

ARCH D 24"x36"

RECEIVED
November 25, 2019
FDEP REVIEW PACKAGE
ST-2209

SANDCASTLE RESORT AT LIDO BEACH SARASOTA - FLORIDA

FDEP REVIEW PACKAGE
05-06-2019



Architecture Sheet Index - FDEP			
Number	Name	Issue Date	Set
A0.00	COVER	DD/MM/19	FDEP SET
A1.00	SITE PLAN	DD/MM/19	FDEP SET
A1.01	GARAGE LEVEL I	DD/MM/19	FDEP SET
A1.02	GARAGE LEVEL II	DD/MM/19	FDEP SET
A1.03	LOBBY LEVEL	DD/MM/19	FDEP SET
A1.04	BUILDING SECTION	DD/MM/19	FDEP SET
A1.05	BUILDING SECTION	07/22/19	FDEP SET



PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE, SUITE # 202
DELRAY BEACH, FL 33483

CONSULTANTS

ARCHITECT OF RECORD
NICHOLS BROSCH WURST WOLFE
& ASSOCIATES, INC.
161 ALMERIA AVE
CORAL GABLES, FL 33134
(305) 443-5206

STRUCTURAL ENGINEER
OPTIMUS STRUCTURAL DESIGN, LLC.
7850 NW 148th STREET, SUITE # 305
MIAMI LAKES, FL 33016
(305) 512-5860

LANDSCAPE ARCHITECT
GEORGE F. YOUNG, INC.
10540 PORTAL CROSSING, SUITE # 105
LAKEWOOD RANCH, FL 34211
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CIVIL ENGINEER
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SURVEYOR
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REVISIONS

NO.	DATE	ISSUE
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PROJECT STATUS

FDEP SUBMITTAL

DATE OF ISSUE

05/06/19

SCALE

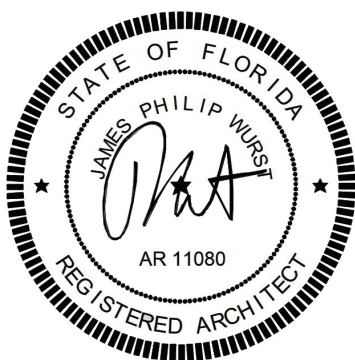
PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080



DRAWING TITLE

A0.00
COVER

BEN FRANKLIN DRIVE

PROJECT

SANDY BEACH

VEGETATION

LINE OF CONTINUOUS CONSTRUCTION

GULF OF MEXICO

EROSION CONTROL LINE FOR SOUTH LIDO KEY AS
RECORDED IN O.R.I. #2001002108, 1/05/2001 AND
MISCELLANEOUS MAP BOOK 1, PAGES 9-9C,
PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.

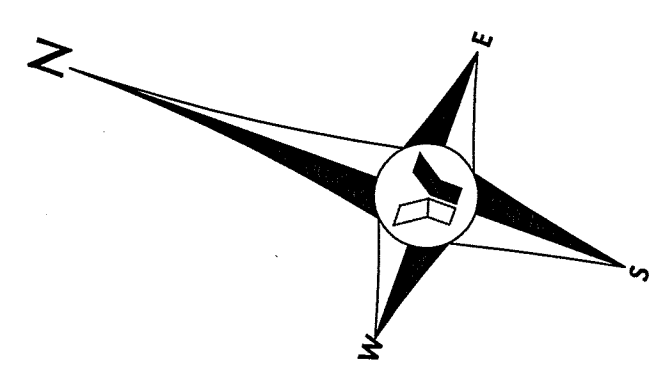
0' CONTOUR LINE
(ELEV. 0.00' NAVD 1988)(03/18/19)

MEAN HIGH WATER LINE
(ELEV. 0.54' NAVD 1988)(03/18/19)

SEASONAL HIGH WATER LINE
(ELEV. 3.38' NAVD 1988)(03/18/19)

0' CONTOUR LINE
(ELEV. 0.00' NAVD 1988)(03/18/19)

- ABBREVIATION LEGEND**
- FND FOUND
 - CIR CAPPED IRON ROD
 - LB LICENSED BUSINESS
 - LS LAND SURVEYOR
 - IP IRON PIPE
 - ROW RIGHT OF WAY
 - ORB/OR OFFICIAL RECORDS BOOK/OFFICIAL RECORD
 - PS PLAT BOOK
 - CM CONCRETE MONUMENT
 - CONC CONCRETE
 - CB CONCRETE BLOCK
 - FDNR FLORIDA DEPARTMENT OF NATURAL RESOURCES
 - (R) RECORD
 - (M) MEASURED
 - (P) PLAT
 - MHW MEAN HIGH WATER
 - ELEV ELEVATION
 - CENTERLINE CENTERLINE
 - STMH STORM DRAINAGE MANHOLE
 - SSMH SANITARY SEWER MANHOLE
 - FL FLOW LINE OF PIPE
 - RCP REINFORCED CONCRETE PIPE
 - UNK UNKNOWN
 - PVC POLYVINYL CHLORIDE PIPE
 - FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY
 - EL ELECTRIC METER
 - CP CONCRETE POWER POLE
 - PS POWER SUPPLY BOX
 - WM WATER METER
 - WV WATER VALVE
 - GL GAS LINE MARKER
 - OHE OVERHEAD ELECTRIC
 - E.C.L. EROSION CONTROL LINE
 - TR TELEPHONE RISER
 - SI SIGN
 - SMH SANITARY MANHOLE
 - STMH STORMWATER MANHOLE
 - FI FIRE HYDRANT
 - 3.7' GROUND SPOT ELEVATION (SOFT SURFACE)
 - 3.7' GROUND SPOT ELEVATION (HARD SURFACE)



SCALE: 1" = 30'

NAVD 88

REVISIONS				REVISIONS				CREW		DATE		PREPARED FOR:	DATE	F. PETER LUTZ, JR. PSM LS5508	DATE	SECTION 35, TOWNSHIP 36S., RANGE 17E.	JOB NO. 0273011605LS	SHEET NO. S2 OF S3
NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION	CHIEF	DATE	CHIEF	DATE							
1	P.L.	1/20/14	UPDATE-ALTA/ACSM SURVEY	6				J.F.E.	1/17/14	LIDO SAND, LLC C/O OCEAN PROPERTIES 1000 MARKET STREET PORTSMOUTH, NH 03801		George F. Young, Inc. 10540 PORTAL CROSSING, SUITE 105 BRADENTON, FLORIDA 34211 PHONE (941) 747-2981 FAX (941) 747-7234 BUSINESS ENTITY LB21						
2	P.L.	04/08/14	Revise Certs add Regions Bank	7				D.D.S.	6/18/97									
3	JLB	3/30/15	62B33 TOPOGRAPHIC SURVEY	8				M.E.B.	4/2/15	ARCHITECTURE-ENGINEERING-ENVIRONMENTAL-LANDSCAPE-PLANNING-SURVEYING-UTILITIES GAINESVILLE-FAKEWOOD RANCH-ORLANDO-PALM BEACH GARDENS-ST. PETERSBURG-TAMPA-VENICE		Since 1919						
4	P.L.	3/03/17	UPDATE 62B-33 TOPOGRAPHIC SURVEY FIELD DATE 02/28/17	9														
5	P.L.	3/26/19	Update 62B-33 Topographic Survey Field Date 03/18/19	10					1/17/14									

FILE: I:\PROJECTS\SHR\2024\0273011605LS\0273011605LS.DWG 02/28/17 11:12:22 LOGON: PLUTZ

ABBREVIATION LEGEND

FND FOUND
 CIR CAPED IRON ROD
 LB LICENSED BUSINESS
 LS LAND SURVEYOR
 IP IRON PIPE
 RW RIGHT OF WAY
 ORB/OR OFFICIAL RECORDS BOOK/OFFICIAL RECORD
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 FDNR FLORIDA DEPARTMENT OF
 RECORD NATUREL RESOURCES
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 TELEPHONE RISER
 SIGN
 SANITARY MANHOLE -
 STORMWATER MANHOLE
 FIRE HYDRANT
 X 3.7 GROUND SPOT ELEVATION (SOFT SURFACE)
 X 3.7 GROUND SPOT ELEVATION (HARD SURFACE)

MARK TWAIN APARTMENTS
 CONDOMINIUM, CONDO
 BOOK 1, PAGE 6

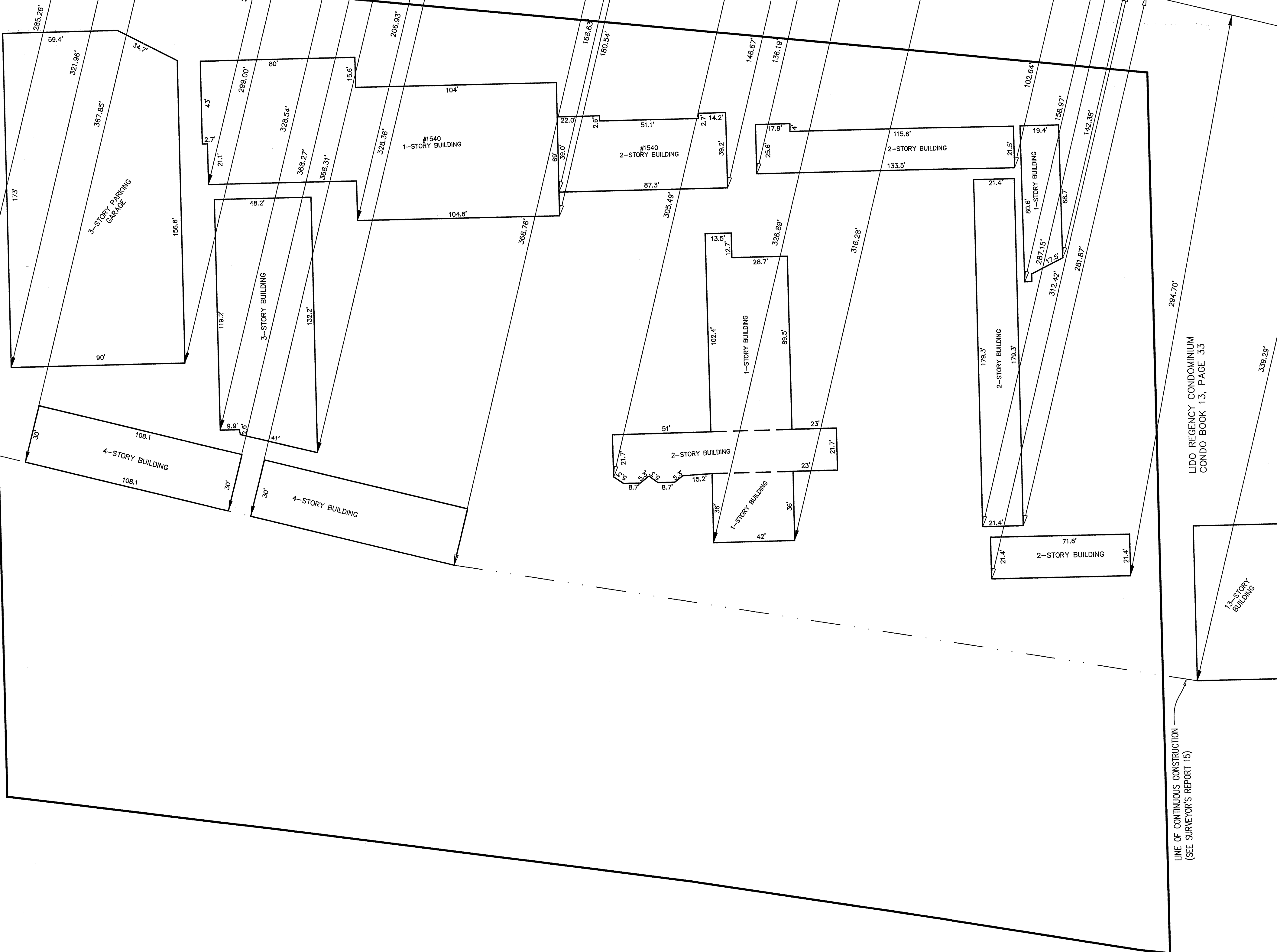
LINE OF CONTINUOUS CONSTRUCTION

BEN FRANKLIN
 DRIVE

STATE OF FLORIDA COASTAL CONSTRUCTION CONTROL LINE
 (O.R. 2102, PG. 2632, DATED MARCH 2, 1989)

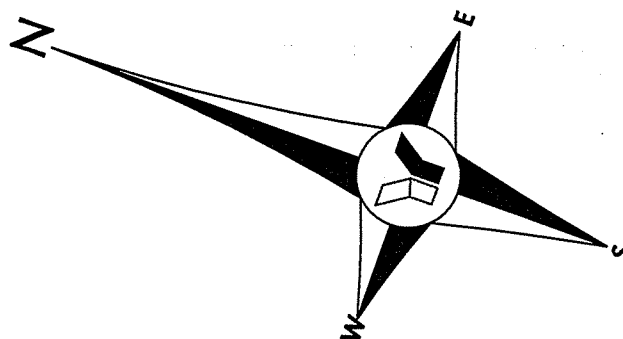
N.23°54'18"W. 936.87'

S.23°40'28"E 956.51' (BEARING BASIS)



LIDO REGENCY CONDOMINIUM
 CONDO BOOK 13, PAGE 33

LINE OF CONTINUOUS CONSTRUCTION
 (SEE SURVEYOR'S REPORT 15)



SCALE: 1" = 30'

NAVD 88

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1	P.L.	1/20/14	UPDATE-ALTA/ACSM SURVEY
2	P.L.	04/08/14	Revise Certs add Regions Bank
3	JLB	3/30/15	62B33 TOPOGRAPHIC SURVEY
4	P.L.	03/03/17	UPDATE 62B-33 TOPOGRAPHIC SURVEY-FIELD DATE: 02/28/17
5	P.L.	03/26/19	Update 62B-33 Topographic Survey Field Date 03/18/19

NO.	BY	DATE	DESCRIPTION
6			
7			
8			
9			
10			

INITIALS	DATE
J.F.E.	1/17/14
D.D.S.	6/18/97
M.E.B.	4/2/15

PREPARED FOR:

LIDO SAND, LLC
 C/O OCEAN PROPERTIES
 1000 MARKET STREET
 PORTSMOUTH, NH 03801



George F. Young, Inc.

10540 PORTAL CROSSING, SUITE 105 BRADENTON, FLORIDA 34211
 PHONE (941) 747-2981 FAX (941) 747-7034
 BUSINESS ENTITY LB21

ARCHITECTURE-ENGINEERING-ENVIRONMENTAL-LANDSCAPE-PLANNING-SURVEYING-UTILITIES
 GAINESVILLE-LAKEWOOD RANCH-ORLANDO-PALM BEACH GARDENS-ST. PETERSBURG-TAMPA-VENICE

F. PETER LUTZ, JR. PSM LS5506

DATE

Harley Sandcastle Hotel

62B33 TOPOGRAPHIC SURVEY

SECTION 35, TOWNSHIP 36S., RANGE 17E.

JOB NO. 0273011605LS

SHEET NO.

S3 of S3

FILE: I:\PROJECTS\SURV\2012\0273011605LS\DWG\0273011605LSPLA.DWG PLOTED: 08/24/17 11:12:22 LOGIN: FLUTZ



1 SITE PLAN
A1.00 1" = 50'-0"

RECEIVED
FEB 13 2020
DIVISION OF WATER
RESOURCE MANAGEMENT



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REVISIONS	NO.	DATE	ISSUE
	2	01-10-20	Revision 2

PROJECT STATUS

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DATE OF ISSUE

05/06/19

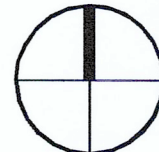
SCALE

As indicated

PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

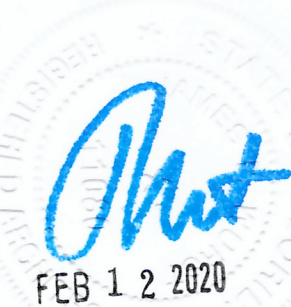
SCALE & ORIENTATION



TRUE NORTH: 0 DEGS
0 25' 50' 100'
1" = 50'

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
ARO11080



DRAWING TITLE

A1.00
SITE PLAN

ZONING DATA

LEGAL DESCRIPTION

LOTS 4, 5, 6, 7, 8, AND 9, SOUTH LIDO SHORES, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 5, PAGE 50, PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA

SITE DATA

ADDRESS 1540 BENJAMIN FRANKLIN DRIVE, SARASOTA, FLORIDA 34236

ZONING DESIGNATION EXISTING RMF-4 / PROPOSED WFR

FLOOD ZONE AE (ELEV 10 - 11) & VE (ELEV 12 - 13)

LOT AREA 265,430.48 SQ. FT. (6.09 ACRES)

DEVELOPMENT REGULATIONS

	ALLOWED/REQUIRED	PROVIDED
LOT WIDTH	100 MIN	600 APPROX.
LOT COVERAGE 25% MAX. (50%)	132,715.24 SF	122,522.00 SF
DENSITY (50 Guestrooms/Acre Max) (18 Un/Acre Max)	304.5	304
MAXIMUM BUILDING HEIGHT	35 / 110 FT	110
USES BY LEVEL Garage levels 1 and 2 = PARKING 1st Floor = LOBBY / AMENITIES 2nd - 10th = HOTEL		
SETBACK REQUIREMENTS FRONT - (BEN FRANKLIN DR) SIDE UP TO 35 ft IN HT ABOVE 35 ft IN HT REAR (GULF WATERFRONT) (Measured from Mean High Water Line)	30'-0" 20'-0" 32'-0" 150'-0"	30'-0" min 20'-0" 32'-0" 150'-0"
PARKING CALCULATION GUESTROOMS 304 KEYS 10% CONFERENCE FACILITIES BALLROOM 9,300 SF / 100 Jr. BALLROOM 4,850 SF / 100 MEETING ROOMS 7,875 SF / 100 RESTAURANT 4,000 SF / 150 PRELIMINARY TOTAL	304 30.4 93 48.50 78.75 26.67 582	 607
BICYCLE PARKING REQUIREMENT 10% of Required Parking	44	50
LOADING REQUIREMENTS GFS BUILDING 305,687.44 SF	4 (12X30)	1 (12X50) 3 (12X30)

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1" = 30'-0"

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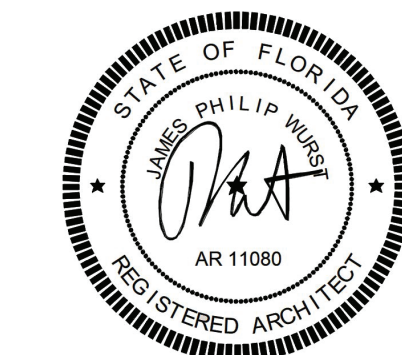
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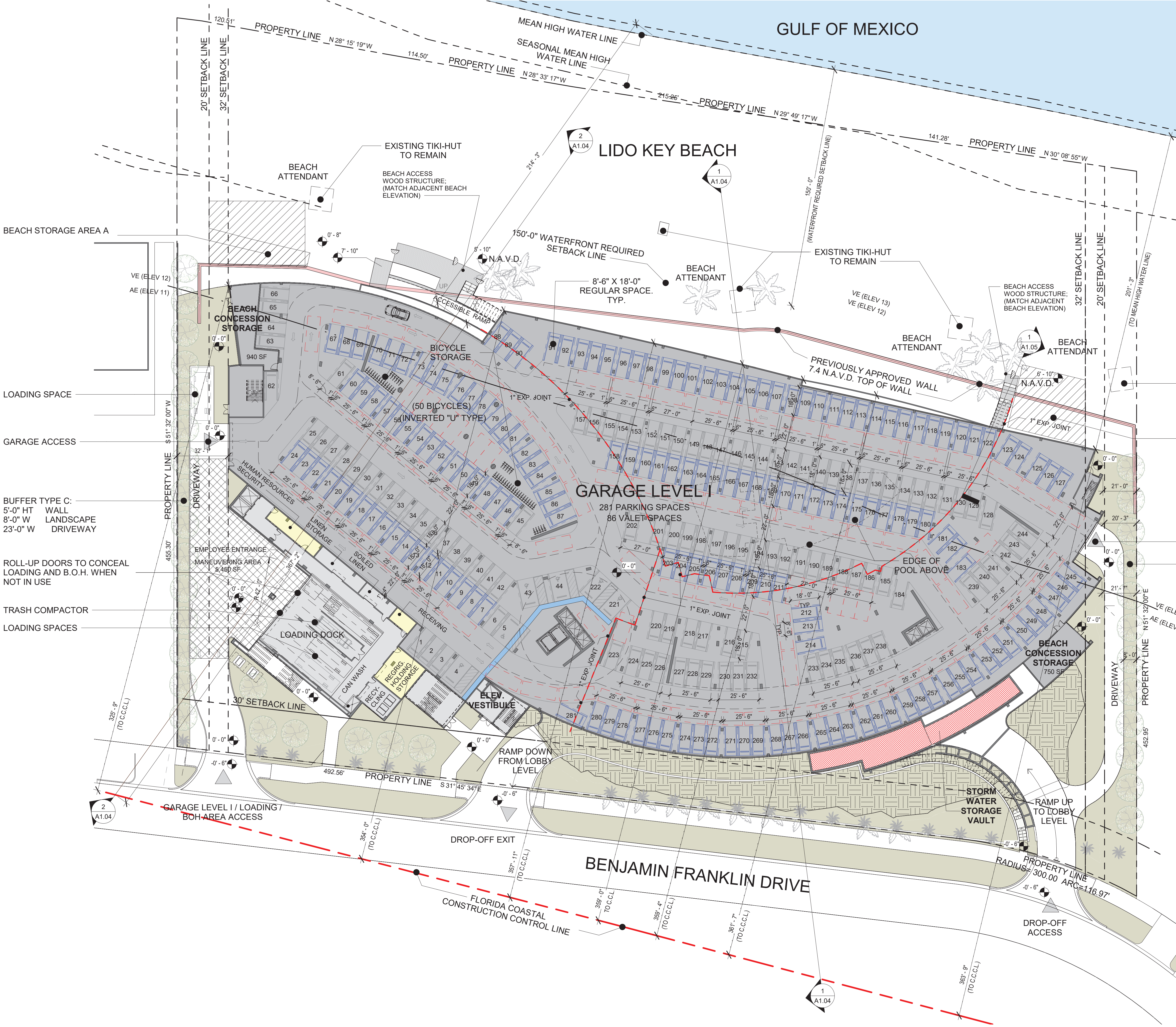
SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080



DRAWING TITLE

A1.01
GARAGE LEVEL I



PARKING VALET BLOCKED	
Level	Count
GARAGE LEVEL I	169
GARAGE LEVEL II	72
Grand total:	241

PARKING SCHEDULE VALET	
Level	Count
GARAGE LEVEL I	86
GARAGE LEVEL II	56
Grand total:	142

PARKING SCHEDULE REGULAR		
Level	Type	Count
GARAGE LEVEL I	8' 6" x 18' - 90 deg	275
GARAGE LEVEL I	12' x 18' - 90 deg ADA	6
GARAGE LEVEL II	8' 6" x 18' - 60 deg	18
GARAGE LEVEL II	8' 6" x 18' - 90 deg	160
GARAGE LEVEL II	23' x 9' Parallel	3
GARAGE LEVEL II	12' x 18' - 90 deg ADA	3
Grand total:		465

PARKING SCHEDULE TOTAL	
Level	Count
GARAGE LEVEL I	367
GARAGE LEVEL II	240
Grand total:	607

1 GARAGE LEVEL I - FLOOR PLAN
A1.01 1" = 30'-0"

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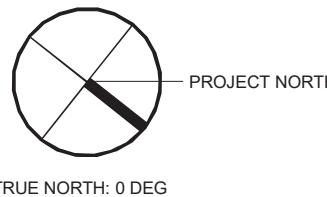
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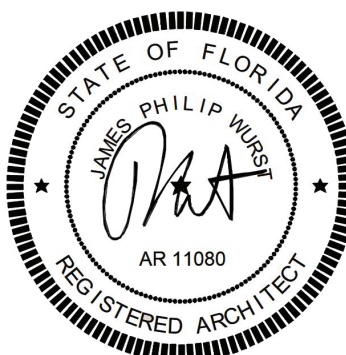
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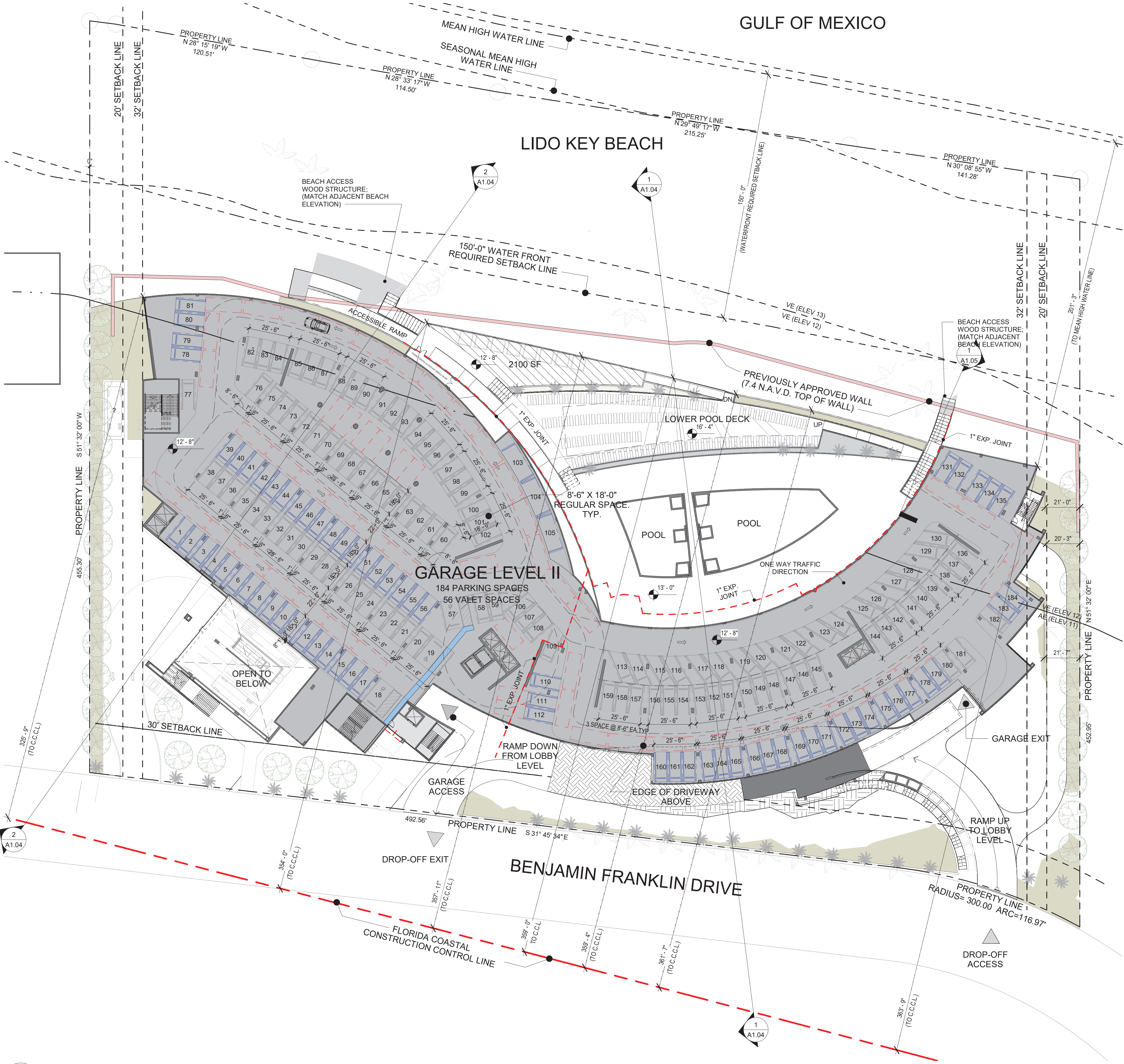
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AR011080



DRAWING TITLE

A1.02
GARAGE LEVEL II



PARKING VALET BLOCKED

Level	Count
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GARAGE LEVEL II	72
Grand total: 241	241

PARKING SCHEDULE VALET

Level	Count
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PARKING SCHEDULE TOTAL

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Grand total: 607	607

GARAGE LEVEL II - FLOOR PLAN

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ARCH D 24"x36"



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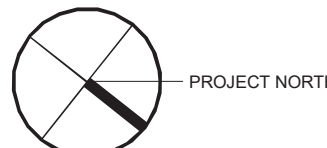
SCALE

1" = 30'-0"

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SCALE & ORIENTATION

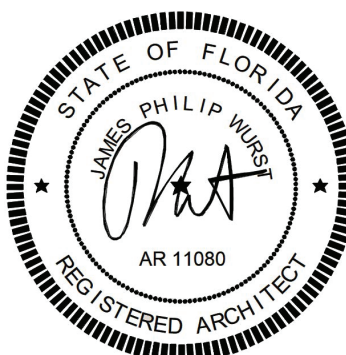


TRUE NORTH: 0 DEG

0 15' 30' 60'
1" = 30'

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080



DRAWING TITLE

A1.03
LOBBY LEVEL

1
A1.03
0100 LEVEL - FLOOR PLAN
1" = 30'-0"

GARAGE ACCESS
BELOW (AT GRADE)

GARAGE LEVEL I
EXIT BELOW

BUILDING ELEMENTS BELOW
35' ELEV. SUBJECT TO 20'
SETBACK REQUIREMENT

1
A1.03
0100 LEVEL - FLOOR PLAN
1" = 30'-0"

RECEIVED
November 25, 2019
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.
51-2019



363'-9" TO C.C.C.L. DIMENSION VARIES - SEE PLAN

201'-3"
(TO MEAN HIGH WATER LINE)

- 0300 LEVEL
51' - 4"
- 0200 LEVEL
37' - 4"
- 0100 LEVEL
23' - 4"
- FDEP REQ
18' - 4 5/32"
(= 19.4' N.G.V.D.)
- GARAGE LEVEL II
12' - 8"
- GARAGE LEVEL I
4' - 0"
- GRADE
3' - 6"
- STORAGE TANK
1' - 9"
- N.A.V.D.
0' - 0"

- 0500 LEVEL
71' - 4"
- 0400 LEVEL
61' - 4"
- 0300 LEVEL
51' - 4"
- 0200 LEVEL
37' - 4"
- 0100 LEVEL
23' - 4"
- POOL DECK
19' - 10"
- GARAGE LEVEL II
12' - 8"
- GARAGE LEVEL I
4' - 0"
- STORAGE TANK
1' - 9"
- N.A.V.D.
0' - 0"

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& ASSOCIATES, INC
161 ALMERIA AVE
CORAL GABLES, FL 33134
(305) 443-5206

STRUCTURAL ENGINEER
OPTIMUS STRUCTURAL DESIGN, LLC
7850 NW 148th STREET, SUITE # 305
MIAMI LAKES, FL 33016
(305) 512-5860

LANDSCAPE ARCHITECT
GEORGE F. YOUNG, INC.
10540 PORTAL CROSSING, SUITE # 105
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(941) 747-2981

CIVIL ENGINEER
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(941) 747-2981

SURVEYOR
GEORGE F. YOUNG, INC.
10540 PORTAL CROSSING, SUITE # 105
LAKEWOOD RANCH, FL 34211
(941) 747-2981

REVISIONS

NO.	DATE	ISSUE
1	11-20-19	Revision 1

PROJECT STATUS

FDEP SUBMITTAL

DATE OF ISSUE

05/06/19

SCALE

1/16" = 1'-0"

PROJECT NO. & TITLE

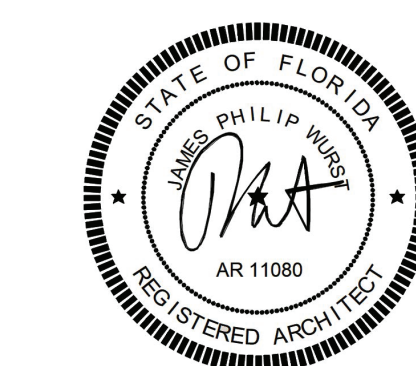
17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION

0 8' 16' 32'
1/16" = 1'-0"

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080



DRAWING TITLE

A1.04
BUILDING SECTION

FDEP - BUILDING SECTION 1

1/16" = 1'-0"

NOTE: DIMENSIONS SHOWS FURTHEST BUILDING DISTANCE TO THE COASTAL
CONSTRUCTION CONTROL LINE. REFER TO PLANS.

367'-2"
(TO C.C.C.L.)

214'-3"
(TO MEAN HIGH WATER LINE)

- ELEV OVERRIDE
151' - 4"
- ELEV. MACHINE
ROOM
139' - 4"
- ROOF
131' - 4"
- 1000 LEVEL
121' - 4"
- 0900 LEVEL
111' - 4"
- 0800 LEVEL
101' - 4"
- 0700 LEVEL
91' - 4"
- 0600 LEVEL
81' - 4"
- 0500 LEVEL
71' - 4"
- 0400 LEVEL
61' - 4"
- 0300 LEVEL
51' - 4"
- 0200 LEVEL
37' - 4"
- 0100 LEVEL
23' - 4"
- GARAGE LEVEL II
12' - 8"
- GARAGE LEVEL I
4' - 0"
- STORAGE TANK
1' - 9"
- N.A.V.D.
0' - 0"

MEAN HIGH WATER LINE

SOUTH BEACH ACCESS
WOOD STRUCTURE:
(MATCH ADJACENT BEACH ELEVATION)

PREVIOUSLY APPROVED WALL
(7.4' NAVD TOP OF WALL)

5' - 9 1/4"

FDEP - BUILDING SECTION 2 (SOUTH BEACH ACCESS)

ADDED BUILDING SECTION

1/16" = 1'-0"

NOTE: DIMENSIONS SHOWS FURTHEST BUILDING DISTANCE TO THE COASTAL
CONSTRUCTION CONTROL LINE. REFER TO PLANS.

RECEIVED
November 25, 2019
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.
51-2019



363'-9" TO C.C.C.L. DIMENSION VARIES - SEE PLAN

201'-3"
(TO MEAN HIGH WATER LINE)

- 0300 LEVEL
51' - 4"
- 0200 LEVEL
37' - 4"
- 0100 LEVEL
23' - 4"
- FDEP REQ
18' - 4 5/32"
(= 19.4' N.G.V.D.)
- GARAGE LEVEL II
12' - 8"
- GARAGE LEVEL I
4' - 0"
- GRADE
3' - 6"
- STORAGE TANK
1' - 9"
- N.A.V.D.
0' - 0"

- 0500 LEVEL
71' - 4"
- 0400 LEVEL
61' - 4"
- 0300 LEVEL
51' - 4"
- 0200 LEVEL
37' - 4"
- 0100 LEVEL
23' - 4"
- POOL DECK
19' - 10"
- GARAGE LEVEL II
12' - 8"
- GARAGE LEVEL I
4' - 0"
- STORAGE TANK
1' - 9"
- N.A.V.D.
0' - 0"

PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE, SUITE # 202
DELRAY BEACH, FL 33483

CONSULTANTS

ARCHITECT OF RECORD
NICHOLS BROSCH WURST WOLFE
& ASSOCIATES, INC
161 ALMERIA AVE
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REVISIONS

NO.	DATE	ISSUE
1	11-20-19	Revision 1

PROJECT STATUS

FDEP SUBMITTAL

DATE OF ISSUE

05/06/19

SCALE

1/16" = 1'-0"

PROJECT NO. & TITLE

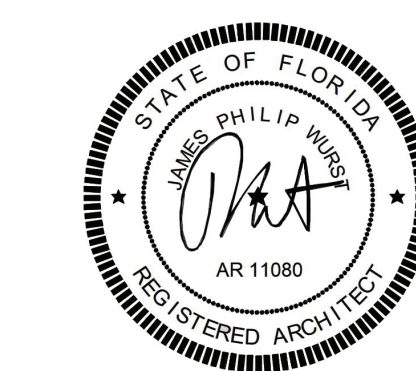
17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION

0 8' 16' 32'
1/16" = 1'-0"

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080



DRAWING TITLE

A1.04
BUILDING SECTION

FDEP - BUILDING SECTION 1

1/16" = 1'-0"

NOTE: DIMENSIONS SHOWS FURTHEST BUILDING DISTANCE TO THE COASTAL
CONSTRUCTION CONTROL LINE. REFER TO PLANS.

367'-2"
(TO C.C.C.L.)

214'-3"
(TO MEAN HIGH WATER LINE)

- ELEV OVERRIDE
151' - 4"
- ELEV. MACHINE
ROOM
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37' - 4"
- 0100 LEVEL
23' - 4"
- GARAGE LEVEL II
12' - 8"
- GARAGE LEVEL I
4' - 0"
- STORAGE TANK
1' - 9"
- N.A.V.D.
0' - 0"

MEAN HIGH WATER LINE

SOUTH BEACH ACCESS
WOOD STRUCTURE:
(MATCH ADJACENT BEACH ELEVATION)

PREVIOUSLY APPROVED WALL
(7.4' NAVD TOP OF WALL)

5' - 9 1/4"

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ADDED BUILDING SECTION

1/16" = 1'-0"

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NO.	DATE	ISSUE
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05/06/19

SCALE
AS SHOWN
PROJECT NO. & TITLE
17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE
JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

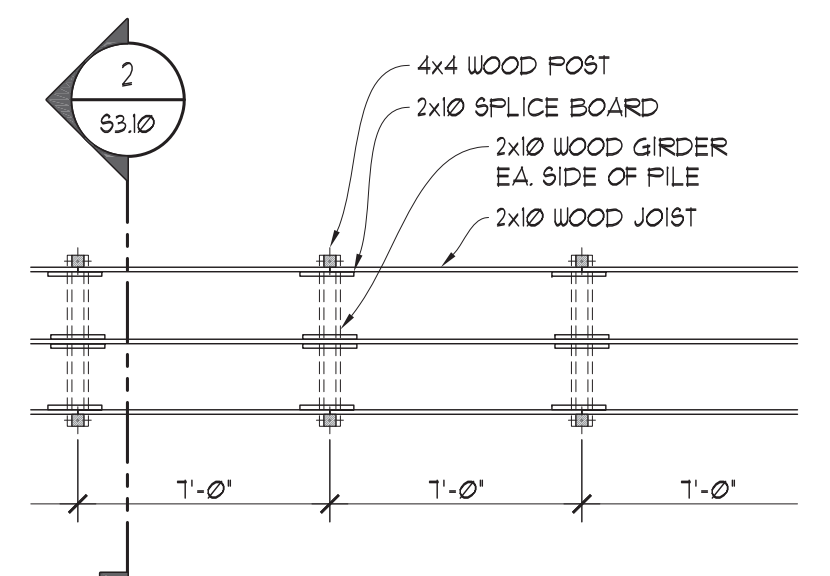
\$0.00
FOUNDATION

T.O. PILECAPS @ +3.00' NAVD
AUGER PILES: (assumed values)
GARAGE: 14" TO 16" w/ 175K compression
TOWER: 20" TO 24" w/ 350K compression

PROJECTED BUILDING LENGTH : 686.5'
PROJECTED SHEARWALLS LENGTH : 135.25'
686.5' x 0.20 = 137.24 > 135.25

- NOTES:**
- T.O. PILECAPS @ +3'-0" NAVD, UON
 - XX' CONCRETE SLAB W/ F610 @ 2000 PSI.
 - SEE SHEET 5-000 FOR GENERAL NOTES.
 - REFER TO DRAWINGS 5-300 TO 5-320 FOR FOUNDATION NOTES, DETAILS AND SECTIONS.
 - PROVIDE 2"x30"x30" CORNER BARS, AT ALL TIE-BEAM/FLOOR BEAM BENDS AND CORNERS.
 - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
 - REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB SLOPES, SHAFT OPENING LOCATIONS, DIMENSIONS AND ADDITIONAL INFORMATION.
 - REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB SLOPES, SHAFT OPENING LOCATIONS, DIMENSIONS AND ADDITIONAL INFORMATION.
 - SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND EQUIPMENT DRAWINGS FOR ALL SLAB PENETRATION LAYOUT, QUANTITIES, AND DIMENSIONS.
 - NO CORE DRILLING FOR PIPE PENETRATIONS OR INSTALLATION OF METAL STRUCTURES IS PERMITTED. PLACEMENT OF ALL PIPE SLEEVES, SLOTS AND ANCHORS SHALL BE DIMENSIONED AND COORDINATED WITH ALL TRADES AND APPROVED BY ARCHITECT, MECHANICAL, AND STRUCTURAL ENGINEER PRIOR TO ANY PLACEMENT OF CONCRETE.

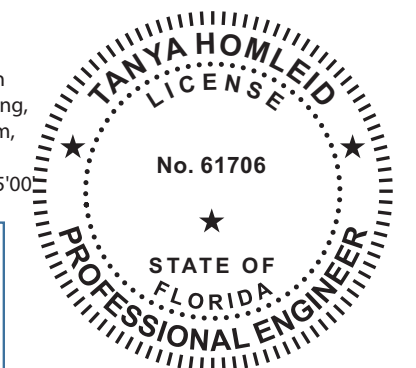
- LEGEND**
- POURED CONCRETE
 - NON-BEARING POURED CONCRETE
 - NON-BEARING CMU WALL TO BE INSTALLED AFTER COMPLETION OF FLOOR / ROOF ABOVE
 - LOCATION OF AUGER CAST COMPRESSION CONCRETE PILES
 - LOCATION OF AUGER CAST TENSION CONCRETE PILES, SEE SHEET 5-300
 - INDICATES TOP BAR REINF.
 - INDICATES BOT. BAR REINF.



TYP. WOOD FRAMING PLAN
SCALE: 1"=3'-0"

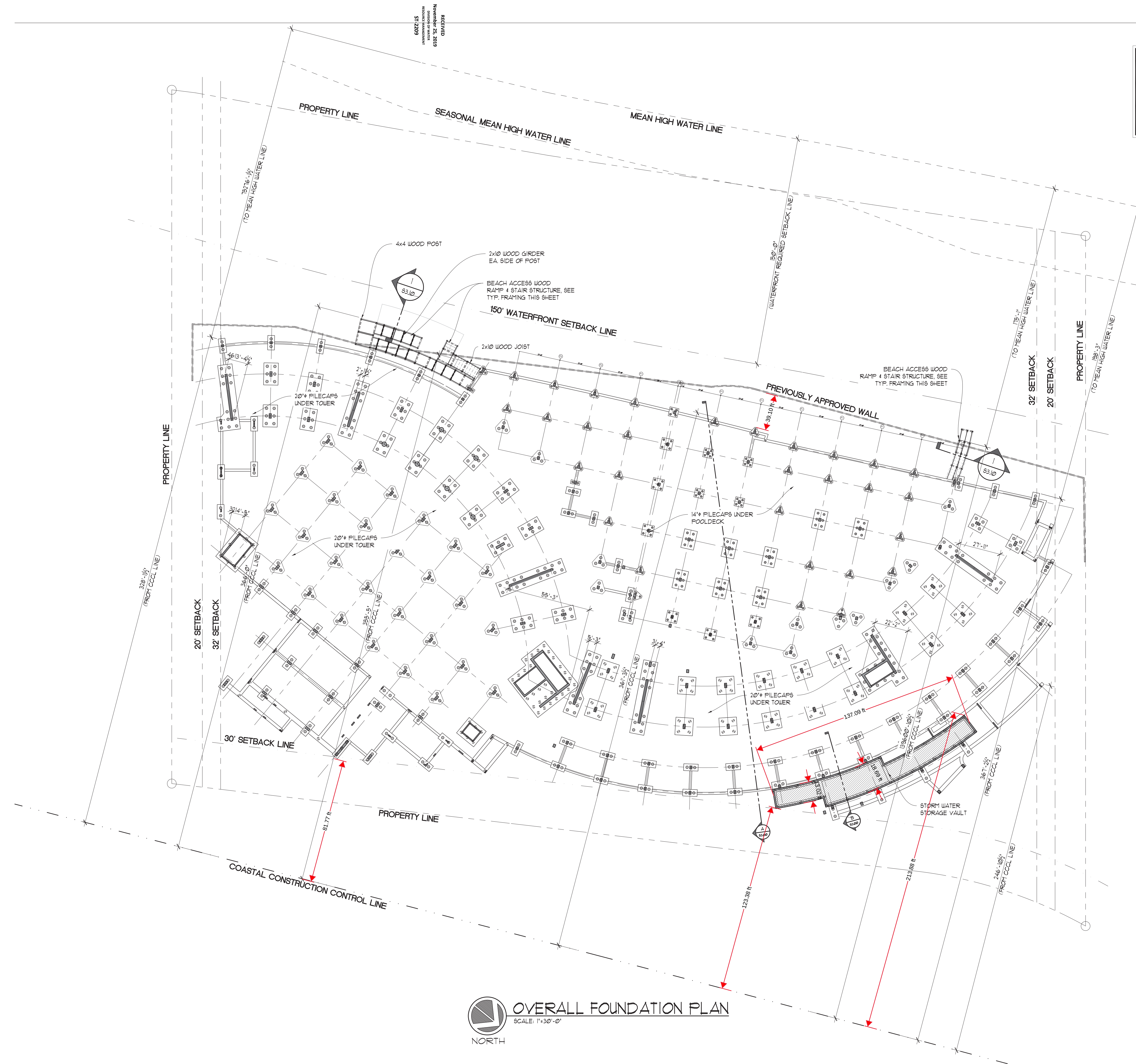
Tanya Homleid
Digitally signed by Tanya Homleid
DN: cn=Tanya Homleid, o=Optimus Structural Design LLC, ou=Structural Engineering, email=tanya@optimusdd.com, c=US
Date: 2019.11.19 10:44:48 -0500

Tanya Homleid, State of Florida, Professional Engineer, License No. 61706.
This man has been digitally signed and sealed by Tanya Homleid, PE.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
Optimus Structural Design LLC (CA 26217)
7850 NW 146 Street, Suite 305
Miami Lakes, FL 33016



OPTIMUS CONSULTING ENGINEERS
C.A. No: 26217 61706
TANYA HOMLEID PE
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MIAMI LAKES, FLORIDA 33016
Tel: 305.512.5860
Fax: 305.512.5861
E-mail: optimusdd@bellsouth.net

OVERALL FOUNDATION PLAN
SCALE: 1"=30'-0"
NORTH



PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE. SUITE # 202
DELRAY BEACH, FL 33483

CONSULTANTS

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REVISIONS

NO.	DATE	ISSUE
1	11/20/2019	

PROJECT STATUS

FDEP SUBMITTAL

DATE OF ISSUE

05/06/19

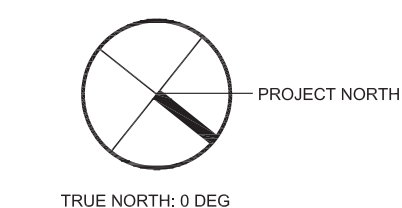
SCALE

AS SHOWN

PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

S1.00
GARAGE LEVEL I

PROJECTED BUILDING LENGTH : 686.5'
PROJECTED SHEARWALLS LENGTH : 135.25'

$686.5' \times 0.20 = 137.24 > 135.25$

NOTES :

- SEE SHEET 5-000 FOR GENERAL NOTES.
- REFER TO DRAWINGS 5-300 TO 5-320 FOR FOUNDATION NOTES, DETAILS AND SECTIONS.
- PROVIDE 2#X30"X30" CORNER BARS AT ALL TIE-BEAM/FLOOR BEAM BENDS AND CORNERS.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB SLOPES, SHAFT OPENING LOCATIONS, DIMENSIONS AND ADDITIONAL INFORMATION.
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- NO CORE DRILLING FOR PIPE PENETRATIONS OR INSTALLATION OF METAL STRUCTURES IS PERMITTED. PLACEMENT OF ALL PIPE SLEEVES, SLOTS AND ANCHORS SHALL BE DIMENSIONED AND COORDINATED WITH ALL TRADES AND APPROVED BY ARCHITECT, MECHANICAL AND STRUCTURAL ENGINEER PRIOR TO ANY PLACEMENT OF CONCRETE.
- REFER TO DRAWING 5-500 AND 5-510 FOR COLUMN SCHEDULE AND DETAILS.
- ALL EXTERIOR MASONRY WALLS SHALL BE 8" NOMINAL CMU WALL REINFORCED WITH #6 VERT. BAR SPACED @ 24" O.C. MAX. AND 3 GA. HORIZONTAL JOINT REINFORCING (LADDER TYPE) SPACED AT 16" O.C. MAX. SEE DRAWING 5-100 FOR ADD'L CMU WALL REINFORCING REQUIREMENTS.
- CONTRACTOR MUST PROVIDE 8"x16" TIE BEAM REINFORCED W/ 2 #5 TOP 4 BOTT. #3@12" STIRRUPS WHEN CMU WALL EXCEED 12'-0" IN HEIGHT.
- REFER TO DRAWING 5-400 TO 5-430 FOR SHEAR WALL DETAILS.

LEGEND

- POURED CONCRETE
- NON-BEARING POURED CONCRETE
- NON-BEARING CMU WALL TO BE INSTALLED AFTER COMPLETION OF FLOOR / ROOF ABOVE
- CONCRETE SUPPORT BELOW
- LOCATION OF 14" DIA. AUGERCAST COMPRESSION CONCRETE PILES, SEE SHEET 5-300
- LOCATION OF 14" DIA. AUGERCAST TENSION CONCRETE PILES, SEE SHEET 5-300
- INDICATES LOCATION OF SHEARHEAD SEE SHEET 5-440 FOR DETAILS
- INDICATES TOP BAR REINF.
- INDICATES BOT. BAR REINF.

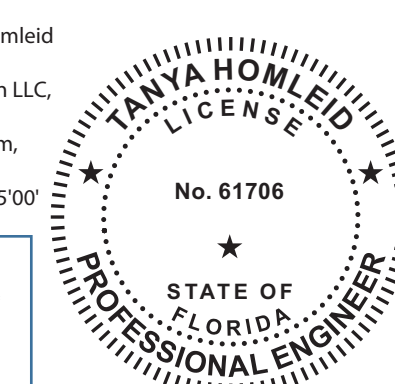
FLOOR DESIGN LOADS

LIVE LOADS	RETAIL	15 PSF
	PUBLIC	100 PSF
	STAIRS	100 PSF
	ELEV. LOBBIES, CORRIDORS	100 PSF
DEAD LOADS	SLAB SELFWEIGHT	150 PCF X SLAB THICKNESS
	MASONRY FILLED BLOCK	80 PSF OF LINEAR WALL
	SUPERIMPOSED DEADLOAD	25 PSF

**Tanya
Homleid**

Digitally signed by Tanya Homleid
DN: cn=Tanya Homleid,
o=Optimus Structural Design LLC,
ou=Structural Engineering,
email=tanya@optimusdd.com,
c=US
Date: 2019.11.19 10:45:43 -0500

Tanya Homleid, State of Florida, Professional Engineer, License No. 61706.
This item has been digitally signed and sealed by Tanya Homleid, PE.
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Tel: 305.512.5860
Fax: 305.512.5861
E-mail: optimusdd@bellsouth.net



LEVEL 000: OVERALL GARAGE LEVEL I FRAMING PLAN

SCALE: 1"=30'-0"

NORTH

RECEIVED
November 25, 2019
Optimus Structural Design LLC
57-2209



PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE. SUITE # 202
DELRAY BEACH, FL 33483

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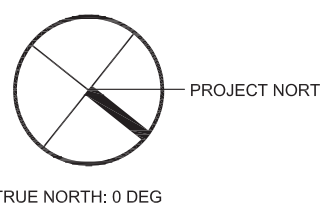
SCALE

AS SHOWN

PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

S1.01
GARAGE LEVEL II

PROJECTED BUILDING LENGTH : 686.5'
PROJECTED SHEARWALLS LENGTH : 135.25'

$$686.5' \times 0.20 = 137.24 > 135.25$$

NOTES:

1. SEE SHEET S-000 FOR GENERAL NOTES.
2. REFER TO DRAWINGS S-300 TO S-320 FOR FOUNDATION NOTES, DETAILS AND SECTIONS.
3. PROVIDE 2#X30"X30" CORNER BARS AT ALL TIE-BEAM/FLOOR BEAM BENDS AND CORNERS.
4. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
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9. REFER TO DRAWING S-500 AND S-510 FOR COLUMN SCHEDULE AND DETAILS.
10. ALL EXTERIOR MASONRY WALLS SHALL BE 8" NOMINAL CMU WALL REINFORCED WITH #6 VERT. BAR SPACED @ 24" O.C. MAX. AND 3 GA. HORIZONTAL JOINT REINFORCING (LADDER TYPE) SPACED AT 16" O.C. MAX. SEE DRAWING S-100 FOR ADD'L CMU WALL REINFORCING REQUIREMENTS.
11. CONTRACTOR MUST PROVIDE 8"x16" TIE BEAM REINFORCED W/ 2 #5 TOP 4 BOTT. #3@12" STIRRUPS WHEN CMU WALL EXCEED 12'-0" IN HEIGHT.
12. REFER TO DRAWING S-400 TO S-430 FOR SHEAR WALL DETAILS.

LEGEND

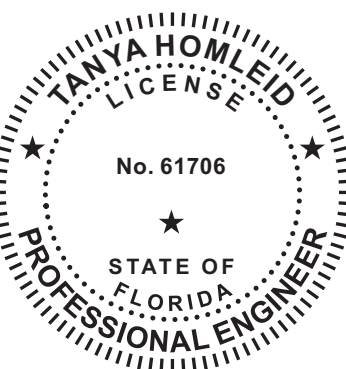
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- NON-BEARING POURED CONCRETE
- NON-BEARING CMU WALL TO BE INSTALLED AFTER COMPLETION OF FLOOR / ROOF ABOVE
- CONCRETE SUPPORT BELOW
- INDICATES LOCATION OF SHEARHEAD SEE SHEET S-440 FOR DETAILS
- INDICATES TOP BAR REINF.
- INDICATES BOT. BAR REINF.

DEAD END POST-TENSIONED STRAND LIVE END CABLE PROFILE

FLOOR DESIGN LOADS

LIVE LOADS	PARKING	50 PSF
	PARKING W/ LIFTS	100 PSF
	BALCONIES	60 PSF
	STAIRS	100 PSF
	ELEV. LOBBIES, CORRIDORS	100 PSF
DEAD LOADS	SLAB SELFWEIGHT	150 PCF x SLAB THICKNESS
	MASONRY FILLED BLOCK	80 PSF OF LINEAR WALL
	SUPERIMPOSED DEADLOAD	5 PSF

Tanya Homleid
Digitally signed by Tanya Homleid
DN: cn=Tanya Homleid, o=Optimus Structural Design LLC, ou=Structural Engineering, email=tanya@optimusd.com, c=US
Date: 2019.11.19 10:46:30 -0500



OPTIMUS CONSULTING ENGINEERS
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MIAMI LAKES, FLORIDA 33016
Tel: 305.512.5860
Fax: 305.512.5861
e-mail: optimusd@bellsouth.net



LEVEL 050: OVERALL GARAGE LEVEL II FRAMING PLAN

SCALE: 1"=30'-0"

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.

PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
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SURVEYOR
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(941) 747-2981

REVISIONS

NO.	DATE	ISSUE
1	11/20/2019	

PROJECT STATUS

FDP SUBMITTAL

DATE OF ISSUE

05/06/19

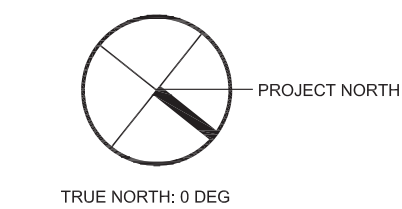
SCALE

AS SHOWN

PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

S1.02
LOBBY LEVEL

PROJECTED BUILDING LENGTH : 686.5'
PROJECTED SHEARWALLS LENGTH : 135.25'

$$686.5' \times 0.20 = 137.24 > 135.25$$

NOTES :

- SEE SHEET 5-000 FOR GENERAL NOTES.
- REFER TO DRAWINGS 5-300 TO 5-320 FOR FOUNDATION NOTES, DETAILS AND SECTIONS.
- PROVIDE 2#X30"X30" CORNER BARS AT ALL TIE-BEAM/FLOOR BEAM BENDS AND CORNERS.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB SLOPES, SHAFT OPENING LOCATIONS, DIMENSIONS AND ADDITIONAL INFORMATION.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB SLOPES, SHAFT OPENING LOCATIONS, DIMENSIONS AND ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND EQUIPMENT DRAWINGS FOR ALL SLAB PENETRATION LAYOUT, QUANTITIES, AND DIMENSIONS.
- NO CORE DRILLING FOR PIPE PENETRATIONS OR INSTALLATION OF METAL STRUCTURES IS PERMITTED. PLACEMENT OF ALL PIPE SLEEVES, SLOTS AND ANCHORS SHALL BE DIMENSIONED AND COORDINATED WITH ALL TRADES AND APPROVED BY ARCHITECT, MECHANICAL AND STRUCTURAL ENGINEER PRIOR TO ANY PLACEMENT OF CONCRETE.
- REFER TO DRAWING 5-500 AND 5-510 FOR COLUMN SCHEDULE AND DETAILS.
- ALL EXTERIOR MASONRY WALLS SHALL BE 8" NOMINAL CMU WALL REINFORCED WITH 1# VERT. BAR SPACED @ 24" O.C. MAX. AND 3 GA. HORIZONTAL JOINT REINFORCING (LADDER TYPE) SPACED AT 16" O.C. MAX. SEE DRAWING 5-100 FOR ADD'L CMU WALL REINFORCING REQUIREMENTS.
- CONTRACTOR MUST PROVIDE 8"x16" TIE BEAM REINFORCED W/ 2 #5 TOP, 4 BOTT, #3@12" STIRRUPS WHEN CMU WALL EXCEED 12'-0" IN HEIGHT.
- REFER TO DRAWING 5-400 TO 5-430 FOR SHEAR WALL DETAILS.

LEGEND

- POURED CONCRETE
- NON-BEARING POURED CONCRETE
- NON-BEARING CMU WALL TO BE INSTALLED AFTER COMPLETION OF FLOOR / ROOF ABOVE
- CONCRETE SUPPORT BELOW
- INDICATES LOCATION OF SHEARHEAD SEE SHEET 5-440 FOR DETAILS
- INDICATES TOP BAR REINF.
- INDICATES BOT. BAR REINF.
- DEAD END
- POST-TENSIONED STRAND CABLE PROFILE
- LIVE END

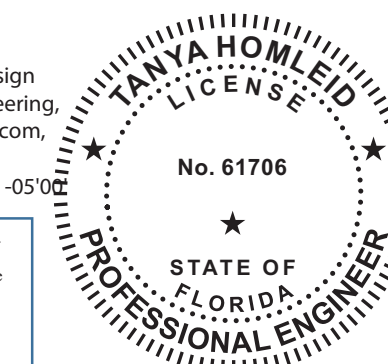
FLOOR DESIGN LOADS

LIVE LOADS	PARKING	50 PSF
	PARKING W/ LIFTS	100 PSF
	BALCONIES	60 PSF
	STAIRS	100 PSF
	ELEV. LOBBIES, CORRIDORS	100 PSF
DEAD LOADS	SLAB SELFWEIGHT	150 PCF x SLAB THICKNESS
	MASONRY FILLED BLOCK	80 PSF OF LINEAR WALL
	SUPERIMPOSED DEADLOAD	5 PSF

**Tanya
Homleid**

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Date: 2019.11.19 10:47:15 -0500

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LEVEL 100: OVERALL FLOOR FRAMING PLAN

SCALE: 1"=30'-0"

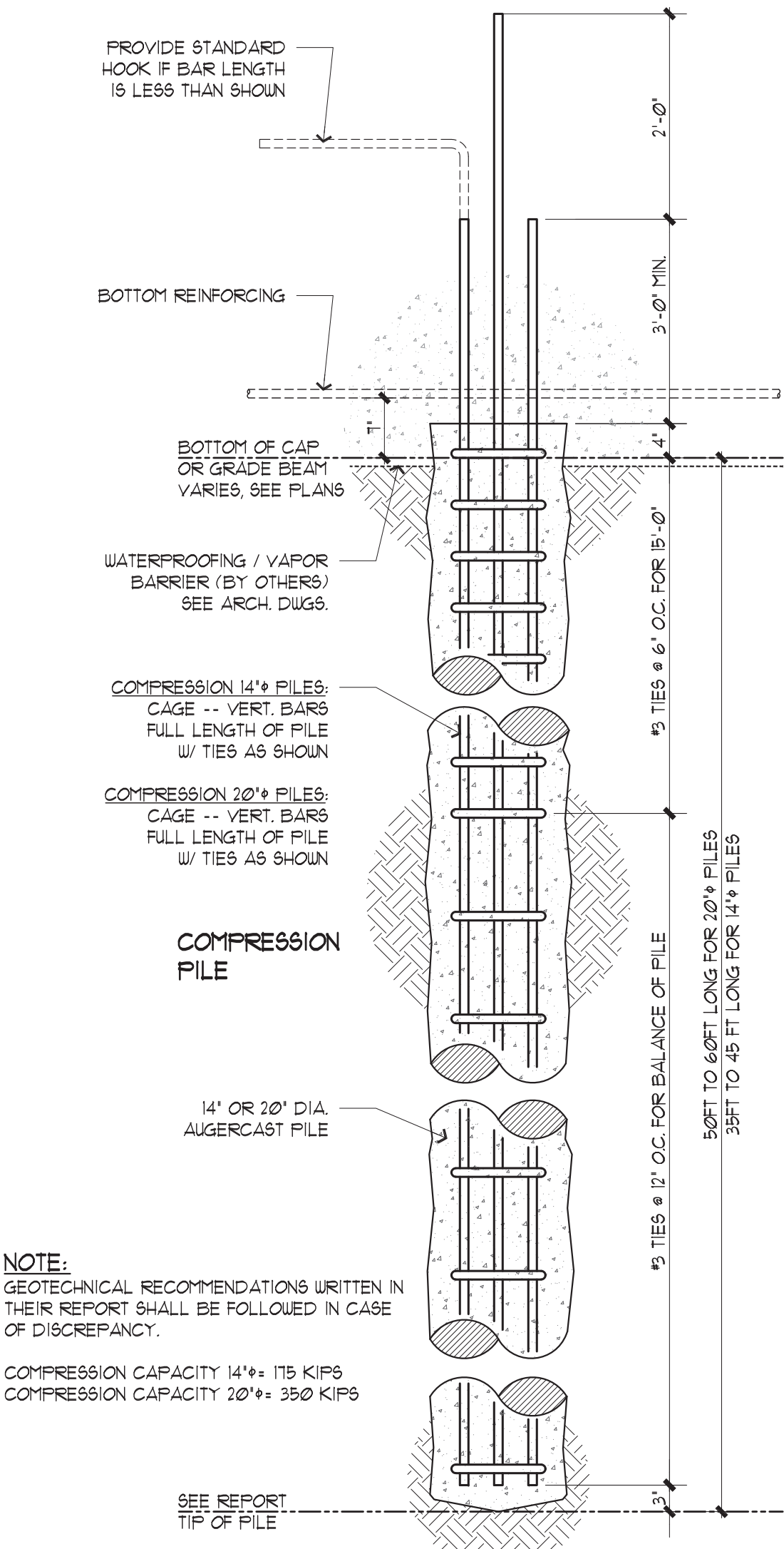
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November 25, 2019
Optimus Structural Design
LLC
ST-2019

FILE FOUNDATION NOTES:

1. THIS FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS PROVIDED IN LETTER DATED MARCH 5TH, 2019 IN COORDINATION WITH NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC. FC FILE'S DESIGN LOADS ARE SHOWN BELOW.

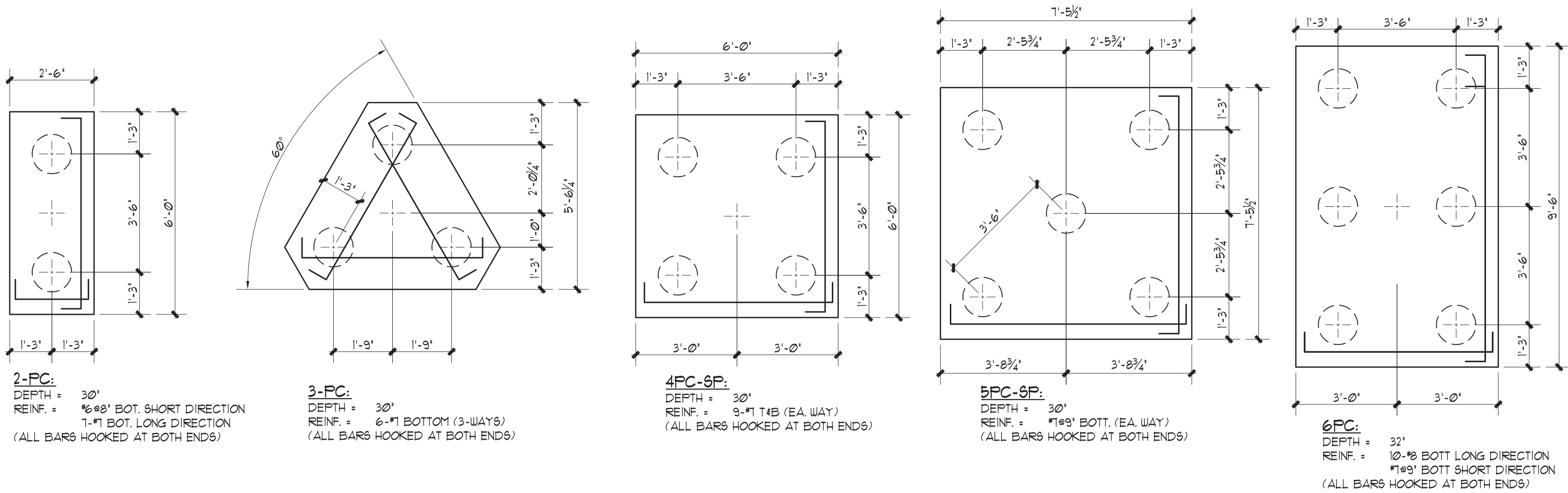
FILE	COMPRESSION	TENSION	LATERAL
14"Ø TO 16"Ø AUGERCAST	175 K		
20"Ø TO 24"Ø AUGERCAST	350 K		

2. ALL FILE WORK SHALL BE SUPERVISED BY A STATE OF FLORIDA LICENSED PROFESSIONAL ENGINEER.
3. ALL FILE WORK SHALL CONFORM WITH THE FLORIDA BUILDING CODE 2017.
4. TOP OF FILE CAPS ARE INDICATED ON PLAN OR THIS: (+ X' - X' N.G.V.D.) GENERAL CONTRACTOR SHALL IDENTIFY THOSE FILE CAPS WHERE CONFLICT WITH OTHER TRADES EXIST AND BRING THEM TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK AT THAT AREA.
5. ALL FILES ARE TO BE INSTALLED DOWN TO THE BEARING STRATA AS PER SOIL CONSULTANT'S RECOMMENDATIONS.
6. RECORDS OF FILE PENETRATION OF EVERY FILE, AND THE BEHAVIOR OF SOME DURING INSTALLATION SHALL BE FILED WITH THE BUILDING DEPARTMENT AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
7. A PLAN SHOWING THE IDENTIFICATION AND THE AS-BUILT LOCATION OF ALL FILES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO POURING OF FILE CAPS AND GRADE BEAMS.
8. THE OWNER SHALL CONTRACT A COMPETENT SOILS LABORATORY TO SUPERVISE THE INSTALLATION OF FILES, PERFORM PILE GROUT TESTS AS PER SPECIFICATIONS AND SOIL REPORT AND SUPERVISE THE LOAD TESTS.
9. LOAD TESTS SHALL BE PERFORMED AS PER THE FLORIDA BUILDING CODE 2014. IN ADDITION THE LOAD TEST SHALL VERIFY THE FILE TENSION AND LATERAL CAPACITIES.
10. FILE GROUT SHALL BE A HIGH-STRENGTH MORTAR COMPOSED OF A MIXTURE OF PORTLAND CEMENT, MINERAL FILLER, FLUIDIFIER, SAND AND WATER SO PROPORTIONED AND MIXED AS TO PROVIDE A MORTAR CAPABLE OF MAINTAINING THE SOLIDS IN SUSPENSION WITHOUT APPRECIABLE WATER GAIN, YET WHICH MAY BE PUMPED WITHOUT DIFFICULTY AND WHICH WILL LATERALLY PENETRATE AND FILL ANY VOIDS IN THE FOUNDATION MATERIAL. THE MATERIALS SHALL BE SO PROPORTIONED AS TO PROVIDE A HARDENED MORTAR HAVING AN ULTIMATE COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS FOR ALL FILES.
11. CONTRACTOR SHALL PROTECT FROM CORROSION ANY STEEL EXPOSED TO WEATHER FOR A PROLONGED PERIOD OF TIME DURING CONSTRUCTION.
12. PROVIDE FULL TENSION SPLICES IN ALL REINFORCING, CONFORM TO ALL APPLICABLE REQUIREMENTS OF "CONCRETE REINFORCEMENT" AND "CAST-IN-PLACE CONCRETE." LOCATION TOLERANCE SHALL BE AS FOLLOWS:
2" SINGLE FILE AND 2" FILE CAPS TRANSVERSE TO LINE OF FILES, ALL OTHERS 3".
13. WHERE AS BUILT FILES ARE OUT OF POSITION BY MORE THAN THE TOLERANCES, OR REJECTED BY THE SUPERVISING GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL BEAR ALL COSTS OF REVIEWING, CHECKING, AND REDESIGNING THE FILE CAPS FOR ADDITIONAL MATERIALS AND LABOR TO CONSTRUCT THE REVISED CAPS, AND FOR ANY ADDITIONAL FILES THAT ARE REQUIRED TO SATISFY THE DESIGN CRITERIA.

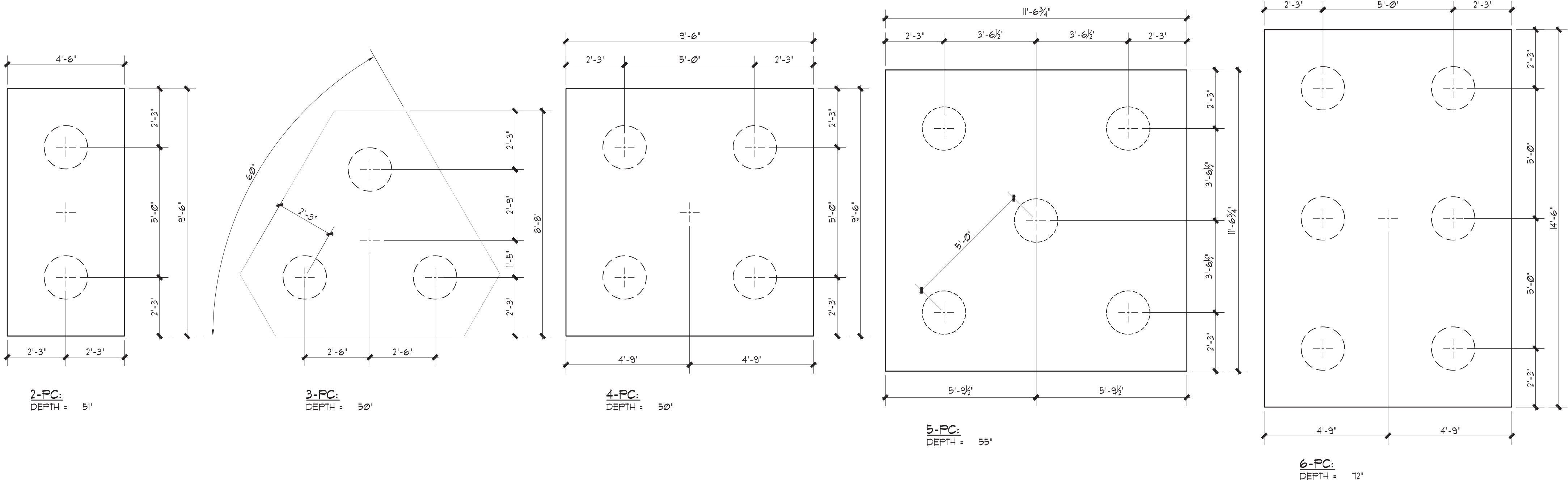


* NOTE: FILE TIP ELEVATION MAY VARY, SEE SOILS REPORT BY GEOTECHNICAL ENGINEER

A TYP. 14"/20" DIA. AUGER PILE DETAIL
SCALE = NTS



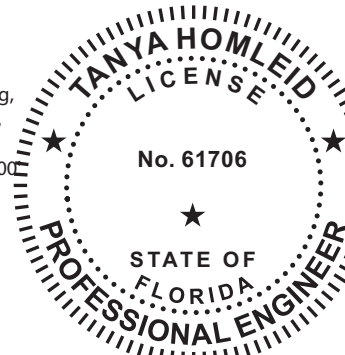
1 TYPICAL 14" DIA. FILECAP DETAILS
SCALE 3/8"=1'-0"



2 TYPICAL 20" DIA. FILECAP DETAILS
SCALE 3/8"=1'-0"

Tanya Homleid
Digitally signed by Tanya Homleid
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Date: 2019.11.19 10:48:04 -05'

Tanya Homleid, State of Florida, Professional Engineer, License No. 61706.
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E-mail: optimusdd@bellsouth.net



PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE. SUITE # 202
DELRAY BEACH, FL 33483

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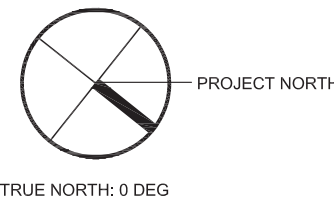
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SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

S2.00
FOUNDATION SCHEDULE
AND DETAILS

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.

PROJECT

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SARASOTA, FL
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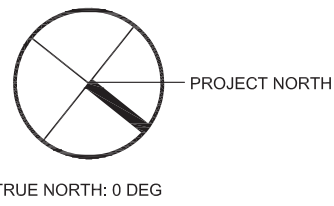
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SCALE & ORIENTATION



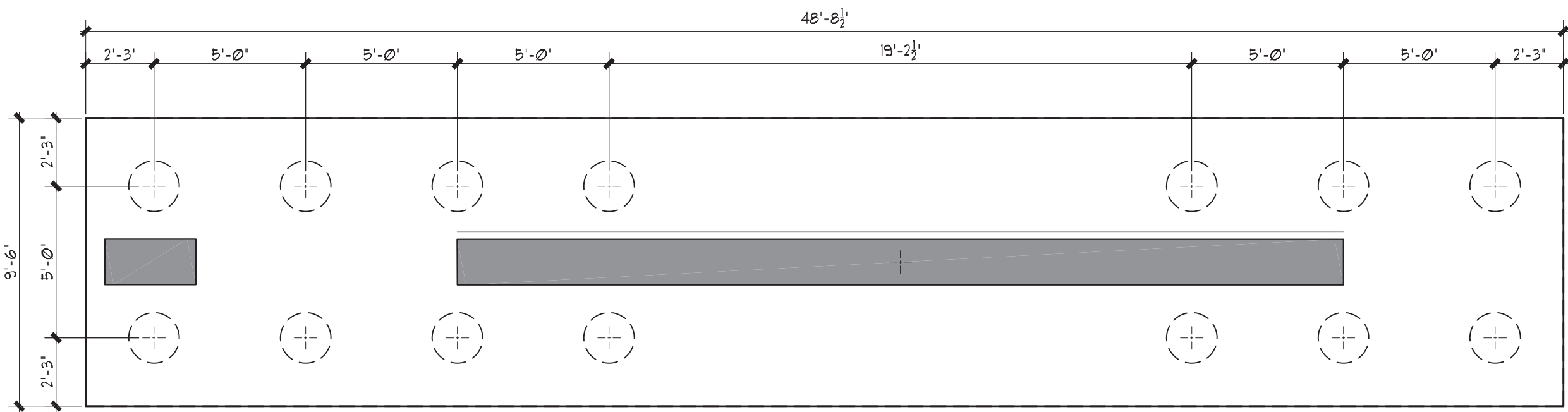
SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
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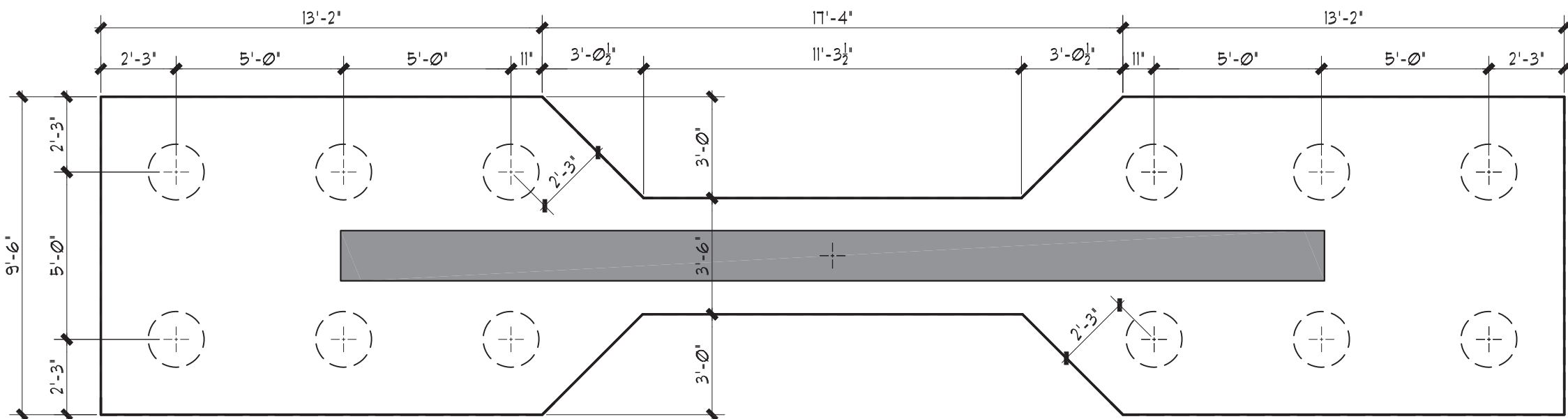
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S2.10
FOUNDATION DETAILS



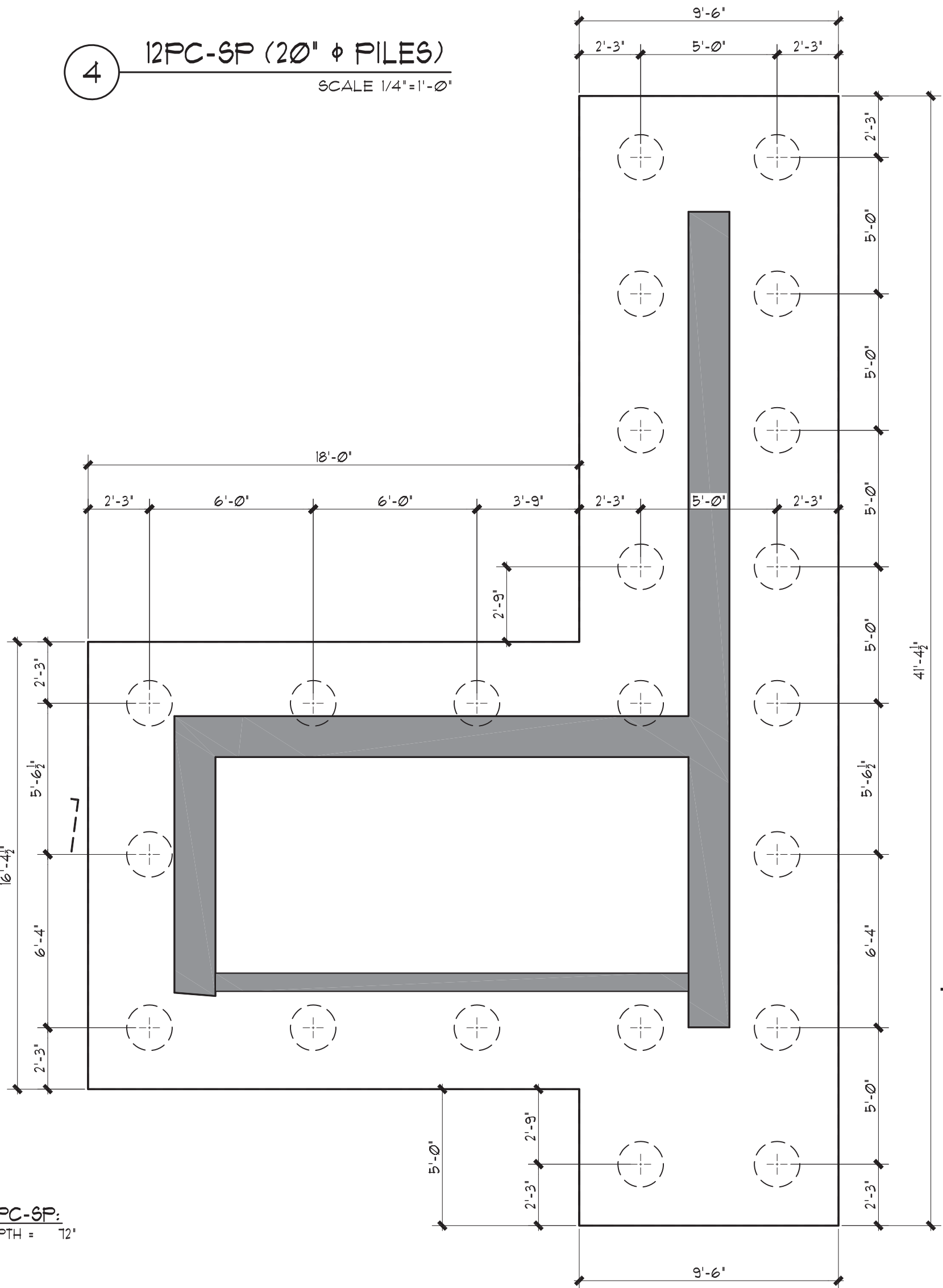
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SCALE 1/4"=1'-0"



12PC-9F
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SCALE 1/4"=1'-0"



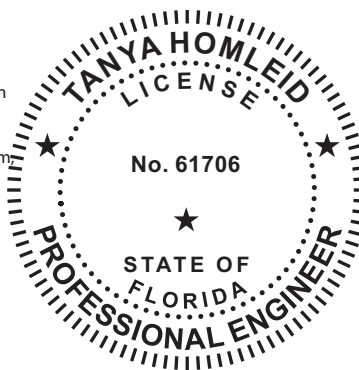
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SCALE 1/4"=1'-0"

Tanya
Homleid

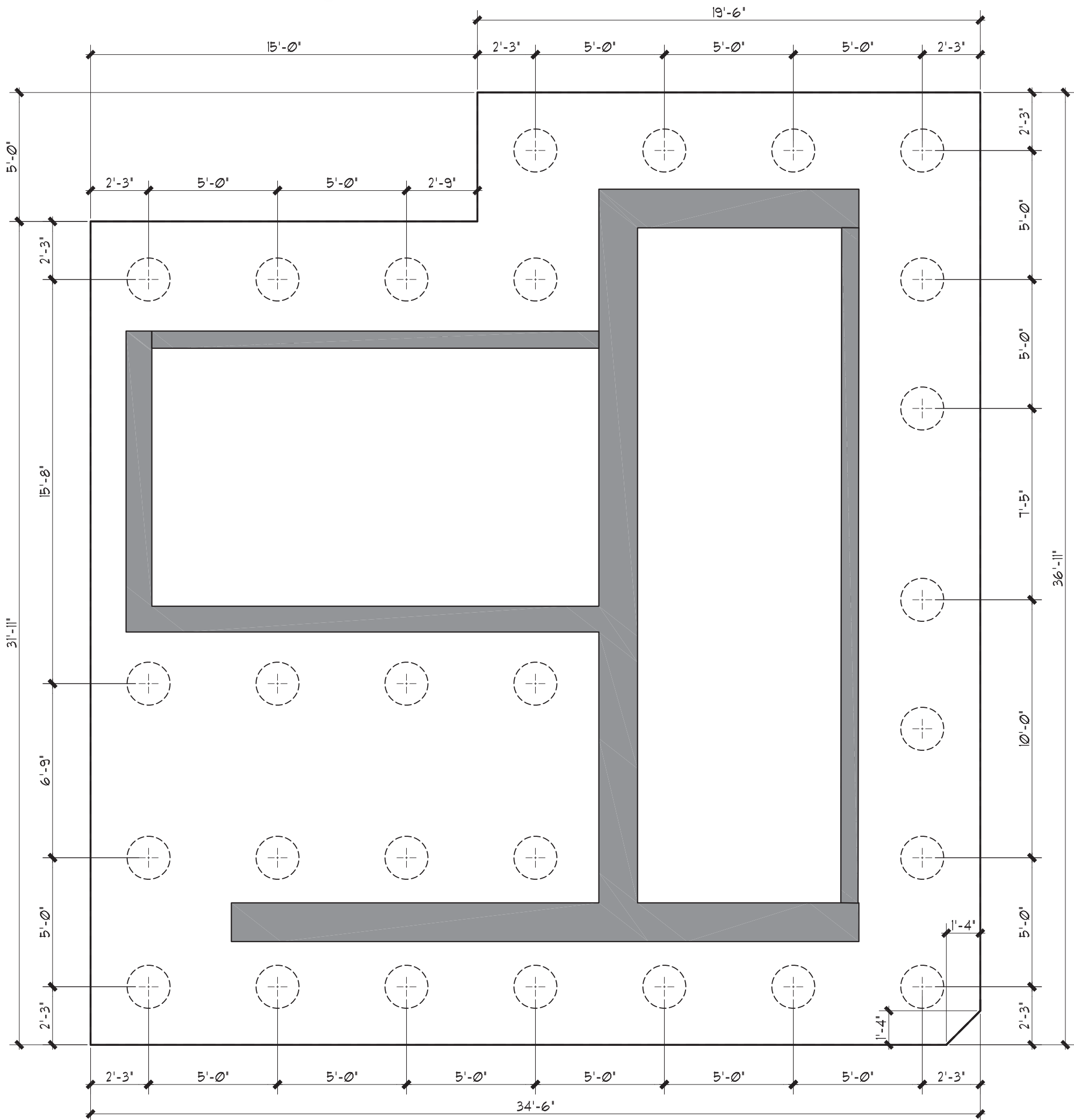
Digitally signed by Tanya
Homleid
DN: cn=Tanya Homleid,
o=Optimus Structural Design
LLC, ou=Structural
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email=tanya@optimusd.com,
c=US
Date: 2019.11.19 10:52:10
-0500

Tanya Homleid, State of Florida, Professional Engineer, License No. 61706
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Miami Lakes, FL 33005



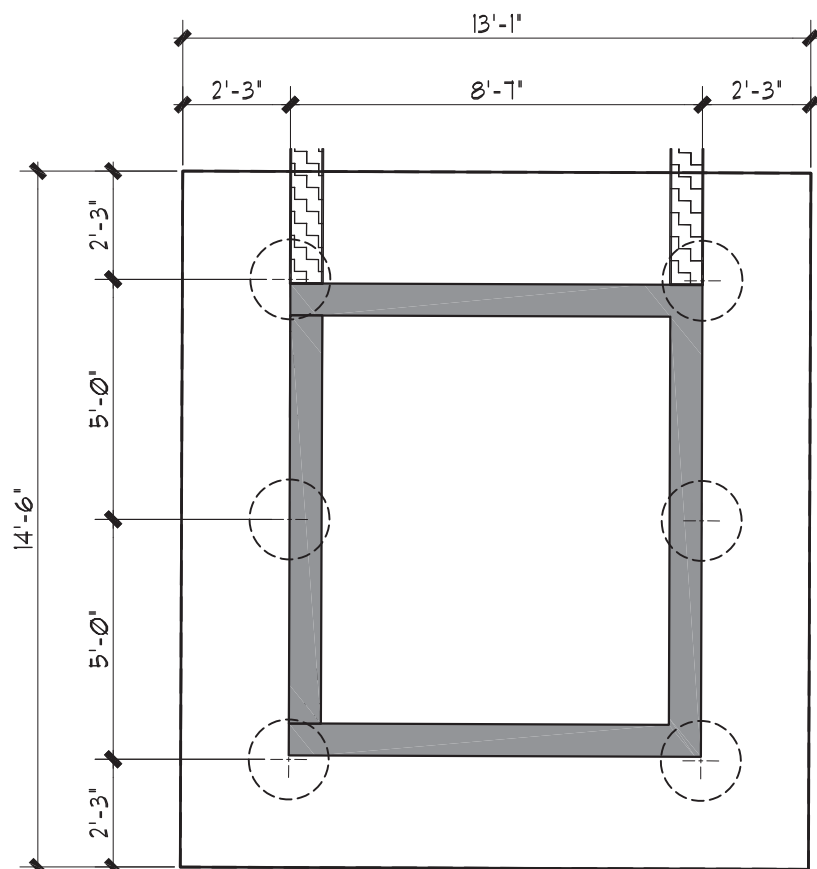
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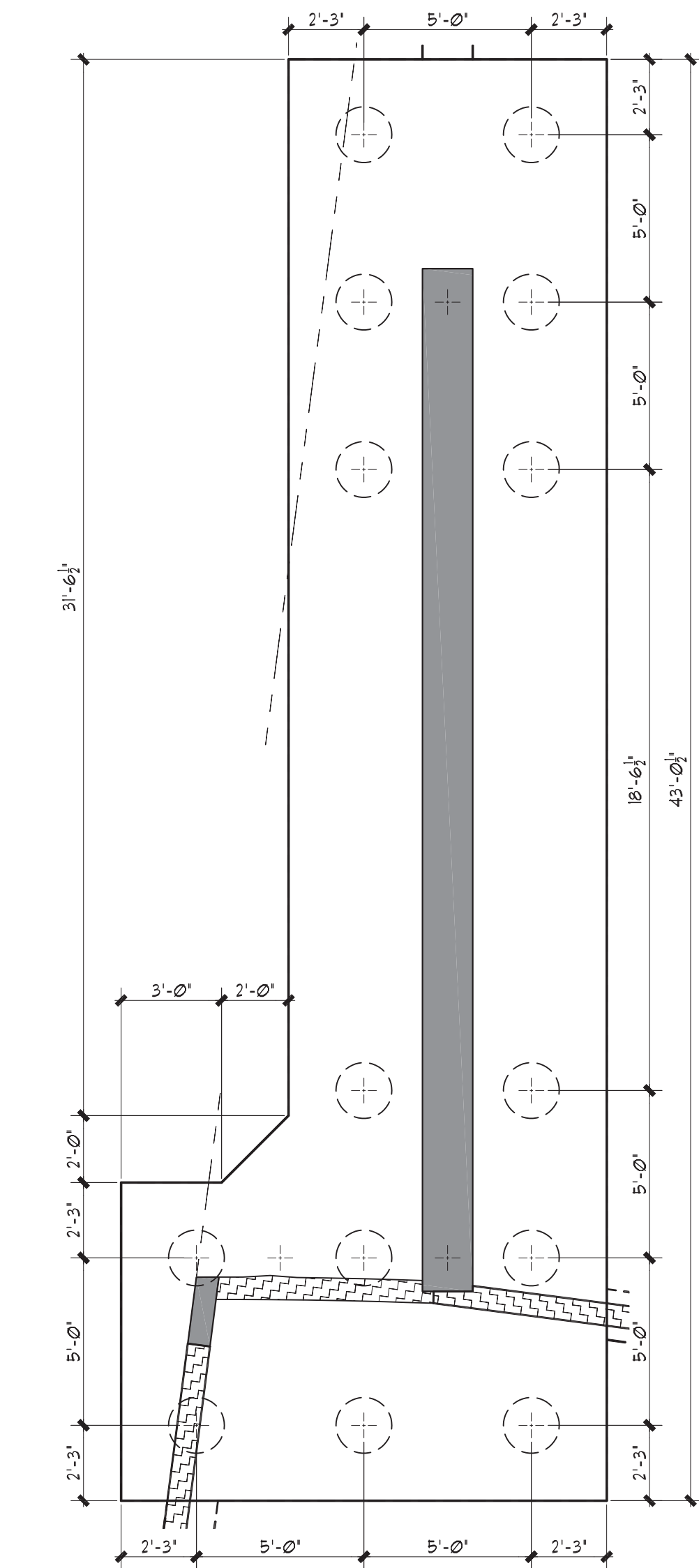
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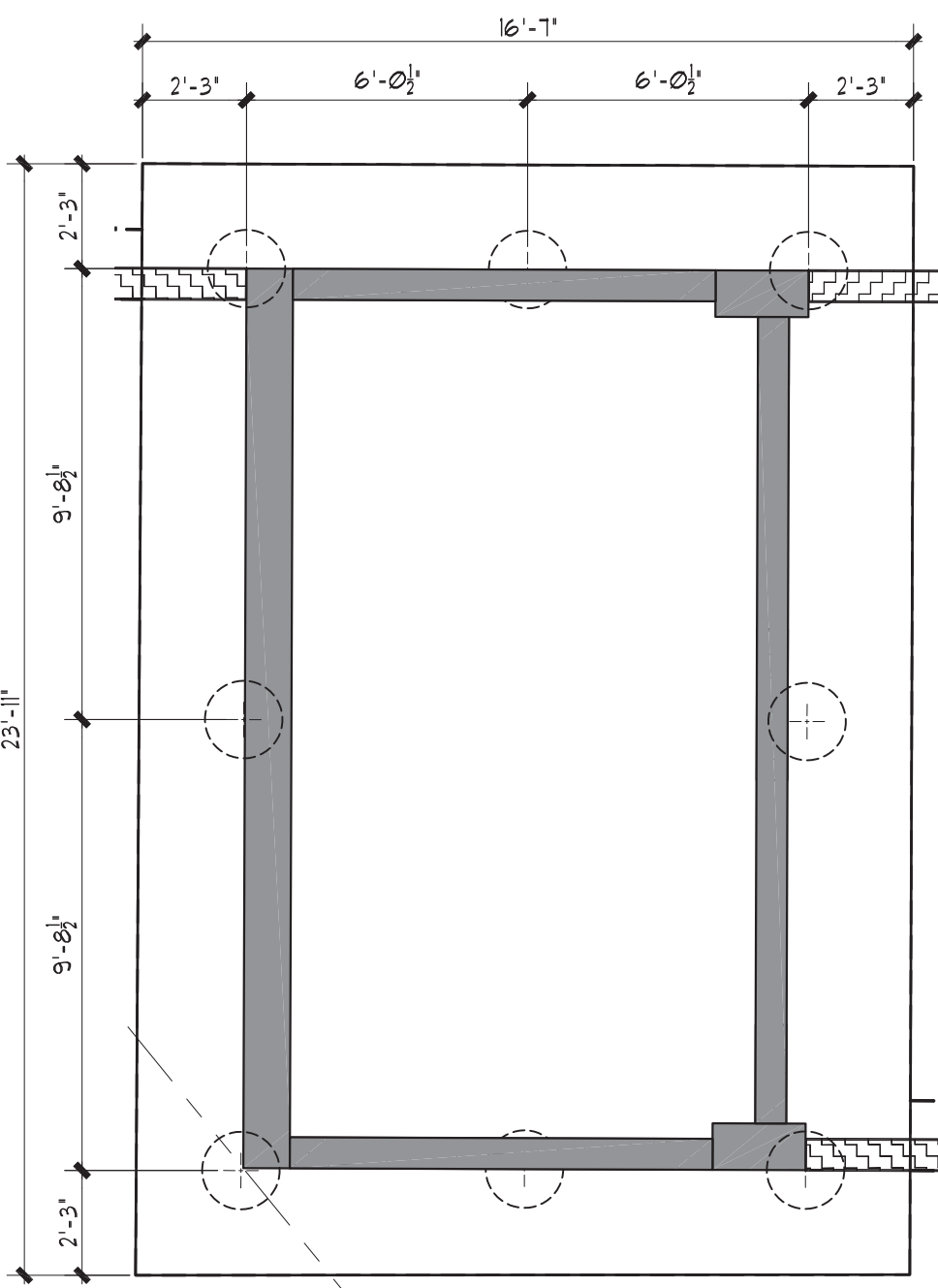
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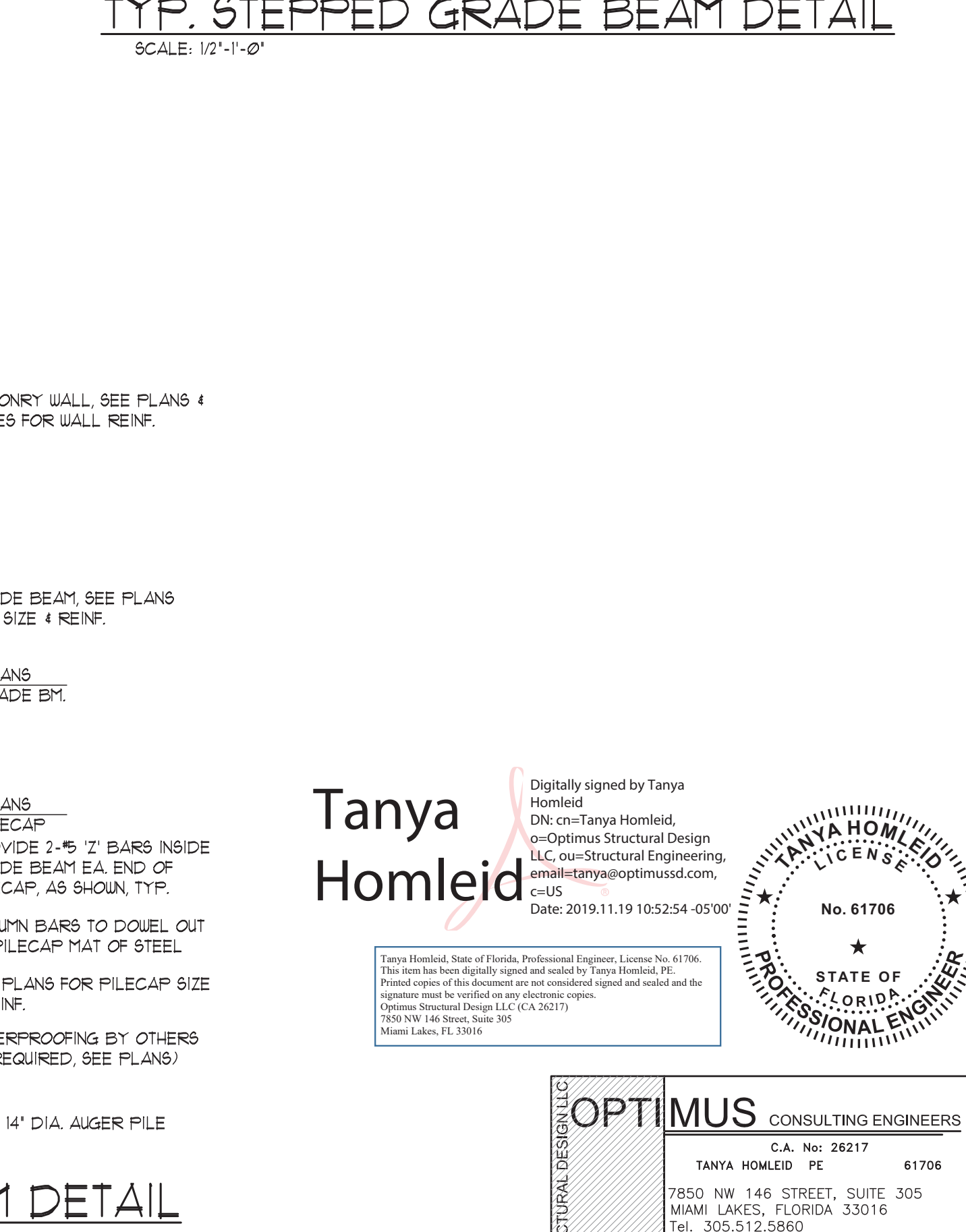
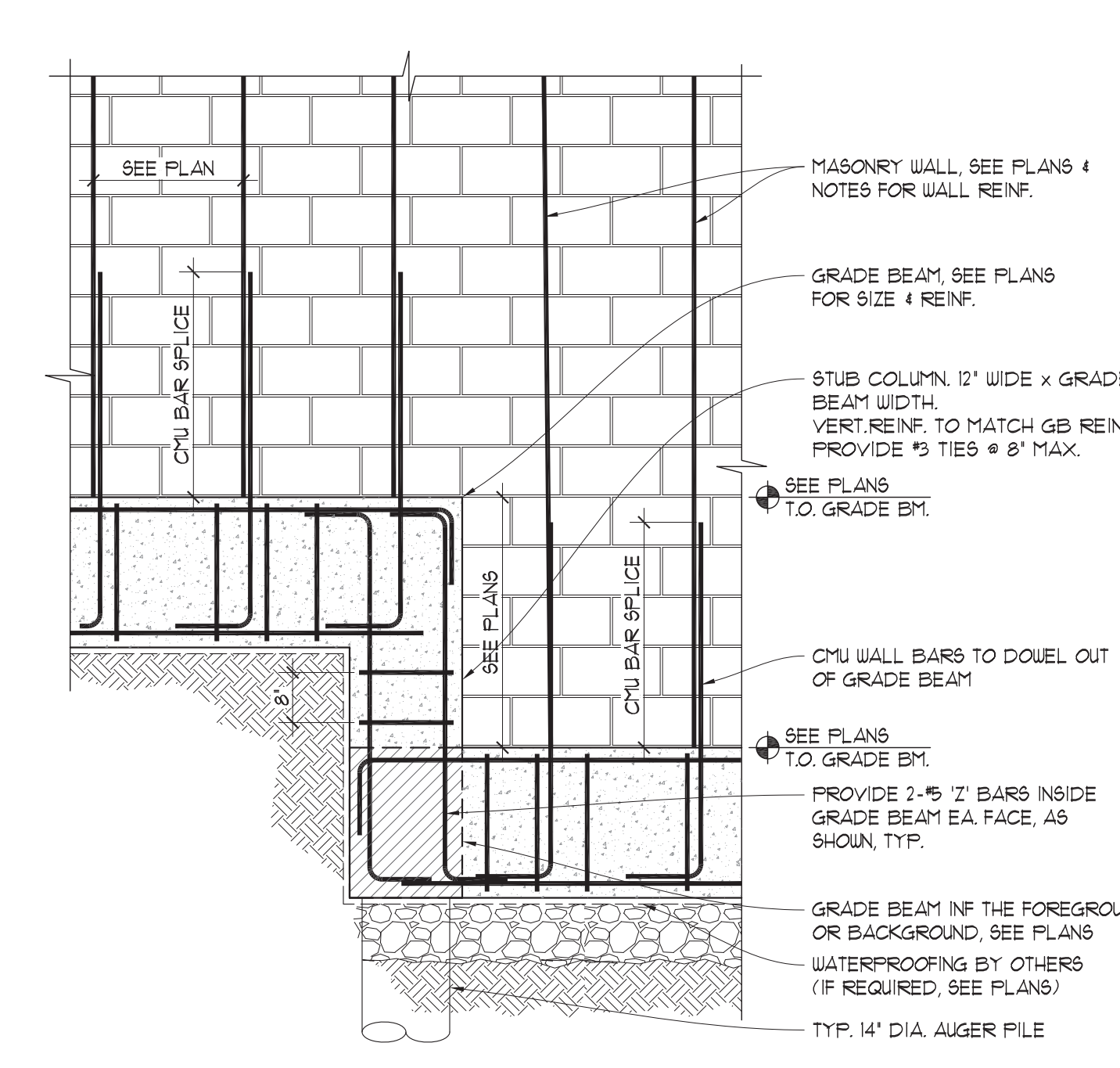
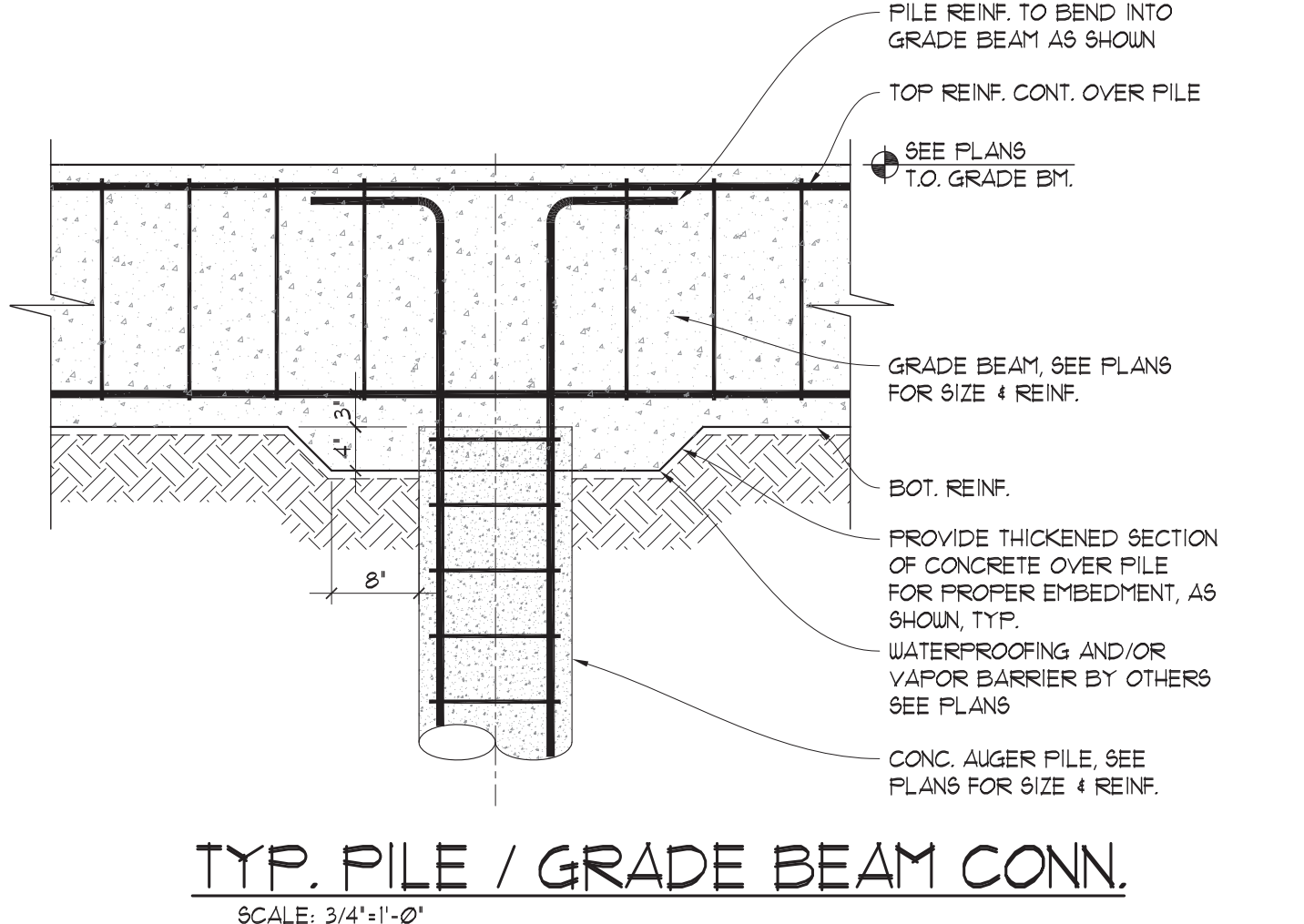
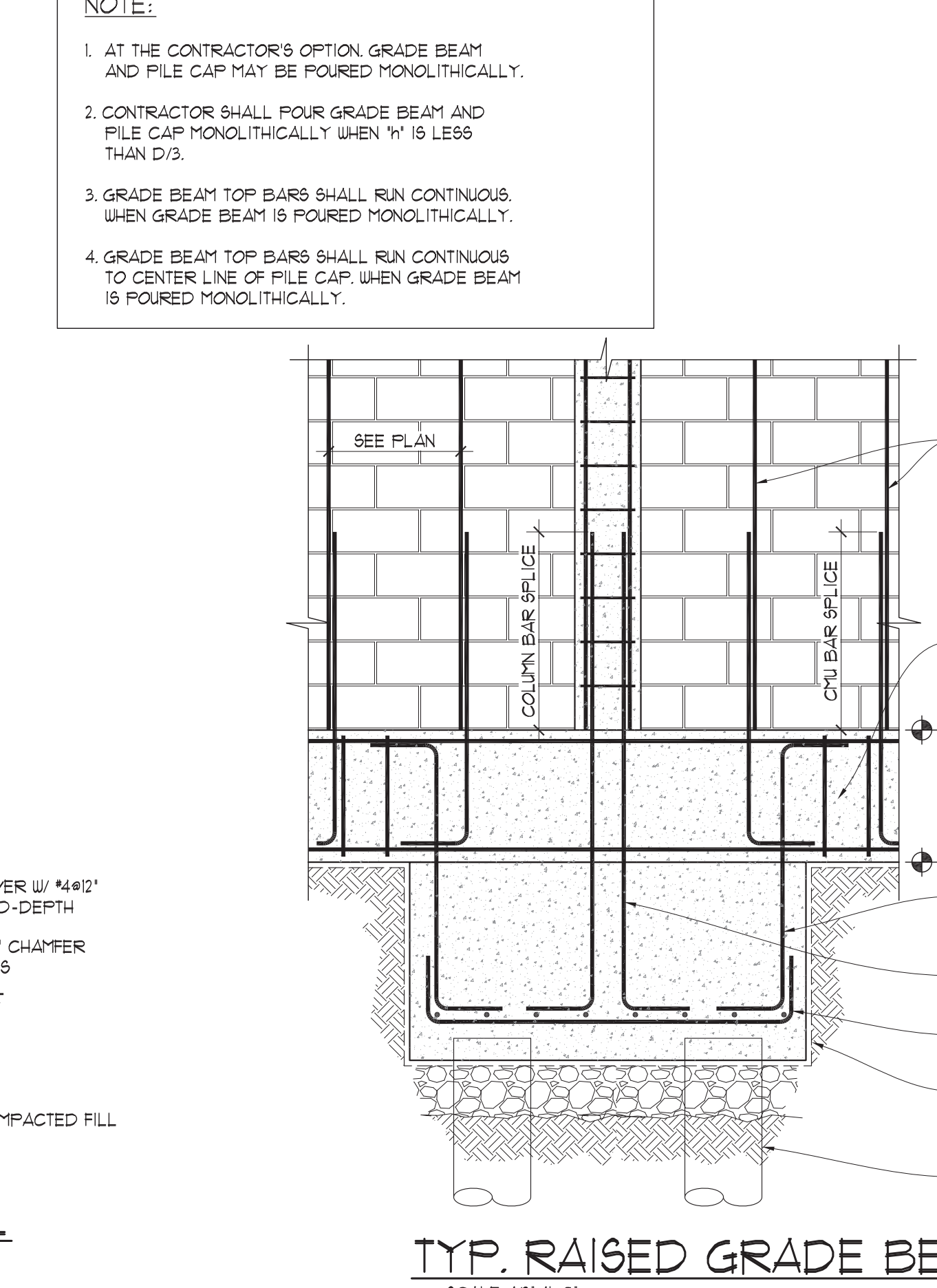
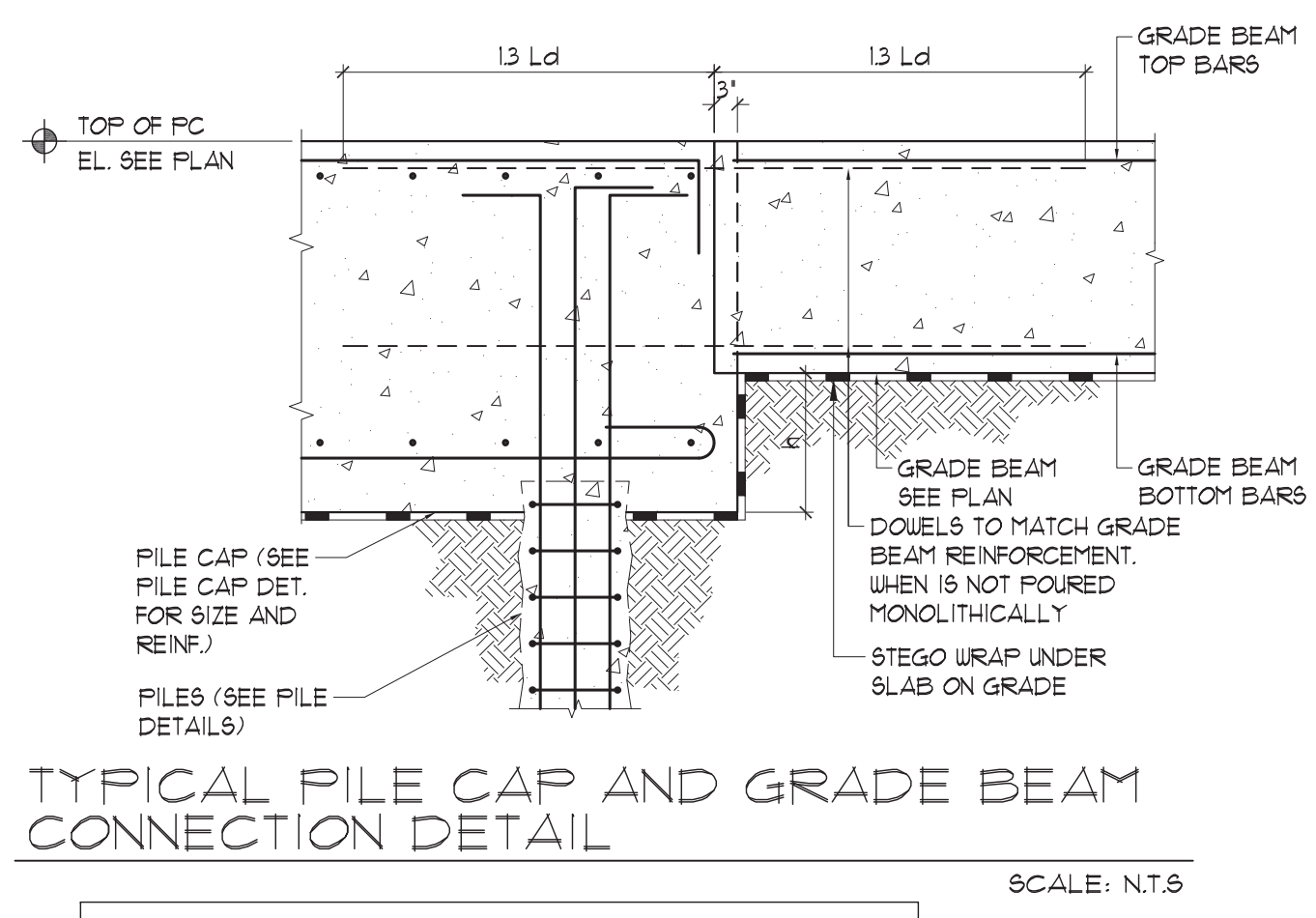
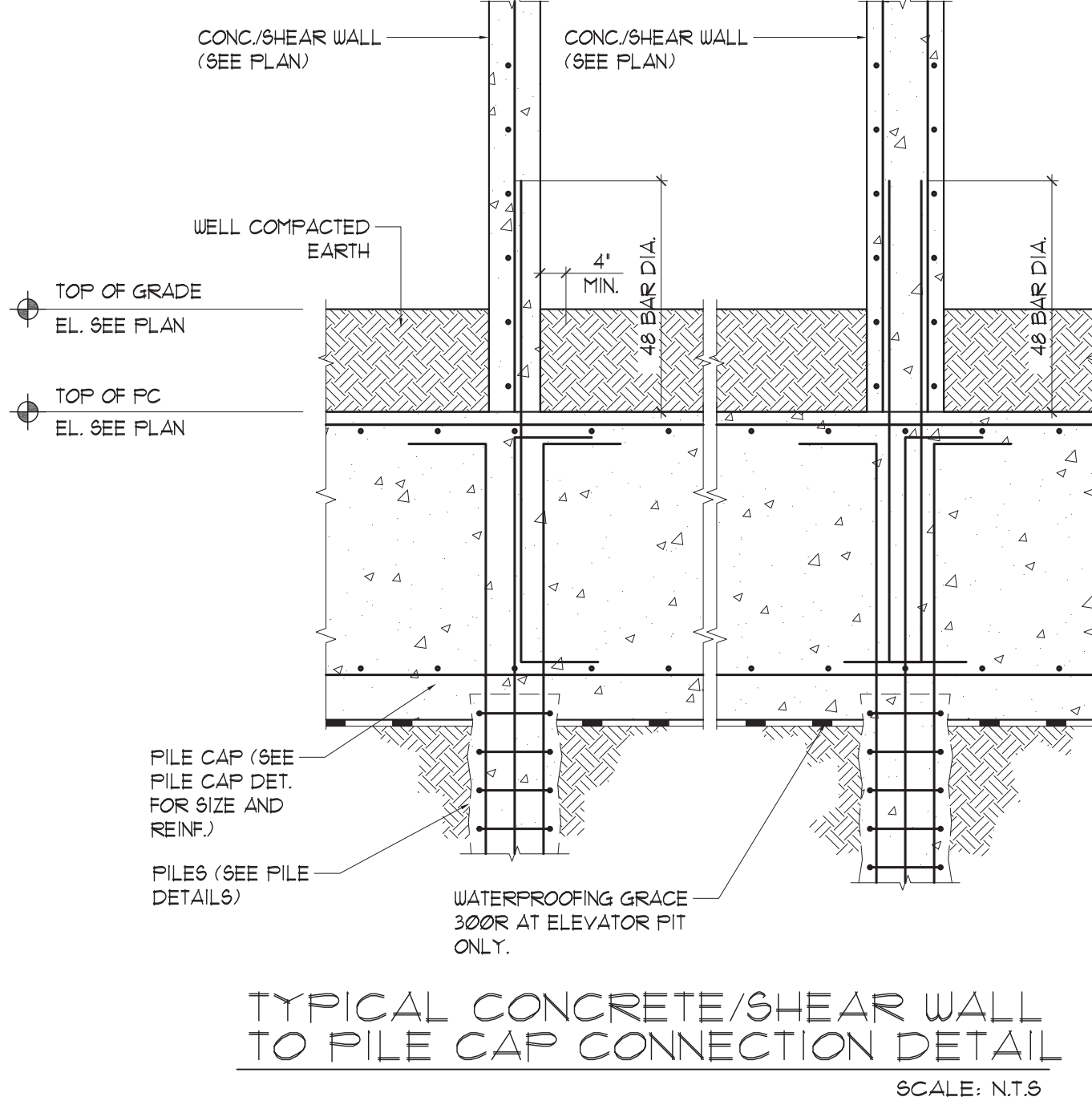
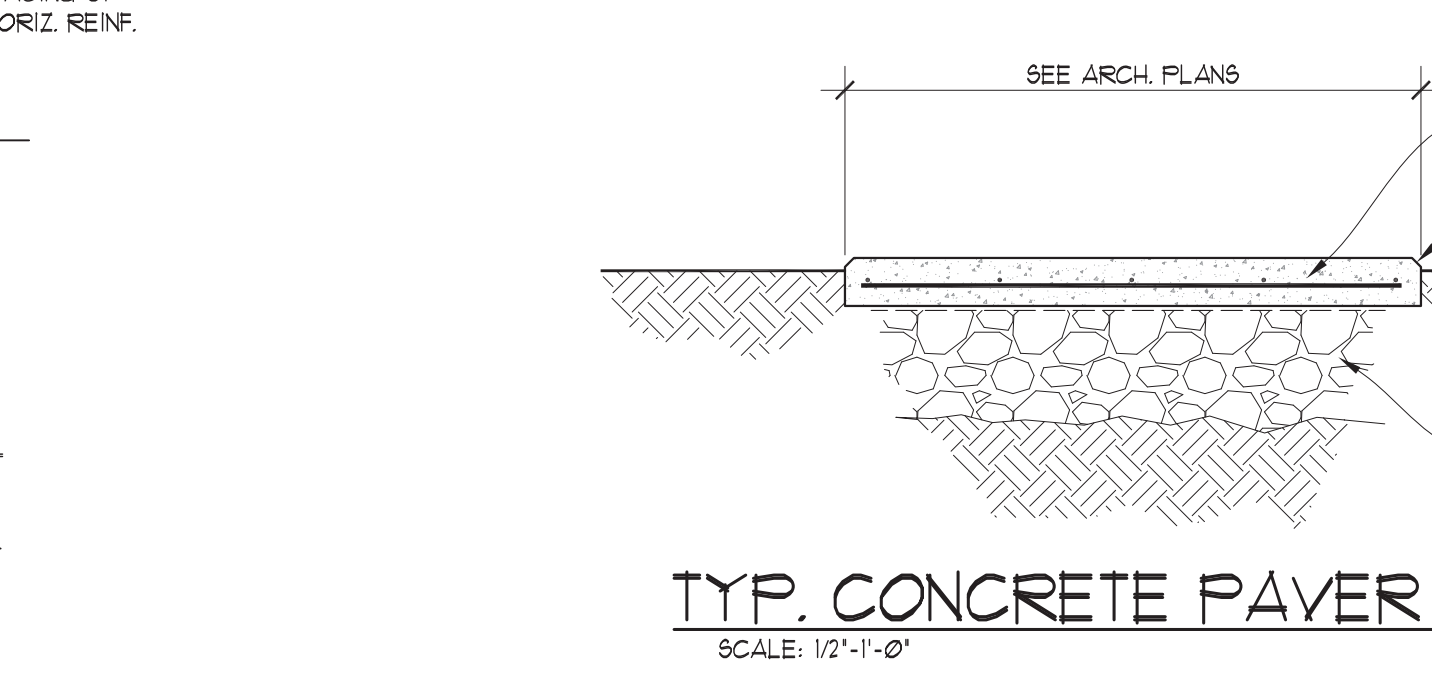
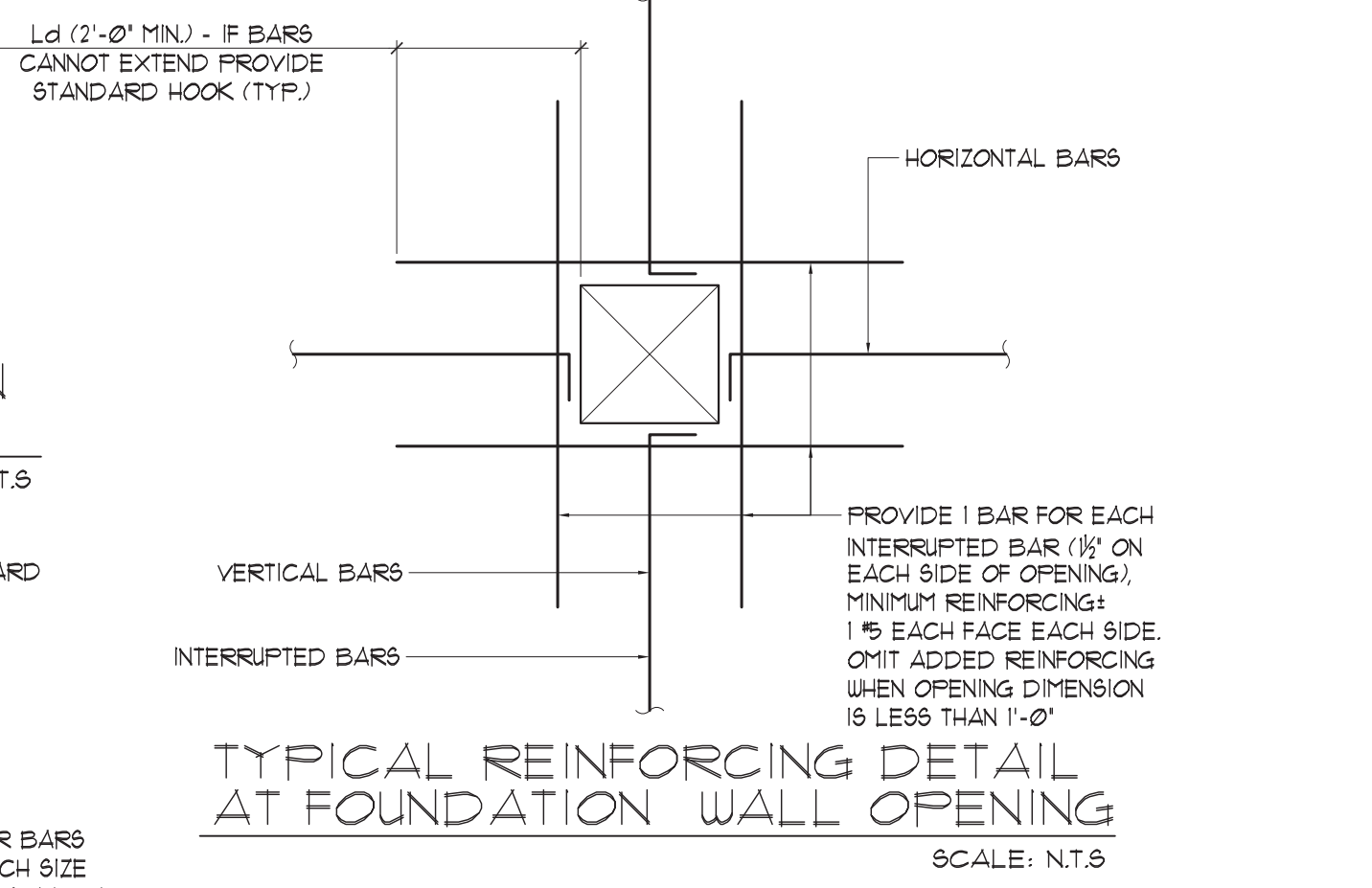
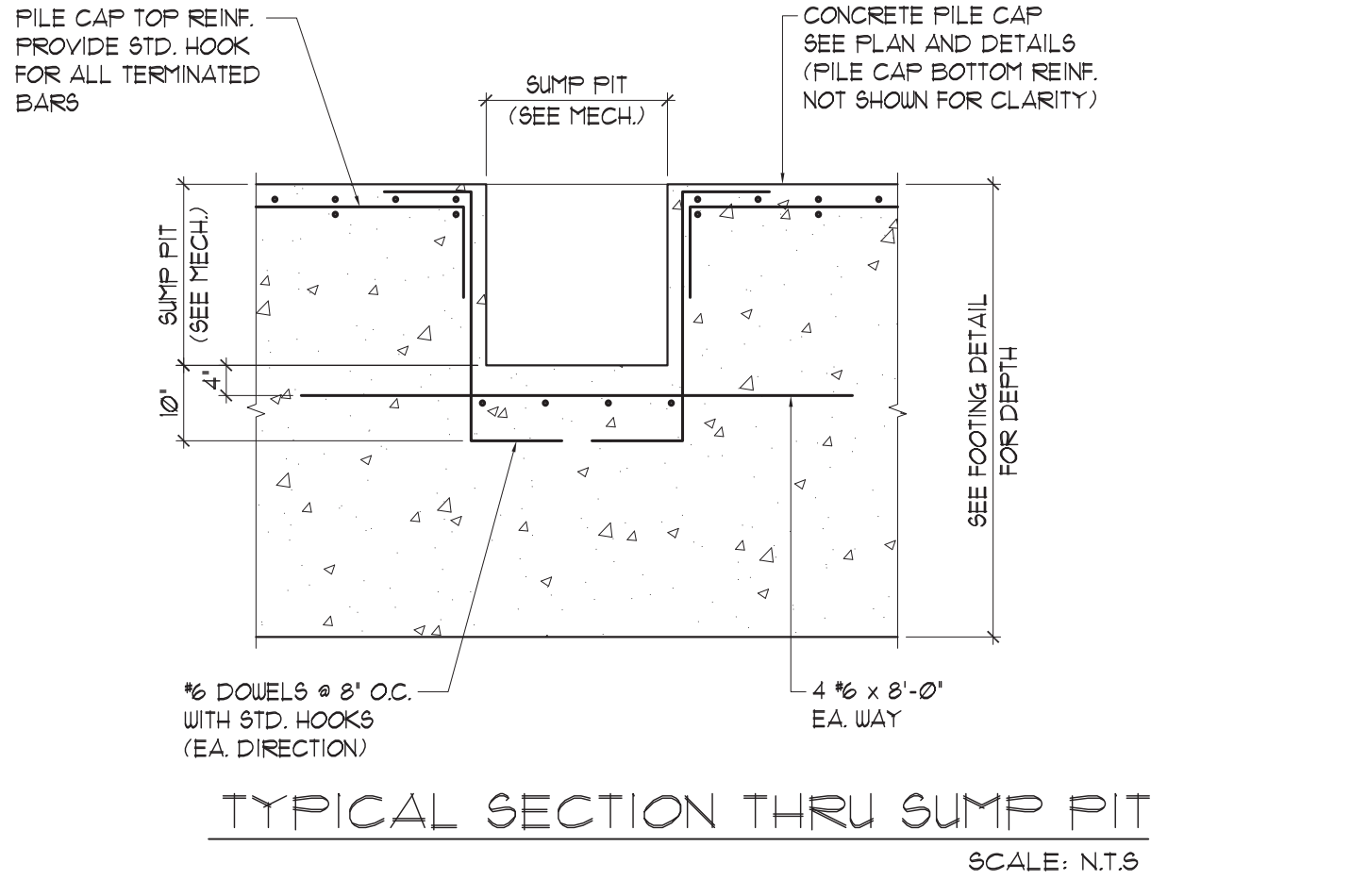
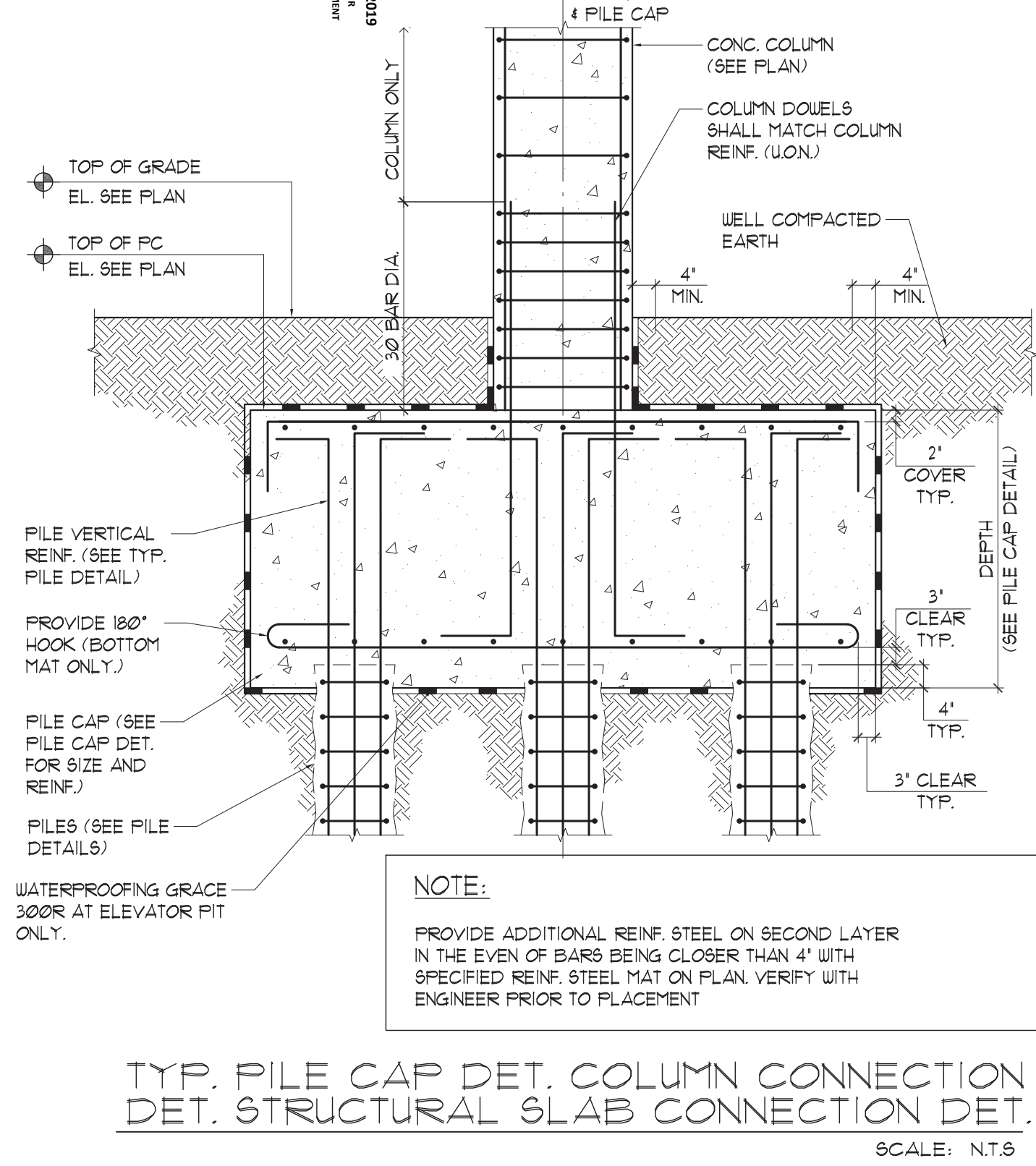
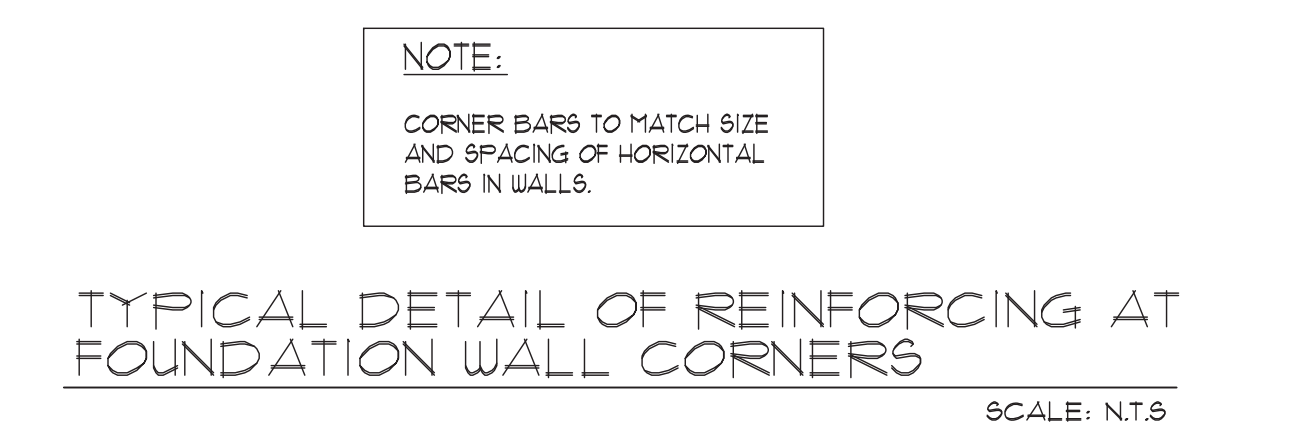
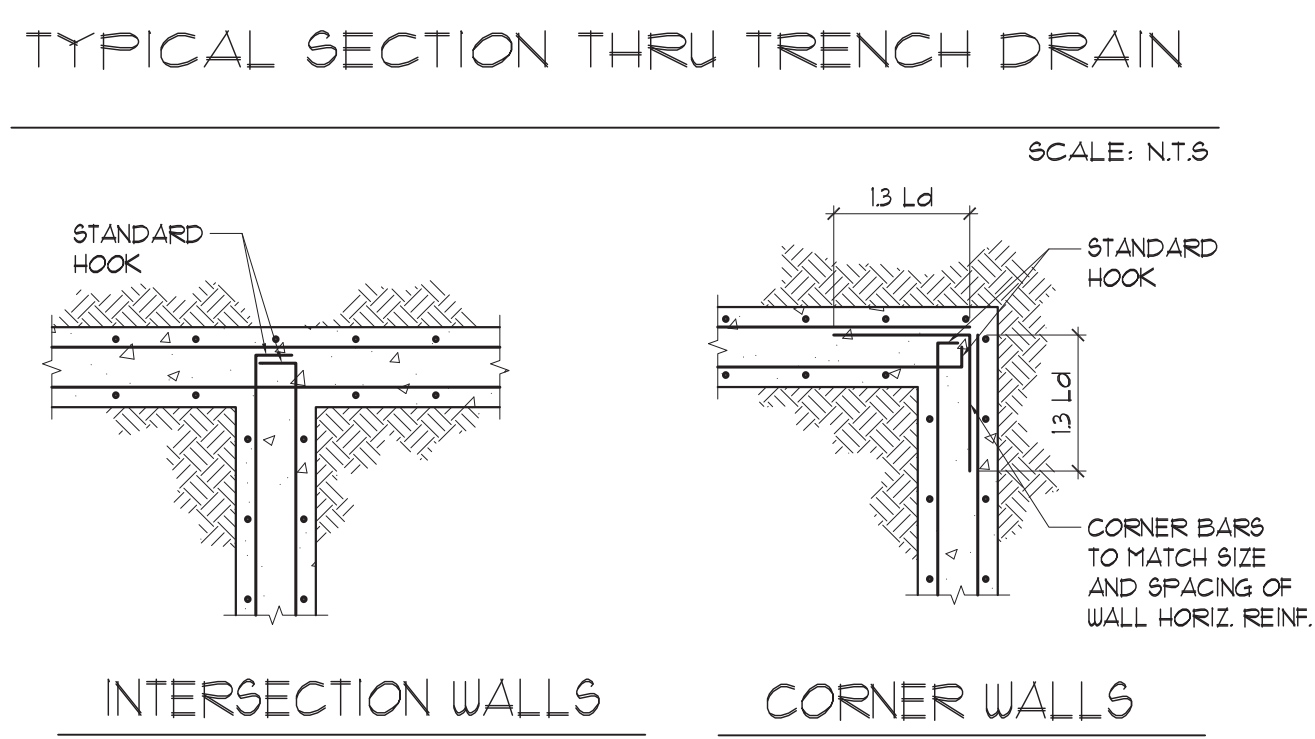
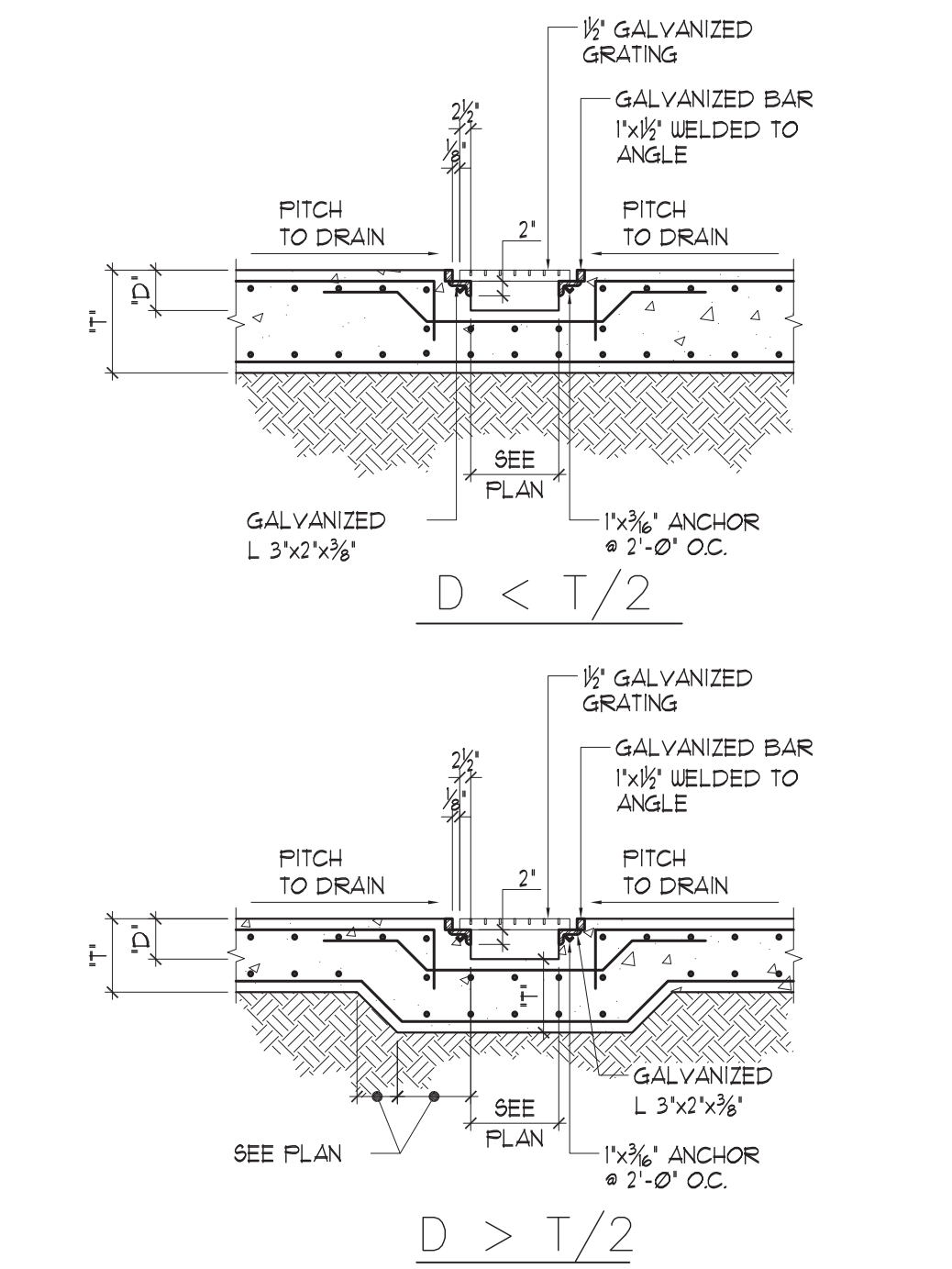
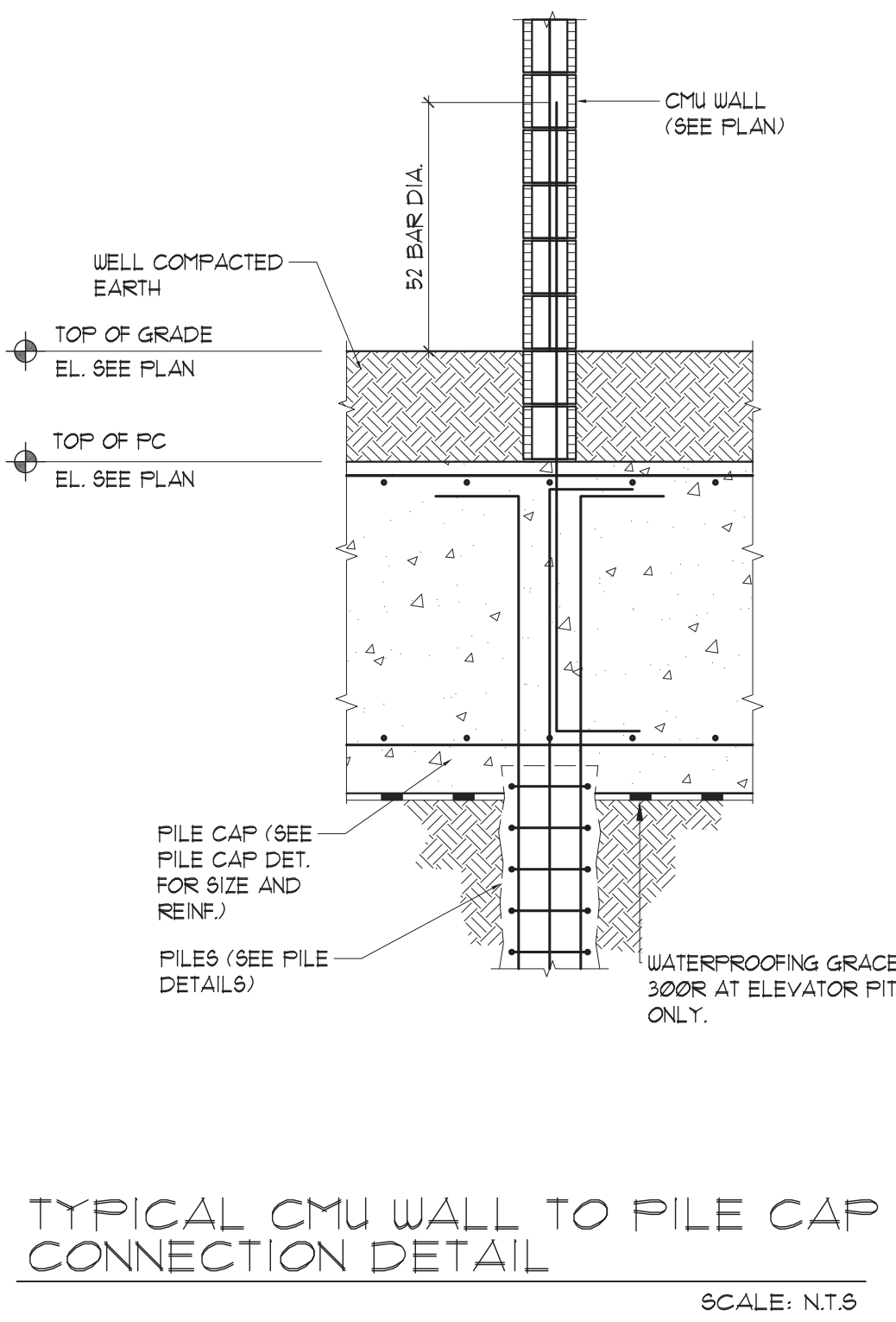
14PC-9F
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1 14PC-9F (20" ϕ PILES)
SCALE 1/4"=1'-0"



8PC-9F
DEPTH = 12"

5 8PC-9F (20" ϕ PILES)
SCALE 1/4"=1'-0"



PROJECT

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SARASOTA, FL
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REVISIONS
NO. DATE ISSUE

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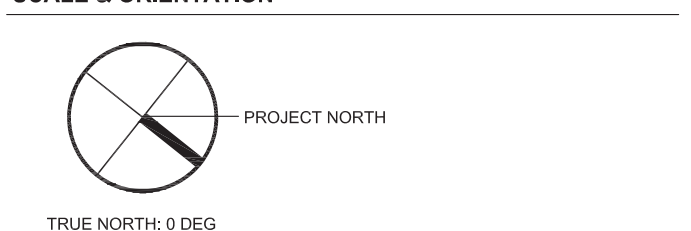
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email=tanya@optimusd.com,
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Date: 2019.11.19 10:52:54 -0500

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DRAWING TITLE

S2.20
FOUNDATION DETAILS

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.

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DATE OF ISSUE

05/06/19

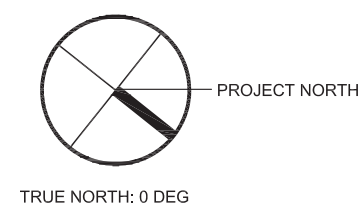
SCALE

AS SHOWN

PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



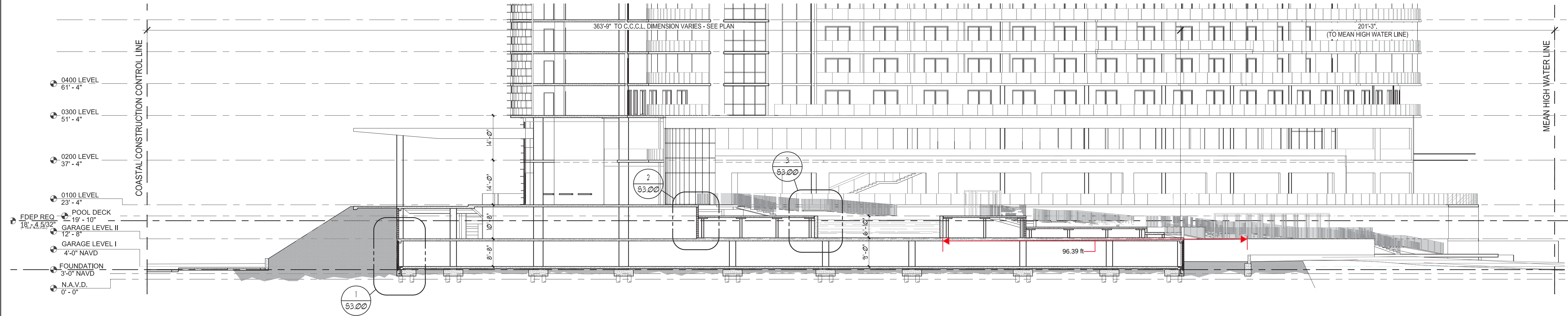
SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080

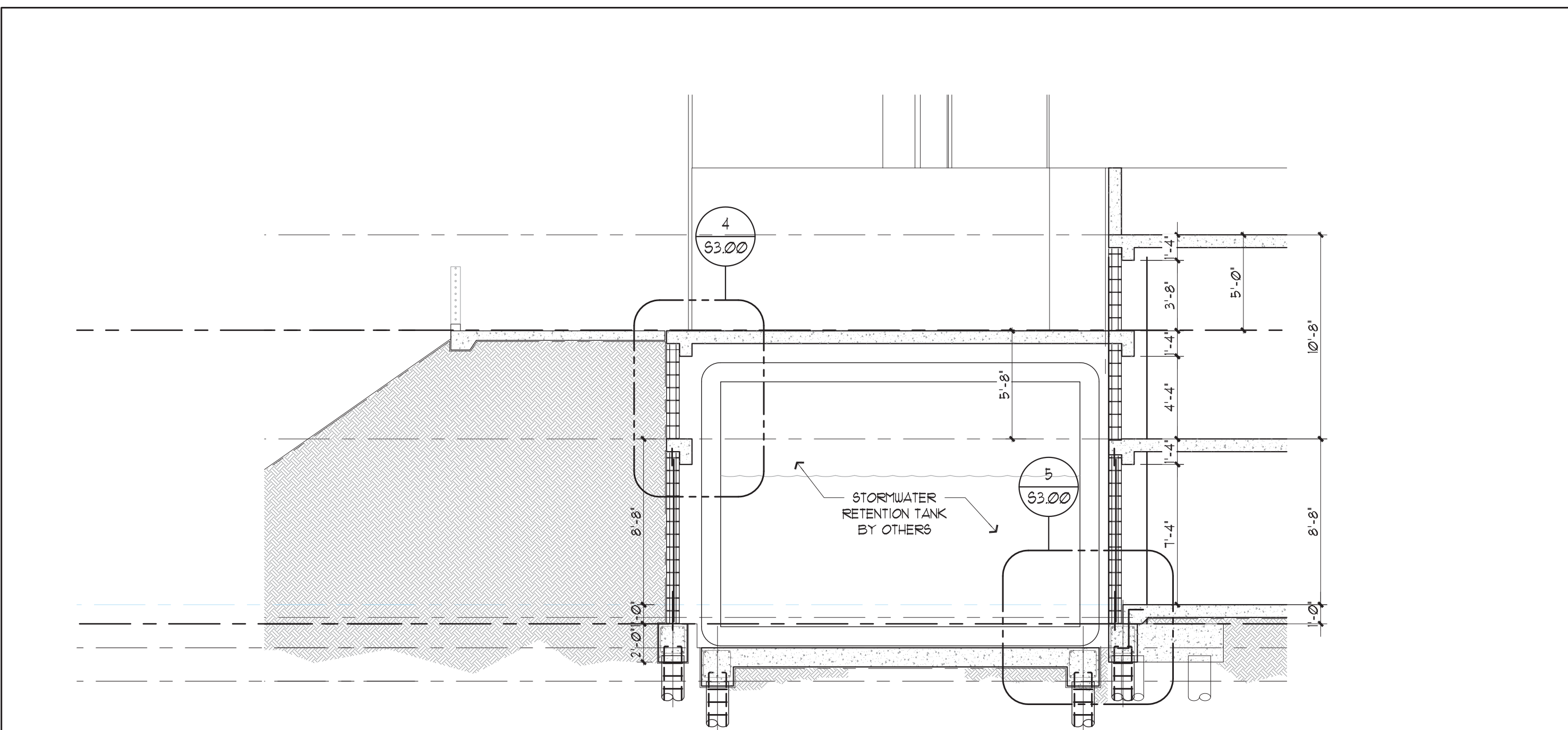
DRAWING TITLE

S3.00
BUILDING SECTIONS



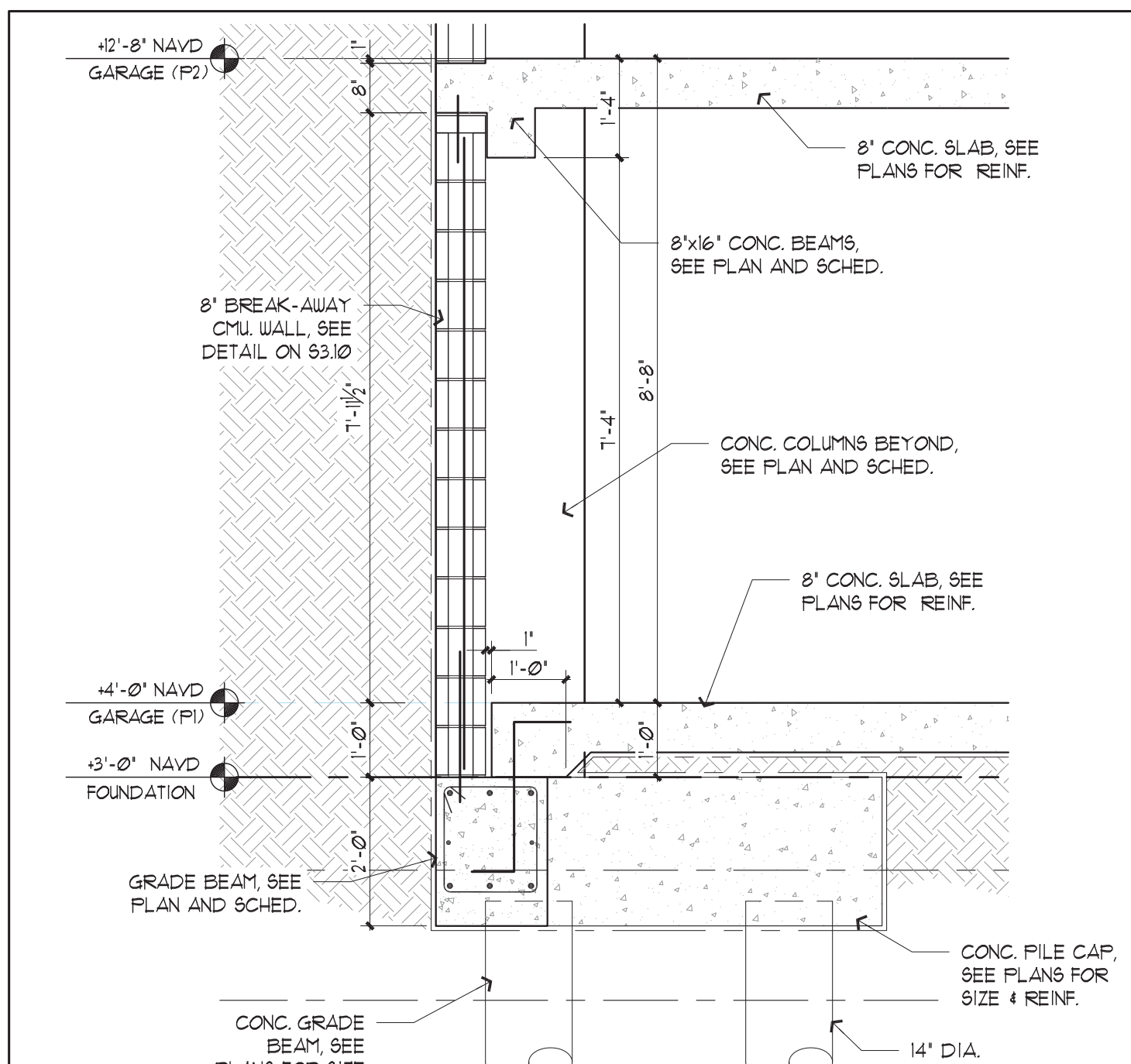
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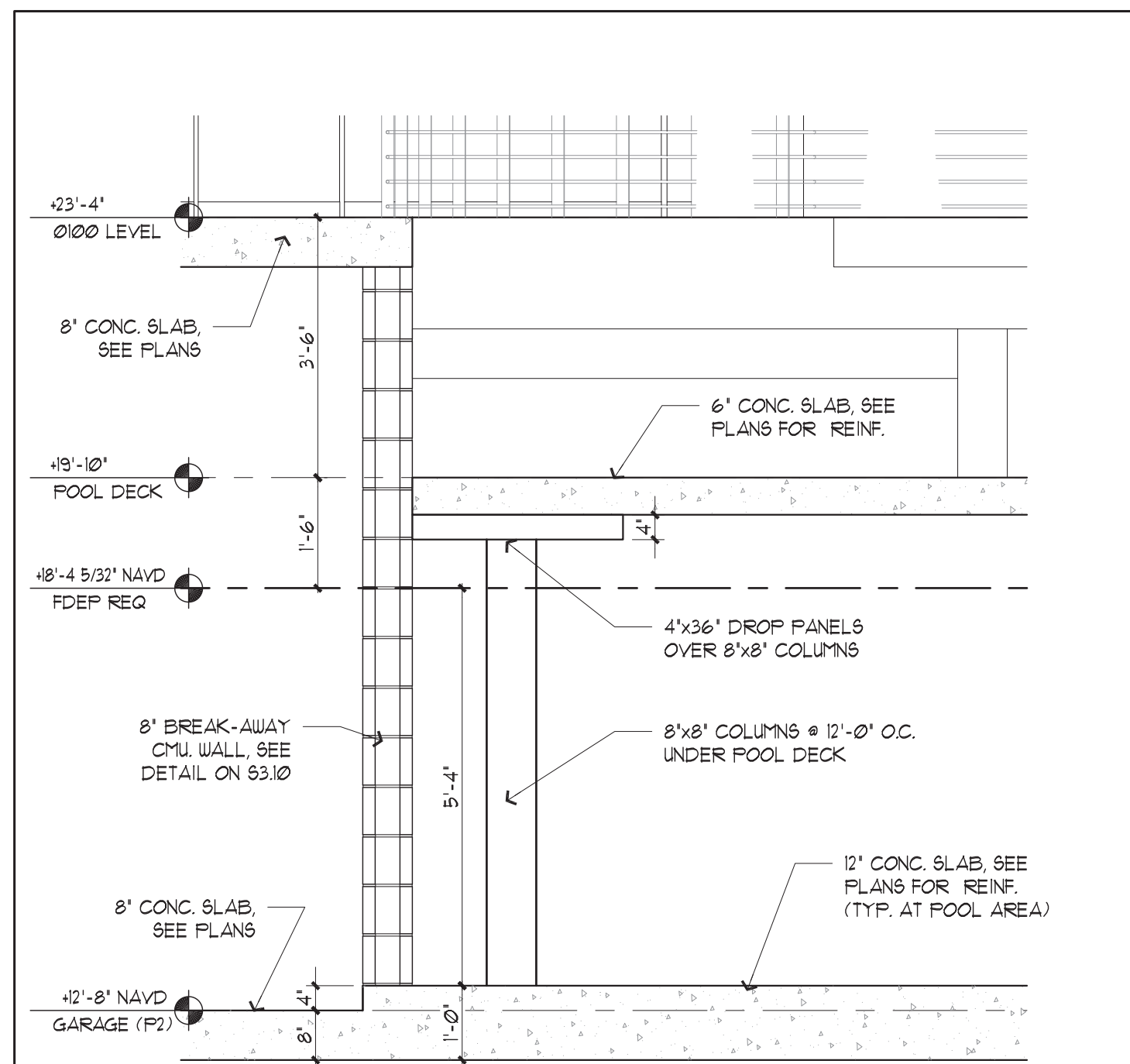
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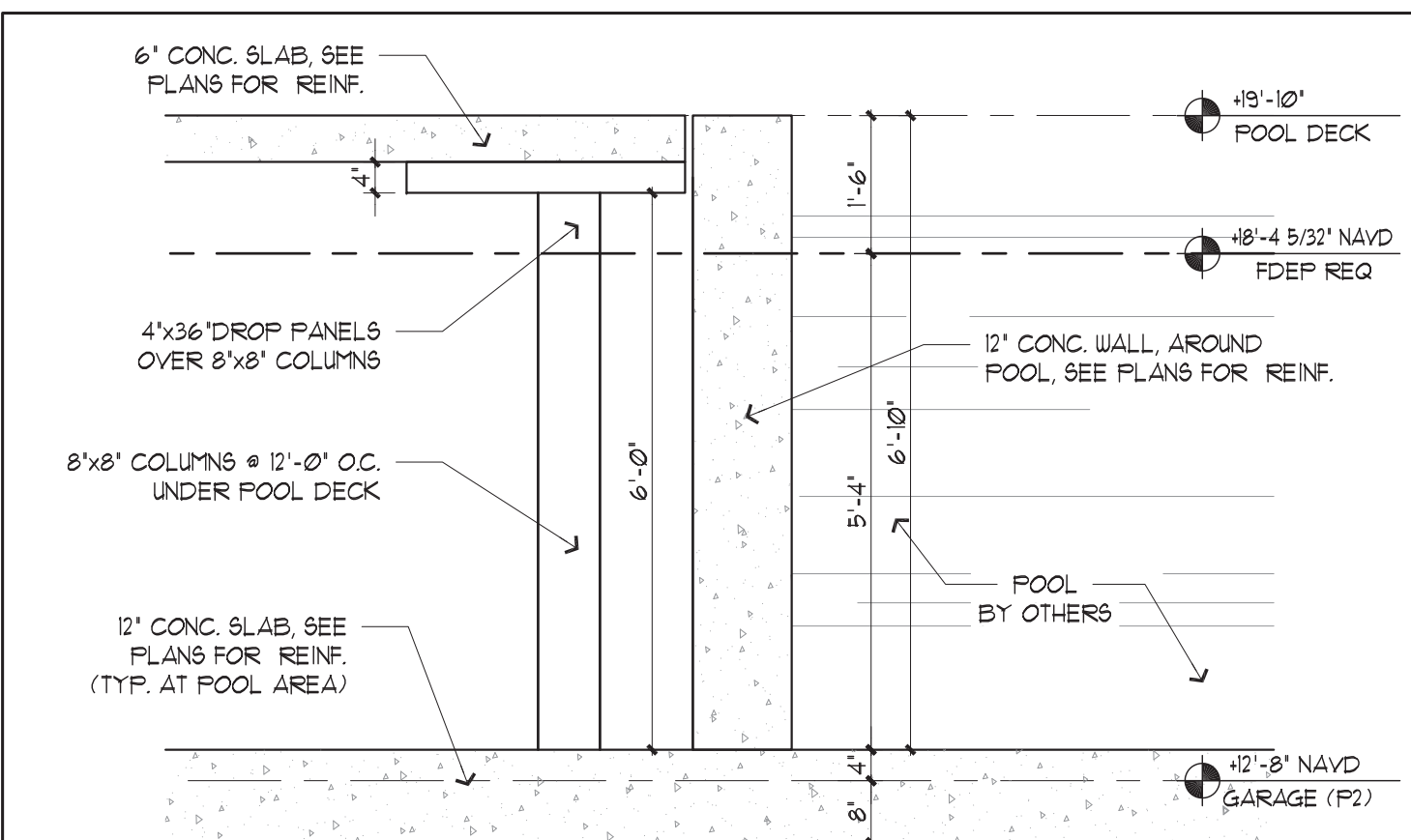
1 SECTION

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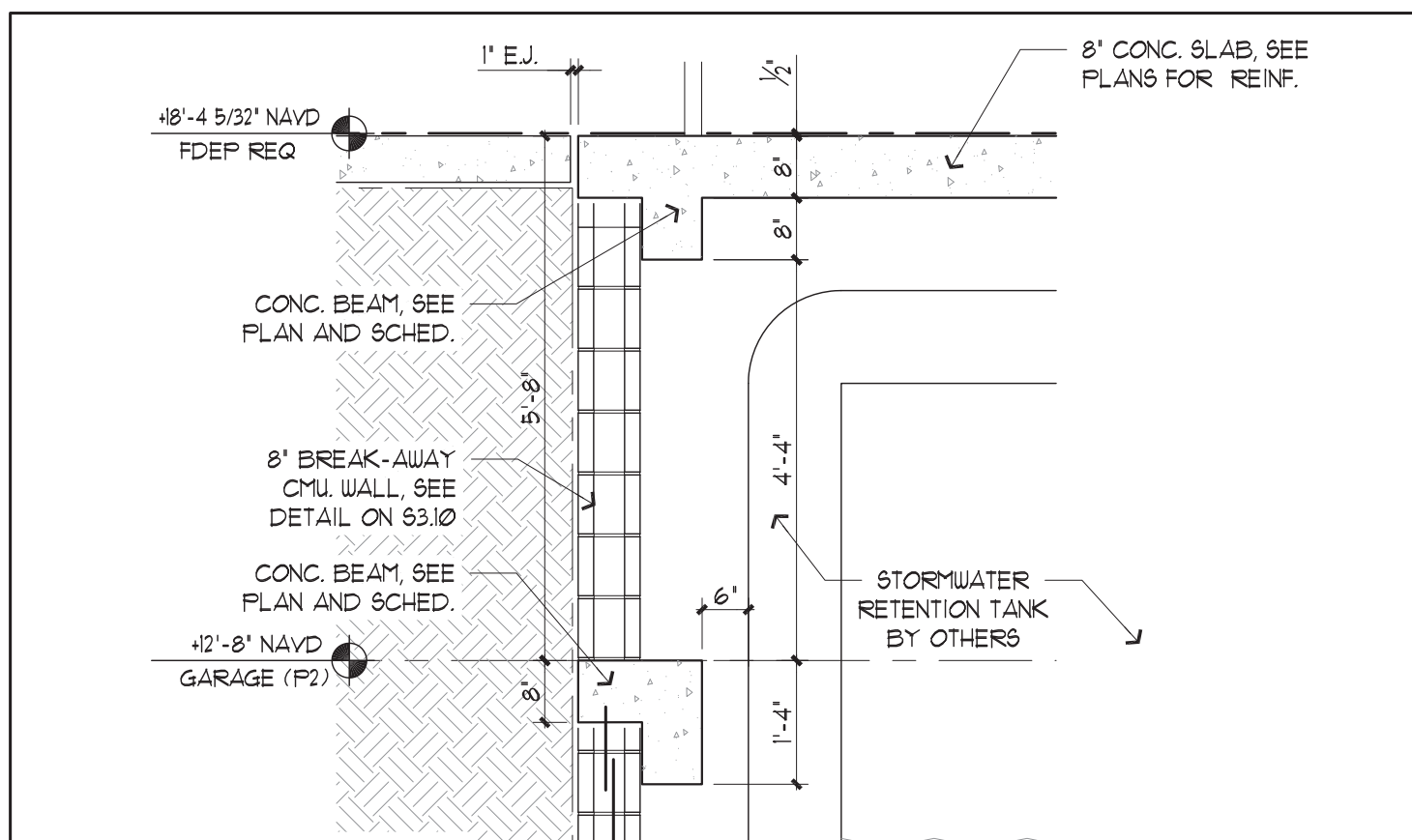
2 SECTION

Scale: 1'-0" = 1/2"



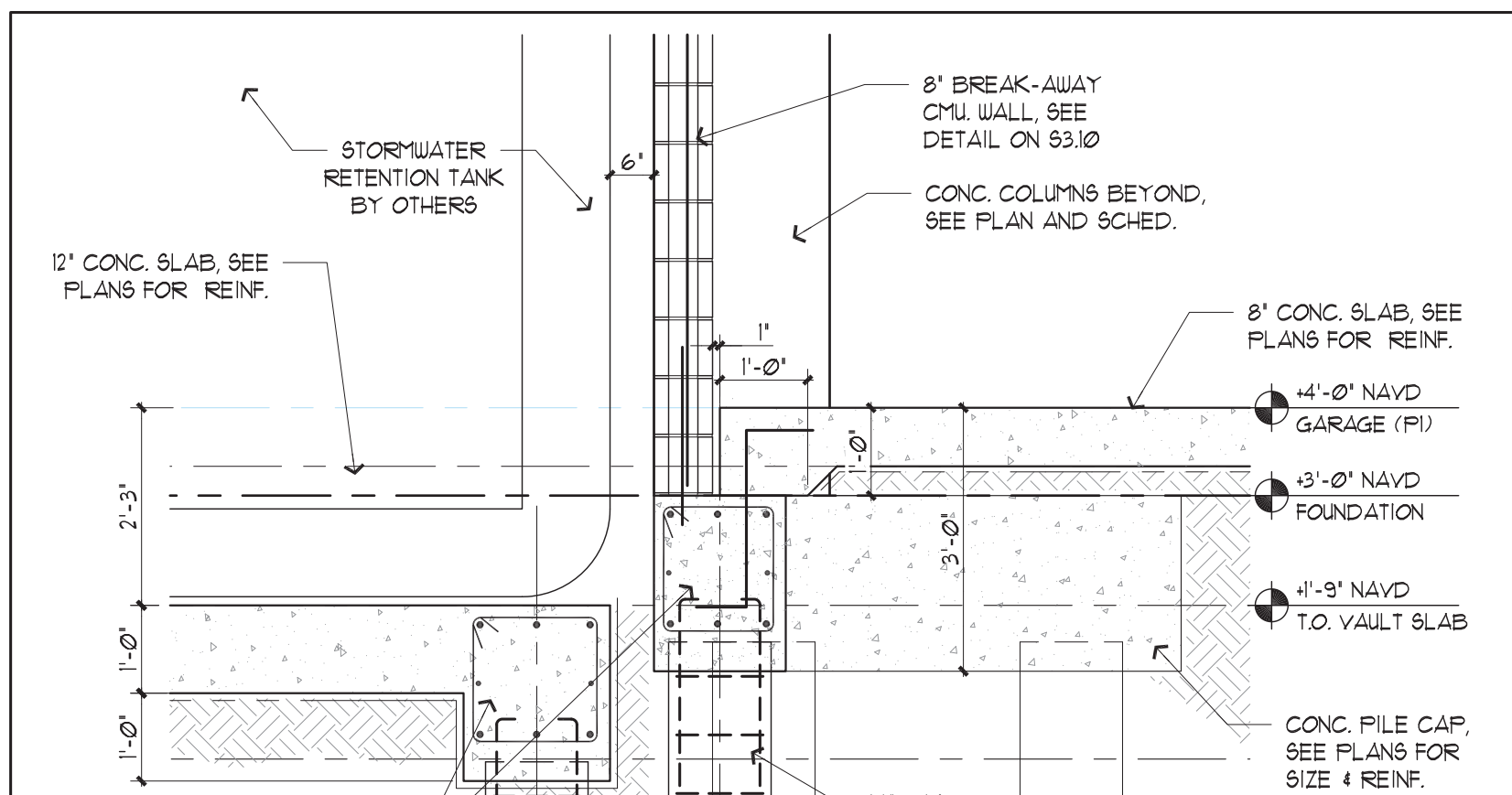
3 SECTION

Scale: 1'-0" = 1/2"



4 SECTION

Scale: 1'-0" = 1/2"



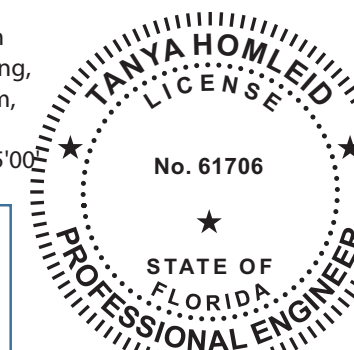
5 SECTION

Scale: 1'-0" = 1/2"

**Tanya
Homleid**

Digitally signed by Tanya
Homleid
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o=Optimus Structural Design
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Date: 2019.11.19 10:53:43 -0500

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This form has been digitally signed and sealed by Tanya Homleid, PE.
Printed copies of this document are not considered signed and sealed and the
signature must be verified on any electronic copies.
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TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.

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GENERAL NOTES

CODES:

THE FOLLOWING CODES ARE USED IN THE DESIGN AND SPECIFICATIONS FOR THIS PROJECT.	
FLORIDA BUILDING CODE 2017	
ACI 318-14	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
ACI 530-13	BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
ACI 530-13	SPECIFICATION FOR MASONRY STRUCTURES
ASCE 1-10	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ASCE 8.8E/ASCE 1-10	MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN
ASCE 14TH EDITION	

DESIGN CRITERIA:

GROUND FLOOR:	
SUPERIMPOSED DEAD LOAD	30.0 PSF (U.O.N.) SEE PLAN.
LIVE LOAD	40.0 PSF (U.O.N.) SEE PLAN.
1ST FLOOR:	
SUPERIMPOSED DEAD LOAD	30.0 PSF.
RESIDENTIAL LIVE LOAD	40.0 PSF.
2ND FLOOR:	
SUPERIMPOSED DEAD LOAD	30.0 PSF.
RESIDENTIAL LIVE LOAD	40.0 PSF.
BALCONY LIVE LOAD	60.0 PSF.
ROOF:	
SUPERIMPOSED DEAD LOAD	30.0 PSF (U.O.N.) SEE PLAN.
LIVE LOAD	30.0 PSF.
TERRACE LIVE LOAD	60.0 PSF.
MECHANICAL EQUIPMENT ROOMS:	
SUPERIMPOSED DEAD LOAD	25.0 PSF.
LIVE LOAD	60.0 PSF.
DEAD LOAD / A/C UNIT	250 LBS.

WIND LOADS:

WIND LOAD IN ACCORDANCE WITH ASCE 7-10 (WITH ERRATA DATED JAN. 11, 2011 AND FBC 2017.	
BASIC WIND SPEED	175.0 MPH.
IMPORTANCE FACTOR	1.00
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEF.	+/- 0.18
RISK CATEGORY	II
COMPONENTS AND CLADDING AS PER ASCE 7-10	
MAIN HOUSE MEAN ROOF HEIGHT	24'-0"

CONCRETE:

- ALL CONCRETE SHALL REACH A MINIMUM ULTIMATE STRENGTH AS FOLLOWS:
5,000 PSI @ 28 DAYS, WITH A WATER-CEMENT RATIO OF 0.4.
- THE CONCRETE SUPPLIER SHALL SUPPLY DESIGN MIXES FOR ALL CONCRETE TO BE USED IN THE PROJECT. DATA OF PAST BATCHES SHALL BE SUPPLIED AS PROOF OF DESIGN STRENGTH AND MODULUS OF ELASTICITY. MIXES SHALL INDICATE ALL MATERIALS AND ADMIXTURES USED.
- NO WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE UNLESS AUTHORIZED BY THE THRESHOLD INSPECTOR. TRANSPORTING, PLACING, DEPOSITING AND CURING OF CONCRETE SHALL COMPLY WITH ACI 318-14.
- CONCRETE SHALL BE COMPACTED BY MECHANICAL VIBRATION.
- THE OWNER SHALL CONTRACT AN APPROVED INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE STRENGTH TEST IN ACCORDANCE WITH ACI AND ASTM STANDARDS.
- SEE "SPECIAL CONSTRUCTION NOTES" FOR ADDITIONAL INFORMATION.

REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 75 & GRADE 60. DEFORMED BARS FREE FROM LOOSE RUST AND SCALE. SEE PLANS, COLUMN SCHEDULES AND SHEARWALL ELEVATIONS FOR LOCATIONS OF EACH STEEL GRADE.
- REINFORCING FABRICATOR SHALL PROVIDE SHOP DRAWINGS INDICATING STEEL FABRICATION IN CONFORMANCE WITH THE LATEST ACI STANDARDS.
- ALL ACCESSORIES SHALL HAVE PLASTIC TIPPED UPTURNED LEGS. PLASTIC CHAIRS ONLY ARE TO BE USED TO SUPPORT BALCONY REINFORCING OR OTHER AREAS EXPOSED TO THE WEATHER. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED AND FIRMLY HELD IN PLACE BEFORE AND DURING THE PLACEMENT OF CONCRETE.
- SUPPORT BARS SHALL BE PROVIDED IN ADDITION TO REINFORCING SHOWN OR CALLED FOR IN THESE PLANS. BARS SHALL BE #4 OR GREATER AND NOT SPACED MORE THAN 4'-0" ON CENTER. A MINIMUM OF 3 SUPPORT BARS AND 3 INDIVIDUAL HIGH CHAIRS FOR EACH SUPPORT BAR SHALL BE PROVIDED FOR TOP REINFORCING.
- PLASTIC TIPPED SLAB BOLSTERS SHALL BE PROVIDED ON 4 SIDES FOR VERTICAL COLUMN REINFORCING SO AS TO MAINTAIN 1/2" MINIMUM CLEARANCE TO TIERS.
- CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

PILE CAPS AND GRADE BEAMS	3"
INTERIOR SLABS	1"
EXTERIOR SLABS AND BALCONIES EXPOSED TO WEATHER	1-1/2" (TOP), 1" (BOT.)
BEAMS	1-1/2" (TO TIES)
COLUMNS	1-1/2" (TO TIES)
RETAINING WALLS	2"
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A105 AND BE PLACED AND SUPPORTED IN ACCORDANCE WITH ACI 301 RECOMMENDATIONS.
- THE CONTRACTOR SHALL PROVIDE 10 TONS OF STEEL REINFORCEMENT FOR THE ENGINEER TO USE AT HIS DISCRETION DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE CREDIT TO THE OWNER FOR ANY UNUSED PORTION OF THE ALLOWANCE AT THE END OF THE PROJECT. THIS REINFORCING IS IN ADDITION TO ANY REINFORCEMENT USED IN THE PLANS.

CONCRETE CONSTRUCTION:

- CONSTRUCTION JOINTS IN BEAMS AND SLABS MAY OCCUR WITHIN THE MIDDLE 1/3 PORTION OF THE SPAN. CONSTRUCTION JOINTS SHALL HAVE A CONTINUOUS 1" KEY BY HALF THE DEPTH OF THE BEAM OR SLAB. ALL REINFORCING SHALL PASS THRU THE KEY IN ITS PROPER POSITION. ADD "4#12" O.C. TOP AND BOTTOM IF NO REINFORCING IS PRESENT.
- CONTRACTOR SHALL CHECK, REVIEW AND VERIFY ALL PLANS, DIMENSIONS AND SITE CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCY OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS TO LOCATE ALL SLAB DEPRESSIONS, SLOPES, DRAIN OUTLETS, RECESSES, OPENINGS, SLEEVES ETC. AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL SLEEVES, BLOCKOUTS, DEPRESSIONS ETC MISPLACED IN BEAMS OR SLAB SHALL HAVE APPROVAL FOR RELOCATION FROM THE ENGINEER PRIOR TO ANY DRILLING OR CHIPPING.
- CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC FROM ALL DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
- ALL FLAT DECK FORMING, BEAM BOTTOMS AND TOPS OF COLUMNS SHALL BE CLEANED BY MEANS OF COMPRESSED AIR SO AS TO REMOVE ALL SAW DUST, DIRT, TIE WIRE AND DEBRIS BEFORE PLACING CONCRETE.
- ALL FORMWORK SHALL BE SPRAYED WITH CLEAN POTABLE WATER BEFORE PLACING CONCRETE. CARE SHALL BE TAKEN SO AS NOT TO CREATE PUDDLES OF WATER ON THE DECK.
- CONSTRUCTION WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL BUILDING CODES AND GOVERNING REGULATIONS.
- THE APPROVAL OF ANY WORK BY THE THRESHOLD INSPECTOR DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STRUCTURAL DRAWINGS.
- APPLY 6K4 ARMATEC 110 BONDING AGENT AT CONSTRUCTION JOINTS (EXCEPT SLAB ON GRADE) PRIOR TO PLACEMENT OF NEW CONCRETE.

GENERAL:

- ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE, RESIDENTIAL, THE ACI AND ALSO SPECIFICATIONS AND RECOMMENDED PRACTICE, AS SPECIFIED IN THE SECTIONS DENOTED BELOW.
- NO DIMENSIONS SHALL BE SCALED FROM DRAWINGS.
- GENERAL CONTRACTOR SHALL CHECK, REVIEW AND VERIFY ALL PLANS, DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO THE CODES, RULES AND REGULATIONS.
- ALL REFERENCED STANDARDS REFER TO THE EDITION ENFORCED AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR BID.
- THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS ISSUED BY THE ARCHITECT.
- STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSIONED SLABS, SLOPES, DRAIN OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION OR ERECTION OF ANY STRUCTURAL SYSTEM.
- GENERAL CONTRACTOR SHALL RESTRICT AND PROPERLY ISOLATE ALL CONSTRUCTION EQUIPMENT AND LOADS FROM INDUCING OR TRANSMITTING VIBRATIONS TO THE STRUCTURE DURING CONSTRUCTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.
- WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH ANY REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATION SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.
- "BY OTHERS" DENOTES LABOR AND MATERIALS BY OTHERS. HOWEVER THE GENERAL CONTRACTOR SHALL PROVIDE COORDINATION AND FREE ACCESS FOR THE WORK. REFER TO SPECIALTY ENGINEERING NOTES.
- "N.I.C." DENOTES NOT IN CONTRACT. THE OWNER SHALL BE RESPONSIBLE FOR COORDINATING A TIME SCHEDULE OF THE BASE CONTRACT WITH THE "N.I.C." TRADES.
- TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.
- THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
- BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEMS UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCURS.
- TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES OF EVERY KIND, INCLUDING WATER AND POWER NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHOWN OR INDICATED ON THESE DRAWINGS. ALL MATERIALS SHALL BE NEW MATERIALS AND WORKMANSHIP SHALL BE OF GOOD QUALITY. ALL WORKMEN AND SUBCONTRACTORS SHALL BE SKILLED IN THEIR TRADE.
- THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
- THE PREMISES SHALL BE KEPT FROM ACCUMULATION OF WASTE MATERIALS, AND DEBRIS, AND AT THE END OF THE JOB THE CONTRACTOR SHALL REMOVE ALL RUBBISH, SURPLUS MATERIALS, AND TOOLS AND LEAVE THE BUILDING BROOK CLEAN.
- JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION UNLESS SPECIFICALLY CONTRACTED FOR. THRESHOLD INSPECTIONS AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT SHALL BE UNDER A SEPARATE CONTRACT.
- SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH SHOP DRAWINGS A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT IMPLY THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.
- THE STRUCTURAL FRAMING FOR ALL STOREFRONTS SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE DESIGNED BY A SPECIALTY ENGINEER.
- IF OPTIMUS STRUCTURAL DESIGN IS NOT RETAINED TO PERFORM INSPECTION SERVICES FOR ALL STRUCTURAL COMPONENTS SHOWN ON THESE DOCUMENTS, OPTIMUS STRUCTURAL DESIGN WILL ACCEPT NO RESPONSIBILITY FOR THE INTERPRETATION OF STRUCTURAL DRAWINGS, FOR PERFORMANCE OF STRUCTURAL FRAMING, ETC. FURTHERMORE, OPTIMUS STRUCTURAL DESIGN WILL ACCEPT NO RESPONSIBILITY IF THE PROJECT IS NOT BUILT IN ACCORDANCE WITH FLORIDA BUILDING CODE, STANDARD ENGINEERING PRACTICE, ETC.

REINFORCED MASONRY NOTES:

- REINFORCED MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 530-13 AND ACI 530-13.
- MASONRY UNITS SHALL CONFORM TO ASTM C90 STANDARD SPECIFICATION FOR LOAD-BEARING CONCRETE MASONRY UNITS AND HAVE A MINIMUM STRENGTH OF 17,000 PSI (U.O.N.).
- ALL MASONRY UNITS SHALL BE LAYED IN RUNNING BOND. USE ONLY MASONRY UNITS THAT ARE A MINIMUM OF 80% SOLID.
- CMU WALL MORTAR SHALL COMPLY ASTM C270, TYPE "M" (75+2800 PSI). MORTAR JOINTS SHALL BE 3/8" FOR ALL MASONRY UNITS. MORTAR ALL HEAD JOINTS. THE FACE SHELLS OF ALL BED JOINTS, AND THE BED JOINTS OF WEBS ADJACENT TO CELLS THAT ARE TO BE GROUTED.
- VERTICAL CELLS TO BE GROUTED SHALL BE ALIGNED AND UNOBSTRUCTED. ANY MORTAR PROTRUDING INTO CELL CAVITIES THAT ARE TO BE GROUTED SHALL BE REMOVED. ALLOW A MINIMUM OF 24 HOURS FOR MORTAR TO CURE BEFORE PLACING GROUT.
- ALL GROUT SHALL BE FINE MASONRY GROUT IN ACCORDANCE WITH ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND TESTED IN ACCORDANCE WITH ASTM C39 WITH SLIPS 1" TO 11". TESTS SHALL BE TAKEN EVERY 30 CUBIC YARDS AT A MINIMUM OF EACH DAY'S GROUTING.
- IN HIGH LIFT GROUTING USE A MAXIMUM LIFT OF 4'-0", WITH NOT LESS THAN 30 MINUTES OR MORE THAN ONE HOUR BETWEEN LIFTS. MECHANICAL VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT AFTER PLACING THE NEXT LIFT. THE MAXIMUM TOTAL HEIGHT OF PLACEMENT SHALL BE 12'-0".
- THE BOTTOM OF ALL GROUTED CELLS SHALL HAVE A CLEAN OUT OPENING PROVIDED. BARS SHALL BE TIED AND ALL MORTAR AND DIRT SHALL BE REMOVED BEFORE PLACING GROUT.
- ALL REINFORCING BARS IN GROUTED CELLS SHALL HAVE A PLASTIC CENTRALIZER ATTACHED TO EACH BAR SPACED AT EVERY 4TH COURSE.
- MORTAR TESTING SHALL BE IN ACCORDANCE WITH ASTM C270. AT A MINIMUM ONE SET OF THREE SAMPLES SHALL BE TESTED FOR EVERY 5,000 SQUARE FEET OF WALL AREA OR ONE SET FOR EACH DAY'S WORK.
- PROVIDE 20 GAGE HOT-DIPPED GALVANIZED DOVETAIL ANCHORS SLOTS VERTICALLY IN STRUCTURAL COLUMNS. AND TIE COLUMNS NOT PLACED INTEGRALLY WITH CMU WALLS THAT ARE ABUTTED BY NON-LOAD BEARING MASONRY WALLS. CMU UNITS SHALL BE TIED INTO COLUMNS WITH 1" X 8" X 16 GAGE CORRUGATED HOT-DIPPED GALVANIZED DOVETAIL ANCHORS.
- LAP DOVETAIL ANCHORS WITH STANDARD HOT-DIPPED GALVANIZED NO. 9 GAGE LADUR-TYPE DUR-O-WALL WITH CROSS RODS PLACED AT 18" O.C. FOR REINFORCED MASONRY WALLS. ANCHORS AND DUR-O-WALLS EVERY OTHER BLOCK COURSE. OVERLAP DISCONTINUOUS END A MINIMUM OF 12". HORIZONTAL REINFORCING SHALL CONFORM TO ASTM A82.
- SEE FLOOR PLANS FOR EXTERIOR CMU WALL VERTICAL REINFORCING. LAP REINFORCING 30" MINIMUM U.O.N.
- REFER TO TYPICAL REINFORCEMENT PLACEMENT DETAILS FOR WINDOW AND DOOR OPENINGS ALONG WITH CORNER DETAILS FOR ADDITIONAL CMU REINFORCING.
- THE LOCATION OF CMU WALLS, WINDOW AND DOOR OPENINGS OR ANY OTHER MASONRY FEATURES ARE TO BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
- WHEN USING POST TENSION SLABS, NO TIE COLUMNS OR GROUTED CELLS OR ANY OTHER MASONRY ITEM SHALL BE INSTALLED UNTIL THE PT SLAB ABOVE AND BELOW IS STRESSED.
- DROP CONCRETE BEAMS AT ALL MASONRY OPENINGS AND ADD 75 BARS BOTTOM FOR EACH 12" DROP OR PROVIDE PRECAST CONCRETE LINTELS WITH 4"x4"x3/8" SHELF ANGLE WITH TWO (2) 1/2" DIAMETER FLAT HEAD EXPANSION ANCHORS WITH 3" EMBEDMENT OR 8" BEARING ON MASONRY BLOCK.
- BEAMS INDICATED WITH THE PREFIX "TB" SHALL BE CONCRETE AND POURED AFTER THE MASONRY UNITS BELOW ARE PLACED. THE BEAMS SHALL HAVE 75 BARS TOP AND BOTTOM MINIMUM U.O.N. HAVE 4 #5 TIES 12" O.C. AT CORNERS AND AT EACH END WITH REMAINING TIES AT 48" O.C. U.O.N. CONTINUITY SHALL BE PROVIDED AT CORNERS. BY BENDING 2 BARS FROM EACH DIRECTION AROUND THE CORNERS FOR 30" OR BY ADDING 75 BENT BARS WITH EACH WAY CONTINUITY AT CORNERS. U.O.N. CONTINUITY SHALL BE PROVIDED BY CONTINUING HORIZONTAL REINFORCING THRU COLUMNS OR BENDING HORIZONTAL REINFORCING 18" INTO COLUMN.
- REINFORCED MASONRY SHALL BE INSPECTED BY A SPECIAL INSPECTOR AS PER THE FLORIDA BUILDING CODE 2017.

FOUNDATION NOTES:

- THIS FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS PROVIDED IN LETTER DATED MARCH 15TH, 2019 IN COORDINATION WITH NYS GEOTECHNICAL ENGINEERING 4 TESTING CONSULTANTS, INC.
- FOUNDATION DESIGN IS BASED ON AUGERCAST PILE CAPACITIES AS PER GEOTECHNICAL REPORT. NUMBER OF PILES AND PILECAP SIZES ARE BASED ON DEAD LOAD PLUS LIVE LOADS. THE FOUNDATION SIZES MAY NOT BE INCREASED OR DECREASED WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
- ALL FOUNDATION CONCRETE SHALL BE CAST IN THE DRY. DEWATERING OPERATION SHALL BE DONE IN SUCH A WAY THAT GROUND WATER LEVELS OUTSIDE THE SITE WILL BE MAINTAINED TO AVOID SETTLEMENT AND DAMAGE TO NEARBY BUILDINGS AND STRUCTURES.
- THE ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY INTERPRETATION THAT THE SUBSURFACE CONDITIONS DESCRIBED IN THE TEST BORING LOGS OCCUR CONSISTENTLY THROUGHOUT THE JOB SITE. TEST BORINGS ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT SOIL CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND AT THE PARTICULAR TIMES THEY WERE TAKEN.
- GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SHORING, SHEETHING AND BRACING OF EXCAVATIONS.
- EXCAVATION FOR PILE CAPS, FOOTINGS AND GRADE BEAMS SHALL BE FINISHED BY HAND SHOVEL.
- IN NO CASE SHALL TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL UNLESS APPROVED BY THE ENGINEER.
- GENERAL CONTRACTOR SHALL INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, ETC., AS REQUIRED FOR THE VARIOUS TRADES. WALL POCKETS TO RECEIVE BEAMS AND SLABS SHALL BE PROVIDED AS REQUIRED FOR THE SUPER-STRUCTURE. SHOP DRAWINGS SHOWING THE POSITION OF OPENINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- CONCRETE COMPRESSIVE STRENGTH, F_c, FOR FOUNDATION WORK SHALL BE 5000 PSI AT 28 DAYS, WITH A WATER-CEMENT RATIO OF 0.4.
- ALL REINFORCING STEEL USED IN FOUNDATION WORK SHALL COMPLY WITH ASTM A625-83 (S1), GRADE 60. SEE "REINFORCING STEEL" UNDER "GENERAL NOTES".
- THE SOIL ENGINEER OR HIS REPRESENTATIVE OR THE OWNER'S QUALIFIED REPRESENTATIVE SHALL INSPECT ALL SUBGRADE PREPARATION WORK PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE AND SHALL PERFORM TESTS AS NECESSARY TO VERIFY THAT SUCH WORK IS IN CONFORMANCE WITH THE RECOMMENDATION GIVEN IN THE SOIL REPORT.
- THE DESIGN ENGINEER OR HIS QUALIFIED REPRESENTATIVE OR THE OWNER'S QUALIFIED REPRESENTATIVE SHALL CHECK PLACEMENT OF ALL REINFORCING STEEL PRIOR TO CASTING OF ANY CONCRETE.
- THE BUILDING RETAINING WALLS SHALL BE WATERPROOFED. SEE DRAWINGS AND SPECIFICATIONS.
- PROVIDE CONTROL OR CONSTRUCTION JOINTS AS SHOWN IN PLAN. IF SAW-CUT OPTION IS USED, SLABS SHALL BE CUT NOT MORE THAN 24 HOURS AFTER POURING.

EARTH WORK

CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION BRACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES, AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

INDEX OF DRAWINGS

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PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE. SUITE # 202
DELRAY BEACH, FL 33483

CONSULTANTS

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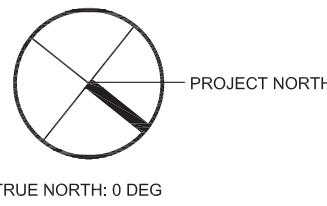
REVISIONS

NO.	DATE	ISSUE

PROJECT STATUS

FDPE SUBMITTAL
DATE OF ISSUE
05/06/19
SCALE
AS SHOWN
PROJECT NO. & TITLE
17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

SD.00

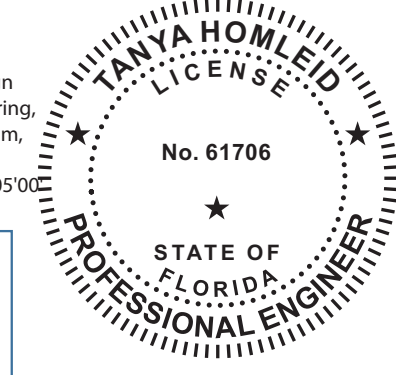
GENERAL NOTES & INDEX

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.

Tanya Homleid

Digitally signed by Tanya Homleid
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o=Optimus Structural Design
LLC, ou=Structural Engineering,
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c=US
Date: 2019.11.19 10:55:28 -0500

Tanya Homleid, State of Florida, Professional Engineer, License No. 61706.
This form has been digitally signed and sealed by Tanya Homleid, PE.
Printed copies of this document are not considered signed and sealed and the
signature must be verified on any electronic copies.
Optimus Structural Design LLC (CA 20217)
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GENERAL NOTES (CONT'D):

SPECIALITY ENGINEERING NOTES:

A SPECIALITY ENGINEER IS A FLORIDA REGISTERED PROFESSIONAL ENGINEER, NOT THE ENGINEER OF RECORD, WHO UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED BY A CONTRACTOR FOR THIS PROJECT.

THE SPECIALITY ENGINEER IS TO BE RETAINED BY THE SUPPLIER OF THE SPECIALITY ITEM OR MAY BE AN EMPLOYEE OF THAT SUPPLIER. ALL COSTS ASSOCIATED WITH THE USE OF A SPECIALITY ENGINEER SHALL BE INCLUDED IN THE BID PRICE OF THE SUPPLIER FOR THE ITEM IN QUESTION.

THE FOLLOWING DESIGN RESPONSIBILITIES ARE ASSIGNED TO THE SPECIALITY ENGINEER. SHOP DRAWINGS AND CALCULATIONS ARE REQUIRED WITH THE IMPRESSED SEAL, DATE, AND SIGNATURE OF THE SPECIALITY ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE SEAL AND SIGNATURE OF THE SPECIALITY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SHOP DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD.

FORMING, SHORING AND RESHORING:

- THE CONTRACTOR SHALL FURNISH COMPLETE FORMING PLANS PREPARED BY A SPECIALITY ENGINEER FOR THE PROJECT. PLANS SHALL BE IN ACCORDANCE WITH ACI 347 RECOMMENDED PRACTICE FOR CONCRETE FORMING, AND INCLUDE ALL SLAB, BEAM, AND COLUMN FORMING WITH ALL CROSS AND LATERAL BRACING REQUIRED.
- SHORING AND RESHORING PLANS SHALL INCLUDE ALL LEVELS OF SHORING REQUIRED, TYPE, CAPACITY AND SPACING OF SHORES AND RESHORES.
- CALCULATIONS FOR THE SHORING AND RESHORING PROCESS MUST INCLUDE THE PLACEMENT AND STRIPPING CYCLE BASED ON THE CONSTRUCTION SCHEDULE, THE ASSUMED CONCRETE STRENGTH AT THE TIME OF STRIPPING AND A DETAILED PROCEDURE FOR THE ENTIRE OPERATION.
- DESIGN FORMS AND SHORES FOR HORIZONTAL CONCRETE MEMBERS FOR NOT LESS THAN THE DEAD LOAD PLUS 50 PSF CONSTRUCTION LOAD AND FOR THE CUMULATIVE LOADS OF SUPPORTED FLOORS.
- ALL MULTISTORY FORMING AND SHORING MUST BE COMPLETELY DETAILED ON PLANS AND SHOW ALL LATERAL BRACING AND CONNECTIONS REQUIRED.
- FOR SPECIAL CONDITIONS SUCH AS TRANSFER SLABS, BEAMS, COLUMNS OR WALLS, OR ANY OTHER STRUCTURAL ELEMENT TRANSFERRING LOAD, THE SPECIALITY ENGINEER PREPARING THE FORMWORK SHALL CONTACT THE ENGINEER OF RECORD FOR ADDITIONAL INFORMATION REGARDING LOADS TO BE TRANSFERRED AT THOSE ELEMENTS.
- THE DESIGN AND DETAILING OF MUD SILLS, IF REQUIRED IS TO BE INCLUDED IN THE SHORING PLANS. SOIL CAPACITY AND COMPACTION REQUIREMENTS TO CARRY THE MUD SILLS SHALL BE SHOWN ON THE PLAN.
- PRIOR TO EACH CONCRETE PLACEMENT, THE SHORING AND RESHORING SHALL BE INSPECTED AND CERTIFIED IN WRITING BY THE SPECIALITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE TO INSURE COMPLIANCE WITH HIS DESIGN.
- NO CONVENTIONALLY REINFORCED FLAT SLAB SHALL BE STRIPPED AND RESHORED UNTIL THE CONCRETE HAS BEEN PLACED FOR 3 DAYS AND REACHED A MINIMUM OF 3000 PSI.

TOWER CRANES, HOISTS AND CONCRETE PUMPS:

- ALL EQUIPMENT THAT IS TO BE ATTACHED TO THE STRUCTURE MUST HAVE THE MANUFACTURERS SPECIFICATIONS OR SIGNED AND SEALED SHOP DRAWINGS SUBMITTED FOR REVIEW.
- SHOP DRAWINGS OR MANUFACTURERS SPECIFICATIONS SHALL INDICATE ALL LATERAL AND AXIAL LOADS, MOMENTS, AND SHEAR FORCES THAT WILL BE IMPOSED ON THE STRUCTURE.
- THE CONTRACTOR SHALL RETAIN A SPECIALITY ENGINEER TO PROVIDE ALL NECESSARY DESIGN AND DETAILS REQUIRED FOR FOUNDATIONS, TIE BACKS, HOLES IN THE STRUCTURE, SHORING, AND BRACING THAT IS ASSOCIATED WITH THE EQUIPMENT THAT IS BEING INSTALLED.
- THE SPECIALITY ENGINEER PERFORMING THIS WORK SHALL INSPECT ALL PHASES OF IT TO INSURE COMPLIANCE WITH HIS DESIGN.

BALCONY RAILINGS, HAND RAILS, STAIR RAILINGS:

- ALL RAILING SYSTEMS FOR BALCONY RAILS, HAND RAILS, STAIR RAILS AND RAMP RAILS SHALL BE DESIGN IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017, WIND LOADS AS SHOWN ON THE STRUCTURAL DRAWINGS.
- SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED AND INDICATE THE DESIGN FOR EACH SEPERATE ELEMENT OF THE SYSTEM.
- SHOP DRAWINGS SHALL SHOW ALL DIMENSIONS, THICKNESSES AND ALLOYS USED ALONG WITH ALL SCREWS, BOLTS AND WELDED CONNECTIONS.
- ALL PROVISIONS FOR THE ATTACHMENT OF THE SPECIALITY ITEM TO THE STRUCTURE SHALL BE SHOWN FOR EACH CONDITION.
- RAILING POSTS SHALL BE ANCHORED TO THE CONCRETE SLAB OR CURB WITH AN APPROVED HIGH STRENGTH GROUT, WHICH CONTAINS NO GYPSUM MATERIAL.
- APPLY SIKAS AEMATEC 160 BONDING AGENT TO ALL BLOCK-OUT OR CORED CONCRETE SURFACES AND ANY EXPOSED REINFORCING OR ACCESSORIES PRIOR TO PLACEMENT OF GROUT.
- FULLY COAT ALL RAILING POST ENDS TO DEPTH OF GROUTED CONNECTION FOR PREVENTION OF GALVANIC ACTION WITH SIKADUR 32 HI-MOD EPOXY.
- ALL GROUTED HOLES SHALL BE MOUNDED TO CREATE POSITIVE DRAINAGE AWAY FROM THE RAILING POSTS.
- A SPECIAL INSPECTOR SHALL BE RETAINED TO INSPECT THE INSTALLATION OF ALL PARTS OF THE RAILING SYSTEM, SEPERATE FROM THE THRESHOLD INSPECTOR.

CURTAIN WALL SYSTEMS, EXTERIOR WINDOWS AND DOORS:

- ALL CURTAIN WALL SYSTEMS, EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017, WIND LOADS AS SHOWN ON THE STRUCTURAL DRAWINGS.
- COMPLETE DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED SHALL BE SUBMITTED FOR APPROVAL. SHOP DRAWINGS SHALL INDICATE ALL DIMENSIONS, MEMBER SIZES, ALLOYS USED ALONG WITH ALL SCREWS, BOLTS, ANCHORS AND WELDING REQUIRED.
- ALL PROVISIONS FOR THE ATTACHMENT OF THE SYSTEM TO THE STRUCTURE SHALL BE SHOWN FOR EACH CONDITION. COORDINATE THE LOCATION OF ALL TOP AND BOTTOM TRACKS SO AS TO AVOID ANCHOR INSTALLATION INTO THE BAND LINES OF THE POST TENSION SYSTEM.
- NO CHIPPING OF CONCRETE COLUMNS OR SLABS SHALL BE DONE TO FACILITATE THE INSTALLATION OF WINDOWS OR DOORS WITHOUT THE PERMISSION OF THE ENGINEER.
- A SPECIAL INSPECTOR SHALL BE RETAINED FOR GLAZING INSPECTIONS AS PER THE FLORIDA BUILDING CODE 2017, SEPERATE FROM THE THRESHOLD INSPECTOR.

SHOP DRAWING SUBMITTALS:

- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS.
- NO DETAIL CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE.
- REVIEW OF SHOP DRAWINGS IS NOT CONDUCTED FOR DETERMINING THE ACCURACY AND COMPLETENESS OF DETAILS OR FOR SUBSTANTIATING FABRICATION, INSTALLATION INSTRUCTIONS, OR PERFORMANCE, ALL OF WHICH SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- ALL CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. ENGINEERS SECOND REVIEW WILL BE LIMITED TO THESE ITEMS.
- A MAXIMUM OF SIX ORIGINALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW ONLY AFTER THEY HAVE BEEN APPROVED BY THE CONTRACTOR. FIVE MARKED COPIES WILL BE RETURNED AFTER THE REVIEW.
- POST TENSION SLAB SHOP DRAWINGS AND MILD STEEL SLAB REINFORCING DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY FOR EACH FLOOR REQUIRED.
- TURN AROUND TIME BY THE ENGINEER FOR SHOP DRAWING REVIEW WILL BE FIVE WORKING DAYS.

CONDUITS AND PIPES IN CONCRETE SLABS:

- CONDUITS, PIPES, SLEEVES ETC MAY BE EMBEDDED IN THE CONCRETE PROVIDING THE MATERIAL IS NOT HARMFUL TO THE CONCRETE AND THE WORK IS DONE IN SUCH A MANNER THAT NO PART OF THE STRUCTURE IS IMPAIRED. THIS WORK SHALL BE DONE WITH THE APPROVAL OF THE ENGINEER.
- ALL MAJOR HOME RUNS OF CONDUITS OR PIPES, EITHER ELECTRICAL OR MECHANICAL, WILL REQUIRE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE INSTALLATION. SHOP DRAWINGS SHALL INDICATE ALL PIPE LOCATIONS, NUMBER AND SIZES, BENDS AND SLOPES THAT NEED TO BE PLACED IN THE CONCRETE.
- ALL CONDUITS, PIPES EMBEDDED WITHIN A SLAB, BEAM OR WALL SHALL SATISFY THE FOLLOWING:
 - NO PIPES OR CONDUIT EXCEEDING 1/3 THE SLAB THICKNESS IN OUTSIDE DIAMETER SHALL BE ALLOWED.
 - THEY SHALL BE SPACED NO CLOSER THAN THREE DIAMETERS O.C. AND BE LOCATED BETWEEN THE TOP AND BOTTOM LAYERS OF REINFORCING.
 - NO CONDUITS OR PIPES SHALL BE TIED TO THE POST TENSION TENDONS UNDER ANY CIRCUMSTANCES. NO REINFORCING SHALL BE DISPLACED FROM ITS PROPER POSITION.
 - ALL CHAIRS AND BARS REQUIRED FOR SUPPORT OF CONDUITS AND PIPES SHALL BE SUPPLIED BY THE CONTRACTOR WHO IS INSTALLING THE PIPES.
- ALL RUNS OF CONDUITS OR PIPES OVER 24 INCHES IN WIDTH SHALL HAVE 4"x12" O.C. TOP AND BOTTOM ADDED PERPENDICULAR TO THE RUN AND EXTEND 12' BEYOND THE END PIPE.
- ALL CONDUITS AND PIPES SHALL BE OF MATERIALS THAT ARE NOT EXPOSED TO RUSTING OR OTHER DETERIORATION.
- PIPES AND FITTINGS SHALL BE DESIGNED SO AS TO RESIST THE EFFECTS OF PRESSURE, TEMPERATURE AND MATERIALS TO WHICH THEY WILL BE SUBJECTED.
- NO GAS, VAPOR OR LIQUID EXCEEDING 50 PSF PRESSURE SHALL BE PLACED IN PIPES UNTIL THE CONCRETE HAS REACHED ITS DESIGN STRENGTH.

SPECIAL CONSTRUCTION NOTES:

- THE REINFORCING STEEL IN ALL EXPOSED EXTERIOR BALCONIES SHALL BE PROTECTED AGAINST MOISTURE INTRUSION IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017, SECTION 1904 AS FOLLOWS:
 - MINIMUM CLEARANCE TO ALL TOP (NEGATIVE) REINFORCING SHALL NOT BE LESS THAN 1"
 - THE CONCRETE SHALL BE 6000 PSI (NORMAL WEIGHT CONCRETE) WITH A MAXIMUM WATER CEMENT RATIO OF 0.40 BY WEIGHT.
 - REINFORCING STEEL, STUD RAILS, SHEAR HEADS SUPPORT BARS, BACK-UP BARS, TIE WIRE ETC IN BALCONY SLABS, BEAMS AND CURBS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A167, SPECIFICATIONS FOR ZINC-COATED (GALVANIZED) BARS FOR CONCRETE REINFORCEMENT. ONLY USE PLASTIC CHAIRS FOR STEEL SUPPORT.
 - A SURFACE PENETRANT SEALER OF ALKYL-ALKOXY SILANE CLASSIFICATION OR APPROVED EQUAL SHALL BE APPLIED TO ALL EXPOSED CONCRETE.
 - BALCONY SLABS SHALL BE SLOPED A MINIMUM 1/8" PER LINEAR FOOT TO SAFE GUARD AGAINST FONDING OF WATER.
 - PLACEMENT OF SLAB REINFORCEMENT SHALL BE UNDER THE SUPERVISION OF A FLORIDA REGISTERED ARCHITECT OR ENGINEER.
- MPX STEEL CAN BE USED AS AN ALTERNATIVE TO HOT-DIPPED GALVANIZED STEEL IN THE BALCONIES, AT CONTRACTORS OPTION.
- ALL CONCRETE FOR SHEARWALLS AND COLUMNS SHALL BE CURED WITH AN APPROVED CURING COMPOUND IMMEDIATELY AFTER THE FORMS ARE REMOVED.
- FINISHED FLOOR SLABS SHALL BE CURED WITH AN APPROVED WATER BASED CURING COMPOUND WHICH WILL NOT EFFECT THE ADHESION PROPERTIES OF THE CONCRETE.
- ALL MASONRY DOVE-TAIL ANCHORS, DUR-O-WALL REINFORCING SHALL BE HOT DIPPED GALVANIZED FOR STRUCTURES LOCATED IN CORROSIVE ATMOSPHERES.

CONSTRUCTION TOLERANCES:

- THE FRAME SHALL BE BUILT TRUE AND PLUMB. CONSTRUCTION TOLERANCE SHALL CONFIRM TO ACI STANDARDS AS SET FORTH IN THE MANUAL OF CONCRETE PRACTICE. MINIMUM TOLERANCE SHALL BE AS FOLLOWS:
 - VARIATIONS FROM PLUMB:
 - IN THE LINE SURFACES OF COLUMNS, PIERS, WALLS, AND IN AREAS AS FOLLOWS:

IN ANY 10 FEET OF LENGTH	1/4 INCH
MAXIMUM FOR ENTIRE LENGTH	1 INCH
 - FOR EXPOSED CORNER COLUMNS, CONTROL JOINTS GROOVES AND OTHER LINES:

IN ANY 20 FEET OF LENGTH	1/4 INCH
MAXIMUM FOR ENTIRE LENGTH	1 INCH
 - VARIATION FROM THE LEVEL OR FROM THE GRADES INDICATED ON THE DRAWINGS.
 - IN SLAB SOFFITS, CEILINGS, BEAM SOFFITS AND IN AREAS AS FOLLOWS:

IN ANY 10 FEET LENGTH	1/4 INCH
IN ANY BAY OR IN ANY 20 FEET OF LENGTH	3/8 INCH
MAXIMUM FOR ENTIRE LENGTH	3/4 INCH
- IN EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES AND OTHER LINES:

IN ANY BAY OR ANY 20 FEET OF LENGTH	1/4 INCH
MAXIMUM FOR ENTIRE LENGTH	1/2 INCH

BALCONY TERRACE DECK MOISTURE PROTECTION

ALL BALCONY REINFORCING SHALL BE PROTECTED AGAINST MOISTURE INTRUSION IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017 AS FOLLOWS:

- CLEARANCE TO ALL BALCONY NEGATIVE REINFORCING SHALL BE NO LESS THAN 1".
- THE CONCRETE PLACED SHALL BE A DESIGN MIX USING A MAXIMUM WATER CEMENT RATIO OF 0.40 BY WEIGHT AND RUST INHIBITIVE ADJUTIVE.

LINTELS:

LINTELS MAY BE USED IN MASONRY OPENINGS UP TO 6'-6" CLEAR. THESE MAY BE PRE-CAST OR CAST IN PLACE. THE LINTEL SHALL BE 8" X 12" MINIMUM WITH 2 #5 TOP AND BOTTOM, 3 TIES AT 5' AND SHALL BEAR 8" AT EACH SIDE OF OPENINGS. SEE SPECIALITY DETAIL DWGS. FOR ALTERNATE DETAILS.

TERMITE PROTECTION:

ALL BUILDINGS SHALL HAVE PRE-CONSTRUCTION TREATMENT PROTECTION AGAINST SUBTERRANEAN TERMITES. THE RULES AND LAWS AS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES SHALL BE DEEMED AS APPROVED WITH RESPECT TO PRE-CONSTRUCTION SOIL TREATMENT FOR PROTECTION AGAINST SUBTERRANEAN TERMITES. A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: 'THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.'

ALUMINUM NOTES:

- ALUMINUM DESIGN IS IN ACCORDANCE WITH THE F.B.C. AND THE ALUMINUM ASSOCIATION SPECIFICATIONS FOR ALUMINUM STRUCTURES.
- ALUMINUM ALLOYS SHALL BE 6061-T6. ALL WELDING SHALL BE PERFORMED WITH 5053 FILLER ALLOY, UON, AS PER AWS GUIDELINES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO WORK AND VERIFY CONNECTION OF UNIT TO FRAME DOES NOT VOID MANUFACTURERS WARRANTY.
- FASTENING ATTACHMENTS OF THE ALUMINUM STANDS TO THE ROOF MEET THE CURRENT FBC WIND LOAD REQUIREMENTS.

STRUCTURAL STEEL NOTES:

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC 'SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS', WITH COMMENTARY.
- STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:

ROLLED SHAPES	ASTM	A992
FLATES AND BARS	ASTM	A36
STEEL TUBING	ASTM	A500 GRADE B
STEEL PIPE	ASTM	A53 GRADE B
ANCHOR BOLTS	ASTM	A307
HIGH STRENGTH BOLTS	ASTM	A325.
- ALL BOLTS SHALL BE PROVIDED WITH HARDENED WASHERS CONFORMING TO ASTM F436.
- HOLES SHALL BE CUT, PUNCHED OR DRILLED PERPENDICULAR TO METAL SURFACED. DO NOT FLAME CUT HOLES OR ENLARGE HOLES BY BURNING.
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE STAINLESS STEEL, INCLUDING BOLTS, NUTS AND WASHERS.
- PROVIDE ONE COAT OF RUST INHIBITING PAINT MIN. 3 MIL DRY FILM THICKNESS ON ALL OTHER STRUCTURAL STEEL, UON.
- ALL SHOP CONNECTIONS SHALL BE WELDED UNLESS OTHERWISE INDICATED.
- FIELD CONNECTIONS SHALL BE WELDED UNLESS OTHERWISE INDICATED. ALL BOLTED FIELD CONNECTIONS SHALL BE FRICTION TYPE UON.
- CONTRACTOR OR FABRICATOR SHALL PROVIDE ALL TEMPORARY BRACING NECESSARY TO INSURE A STABLE STRUCTURE DURING CONSTRUCTION.
- ALL WELDING IS TO BE PERFORMED BY CERTIFIED WELDERS. WELDING SHALL BE MADE WITH E70XX SERIES ELECTRODES AND CONFORM TO THE CURRENT RECOMMENDATIONS OF THE AISC AND THE AMERICAN WELDING SOCIETY (AWS).
- SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- THE FRAMES SHALL BE CARRIED UP TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED WHEREVER TO TAKE CARE OF ALL LOAD TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING EQUIPMENT AND OPERATION OF SAME. SUCH BRACING SHALL BE THE RESPONSIBILITY OF THE STEEL CONTRACTOR AND SHALL BE IN PLACE AS LONG AS REQUIRED FOR SAFETY.
- ALL WELDED CONNECTIONS SHALL CONFORM TO THE 'AMERICAN WELDING SOCIETY CODE', AWS D1-1.17. PROVISIONS SHALL BE MADE FOR FIELD INSPECTION AND TESTING OF WELDS. ALL SHOP WELDS SHALL BE TESTED BY NON-DESTRUCTIVE METHODS AND SHALL BE CERTIFIED. 1) ALL SHOP CONNECTIONS SHALL BE HIGH STRENGTH BOLTED OR WELDED. FIELD CONNECTIONS SHALL BE BOLTED, UON. ALL WELDING SHALL BE DONE BY STATE OF FLORIDA CERTIFIED WELDERS.
- STRUCTURAL STEEL DETAILER TO DESIGN AND DETAIL ANY CONNECTION NOT DETAILED ON DRAWINGS (BASED ON LOADS SHOWN).
- FOR FABRICATION OF WORK WHICH WILL BE EXPOSED TO PUBLIC VIEW IN THE COMPLETED STRUCTURE, USE ONLY MATERIALS WHICH ARE SMOOTH AND FREE OF SURFACE BLEMISHES, INCLUDING FITTING, SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES AND ROUGHNESS. REMOVE SUCH BLEMISHES BY GRINDING OR BY WELDING AND GRINDING, PRIOR TO CLEANING, TREATING AND APPLICATION OF SURFACE FINISHES.
- SPLICES FOR HOT ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING 2" SHALL COMPLY WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND/OR AISC 360-10 CHAPTER A3.1c.

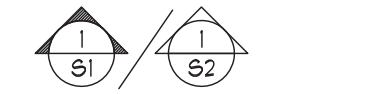
WOOD CONSTRUCTION:

- ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF 'THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION' LATEST EDITION.
- WOOD JOISTS SHALL BE SOUTHERN PINE, NO. 2 GRADE, SURFACE DRY WITH 18% MAXIMUM MOISTURE CONTENT. F_b = 1000 PSI, E = 1,400,000 PSI, F_v = 115 PSI.
- STUDS AND GENERAL ROUGH CARPENTRY SHALL BE HEM FIR OR SOUTHERN PINE CONSTRUCTION GRADE. F_b = 825 PSI, E = 1,000,000 PSI, F_v = 50 PSI OR APPROVED BY THE ENGINEER IN ADVANCE.
- CROSS BRIDGINS SHALL BE PROVIDED OR APPROVED BY THE ENGINEER IN ADVANCE. CROSS BRIDGING SHALL BE PROVIDED AT 10'-0" O.C. MAXIMUM FOR ALL JOISTS AND RAFTERS MORE THAN 8" IN DEPTH USE 2" X 3" OR AN APPROVED BRIDGING. 2 X SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS.
- WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND MEET THE REQUIREMENTS OF A STANDARD GOOD PRACTICE NORMAL TO THE TRADE.
- LIGHT GAUGE STRUCTURAL CONNECTORS SPECIFIED ON THE DRAWINGS ARE AS SHOWN ON DRAWINGS. EQUIVALENT APPROVED CONNECTORS WITH IDENTICAL DIMENSIONS WHERE NECESSARY AND EQUAL OR GREATER LOAD CAPACITIES ARE ACCEPTABLE AS ALTERNATES.

DRAFTING SYMBOLS



DETAIL DESIGNATION



MAJOR/MINOR BUILDING ELEVATION



MAJOR/MINOR BUILDING SECTION



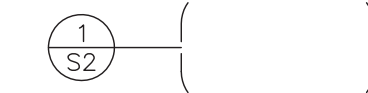
GRID LINE



MATCH LINE



ELEVATION TAG



REFERENCE TO PLAN OR SECTION AREA ENLARGEMENT



COLUMN STARTS AT THIS LEVEL



COLUMN ABOVE & BELOW THIS LEVEL



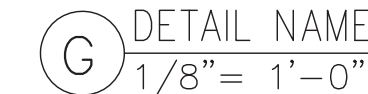
COLUMN TERMINATES AT THIS LEVEL



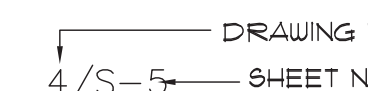
SHEARHEAD / STUDRAIL TYPE



STEP IN SLAB



DRAWING DETAIL NUMBER



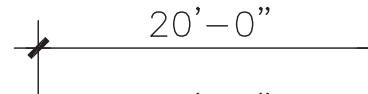
REFERENCE DESIGNATION WHEN USED IN A NOTE



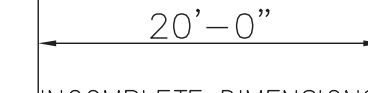
CENTER LINES, GRID LINES, FLOOR LINES ON EXTERIOR ELEV., PROJECTED LINES



INVISIBLE HIDDEN LINES, ITEMS TO BE REMOVED, ITEMS NOT IN CONTRACT



DIMENSIONS



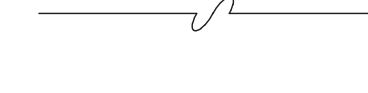
SLASH LINES AT DIMENSIONS TO CENTER LINES AND GRID LINES



ARROWS AT DIMENSIONS TO FACE OF MATERIALS.



REVISION CLOUD & NUMBER



BREAK LINES

PLYWOOD:

- SHALL COMPLY WITH THE PLYWOOD DESIGN SPECIFICATION BY THE AMERICAN PLYWOOD ASSOCIATION.
- PLYWOOD SHEATHING SHALL BE 5/8", APA RATED SHEATHING, EXTERIOR, 48/24 PANEL IDENTIFICATION.
- PROVIDE BLOCKING AT ALL PLYWOOD PANEL JOINTS.
- PLYWOOD SHALL BE EXTERIOR TYPE WITH EXTERIOR GLUE (CDX) DPFA TRADEMARK STAMPED AND CONFORMING TO PS-1-83. ALL STRUCTURAL LUMBER AND FASTENINGS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER CUT AND ITS FABRICATION.
- PLYWOOD MAY BE NAILED WITH THE USE OF AIR POWERED GUNS EXCEPT WHERE NOTED OR SHOWN OTHERWISE. THE NAIL SHALL BE DRIVEN BUT IN NO CASE SHALL THE DRIVING OF THE NAILS BREAK OR SPLIT THE FACE PLY OF THE PLYWOOD SHEET. PLYWOOD SHEETS WITH BROKEN OR SPLIT FACES SHALL BE REMOVED AND NEW SHEETS PLACED AS DIRECTED, ALL AT THE EXPENSE OF THE CONTRACTOR.

PLYWOOD FASTENING:

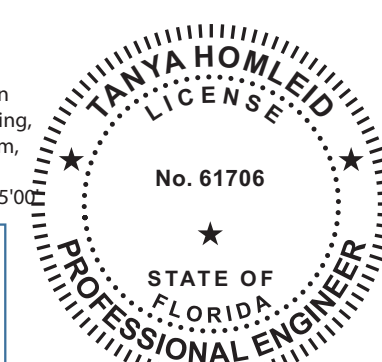
FOLLOW MINIMUM RECOMMENDED FASTENING SCHEDULE, FLORIDA BUILDING CODE UNLESS OTHERWISE NOTED ON THE PLAN.

- ROOF - 10d NAILS @ 6" O.C. AT PLYWOOD EDGES, PERIMETER AND INTERMEDIATE. AT GABLE ENDS AND 4'-0" BACK FROM GABLE ENDS, PROVIDE 10d NAILS @ 4" O.C. AT PLYWOOD EDGES, PERIMETER AND INTERMEDIATE, AND BLOCK ALL PLYWOOD EDGES (4'-0" BACK FROM GABLE ENDS).
- WALLS - NAILS w/ 8d at 6" O.C. AT ALL PLYWOOD EDGES AND INTERMEDIATE SUPPORTS. AT ALL CORNERS PROVIDE MINIMUM 3 STUDS - FASTEN w/ 8d NAILS @ 4" O.C. AT ALL CORNER STUDS.

Tanya Homleid

Digitally signed by Tanya Homleid
DN: cn=Tanya Homleid,
o=Optimus Structural Design
LLC, ou=Structural Engineering,
email=tanya@optimusd.com,
c=US
Date: 2019.11.19 10:56:14 -0500

Tanya Homleid, State of Florida, Professional Engineer, License No. 61706.
This item has been digitally signed and sealed by Tanya Homleid, PE.
Printed copies of this document are not considered signed and sealed and the
signature must be verified on any electronic copies.
Optimus Structural Design LLC (FLA 2017)
7850 NW 146 Street, Suite 305
Miami Lakes, FL 33466



OPTIMUS CONSULTING ENGINEERS

C.A. No: 26217

TANYA HOMLEID PE 61706

7850 NW 146 STREET, SUITE 305
MIAMI LAKES, FLORIDA 33016
Tel: 305.512.5860
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e-mail: optimusd@bellsouth.net

**NICHOLS
BROSCH
WURST
WOLFE**
& ASSOCIATES, INC.
Architecture & Planning

PROJECT

SANDCASTLE RESORT AT LIDO BEACH
SARASOTA, FL
OWNER
LIDO SAND, LLC
1001 EAST ATLANTIC AVE. SUITE # 202
DELRAY BEACH, FL 33483

CONSULTANTS

ARCHITECT OF RECORD
**NICHOLS BROSCH WURST WOLFE
& ASSOCIATES, INC.**
161 ALMERIA AVE
CORAL GABLES, FL 33134
(305) 443-0206

STRUCTURAL ENGINEER
OPTIMUS STRUCTURAL DESIGN, LLC.
7850 NW 146th STREET, SUITE # 305
MIAMI LAKES, FL 33016
(305) 512-5860

LANDSCAPE ARCHITECT
GEORGE F. YOUNG, INC.
10540 PORTAL CROSSING, SUITE # 105
LAKEWOOD RANCH, FL 34211
(941) 747-2981

CIVIL ENGINEER
GEORGE F. YOUNG, INC.
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SURVEYOR
GEORGE F. YOUNG, INC.
10540 PORTAL CROSSING, SUITE # 105
LAKEWOOD RANCH, FL 34211
(941) 747-2981

REVISIONS	
NO.	DATE
ISSUE	

PROJECT STATUS

FDP SUBMITTAL

DATE OF ISSUE

05/06/19

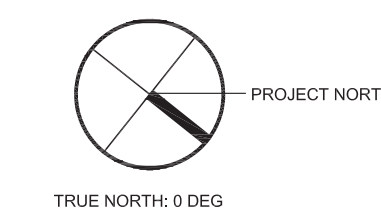
SCALE

AS SHOWN

PROJECT NO. & TITLE

17003 SANDCASTLE RESORT AT LIDO BEACH

SCALE & ORIENTATION



SCALE AS SHOWN ON PLAN

SEAL & SIGNATURE

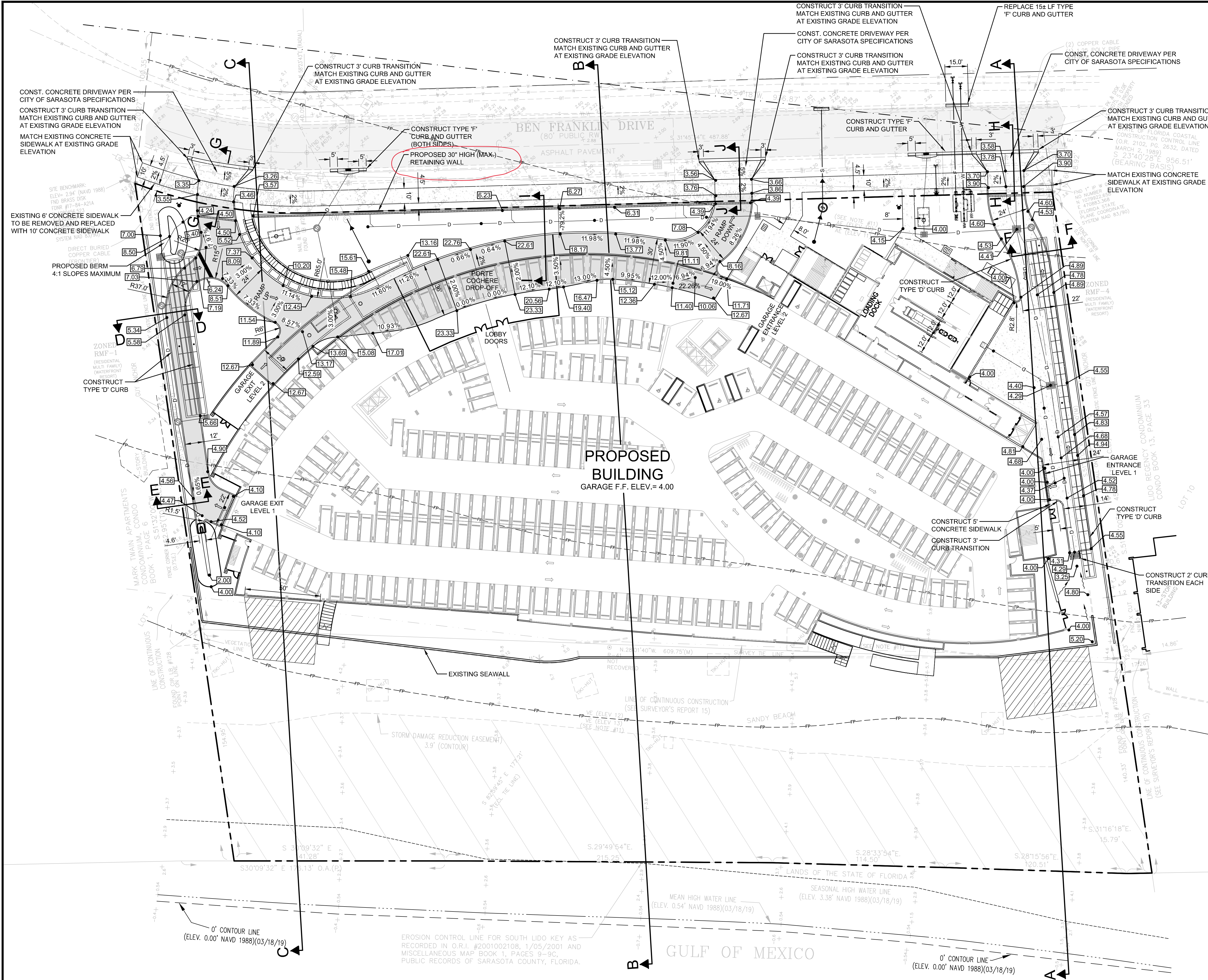
JAMES P. WURST, ARCHITECT
AR011080

DRAWING TITLE

SD.10

GENERAL NOTES &
SYMBOLS

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE.



LEGEND

- EXIST. ELECTRIC METER
- EXIST. CONCRETE POWER POLE
- EXIST. POWER SUPPLY BOX
- EXIST. WATER METER
- EXIST. WATER VALVE
- EXIST. GAS LINE MARKER
- EXIST. OVERHEAD ELECTRIC
- EXIST. EROSION CONTROL LINE
- EXIST. TELEPHONE RISER
- EXIST. SIGN
- EXIST. SANITARY MANHOLE
- EXIST. STORMWATER MANHOLE
- EXIST. FIRE HYDRANT
- RIGHT OF WAY LINE
- EXIST. SEAGRAPE TREE
- EXIST. PALM TREE
- EXIST. ORNAMENTAL TREE UNKNOWN
- EXISTING SPOT ELEVATION (SOFT SURFACE)
- EXISTING SPOT ELEVATION (HARD SURFACE)
- NATIONAL GEODETIC VERTICAL DATUM OF 1929
- NORTH AMERICAN VERTICAL DATUM OF 1988
- PROJECT BOUNDARY
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE SYSTEM
- PROPOSED WATER SYSTEM
- PROPOSED STORM DRAINAGE
- PROPOSED STORM JUNCTION BOX
- PROPOSED SANITARY SEWER
- PROPOSED FIRE LINE
- PROPOSED DOMESTIC WATER
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED METER
- PROPOSED SIDEWALKS, DRIVES, ETC.
- PROPOSED PAVEMENT

SEE TOPOGRAPHIC SURVEY BY GEORGE F. YOUNG, INC. DATED SEPTEMBER, 2015 FOR ADDITIONAL DELINEATION OF EXISTING FEATURES SYMBOLS AND ABBREVIATIONS

NOTES:

- EXISTING CONDITIONS (BOUNDARY AND TOPOGRAPHIC SURVEY) SHOWN PROVIDED BY GEORGE F. YOUNG, INC. LAST UPDATED 08/21/17. ADDITIONAL EXISTING UTILITY INFORMATION TAKEN FROM CITY OF SARASOTA RECORD DRAWINGS. HAS BEEN ADDED.
- THE EXISTING DRIVEWAY APRONS ALONG BENJAMIN FRANKLIN DRIVE WILL BE REMOVED AND REPLACED WITH NEW ACCESS DRIVEWAYS AND CURB AND GUTTER AS SHOWN ON PLAN.
- THE EXISTING 6 FOOT WIDE CONCRETE SIDEWALK ALONG BENJAMIN FRANKLIN DRIVE WILL BE REMOVED AND REPLACED WITH A 10 FOOT WIDE CONCRETE SIDEWALK. CURB ALONG NORTH SIDE OF GULF STREAM AVENUE.
- ALL EXISTING ON-SITE UTILITIES AND SERVICES SHALL BE REMOVED TO THE POINT OF CONNECTION ON THE ADJACENT RIGHT-OF-WAY AS REQUIRED.
- ALL EXISTING LIGHT POLES, UTILITY POLES, STREET SIGNS AND OTHER EXISTING FEATURES THAT ARE TO BE RELOCATED SHALL BE DETAILED AND COORDINATED DURING THE CONSTRUCTION PLAN REVIEW AND APPROVAL PROCESS.
- THE GARAGE FINISHED FLOOR SHALL INCLUDE ADA COMPLIANT RAMPING TO MEET THE THRESHOLD ELEVATION SHOWN.
- THE PROPOSED SWIMMING POOLS ARE PLANNED TO HAVE CARTRIDGE FILTERS WHICH WILL ALLOW WASTEWATER PIPING TO BE CONNECTED TO THE PROJECT'S STORM SEWER SYSTEM. THE WASTEWATER PIPING WILL BE DETAILED ON THE PROJECT'S FINAL CONSTRUCTION PLANS.
- ALL PROPOSED IMPROVEMENTS WITHIN CITY (BENJAMIN FRANKLIN DRIVE) RIGHT-OF-WAY SHALL BE COMPLETED IN FIRST PHASE OF PROJECT.
- ANY DAMAGE TO THE RIGHT-OF-WAY CAUSED BY CONSTRUCTION ACTIVITIES DURING THE COURSE OF THE PROJECT SHALL BE REPLACED AND/OR REPAIRED PRIOR THE CERTIFICATION OF OCCUPANCY WILL BE RELEASED.

FOR CITY ENGINEER'S USE

NO.	BY	DATE	DESCRIPTION
1	NICKOLS	09/24/19	DESIGN
2	NICKOLS	09/25/19	DRAWN
3	RISSMAN	09/26/19	CHECKED
4	RISSMAN	09/26/19	QUALITY CHK
5	RISSMAN	09/26/19	SCALE

NO.	BY	DATE	DESCRIPTION
1	NICKOLS	09/24/19	DESIGN
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3	RISSMAN	09/26/19	CHECKED
4	RISSMAN	09/26/19	QUALITY CHK
5	RISSMAN	09/26/19	SCALE

PREPARED FOR:

LIDO SAND, LLC

1001 E. ATLANTIC AVENUE, SUITE 202

DELRAY BEACH, FLORIDA 33483

561-573-5350

George F. Young, Inc.

10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913

PHONE (941) 747-2981 FAX (941) 747-7234

ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21

CIVIL & TRANSPORTATION ENGINEERING/ECOLOGICAL/ISLANDSCAPE ARCHITECTURE

PLANNING/SURVEYING/SUBSURFACE UTILITY ENGINEERING

GAINESVILLE • LAKEWOOD RANCH • ORLANDO • PALM BEACH • ST. PETERSBURG • TAMPA

DATE November 12, 2019

FOR CITY ENGINEER'S USE

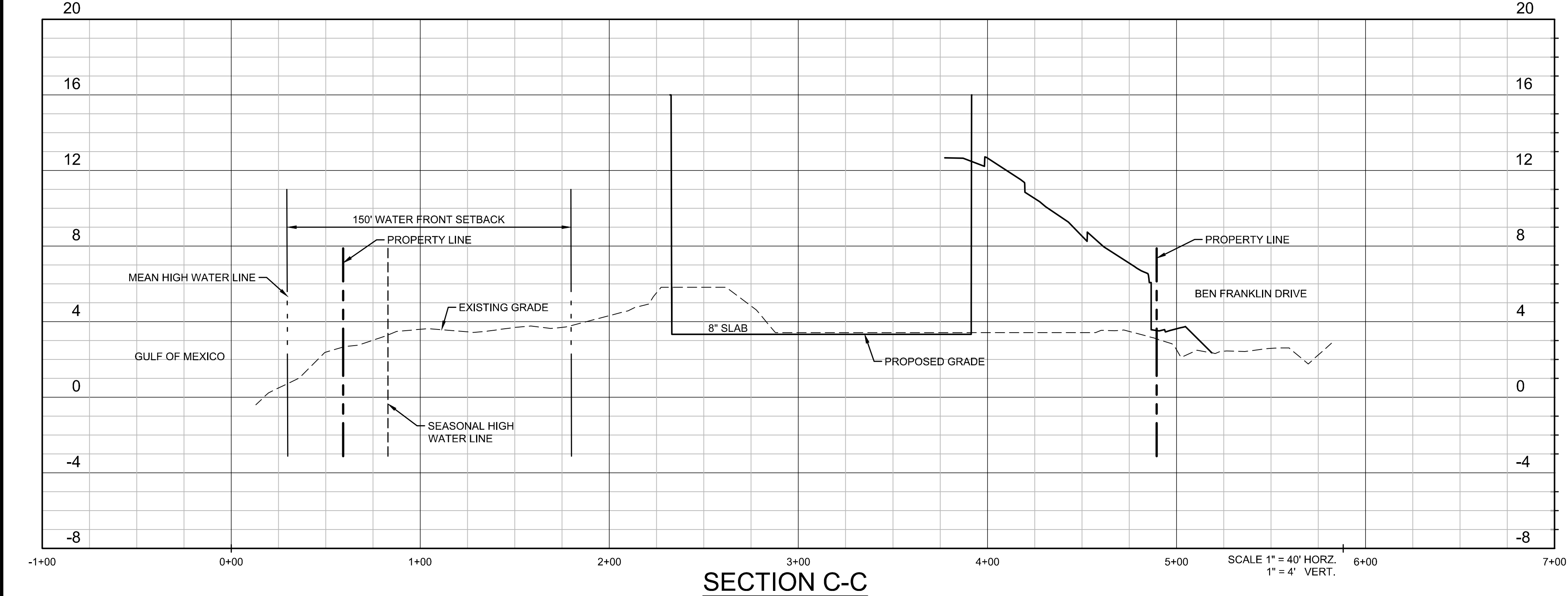
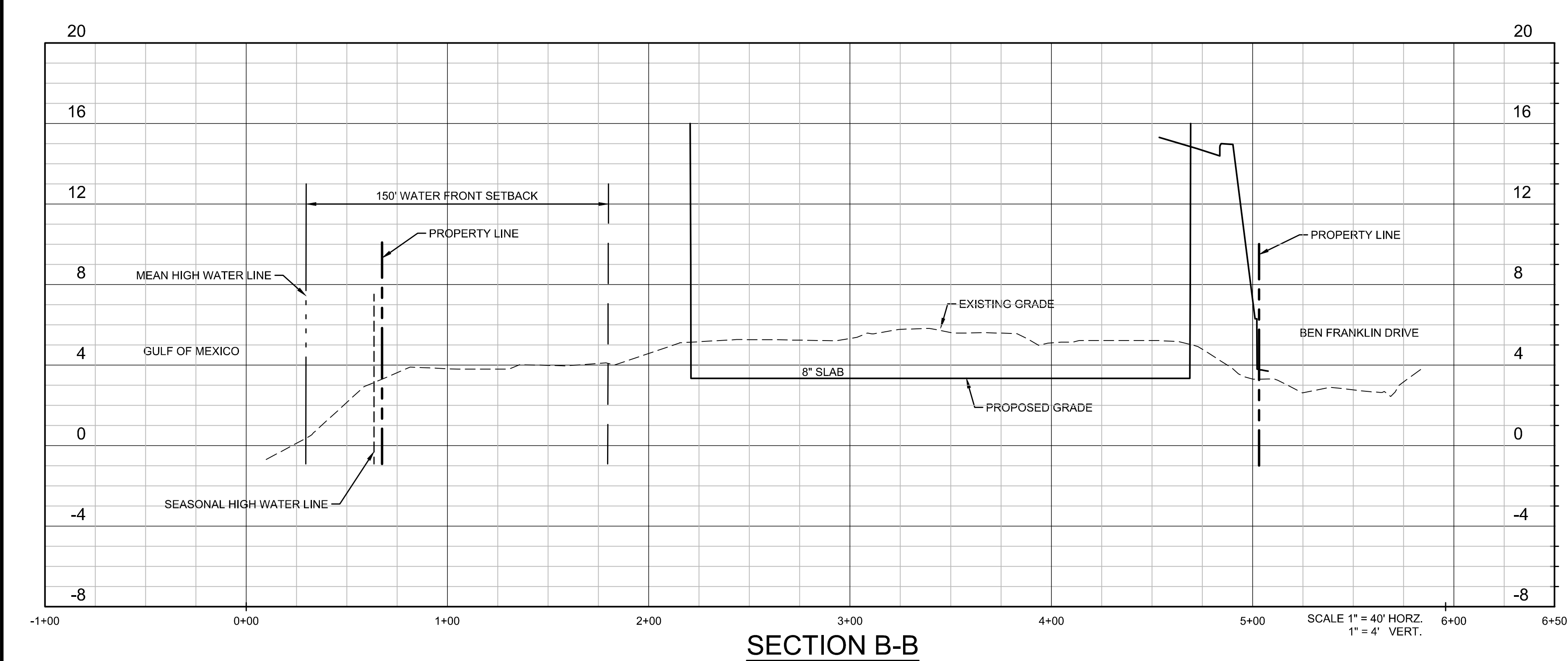
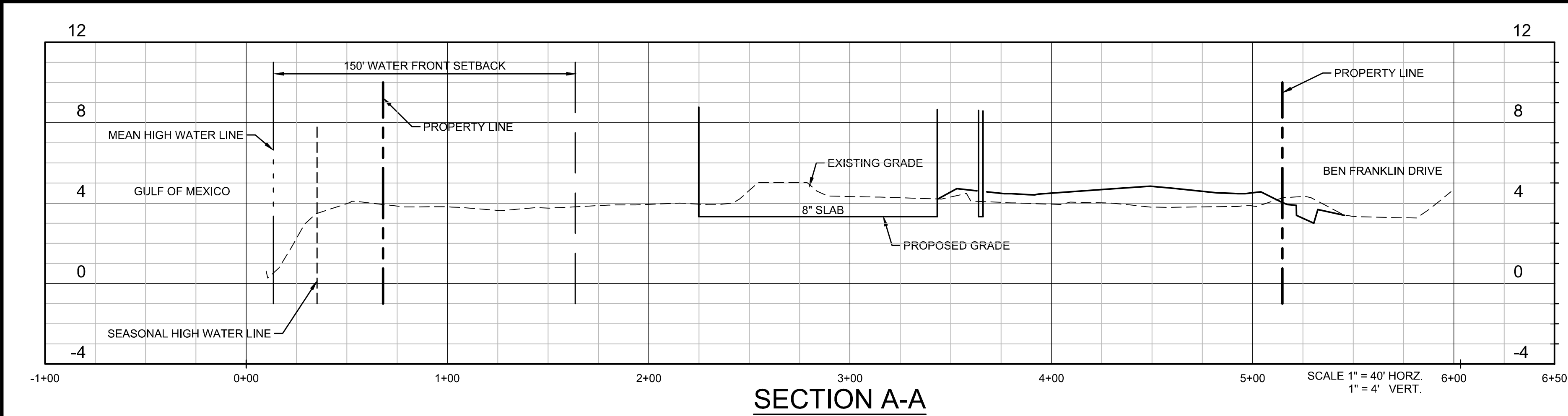
SAND CASTLE RESORT AT LIDO BEACH

PAVING AND GRADING PLAN

SECTION 35, TOWNSHIP 36S., RANGE 17E.

JOB NO. 0273011604

SHEET NO. C6



Cut/Fill Report

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Building Cut	full	1.000	1.000	125668.86	7951.17	455.58	7495.59<Cut>
Drivelanes and maintenance	full	1.000	1.000	46966.16	203.19	6429.57	6226.37<Fill>

Totals				
	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	172635.02	8154.37	6885.14	1269.22<Cut>

* Value adjusted by cut or fill factor other than 1.0

Cut Volumes				Material CY
Building		Model		7,810
DriveLanes and Maintenance		Model		203
Foundation	1,753 LF		3 SF	195
Pile Caps	17,570 SF		2 FT	1,301
Chambers 100HD	2,207 SF		2.04 FT	167
Chambers 150XLHD	1,687 SF		2.54 FT	159
				9,835
Reduce Cut Volumes for Existing Removal that is not sand				
Slabs	63,434 SF		0.5 FT	1,175
Sidewalk	43,996 SF		0.333 FT	543
Pavement	31,968 SF		1.083 FT	1,282
				3,000
Subtotal Cut Volumes				6,835
Fill Volumes				
Fill in under Building (pools)		Model		456
Drive Lanes		Model		6,430
				6,886
Fill Volumes reduction for new infrastructure in concrete or asphalt/b				
Pavement	24,394 CY		1.083 FT	978
Sidewalk	4,797 SF		0.333 FT	59
				1,038
Subtotal Fill Volumes				5,848
Excess Material				987

"NOT FOR CONSTRUCTION"

NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION
DESIGN	NICKOLS	09/24/19		DESIGN	NICKOLS	09/24/19	
DRAWN	NICKOLS	09/25/19		DRAWN	NICKOLS	09/25/19	
CHECKED	RISSMAN	09/26/19		CHECKED	RISSMAN	09/26/19	
QUALITY CHK				QUALITY CHK			
SCALE				SCALE			

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GAINESVILLE LAKEWOOD RANCH ORLANDO PALM BEACH ST. PETERSBURG TAMPA

This form has been electronically signed and sealed by
MICHAEL E. RISSMAN, PE, on 11/12/2019, using a SHA authentication
code. Printed copies of this document are not considered
signed and sealed and the SHA authentication code must be
verified on any electronic copies.
MICHAEL E. RISSMAN, PE, No. 40218
State of Florida Professional Engineer, License #
DATE November 12, 2019

SAND CASTLE RESORT AT LIDO BEACH
SITE CROSS SECTIONS
SECTION 35, TOWNSHIP 36 S., RANGE 17 E.

JOB NO.
0273011604
SHEET NO.
C8

FILE: I:\PROJECTS\3500\2003\0273011604\New\CSA\0273011604-18.dwg PLOTTED: 11/12/2019 2:25:28 PM PLOTTER: T11441, Anthony