

BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY

BAY PARK MARINA IMPROVEMENTS

CONTRACT NO. XXX



JANUARY 2024

MAYOR

JOHN McCORRISTIN

BOROUGH COUNCIL

JAMIE McDERMOTT, PRESIDENT

MARI COSKEY, VICE PRESIDENT

GREG JOHNSON

BARBARA JUZAITIS

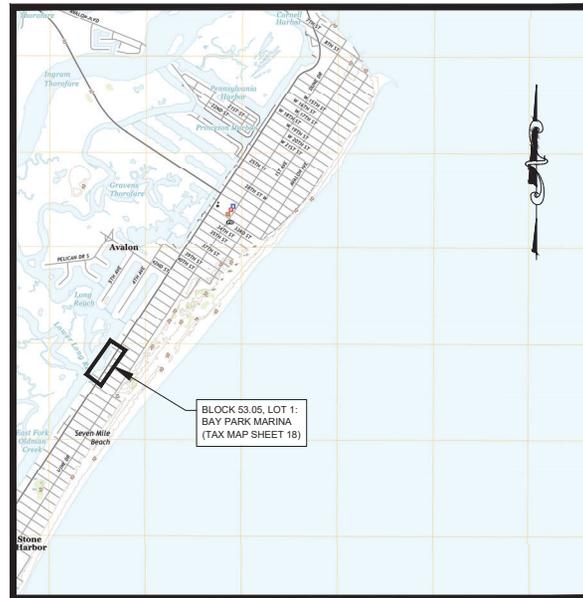
SAM WIERMAN

BOROUGH ADMINISTRATOR

SCOTT J. WAHL

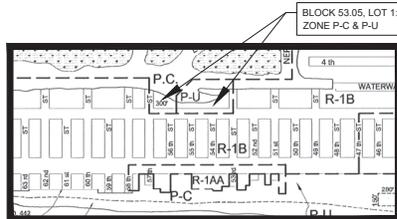
BOROUGH CLERK

DANIELLE NOLLETT, RMC/CMR



BLOCK 53.05, LOT 1:
BAY PARK MARINA
(TAX MAP SHEET 18)

LOCATION MAP
No Scale



ZONING MAP
No Scale

M M
MOTT
MACDONALD

Certificate No. 24GA28016600
3 Paragon Way
Freehold, NJ 07728
T +1 (609) 465 9377 F +1 (609) 465 5270

E-1

PUBLIC UTILITIES

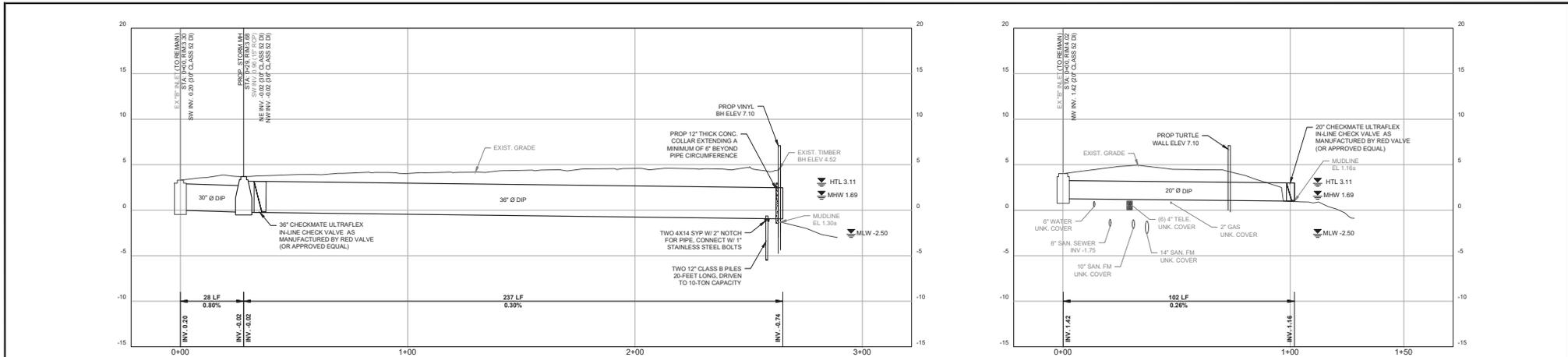
SANITARY SEWER & WATER	UTILITY SERVICE AFFILIATES 1401 DUNE DRIVE AVALON, NJ 08202 732.754.0285 - BUSINESS HOURS 609.692.5443 - AFTER HOURS
	CAPE MAY COUNTY M.U.A. P.O. BOX 910 CAPE MAY COURT HOUSE, NJ 08210 609.465.8026 ATTN: THOMAS J. LAROCCO, P.E.
GAS	SOUTH JERSEY GAS COMPANY 1708 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609.465.2600 ATTN: WILLIAM WENGER
ELECTRIC	ATLANTIC CITY ELECTRIC COMPANY 420 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609.463.3817 ATTN: THOMAS C. RINCK
TELEPHONE	VERIZON ENGINEERING DEPARTMENT 10 TANSBORD ROAD FLOOR 2 BERLIN, NJ 08009 609.497.2115 ATTN: ELLIOT BATTERMAN
CABLE TV	COMCAST CABLE SERVICES 609.677.7332 ATTN: BOB MAYELUX
CAPE MAY COUNTY ROADS	CAPE MAY COUNTY DEPARTMENT OF PUBLIC WORKS 4 MOORE ROAD CAPE MAY COURT HOUSE, NJ 08210 609.465.1025 ATTN: ROBERT CHURCH, P.E.

INDEX OF DRAWINGS

B/O	SHEET	DESCRIPTION	DATE	REVISED
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3	D101	DEMOLITION PLAN	11-30-23	
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5	LA-2	SITE PLAN - KAYAK BEACHES/SHRIMP PIER (5TH STREET)	11-27-23	03-27-24
6	LA-3	SITE PLAN - OCEAN DRIVE FRONTAGE (55TH TO 57TH STREETS)	11-27-23	03-27-24
7	LA-4	SITE PLAN - BOAT RAMP/MARINA AREA (54TH TO 56TH STREETS)	11-27-23	03-27-24
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10	SD-2	CONSTRUCTION DETAILS	11-27-23	03-27-24
11	SD-3	CONSTRUCTION DETAILS	11-27-23	03-27-24
12	SD-4	CONSTRUCTION DETAILS	11-27-23	03-27-24
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14	A2-1	PROPOSED ELEVATIONS	10-26-23	
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16	C102	UTILITY AND STORMWATER IMPROVEMENTS PLAN (SHEET 2 OF 2)	11-30-23	03-28-24
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49	S305	SECTIONS (5 OF 5)	11-30-23	

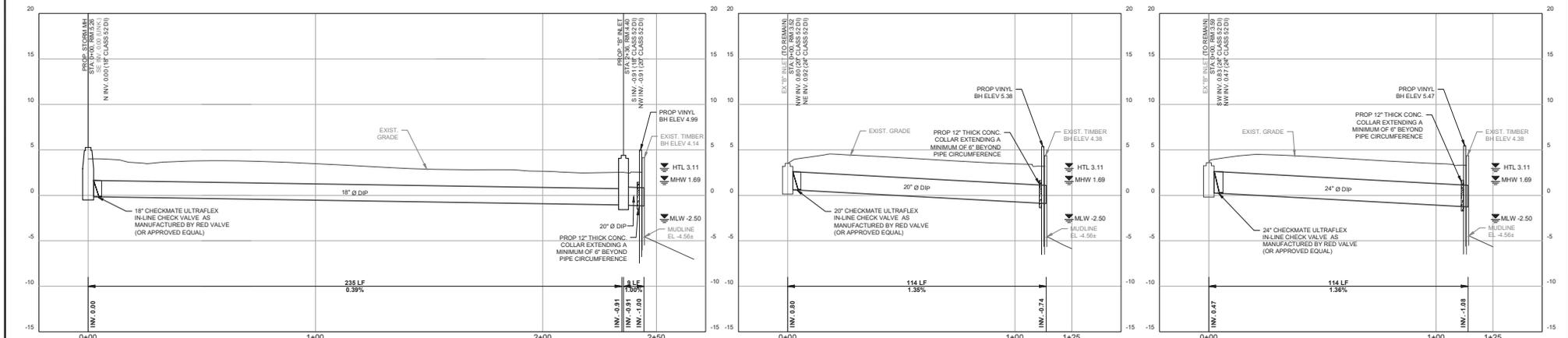
THOMAS R. THORNTON
Professional Engineer
N.J. License No. 24GE04177000





OUTFALL #1 ALIGNMENT

OUTFALL #2 ALIGNMENT



OUTFALL #3 ALIGNMENT

OUTFALL #4 ALIGNMENT

OUTFALL #5 ALIGNMENT

TIDAL DATUMS	
SPRING HIGH TIDE (SAT)	3.11
MEAN HIGHER-HIGH WATER (MHHW)	2.08
MEAN HIGH WATER (MHW)	1.69
NGVD25	1.30
NAVD83 (PLAN DATUM)	0.00
MEAN SEA LEVEL (MSL)	-0.32
MEAN LOW WATER (MLW)	-2.50

NOTE:
 DEPTHS OF WATER MAIN AND GAS MAIN ARE UNKNOWN AND ARE SHOWN BASED UPON TYPICAL DEPTHS. THE LOCATION OF THESE UTILITIES IN THE PROFILE VIEW ARE SHOWN FOR DISPLAY PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DIG TEST PITS TO DETERMINE THE ACTUAL DEPTHS OF ANY CONFLICTING UTILITIES PRIOR TO ORDERING ANY MATERIALS.

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SCALE: 1" = 20'
 HORIZONTAL

PROFILE

SCALE: 1" = 0'
 VERTICAL



OUTFALL #1 PENETRATION DETAIL

OUTFALL #3-6 PENETRATION DETAIL

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Avalon
 -powered by its water-

Rev	Date	Drawn	Description	WAB	WAB
1	03/29/24	RML	USACE Revisions.	WAB	WAB

THOMAS R. THORNTON
 NJ PROFESSIONAL ENGINEER LIC. No. 24GE04177000

Date: 11/30/23

Project Number: 507103996-019

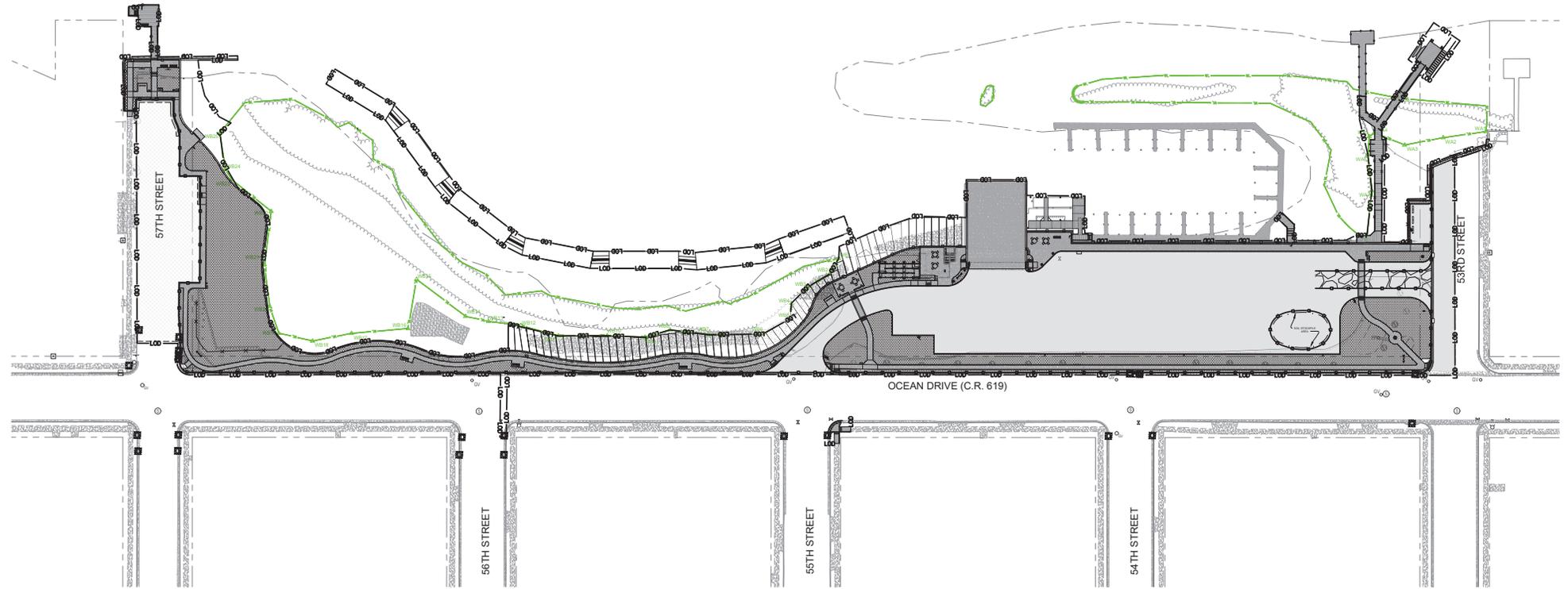
B/O: 17 Total: 49

Designed	RML	Eng check	KN/SAC
Drawn	RML	Coordination	
Design check	RML	Approved	TRT
Scale at ARCH D	Status	Rev	Security
As Shown	PERMIT	Rev0	STD
Drawing Number		C103	

Title: **BOROUGH OF AVALON BAY PARK MARINA IMPROVEMENTS CIVIL OUTFALL PROFILES**



LONG REACH CHANNEL



LEGEND

- PROP. INLET PROTECTION
- PROP. SILT FENCE
- PROP. LIMIT OF DISTURBANCE
- PROP. SOIL RESTORATION AREA
- STABILIZED CONSTRUCTION ENTRANCE/EXIT

PLAN

SCALE: 1" = 40'

- NOTES:**
1. THE HORIZONTAL COORDINATE SYSTEM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83) AND VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDBS).
 2. PLANIMETRIC INFORMATION IS BASED UPON FIELD SURVEYS CONDUCTED ON JANUARY 19 & 25, 2022 BY MOTT MACDONALD.
 3. THE NORTHERLY ROW LINE OF 53RD STREET AND THE SOUTHERLY ROW LINE OF 57TH STREET ARE BASED OFF A SURVEY CONDUCTED BY MOTT MACDONALD ON 2/18/2022. THE OUTER (MARSH) LOT LINE OF BLOCK 53.05, LOT 1 WAS TAKEN FROM THE NJ GEOGRAPHIC INFORMATION NETWORK. ALL OTHER ROW LINES SHOWN ARE TAKEN FROM AVALON TAX MAP SHEET 18.
 4. THE WETLANDS LINES SHOWN WERE DELINEATED IN THE FIELD BY MOTT MACDONALD ON JANUARY 19, 2022.

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Client

BOROUGH OF AVALON
 CAPE MAY COUNTY, NJ 08202

Rev	Date	Drawn	Description	Chk'd	App'd
1	03/28/24	RML	USACE Revisions.	WAB	WAB

THOMAS R. THORNTON
 NJ PROFESSIONAL ENGINEER LIC. No. 24GE04177000

Date: 11/30/23

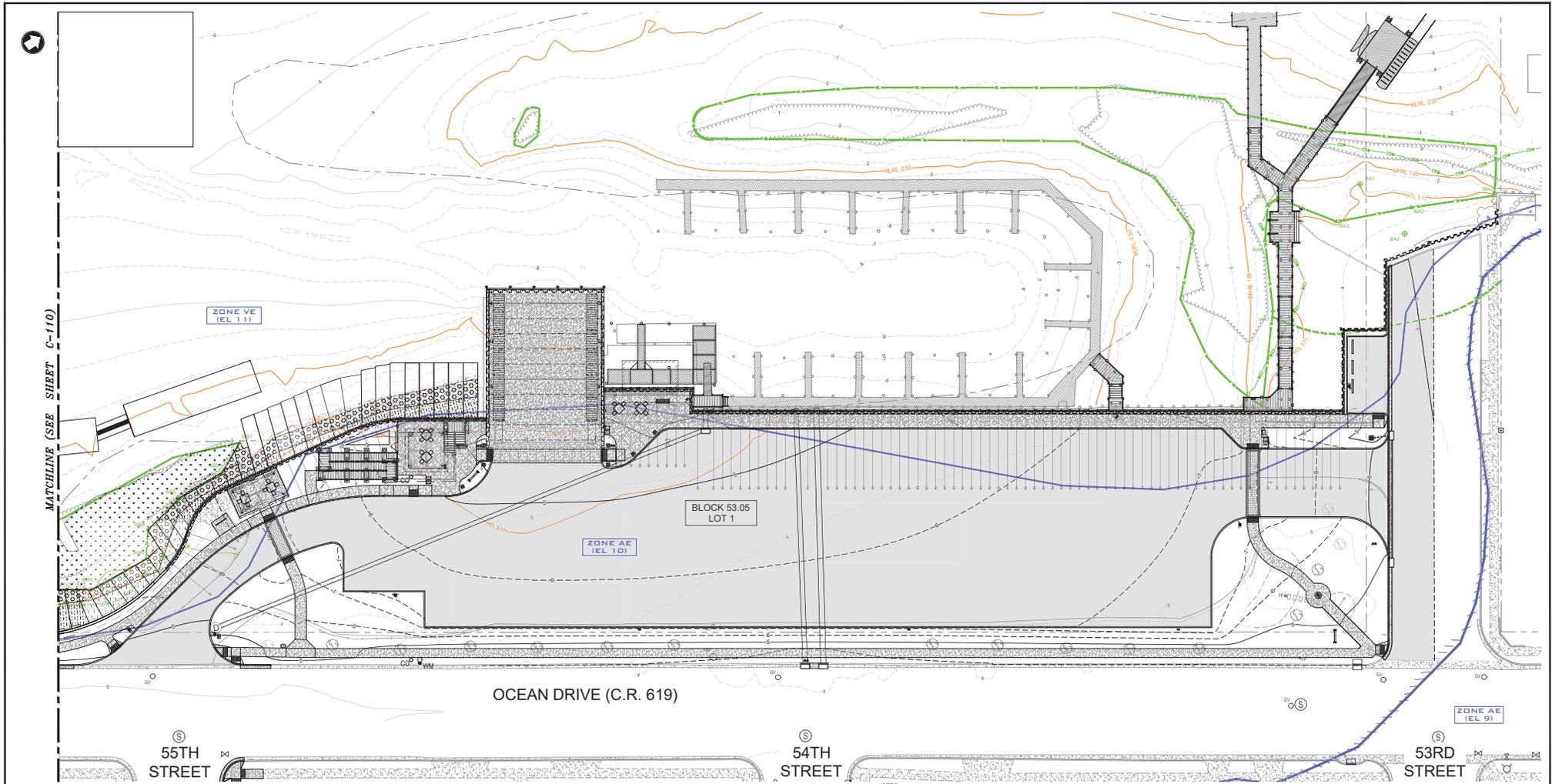
Project Number: 507103996-019



Designed	RML	Eng check	SAC
Drawn	RML	Coordination	
Design check	RML	Approved	TRT
Scale at ARCH D	Status	Rev	Security
As Shown	PERMIT	Rev0	STD
Drawing Number		C106	

Title

BOROUGH OF AVALON
 BAY PARK MARINA IMPROVEMENTS
 CIVIL
 SOIL EROSION AND SEDIMENT
 CONTROL PLAN



TIDAL DATUMS	
SPRINGS HIGH TIDE (SHT)	3.11
MEAN HIGHER HIGH WATER (MHHW)	2.98
MEAN HIGH WATER (MHW)	1.89
NGVD25	1.30
NAVD83 (PLAN DATUM)	0.00
MEAN SEA LEVEL (MSL)	-0.32
MEAN LOW WATER (MLW)	-2.50

*BASED ON STATION ID: 833581 STONE HARBOR, GREAT CHANNEL, NJ

LEGEND

- 0 EXIST. MAJOR CONTOUR (5)
- 1 EXIST. MINOR CONTOUR (1')
- 0 PROP. MAJOR CONTOUR (5)
- 1 PROP. MINOR CONTOUR (1')
- EXIST. TIDAL LINES (SEE TIDAL DATUM TABLE)
- MM DELINEATED WETLANDS LINE
- TIDELANDS CLAIM LINES
- FEMA FLOOD HAZARD BOUNDARY
- FEMA LMFVA LINE
- 1970'S MAPPED NDEP UPPER WETLANDS BOUNDARY
- 50' FRESHWATER WETLANDS TRANSITION BUFFER LINE



NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED IN THE FIELD BY MOTT MACDONALD ON JANUARY 19 & 25, 2022. HYDROGRAPHIC INFORMATION SHOWN WAS OBTAINED BY HYDROGRAPHIC SURVEY CONDUCTED BY MOTT MACDONALD ON OCTOBER 13 & 15, 2021.
2. THE HORIZONTAL COORDINATE SYSTEM IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83) AND VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. PLANIMETRIC INFORMATION IS BASED UPON FIELD SURVEYS CONDUCTED ON JANUARY 19 & 25, 2022 BY MOTT MACDONALD.
4. THE WETLANDS LINES SHOWN WERE DELINEATED IN THE FIELD BY MOTT MACDONALD ON JANUARY 19, 2022. THE FRESHWATER WETLANDS AND WATER BOUNDARY LINES HAVE BEEN VERIFIED BY THE NDEP. AN LIDAR VERIFICATION WAS ISSUED ON MARCH 20, 2023 UNDER NDEP FILE NO. 1920-13-0023-3-1102002.
5. THE UPPER WETLANDS BOUNDARY SHOWN IS FROM THE NDEP 1970 WETLANDS BASE MAPS.
6. THE TIDELANDS CLAIM LINES SHOWN ARE FROM THE NDEP DIGITAL DOWNLOAD GIS SHAPE FILES.
7. DELINEATED WETLANDS POINTS W1 TO W3 AND W815 TO W825 ARE LANDWARD OF THE TIDAL MARSH 'UPPER WETLANDS BOUNDARY' AND WERE ASSUMED TO BE REGULATED UNDER THE FRESHWATER WETLANDS PROTECTION ACT.
8. FLOOD ZONE BOUNDARY INFORMATION WAS TAKEN FROM FEMA'S NATIONAL FLOOD HAZARD LAYER (NFHL). REFERENCE FIRM MAP NUMBER 340802025F, EFFECTIVE DATE OCTOBER 5, 2017.
9. THE NORTHERLY ROW LINE OF 53RD STREET AND THE SOUTHERLY ROW LINE OF 57TH STREET ARE BASED OFF A SURVEY CONDUCTED BY MOTT MACDONALD ON 2/18/2022. THE OUTER (MARSH) LOT LINE OF BLOCK 53.05, LOT 1 WAS TAKEN FROM THE NJ GEOGRAPHIC INFORMATION NETWORK. ALL OTHER ROW LINES SHOWN ARE TAKEN FROM AVALON TAX MAP SHEET 18.

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THOMAS R. THORNTON
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B/O	25
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As Shown	PERMIT	Rev	Rev0
Status	Rev0	Security	STD
Scale at ARCH D		Drawing Number	C111

Title
BOROUGH OF AVALON
BAY PARK MARINA IMPROVEMENTS
CIVIL
REGULATORY CONSTRAINTS PLAN
 (SHEET 2 OF 2)