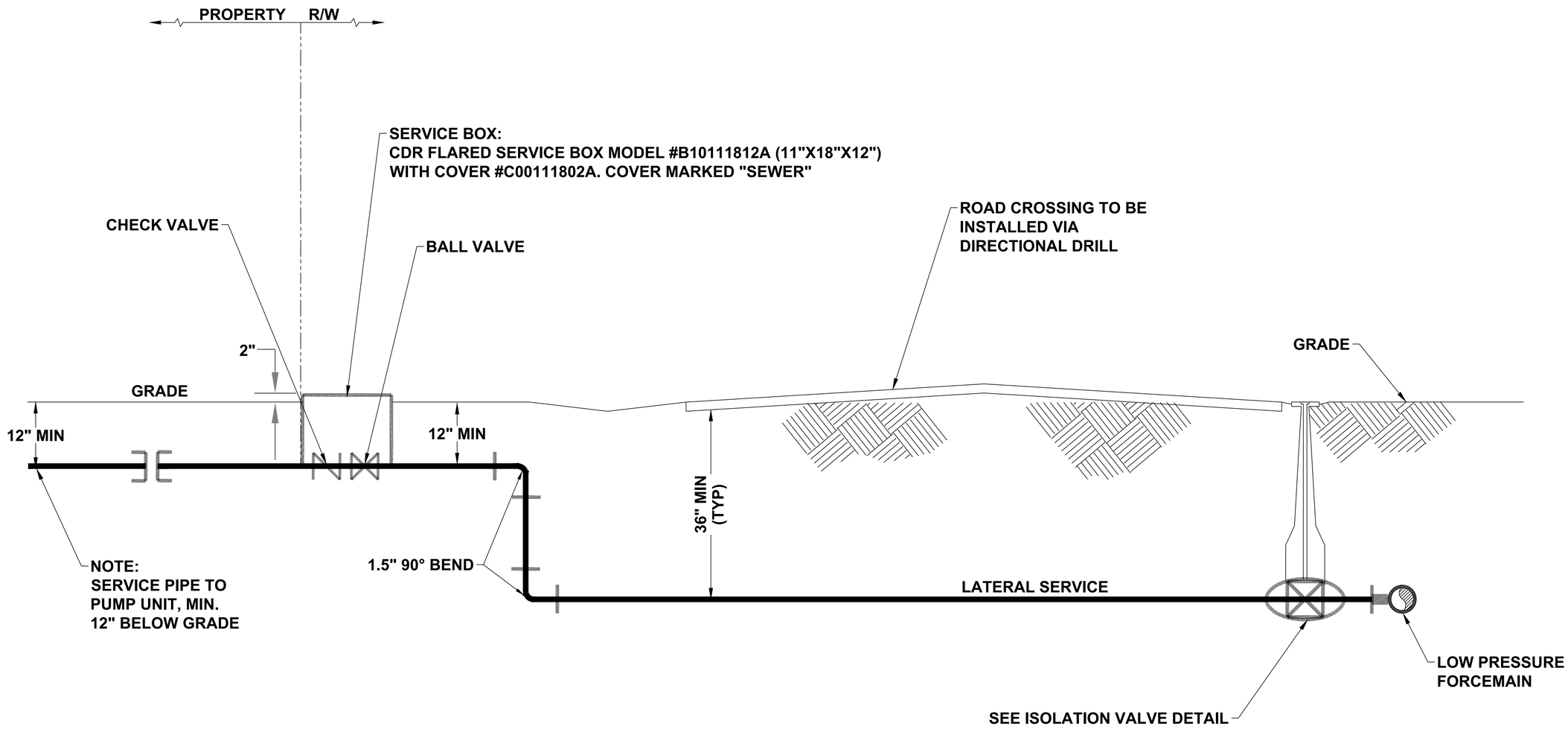
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

1680 S OCEAN BLVD
EXHIBIT

FEBRUARY 2023

C1-36



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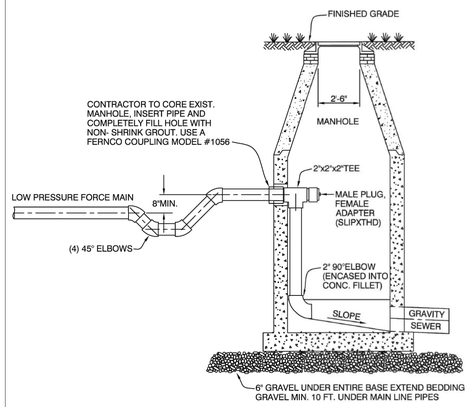
WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN

TOWN OF MANALAPAN, FL

TYPICAL RESIDENCE PUMP STATION AND FORCEMAIN INSTALLATION

FEBRUARY 2023

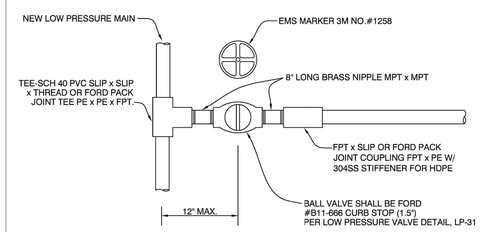
C1-37



NOTES:

1. ALL DROP PIPING INCLUDING TEE SHALL BE SCH 40 PVC.
2. WHEN ELEVATION OF LOW PRESSURE MAIN (LPM) AT MANHOLE IS HIGHEST POINT OF LPM, TRAP CAN BE ELIMINATED.
3. WHEN LOW PRESSURE FORCE MAIN IS HDPE TRANSITION TO PVC FOR TRAP WITH FORD PACK JOINT COUPLING PVC x PE WITH 304SS STIFFENER.

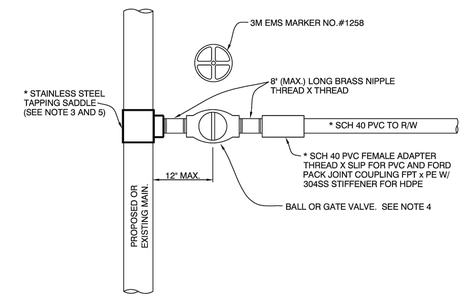
1 / C1-38 LOW PRESSURE MAIN INTO DEEP MANHOLE
NTS



NOTES:

1. EMS SHALL BE INSTALLED ON STREET SIDE OF TEE AND VALVE.
2. VALVE BOX WILL BE TYLER 141Q FOR 22"-30" DEPTH OR TYLER 142R FOR 30"-42" DEPTH. (SEE DETAIL #LP-31)
3. WHEN CUTTING INTO AN EXISTING FORCE MAIN LINE USE REPAIR TYPE SCH 80 PVC SLIP OR BRASS COMPRESSION COUPLINGS IMMEDIATELY UPSTREAM OR DOWNSTREAM OF TEE.

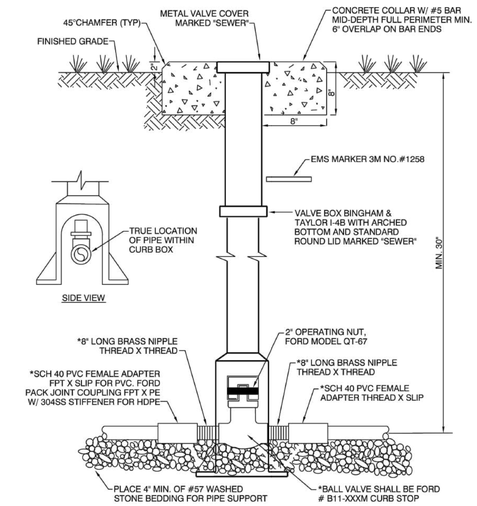
2 / C1-38 TYPICAL ISOLATION VALVE DETAIL
NTS



NOTES:

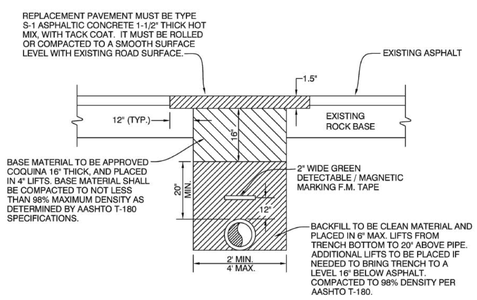
1. EMS SHALL BE INSTALLED ON STREET SIDE OF TEE AND VALVE.
2. PROVIDE VALVE BOX PER LP-31.
3. TAPPING SADDLES FOR TAPS 1-1/2 - 2-1/2" SHALL BE ROMAC MODEL 306 OR 306H. TAPPING SADDLES FOR TAPS LARGER THAN 2-1/2" SHALL COMPLY WITH SD-28
4. VALVES UP TO 2-1/2" SHALL BE FORD #B11-XXXM CURB STOP W/ 2" OPERATING NUT MODEL # QT67. 3" VALVES SHALL COMPLY W/ SECTION 130, PARAGRAPH 130.03.
5. FOR 2-1/2" AND SMALLER PVC MAINS USE SOCKET TEE AND BRASS COMPRESSION COUPLING. FOR 2-1/2" AND SMALLER HDPE MAINS USE FORD PACK JOINT TEE WITH FORD PACK JOINT COUPLING AND PVC SPOOL PIECE.

3 / C1-38 LOW PRESSURE TIE - IN DETAIL
NTS



*SIZE BY ENGINEER

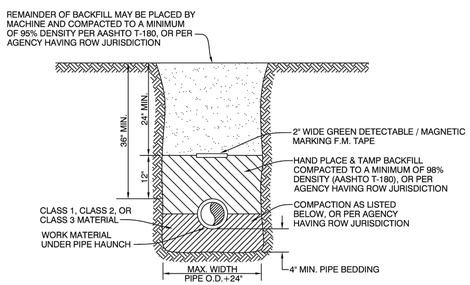
4 / C1-38 LOW PRESSURE VALVE DETAIL
NTS



NOTES:

1. SAW CUT ASPHALT BEFORE EXCAVATING.
2. COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTING EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL FOOT OF THE TRENCH FOR BACKFILL AND 1/2 GAL. PER LINEAL FOOT OF TRENCH FOR COQUINA BASE. WATER TO BE SPRINKLED EVENLY OVER TRENCH WIDTH.
3. IF EXCAVATION LEAVES LESS THAN 1' OF UNDISTURBED BASE BETWEEN TRENCH AND SAW CUT ASPHALT, ADDITIONAL WIDTH OF ASPHALT MUST BE CUT.

5 / C1-38 TYPICAL ROAD CROSSING REPAIR DETAIL
NTS



NOTES:

CLASS 1 MATERIAL - ANGULAR .25" TO .75" GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE).

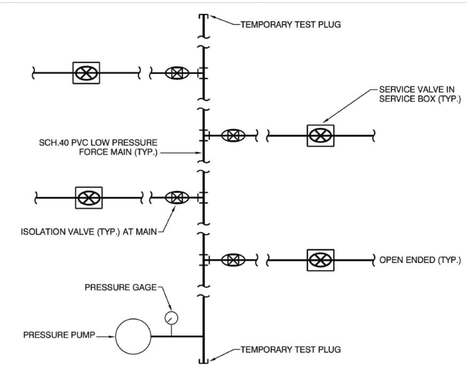
CLASS 2 MATERIAL - COURSE SAND AND GRAVEL'S WITH MAXIMUM PARTICLE SIZE OF .25 INCH WITH SMALL PERCENTAGE OF FINES COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVEL'S, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES, COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. INCLUDED IN CLASS 3 ARE EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL.

IF CLASS 1 MATERIAL IS USED FOR BEDDING, IT MUST BE USED FOR THE ENTIRE EMBEDMENT. A DRY TRENCH SHALL BE MAINTAINED WHEN USING CLASS 2 AND CLASS 3 MATERIAL.

DENSITY TESTING IS REQUIRED IN 1 FOOT LIFTS ABOVE PIPELINE AT INTERVALS OF 400' MAXIMUM.

6 / C1-38 TRENCH DETAIL
NTS



PLAN VIEW

NOTES:

1. CLOSE ALL SERVICE VALVES INSIDE SERVICE BOXES.
2. OPEN ALL ISOLATION VALVES AT MAIN.
3. PRESSURIZE SYSTEM & TEST TO 70 PSI FOR ONE (1) HOUR.
4. ONE AT A TIME, CLOSE ISOLATION VALVE @ MAIN AND BLEED OFF PRESSURE AT END CAP.
5. CHECK PRESSURE. PRESSURE SHOULD MAINTAIN 70 PSI
6. REPEAT STEP 4 AND 5 FOR EACH SERVICE CONNECTION.
7. SEE LOW PRESSURE DETAILS, LP-9 & LP-10 FOR TYPICAL LAYOUTS.

7 / C1-38 TESTING PROCEDURE
NTS

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Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL

JOHN R. LEEMON
Florida P.E. No. 41645

Date

MOCK • ROOS
CONSULTING ENGINEERS
5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com
Florida Reg. No. 48 Florida L.B. No. 48

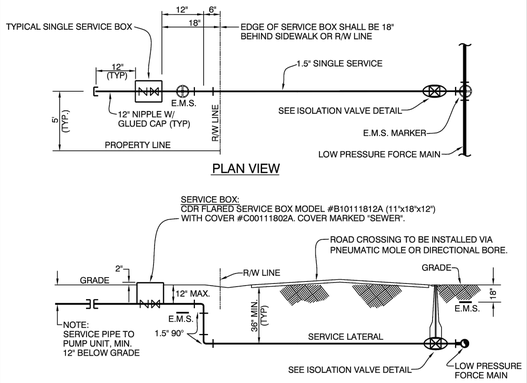
WASTEWATER COLLECTION & TRANSMISSION SYSTEM 30% DESIGN

TOWN OF MANALAPAN, FL

STANDARD DETAILS

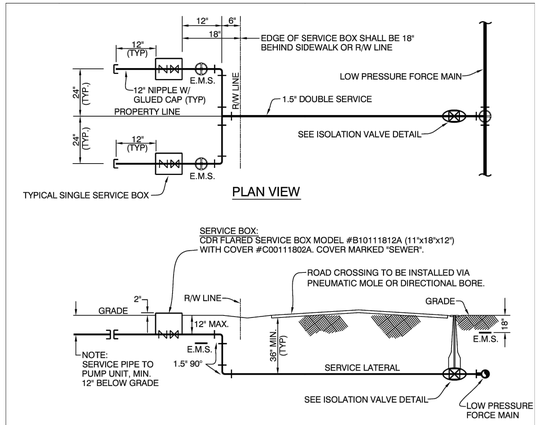
FEBRUARY 2023

C1-38



NOTES:
1. SERVICE LOCATIONS ON PLANS ARE APPROXIMATE. INSTALLED LOCATIONS TO BE COORDINATED WITH EXISTING ONSITE PLUMBING OR PROPOSED ONSITE CONSTRUCTION.
2. BALL VALVES SHALL BE FORD MODEL #B11-666M WITH 2" BRASS OPERATING NUT.
3. ALL CHECK VALVES SHALL BE PROFLO MODEL PFX31.
4. ALL PIPING IN AND 6-INCHES BEYOND THE SERVICE BOX SHALL BE SCH 80 PVC.
5. INSTALL MINIMUM 4" OF NO 57 WASHED STONE BENEATH ALL SERVICE BOXES AND VALVE BOXES AND AROUND ALL PIPE PENETRATIONS THROUGH SERVICE BOXES.
6. FOR HDPE TO PVC TRANSITIONS USE FORD PACK JOINT COUPLING PVC X PE W/ 304SS STIFFENER.

1 C1-39 TYPICAL SINGLE SERVICE SCHEMATIC
NTS



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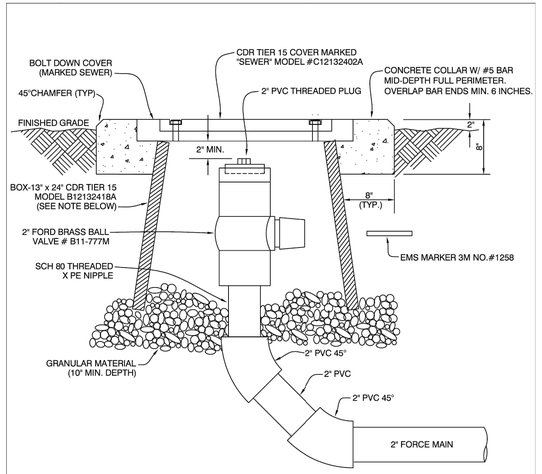
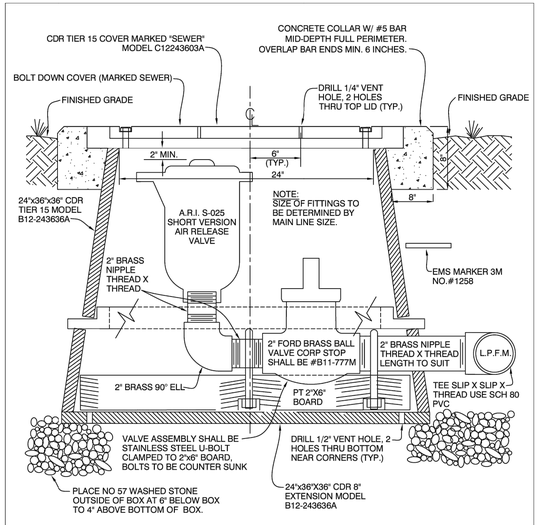
6. FOR HDPE TO PVC TRANSITIONS USE FORD PACK JOINT COUPLING PVC X PE W/ 304SS STIFFENER.

2 C1-39 TYPICAL DOUBLE SERVICE SCHEMATIC
NTS



NOTES:
1. IN PAVED AREAS, USE NO. PB16"x24"x24" DEEP x 4" WALLS AND 4" FLOOR, AND NO. PB1624 TRAFFIC COVER DESIGNED FOR HS-20-44 TRAFFIC RATED BY BROOKS PRODUCTS INC.
2. INSTALL MIN. 4" OF NO 57 WASHED STONE BENEATH ALL TERMINAL END FLUSHING PORT BOXES.
3. ALL PIPING IN AND 6 INCHES BEYOND BOX SHALL BE SCH 80 PVC.
4. FOR HDPE TO PVC TRANSITIONS USE FORD PACK JOINT COUPLING PVC x PE W/ 304SS STIFFENER.

3 C1-39 TERMINAL FLUSHING PORT DETAIL
NTS



NOTE:
IN PAVED AREAS, USE NO. PB24"x36"x36" DEEP x 4" WALLS AND 4" FLOOR, AND NO. PB2436 TRAFFIC COVER DESIGNED FOR HS-20-44 TRAFFIC RATED BY BROOKS PRODUCTS INC.

4 C1-39 AIR / VACUUM VALVE DETAIL
NTS

CADD File: F:\manal\manawx30\CADD\DWG\WW30CS01_C1-38.dwg
PLOT DATE: Feb 22, 2023 - 10:22am

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88
P.A. No. A5060.88
Dwg. No. 45-43-02-34
Location: MANALAPAN, FL

No.	Date	By	Revision

SEAL
JOHN R. LEEMON
Florida P.E. No. 41645
Date

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WASTEWATER COLLECTION & TRANSMISSION SYSTEM
30% DESIGN
TOWN OF MANALAPAN, FL

STANDARD DETAILS

FEBRUARY 2023
C1-39

TOWN OF MANALAPAN
AGENDA ITEM SUMMARY

Meeting Date: February 28, 2023

Agenda Item No.: RA 2

Agenda Item Name: Lands End Road Cul de Sac Improvements

ACTION REQUESTED: Discussion ☐ Action ☐

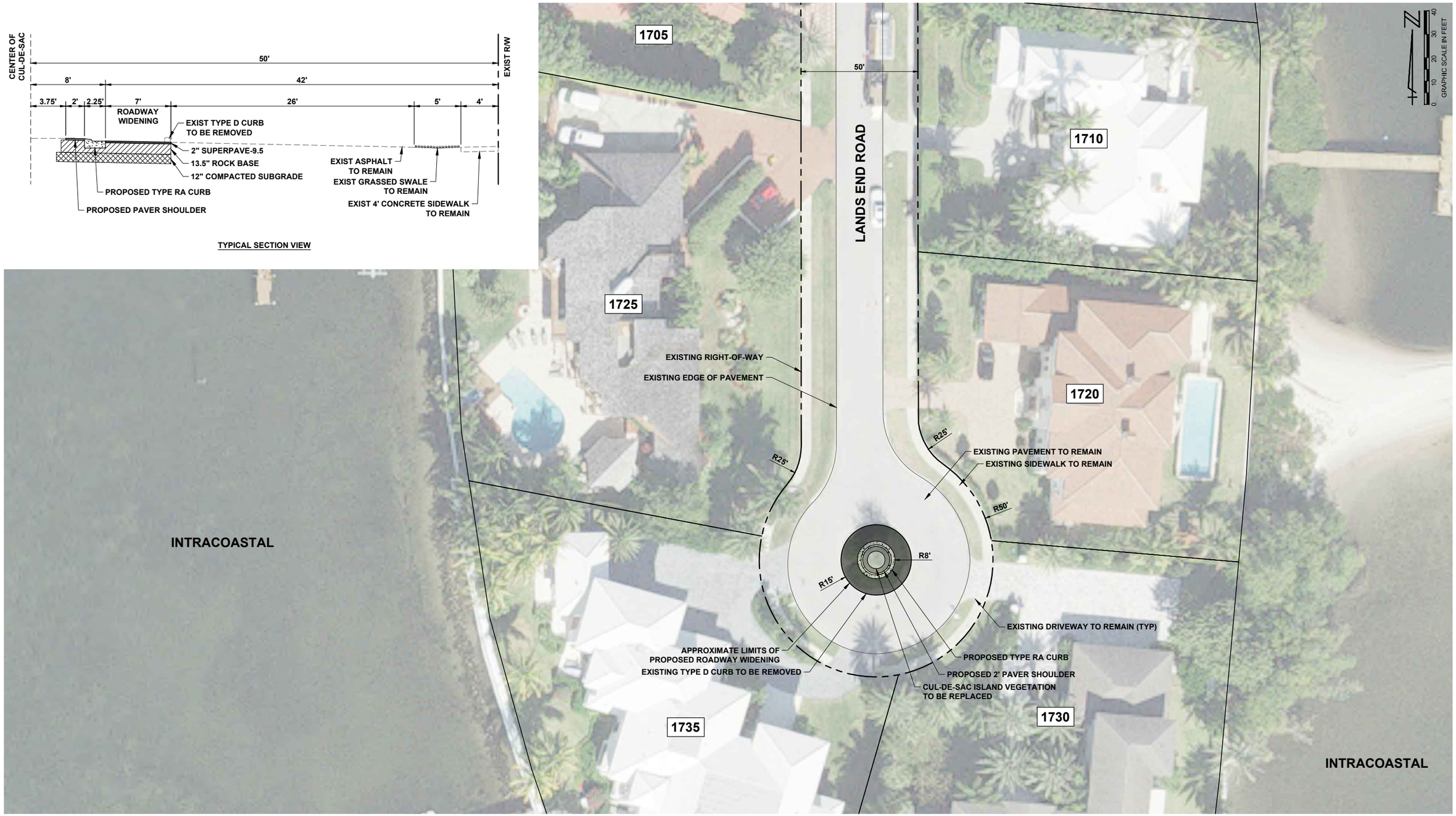
BACKGROUND:

Town Manager Stumpf addressed the condition of the Lands End Cul de Sac at the January meeting. She indicated that she had discussed the improvements with the neighbors adjacent to the Cul de Sac for input. Mock Roos was directed to develop the construction drawings and bid documents.

ATTACHMENT:

- Lands End Road Cul de Sac Renovation drawings from Mock Roos

TYPICAL SECTION VIEW



CADD File: F:\mana\managincs CAD DWG\LANDS END CUL-DE-SAC CS01 MD02.dwg
PLOT DATE: Feb 08, 2023 - 11:48am ( )

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum:

P.A. No.
A5060.87

Dwg. No.

Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision

SEAL

THOMAS A. BIGGS
Florida P.E. No. 34405

Date

MOCK • ROOS
CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48 Florida L.B. No. 48

LANDS END ROAD
CUL-DE-SAC
RENOVATION

EXHIBIT

JANUARY 2023

EX-01

TOWN OF MANALAPAN
AGENDA ITEM SUMMARY

Meeting Date: February 28, 2023

Agenda Item No.: RA 3

Agenda Item Name: Water Plant Equipment Improvements

ACTION REQUESTED: Discussion ☐ Action ☐

BACKGROUND:

The Town replaced three of the four high service pumps in 2018. The fourth pump was in good working order so it was determined to delay the replacement. Three quotes are attached for your review. Staff is recommending purchasing the pump from Hudson Pump. Staff is also recommending piggybacking on the continuing contract with the Village of Wellington for the installation of the pump by Murray Logan. This is the contractor that installed the original three pumps.

ATTACHMENT:

- Replacement of Booster Pump #4 recommendation from Mock Roos
- Quote from Hudson Pump & Equipment Company
- Quote from Neiman Electric Motor, Inc
- Quote from Sugar Manufacturer's Supply Corporation

MOCK • ROOS
CONSULTING ENGINEERS

February 2, 2023

Via email: bwatson@manalapan.org

Brent Watson
Town of Manalapan
600 South Ocean Blvd.
Manalapan, FL 33467-3398

Ref. No.: A5060.87
Subject: Replacement of Booster Pump #4

Innovative Solutions
Personalized Service
Since 1974

Dear Brent:

We have received three quotes for the replacement pump #4 at the booster pump station at the library. The proposed replacement pump is a Xylem Vertical Turbine Pump, Model VIC-FLTM 8RJLC. The following are the quotes received:

1. Hudson Pump & Equipment Company - $58,200
2. Neiman Electric Motor, Inc. - $63,900
3. Sugar Manufacturers Supply Corporation - $73, 250

We have reviewed the information and technical data furnished by Hudson Pump and Equipment Company. Based on this review, we believe that proposed pump will satisfactorily supply the needs as the booster station. As such, we recommend purchase of this pump from Hudson Pump & Equipment Company.

In addition, the Town will need to obtain installation cost for this pump. Previously we had discussed having Murray Logan Construction, Inc. install the pump. They have a current continuing contract with the Village of Wellington that the Town could piggyback from. If you wish us to assist with this, please let us know.

If you have any questions or comments regarding this recommendation or the project, please call me at 683-3113, extension 258.

Sincerely,

MOCK, ROOS & ASSOCIATES, INC.

John R. Leemon, P.E.
Senior Project Manager

JRL:tsm

Cc: Thomas A. Biggs, P.E

Hudson
Pump & Equipment
A Division of Tencarva Machinery Company

3524 Craftsman Blvd
Lakeland, Fl. 33803

1095 Jupiter Park Drive
Jupiter, Fl. 33458

3006 Mercury Road
Jacksonville, Fl. 32207

Tel: (800) 780-7867 •
Fax: (863) 666-5649
Jax Fax: (904) 733-8204
Jupiter Fax: (561) 745-3857

Company:	Mock Roos	Date:	01/11/23
Attn.:	John Leemon	No. Pages:	
Location:	Manalapan	Quote No.:	011123
Phone:	561-472-6258		
e-mail:	John.leemon@mockroos.com	Terms:	Net 30 WAC
		F.O.B.:	Delivered
From:	Chuck McCaughey	Delivery:	22-26 weeks ARO

Conditions of Service:

Water : 400 GPM @ 60 psig (139 TDH)

We are pleased to quote as follows:

Qty.	Description	Price Each	Est. Wt.
1	Xylem Vertical Turbine Pump Model VIC-FLTM 8RJLC – 2 stage Carbon Steel Bowl with 316 SS Impellers Includes “FL” Style, Fabricated Discharge Head with sub-base, Bowl Assembly, Column Assembly and Can Includes Motor and Motor Coupling 25 HP, 3600 rpm, 3/60/460 volt Freight included in price Start Up Included See attached for details. **Quotation valid for 30 days.**	$58,200.00	TBD

Chuck McCaughey

Chuck McCaughey

NIEMAN ELECTRIC MOTOR, INC.
3945 American Plaza Blvd
P O Box 2300
Land O Lakes, Florida 34639
813-996-3911 Fax: 813-996-5822
www.niemanemi.com email: NiemanEMI@aol.com

QUOTE

Quote #: 23-02014
Date: 2/1/2023
Terms: C.O.D.
PO#

Bill To:	Job Name:
CASH SALE CUSTOMER	Mock Ross John Leemon 561-472-6258

Description	Amount	Tx
Xylem Vertical Turbine Pump Model VIC-FLTM 8RJLC- 2 stage Carbon Steel Bowl with 316 SS Impellers 25HP, 3600RPM, 3/60/460 V (Freight Included)	$63,900.00	

We appreciate your business!

This Price Quote is good for 30 Days from date of Quote and we reserve the right to correct errors and/or omissions. All new sales are at the direction of the manufacturer and the ship date is just an estimated time of arrival.
NOTE: ANY PUMP OR MOTOR left at Nieman Electric Motor, Inc. over 90 DAYS WITHOUT job approval WILL BE SCRAPPED.

Price quoted does not include Machine Work nor any other parts than those described specifically above.
Quoted by:_____,Keith Nigro, President

Quote Accepted this ____day of _____20____
Signature:_____
Print Name:_____
PO#_____ (if Applicable)

Freight:	$0.00
Sales Tax:	$0.00
Total	$63,900.00
Amount	$0.00
Balance Due:	$63,900.00

Sugar Manufacturers Supply Corporation

P.O. Box 6127
WPB, FL 33405
P. 561-585-8679
F. 561-585-9891
sales@sugarmanuf.com

2/1/2023

RE: Vertical Turbine Pump

Mr. Leemon,

IT is my pleasure to submit for your review the following proposal for the supply of Xylem Vertical Turbine pump.

Conditions of service:

Flow: 400GPM
Pressure: 60psig

Proposal:

1 Each Xylem Vertical Turbine Pump
Model VIC-FLTM 8RJLC – 2 Stage
Carbon Steel Bowl W/316SS impellers
Incl. "FL" Style, Fabricated discharge head with sub-base
Bowl assembly, column assembly and Can
Complete with 25HP, 3600RPM 3/60/460v motor and coupling

Price: $72,750

Delivery: 30-34 Weeks

Freight: PPD and ADD

Terms: 50% with order, 50% prior to shipment

No start up is included in the above pricing.

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

Kind regards

Yuri Tarafa

Quotation valid for 15 days.

TOWN OF MANALAPAN
AGENDA ITEM SUMMARY

Meeting Date: February 28, 2023

Agenda Item No.: RA 4

Agenda Item Name: Town Manager Stumpf's Report

ACTION REQUESTED: Discussion ☐ Action ☐

BACKGROUND:

- Code Enforcement Log
- COVID update
- Intracoastal Crossing update