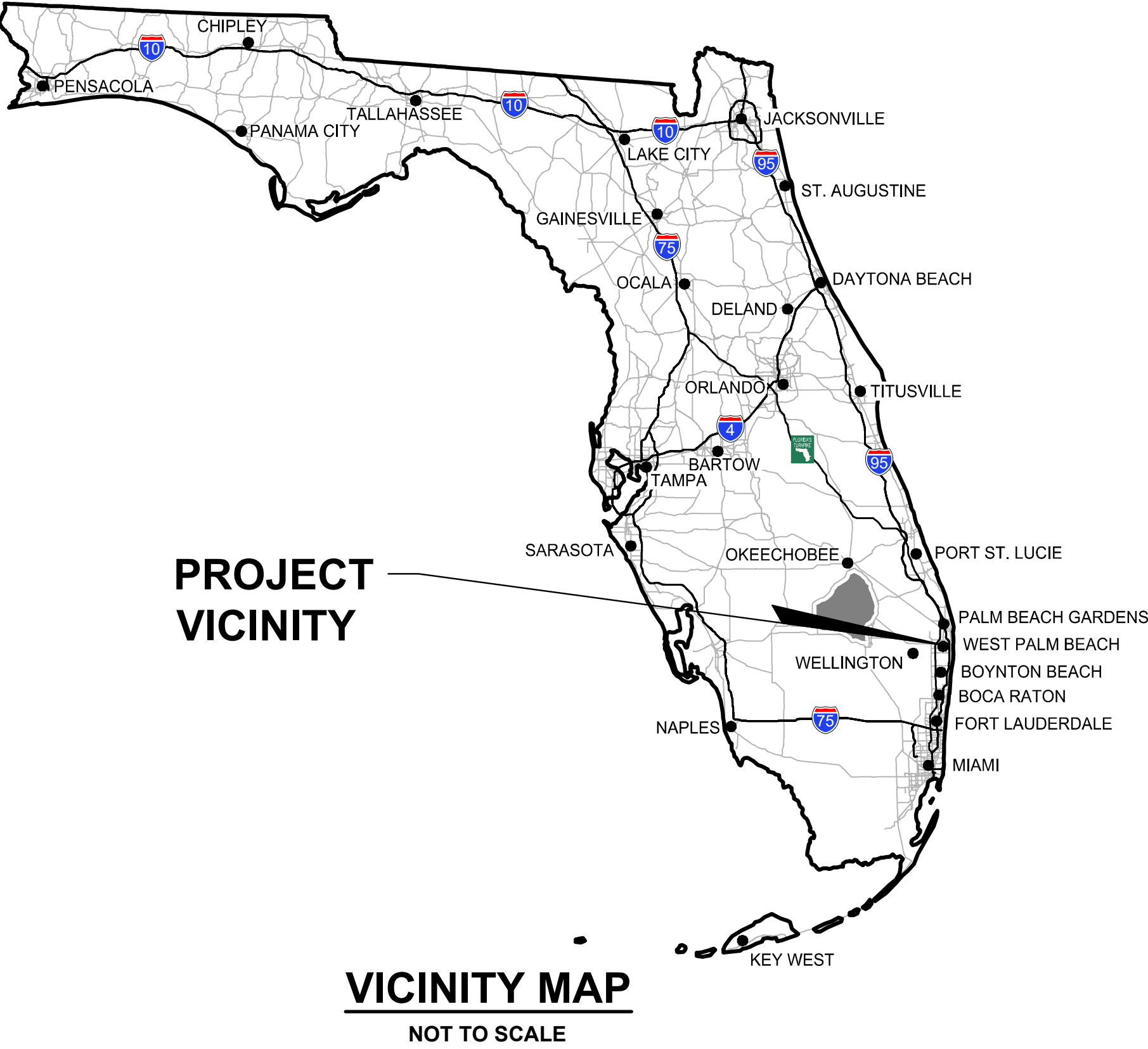


CONCEPTUAL ENGINEERING PLAN

THE BREAKERS

FAMILY ENTERTAINMENT CENTER

SECTION 23, TOWNSHIP 43S., RANGE 43E.
TOWN OF PALM BEACH, FLORIDA



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

<u>SHEET NO.:</u>	<u>DESCRIPTION:</u>
1	TITLE SHEET
2	CONCEPTUAL DEMOLITION PLAN
3	CONCEPTUAL MASTER PLAN
4-5	CONCEPTUAL PAVING, DRAINAGE, WATER AND WASTEWATER PLAN

CODY M. FLOYD
LICENSE
No. 97497
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY
CODY M. FLOYD, P.E. ON
1/24/2025.

PRINTED COPIES OF THIS
DOCUMENT ARE NOT
CONSIDERED ARE NOT
SEALED AND THE SIGNATURE
MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.

2.) FINAL SUBMITTAL — 1/27/25
1.) REVISED PER UPDATED SITE PLAN FROM ARCHITECT,
01/24/25 B.L.

SW

SIMMONS
& WHITE

2581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3452 | 561.478.7848

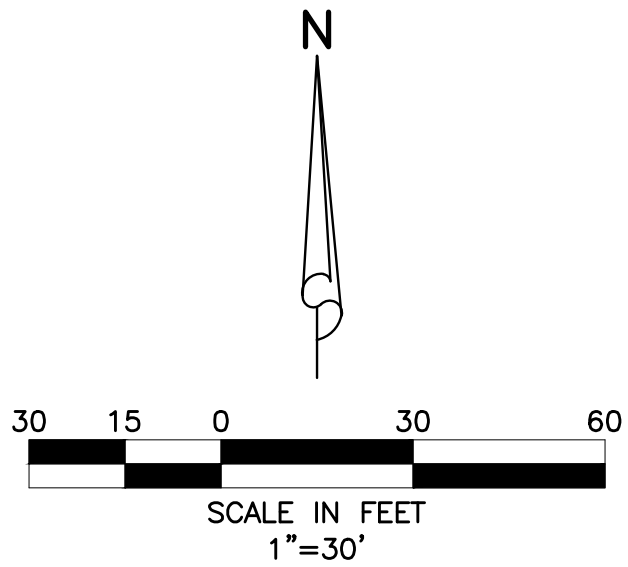
DESIGN C.F.	DRAWN B.L.	CHECKED R.R.	APPROVED	DATE 10/29/24
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JOB NO. 24-027	DRAWING NO. 24027C01	SHEET 1 OF 5
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Y:\AUTOCAD_FILES\2024\24-027\CONCEPTUAL\24027C01_TS.dwg 1/24/2025 9:01 AM Brandon Longo



LOCATION MAP
NOT TO SCALE



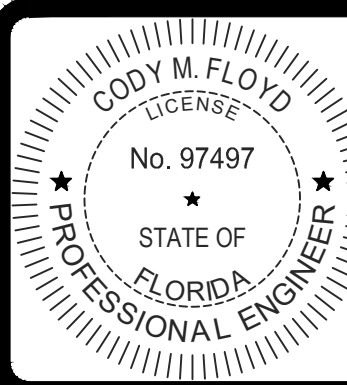
LEGEND

- EXISTING GRADE ELEVATION
- SAWCUT & REMOVE EXISTING ASPHALT, CONCRETE, CURB, ETC.
- STM — EXISTING STORM DRAINAGE PIPE
- WTR — EXISTING WATER MAIN
- SAN — EXISTING SEWER MAIN
- FM — EXISTING FORCE MAIN
- X X X — EXISTING STORM DRAINAGE PIPE (TO BE REMOVED)
- X X X — EXISTING WATER MAIN (TO BE REMOVED)
- X X X — EXISTING SEWER MAIN (TO BE REMOVED)
- X X X — EXISTING FORCE MAIN (TO BE REMOVED)
- X — EXISTING LIGHT POLE (TO BE REMOVED)

NOTES:

- 1.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.
- 2.) CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL ON-SITE & OFF-SITE AREAS DISTURBED DURING CONSTRUCTION TO EXISTING OR BETTER CONDITION.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL N.P.D.E.S. REQUIREMENTS INCLUDING FILING OF N.O.I., N.O.T., WEEKLY & MONTHLY MONITORING REPORTS, ETC.
- 4.) DEMOLITION/RELOCATION OF EXISTING UTILITY POLES & OVERHEAD LINES TO BE COORDINATED WITH RESPECTIVE FRANCHISE UTILITY PROVIDERS.
- 5.) CONTRACTOR SHALL HAVE ACCESS TO SITE AND REVIEW EXISTING CONDITIONS. IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY DEMOLITION NECESSARY TO CONSTRUCT THE PROPOSED SITE AND NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAN.
- 6.) THIS DEMOLITION PLAN IS CONCEPTUAL AND IS SUBJECT TO CHANGE.

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY CAULFIELD & WHEELER, INC. (561) 392-1991.



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- 3.) FINAL SUBMITTAL - 1/27/25
- 2.) REVISED PER UPDATED SITE PLAN FROM ARCHITECT, 01/24/25 B.L.
- 1.) REVISED PER UPDATED ARCH. SITE PLAN AND UPDATED M.E.P. PLANS, 01/14/25 B.L.

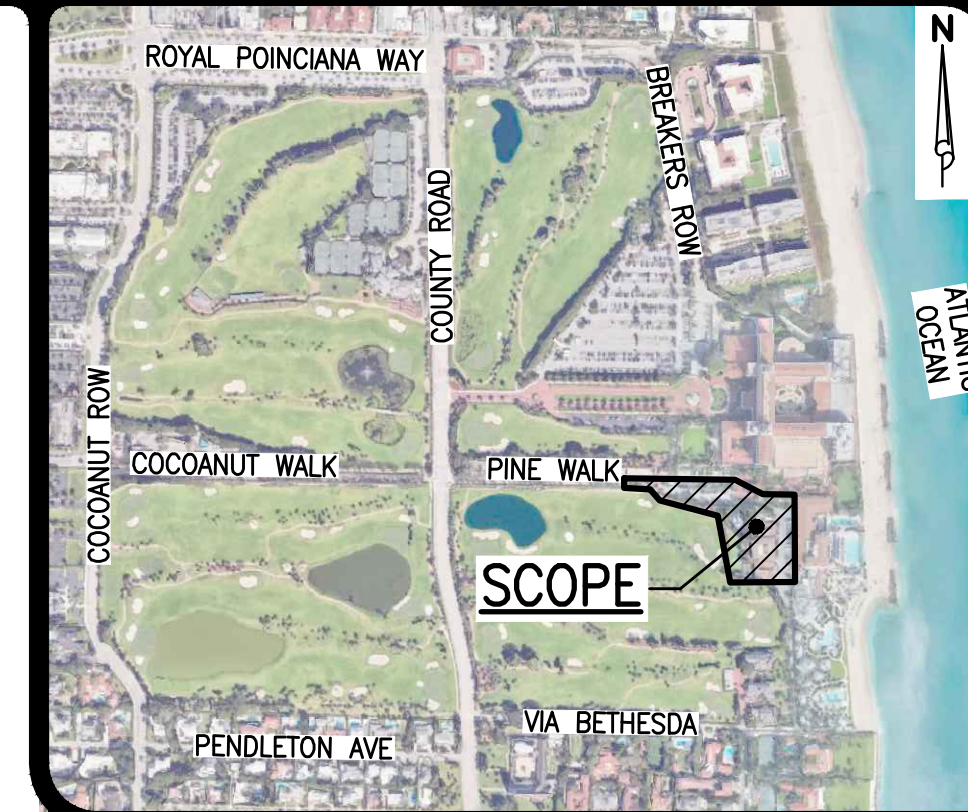
REVISIONS



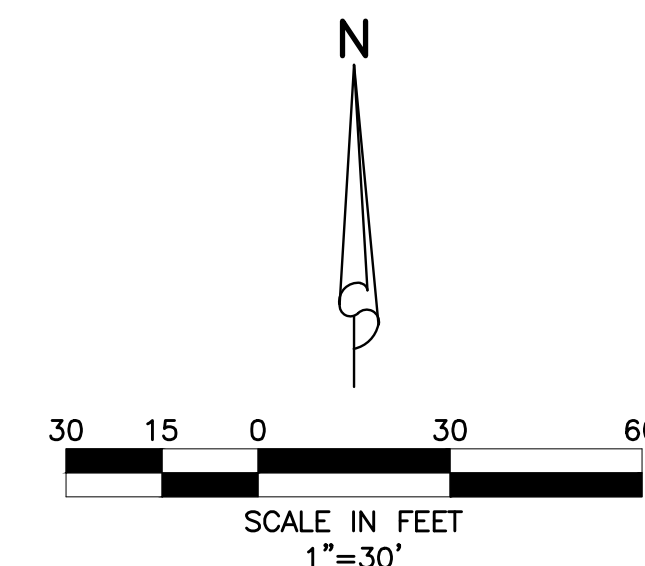
DESIGN	DRAWN	CHECKED	APPROVED	DATE
C.F.	B.L.	R.R.		10/29/24

THE BREAKERS
FAMILY ENTERTAINMENT CENTER
SECTION 23, TOWNSHIP 43S., RANGE 43E.
TOWN OF PALM BEACH, FLORIDA
CONCEPTUAL DEMOLITION PLAN

JOB NO.	DRAWING NO.	SHEET	OF
24-027	24027C02	2	5



LOCATION MAP
NOT TO SCALE



LEGEND

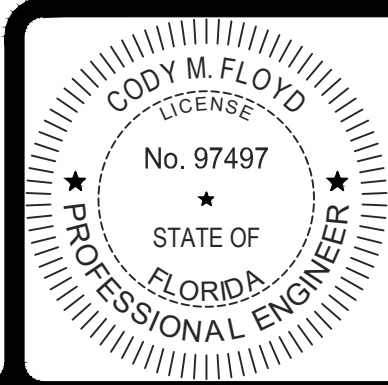
- PROPOSED STORM SEWER AND CATCH BASIN
- PROPOSED ASPHALT
- PROPOSED MILL AND OVERLAY
- NEW ROCK GOLF CART PATH
- CONCRETE
- DECORATIVE PAVEMENT/BRICK PAVERS
- DETECTABLE WARNING SURFACE
- SINGLE SEWER SERVICE W/ CLEAN-OUT
- SANITARY SEWER LINE, MANHOLE AND DIRECTION OF FLOW
- FIRE HYDRANT W/ GATE VALVE
- WATER SERVICE, WATER METER & R.P.Z.
- WATER MAIN & GATE VALVE
- GATE VALVE & D.D.C.V. ASSEMBLY
- EXISTING OVERHEAD POWER LINE & POWER POLE
- EXISTING STORM DRAINAGE PIPE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING FORCE MAIN

4 REFER TO SHEET NUMBER FOR FURTHER INFORMATION

NOTES:

- 1.) THIS DESIGN IS CONCEPTUAL AND SUBJECT TO CHANGE BASED ON FINAL DESIGN.
- 2.) ALL WATER AND WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF PALM BEACH AND THE PALM BEACH COUNTY HEALTH DEPARTMENT.
- 3.) CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEMOLITION MATERIAL IN ACCORDANCE WITH ALL APPLICABLE GOVERNING AGENCY STANDARDS.
- 4.) LOCATIONS OF WATER AND SANITARY SEWER SERVICES, DRAINAGE STRUCTURES AND PIPES AND OTHER STRUCTURES TO BE COORDINATED WITH LANDSCAPE DESIGN DURING PREPARATION OF FINAL CIVIL ENGINEERING PLANS.
- 5.) CONSTRUCTION AND DEMOLITION TO COMPLY WITH N.F.P.A. 241.
- 6.) FIRE DEPARTMENT LOCKING CAPS WILL BE REQUIRED ON THE FIRE DEPARTMENT CONNECTION.

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY CAULFIELD & WHEELER, INC. (561) 392-1991.



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- 1.) REVISED PER UPDATED ARCH. SITE PLAN, 12/11/24 B.L.

REVISIONS



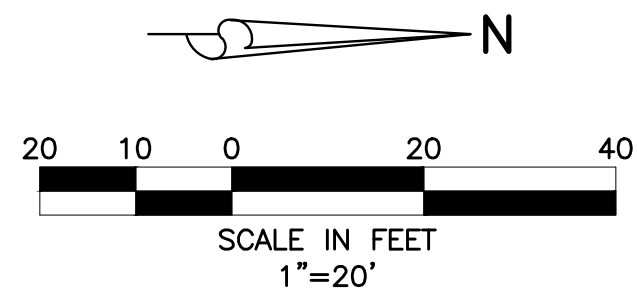
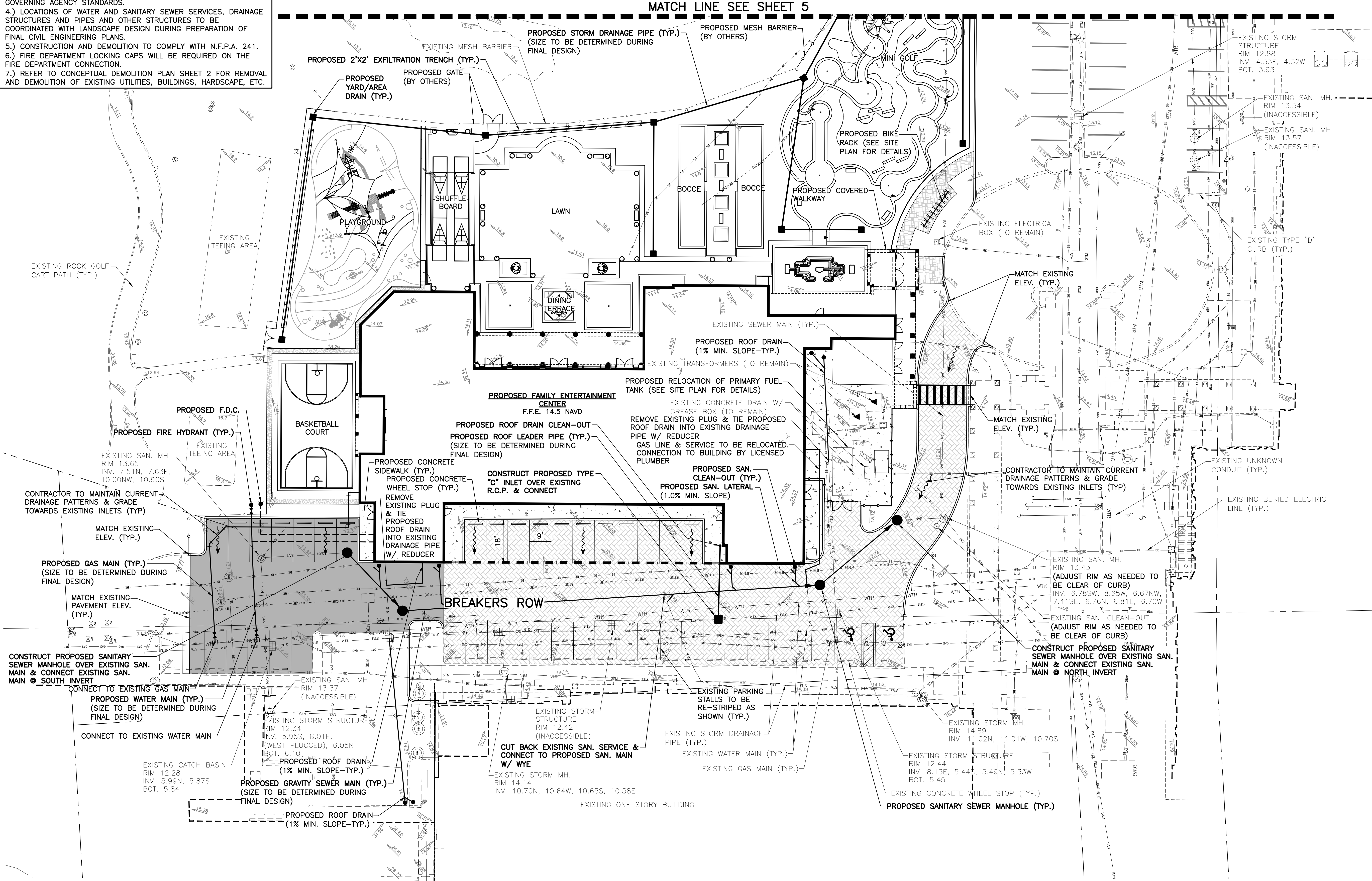
DESIGN C.F.	DRAWN B.L.	CHECKED R.R.	APPROVED	DATE 10/29/24
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THE BREAKERS
FAMILY ENTERTAINMENT CENTER
SECTION 23, TOWNSHIP 43S., RANGE 43E.
TOWN OF PALM BEACH, FLORIDA
CONCEPTUAL MASTER PLAN

JOB NO. 24-027	DRAWING NO. 24027C03	SHEET 3 OF 5
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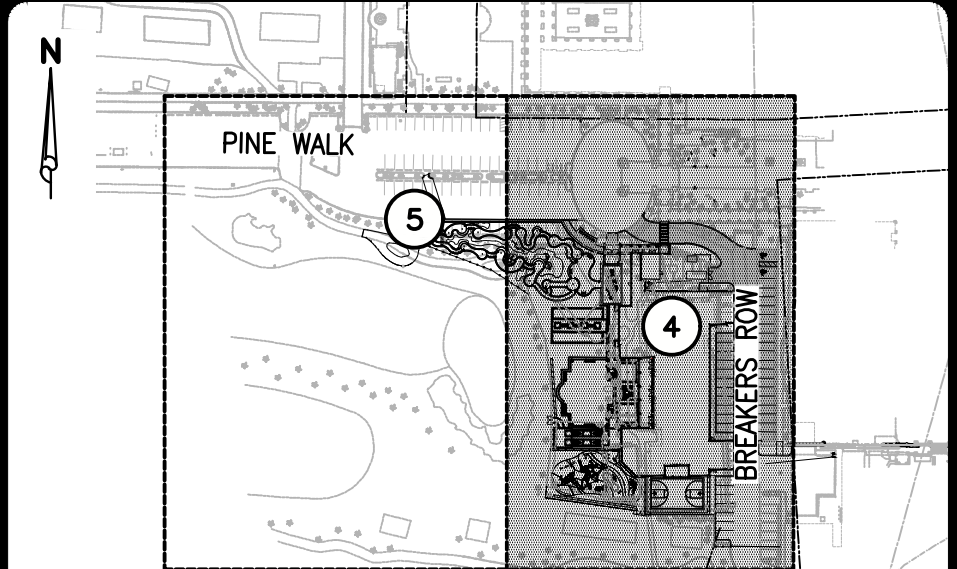
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- 6.) FIRE DEPARTMENT LOCKING CAPS WILL BE REQUIRED ON THE FIRE DEPARTMENT CONNECTION.
- 7.) REFER TO CONCEPTUAL DEMOLITION PLAN SHEET 2 FOR REMOVAL AND DEMOLITION OF EXISTING UTILITIES, BUILDINGS, HARDSCAPE, ETC.



LOCATION MAP

NOT TO SCALE



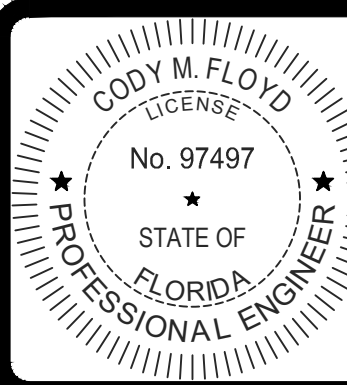
KEY MAP

NOT TO SCALE

LEGEND

- PROPOSED STORM SEWER AND CATCH BASIN
- DIRECTION OF FLOW
- DIRECTION OF SWALE
- PROPOSED HIGH POINT
- EXISTING GRADE ELEVATION
- PROPOSED ASPHALT
- PROPOSED MILL AND OVERLAY
- PROPOSED BRICK PAVERS/DECORATIVE PAVEMENT
- PROPOSED CONCRETE
- SEWER SERVICE W/ CLEAN-OUT
- FIRE HYDRANT W/ GATE VALVE
- PROPOSED SANITARY SEWER LINE, MANHOLE & FLOW DIRECTION
- WATER SERVICE & R.P.Z. (REFER TO POTABLE WATER SERVICE SINGLE METER INSTALLATION DETAIL.)
- PROPOSED BIKE RACK (SEE SITE PLAN FOR DETAILS)
- EXISTING OVERHEAD POWER LINE & POWER POLE
- EXISTING STORM DRAINAGE PIPE (TO REMAIN)
- EXISTING WATER MAIN (TO REMAIN)
- EXISTING SEWER MAIN (TO REMAIN)
- EXISTING FORCE MAIN (TO REMAIN)

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- 2.) REVISED PER UPDATED ARCH. SITE PLAN AND UPDATED M.E.P. PLANS, 01/14/25 B.L.
- 1.) REVISED PER UPDATED ARCH. SITE PLAN, 12/11/24 B.L.

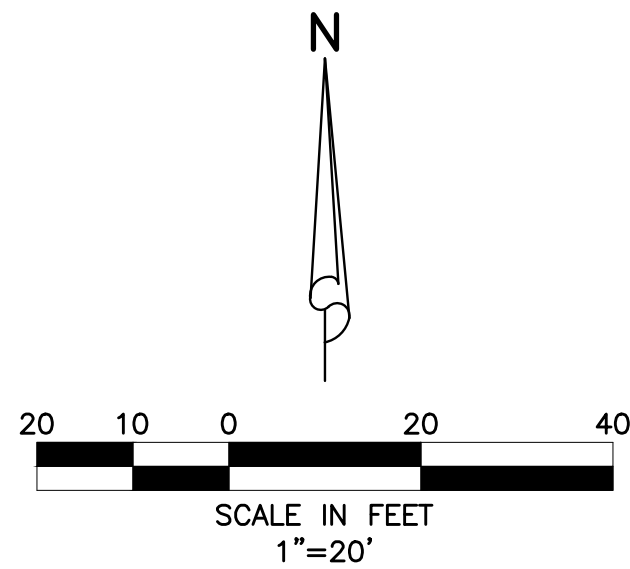
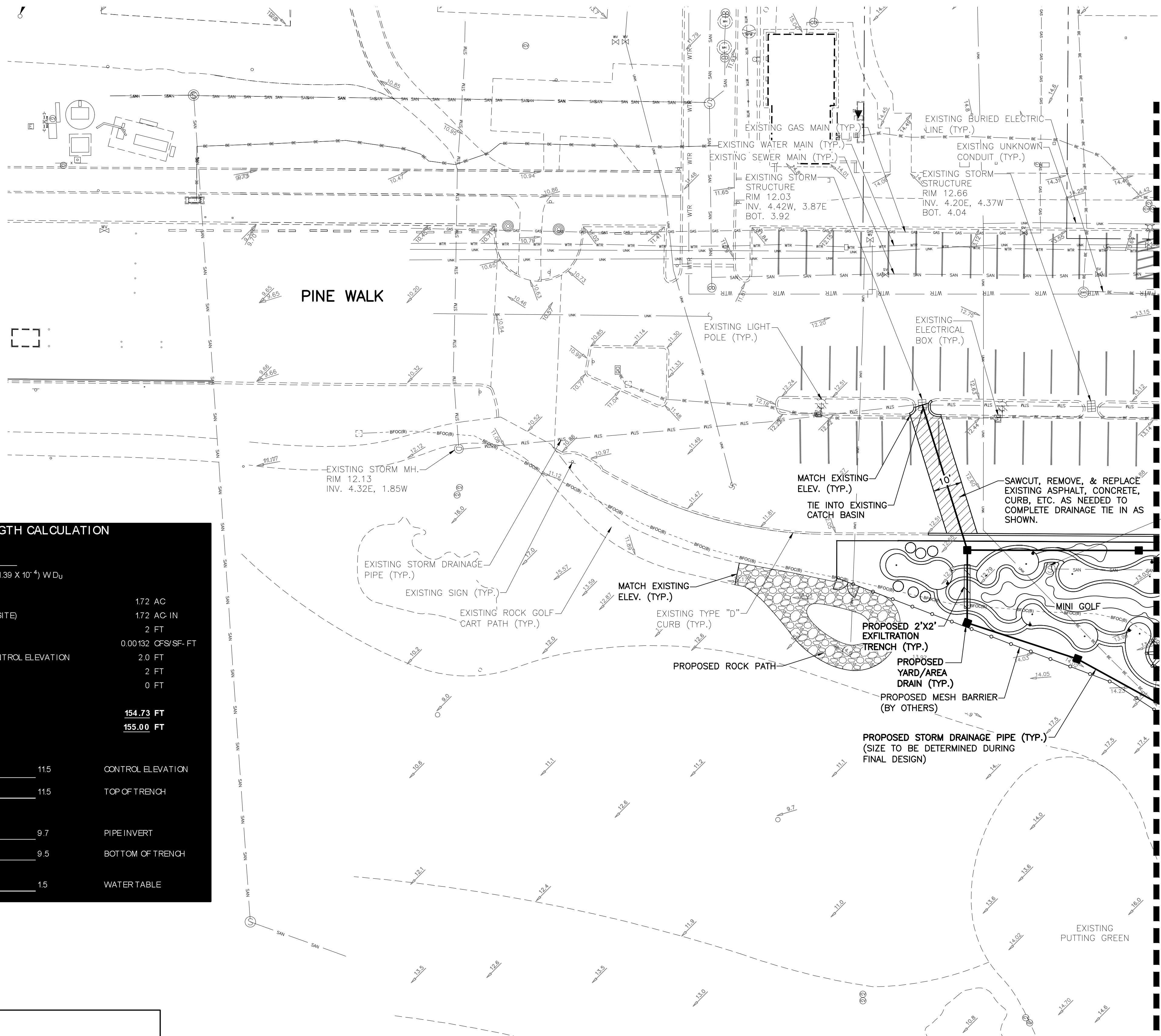
REVISIONS



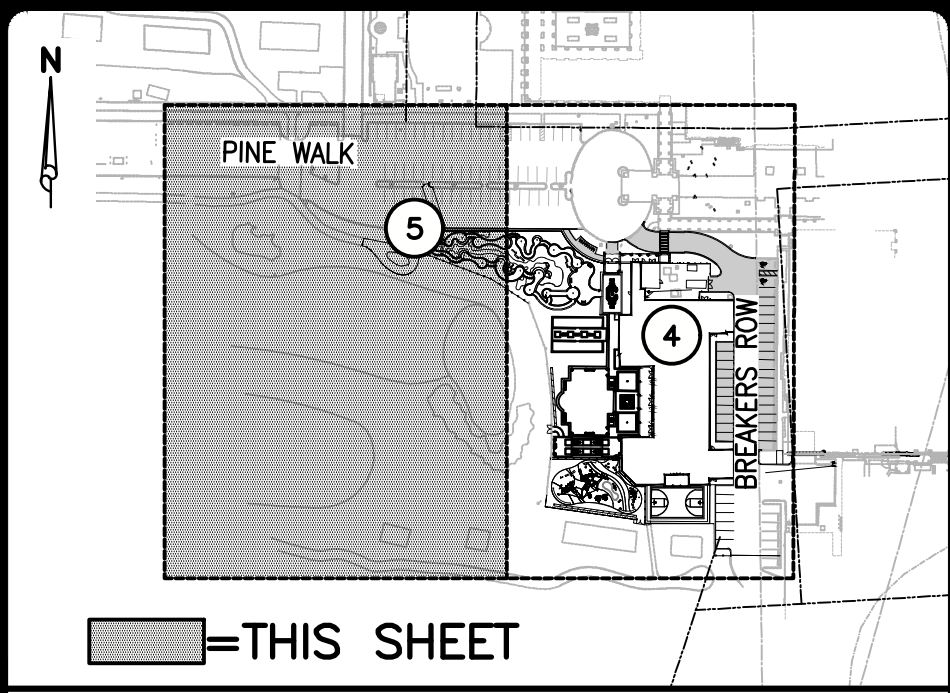
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C.F.	B.L.	R.R.		10/29/24

THE BREAKERS
FAMILY ENTERTAINMENT CENTER
SECTION 23, TOWNSHIP 43S., RANGE 43E.
TOWN OF PALM BEACH, FLORIDA
CONCEPTUAL PAVING, DRAINAGE,
WATER AND WASTEWATER PLAN

JOB NO.	DRAWING NO.	SHEET	OF
24-027	24027C04	4	5



LOCATION MAP
NOT TO SCALE



KEY MAP
NOT TO SCALE

EXFILTRATION TRENCH LENGTH CALCULATION

$$L = \frac{V}{K(H_2W + 2H_2D_u - D_u^2 + 2H_2D_d + (139 \times 10^{-4}) W D_u)}$$

A= TOTAL SITE AFFECTED AREA 172 AC
V= VOLUME TO BE TREATED (1" OVER SITE) 172 AC-IN
W= WIDTH OF TRENCH 2 FT
K= HYDRAULIC CONDUCTIVITY 0.00132 CFS/SF-FT
H2= DEPTH TO WATER TABLE FROM CONTROL ELEVATION 2.0 FT
DU= NON-SATURATED TRENCH DEPTH 2 FT
DS= SATURATED TRENCH DEPTH 0 FT

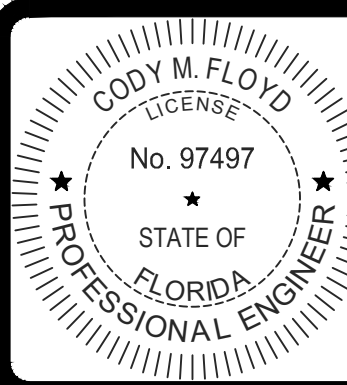
L= REQUIRED TRENCH LENGTH 154.73 FT
Lp= PROVIDED TRENCH LENGTH 155.00 FT



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REVISIONS



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C.F.	B.L.	R.R.		10/29/24

THE BREAKERS
FAMILY ENTERTAINMENT CENTER
SECTION 23, TOWNSHIP 43S., RANGE 43E.
TOWN OF PALM BEACH, FLORIDA
CONCEPTUAL PAVING, DRAINAGE,
WATER AND WASTEWATER PLAN

JOB NO.	DRAWING NO.	SHEET	OF
24-027	24027C05	5	5