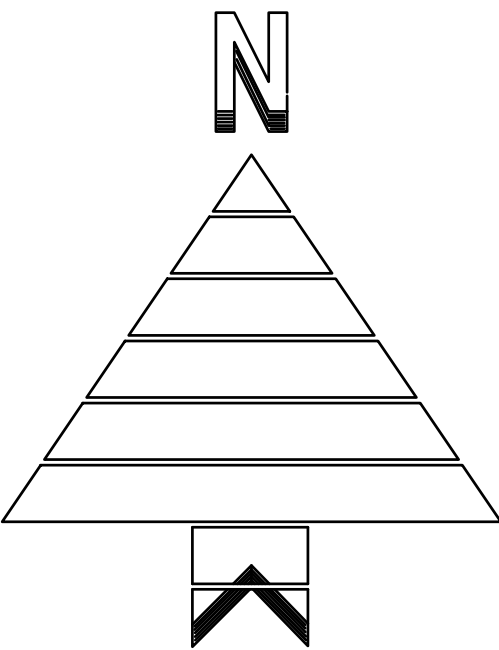
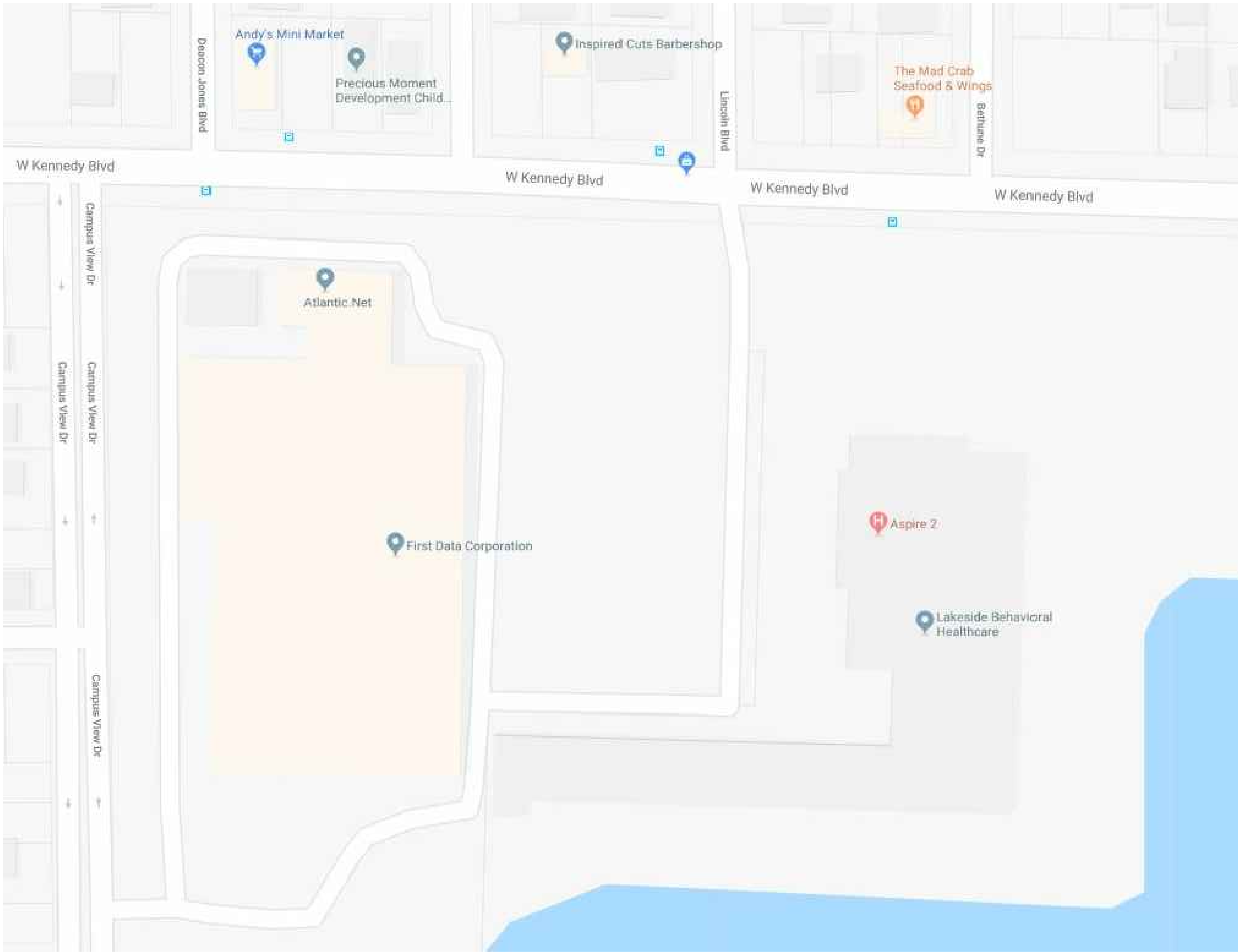


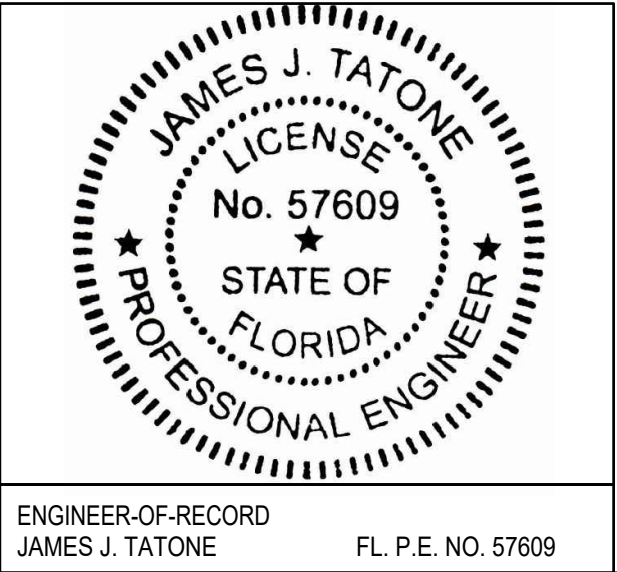
# ASPIRE HEALTH PARTNERS KASSAB PLAZA GENERATOR ADDITION



PLAN SUBMISSION INDEX		
DRAWING NO.	DESCRIPTION	PERMIT DOCUMENTS (02.22.19)
GENERAL		
G0.1	COVER SHEET & INDEX	X
STRUCTURAL		
S-001	FOUNDATION PLAN AND SECTIONS	X
ELECTRICAL		
E0.1	LEGEND, SYMBOLS AND ABBREVIATIONS	X
E1.1	OVERALL SITE PLAN	X
E2.1	GENERATOR ADDITION AREA PLAN	X
E4.1	POWER RISER DIAGRAM	X

- APPLICABLE CODES/STANDARDS:
- FLORIDA BUILDING CODE 6TH EDITION (2017) - BUILDING, ACCESSIBILITY MECHANICAL, PLUMBING, FUEL GAS AND ENERGY CONSERVATION
  - FLORIDA FIRE PREVENTION CODE - 2017.
  - FEDERAL FIRE CODE: NFPA 101, LIFE SAFETY CODE, 2012 AND 2015 EDITION.
  - NFPA 30 - 2015, FLAMMABLE AND COMBUSTIBLE LIQUID CODE.
  - NFPA 70 - 2014, NATIONAL ELECTRICAL CODE.
  - NFPA 110 - 2013, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.
  - FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANES ZONES
  - NFPA LATEST EDITION

ASPIRE HEALTH PARTNERS  
434 WEST KENNEDY BOULEVARD,  
ORLANDO, FL 32810



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WWW.DCL-ENG.COM

DATE: FEBRUARY 22, 2019

DRAWING No.

G0.1

T:\1000 Projects\235 DCL Engineering\1135-002 Aspire Health Partners\S001.dwg, 2/2/2019 1:21:21 PM, John

# GENERAL STRUCTURAL NOTES

## GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
- DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
- ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
  - THE FLORIDA BUILDING CODE, 6th Ed., 2017.
  - ACI STANDARD 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - ASCE/SEI 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
- IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
- ALL DIMENSIONS MUST BE COORDINATED WITH EQUIPMENT MANUFACTURER. REFER TO MANUFACTURERS CUT SHEETS FOR EXACT EQUIPMENT NOT SHOWN IN STRUCTURAL DRAWINGS.

## FOUNDATION NOTES:

- FOUNDATIONS FOR THIS PROJECT HAVE BEEN DESIGNED ASSUMING THE SOIL IS SUITABLE TO SUPPORT 1,500 PSF BEARING PRESSURE WITH SETTLEMENT NOT TO EXCEED 1/2". CONTRACTOR SHALL CONTACT A GEOTECHNICAL ENGINEER TO DO AN IN-SITU TEST OF COMPACTED SOIL TO VERIFY DESIGN BEARING PRESSURE ASSUMPTIONS. THESE REQUIREMENTS MAYBE MODIFIED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER.
- FILL AND SUBGRADE PREPARATION SHALL BE AS NEEDED TO OBTAIN THE SAFE BEARING PRESSURE INDICATED ON NOTE 1. ALL ORGANICS AND UNSUITABLE SOIL SHOULD BE REMOVED AND A MINIMUM OF 98% MUST BE OBTAIN UNLESS GEOTECHNICAL ENGINEER RECOMMENDATIONS ALLOW A LOWER PERCENT OF COMPACTION.
- BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE.
- SOFT DIG (BY HAND) ALL FOOTINGS TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AS MARKED BY LOCATING SERVICE.

## SHOP DRAWINGS:

- NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
- DETAILER SHALL CHECK ALL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR OTHER WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT. DISTRIBUTION AS PER PROJECT INSTRUCTIONS.
- CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
- SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOULD BE SUBMITTED TO MCE WITH A MINIMUM TIME TO BE REVIEWED OF 10 WORKING DAYS.
- THERE SHALL BE NO DEVIATION FROM THESE CONSTRUCTION DOCUMENTS. IF ANY CHANGES ARE PROPOSED BY THE CONTRACTOR OR THE PROVIDER OF THE SHOP DRAWINGS, THEY SHOULD BE CLEARLY INDICATED, SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY FLORIDA PROFESSIONAL ENGINEER MUST BE PROVIDED.

## CONCRETE AND REINFORCING:

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS INDICATED BELOW:

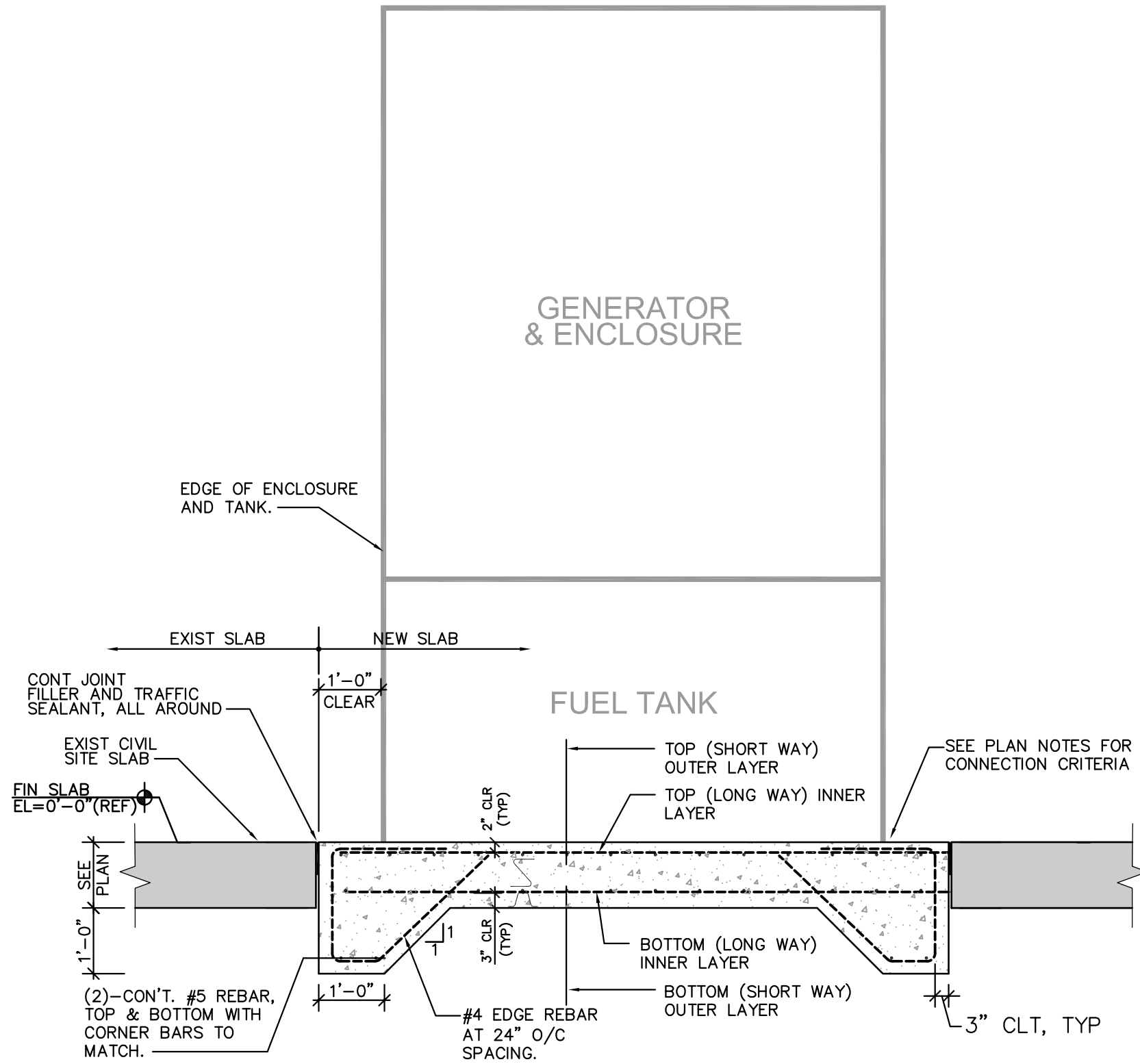
CONCRETE STRENGTH	MAX WATER CEMENT RATIO	TYPE AGGREGATE	LOCATION USED
4000 PSI	0.45	STONE	ALL
- ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE TO AVOID DISPLACEMENT PRIOR TO AND DURING CONCRETE PLACEMENT.
- ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
- CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC, REQUIRED FOR VARIOUS TRADES.
- CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
- SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HRWR ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEERS AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
- WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
- AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:
  - FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
  - FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.
- FLY ASH - ASTM C618-12A, TYPE C OR TYPE F SHOULD BE USED BUT NOT TO EXCEED 20% CEMENTITIOUS CONTENT.
- ALL EXPOSED CONCRETE SLABS SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM. WATER/BLANKET CURING AS PER ACI RECOMMENDATION MAY BE USED AS ALTERNATE.

## WIND DESIGN DATA:

CODE: FLORIDA BUILDING CODE 6th ED. 2017  
ASCE/SEI 7-10  
EXPOSURE CATEGORY: C  
RISK CATEGORY: IV  
BASIC WIND SPEED: 143-MPH (ULTIMATE)  
110-MPH (SERVICE)  
GUST-EFFECT FACTOR 0.85  
FORCE COEFFICIENT 1.45  
DESIGN WIND PRESSURE: 50.0-PSF (ULTIMATE)  
30.0-PSF (SERVICE)

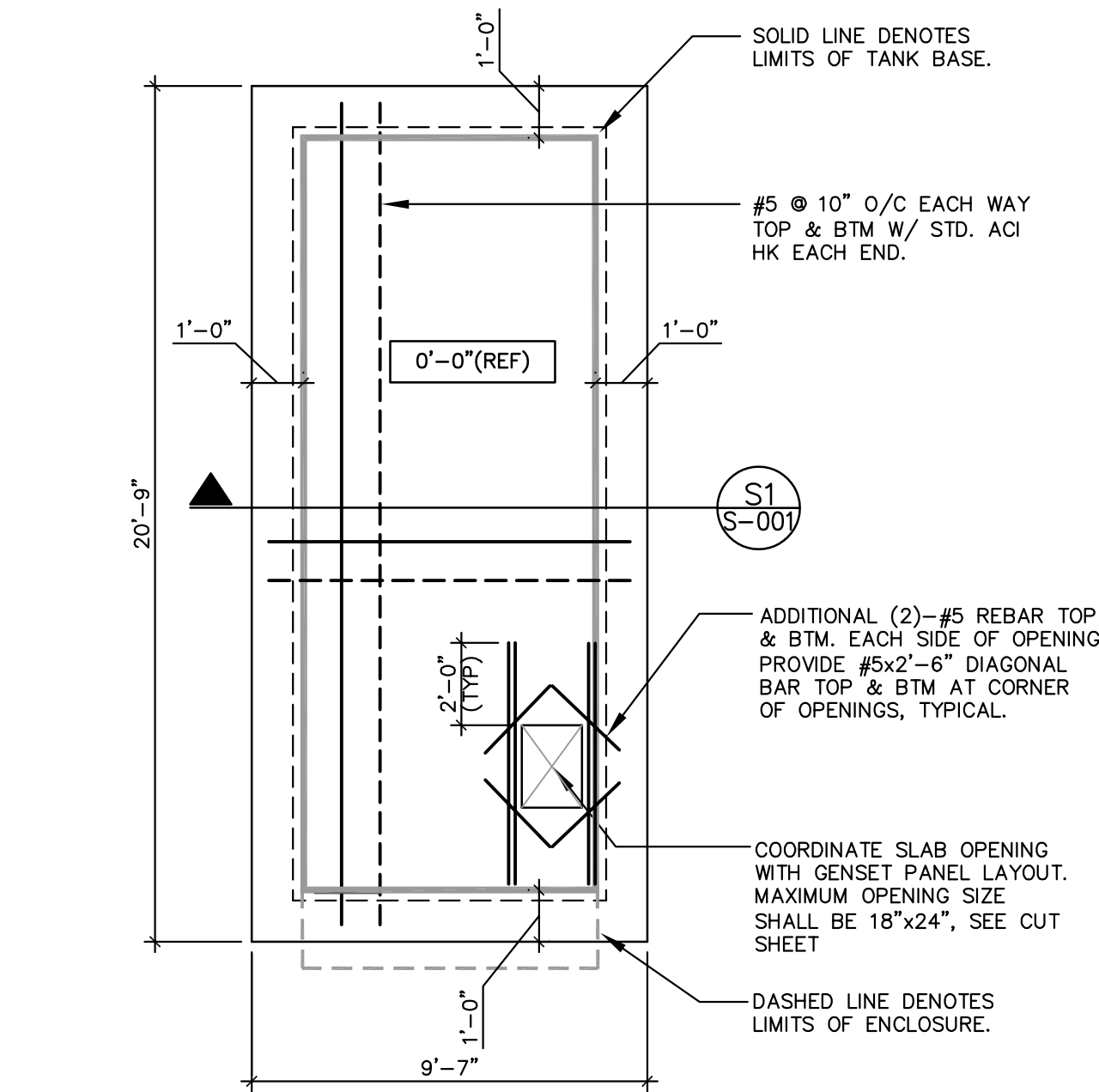
## GENERATOR INFORMATION USED FOR BASIS OF DESIGN:

TYPE:	RINGPOWER C9 (300kw)
GENSET (DRY)	4,806-LBS
TANK / BASE FRAME	7,500-LBS
ENCLOSURE	3,800-LBS
FUEL 2,900 GAL	20,300-LBS
TOTAL WEIGHT	36,406-LBS



## SLAB SECTION - S1

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

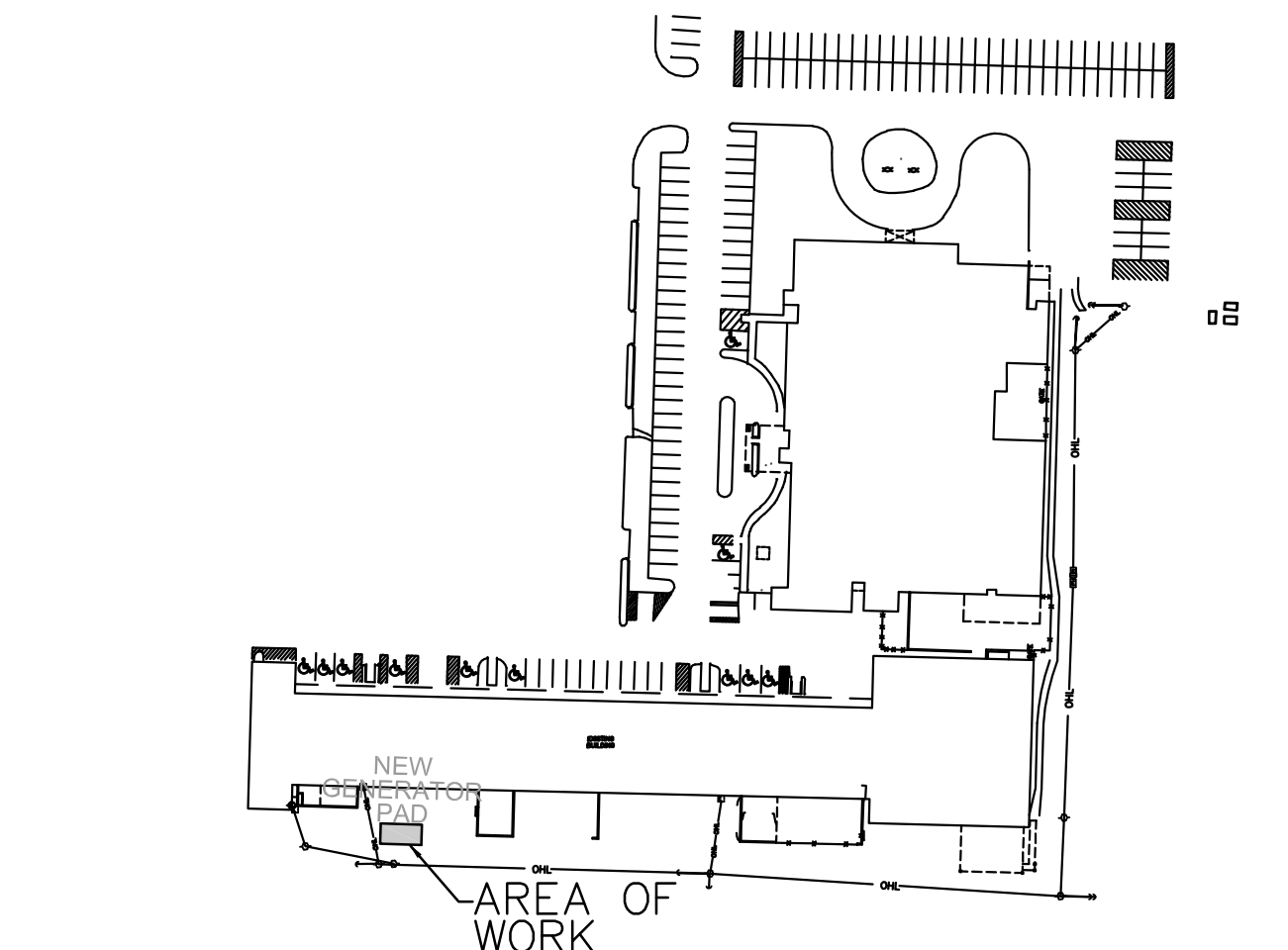


## EMERGENCY GENERATOR SLAB PLAN

SCALE: 1/4"=1'-0"

## SLAB PLAN NOTES:

- GENERATOR SUPPORT SLAB ON GRADE TO BE 12"-THICK CONCRETE OVER COMPACTED SUB-BASE. REINFORCE SLAB AS SHOWN ON DRAWINGS. SUPPORT REINFORCING 3" & 10" SLAB BOLSTERS OR APPROVED EQUAL @ 3'-0"(±) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
- TOP OF SLAB ELEVATION SHOWN THUS [ ] ON PLAN. TOP OF NEW FINISH SLAB TO MATCH ADJACENT SLAB ELEVATION.
- FOR GENERAL STRUCTURAL NOTES, SEE THIS DRAWING.
- FOR FLOOR SLAB OPENING LOCATIONS AND LIMITS NOT SHOWN ON PLAN SEE GENERATOR MANUFACTURES CUT SHEETS.
- CONNECTION HARDWARE: USE 3/4"Ø STAINLESS STEEL HILTI KWIK BOLT TZ EXPANSION ANCHORS POST INSTALLED AT LOCATIONS PROVIDED ON TANK BASE. MINIMUM EMBEDMENT SHALL BE 6" INTO CONCRETE SUBSTRATE.



## EXISTING SITE PLAN & NEW GENERATOR LAYOUT

SCALE: N.T.S

MASTER CONSULTING ENGINEERS, INC.  
STRUCTURAL CONSULTANTS

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TAMPA, FLORIDA 33607  
813.287.3600 FAX 813.287.3622  
www.mceengineers.com

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TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, (SIXTH EDITION) 2017, ACI 318-14, AND LOCAL CODES AS APPLICABLE.

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ASPIRE  
HEALTH  
PARTNERS

KASSAB  
PLAZA  
GENERATOR  
ADDITION

434 WEST KENNEDY BLVD  
ORLANDO, FL

ENGINEER-OF-RECORD  
Robert Bell, P.E. LICENCE NO. 74081

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NO.	PURPOSE	DATE
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## DRAWING INFORMATION

DATE 02/22/2019

DRAWN BY: JW

CHECKED BY: RB

PROJECT NUMBER: 17-052

## TITLE

FOUNDATION  
PLAN AND  
SECTIONS

SHEET

S-001

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	i	3	5	7	9	11	13	15	17	19	21	23	25	27	29
A-															
B-															
C-															
D-															
E-															
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DATE	01/22/2016
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PROJECT NUMBER:	17-05
TITLE	

## LEGEND, ABBREVIATION AND SPECIFICATION

**SHEET**

## E0.1





KASSAB  
PLAZA  
GENERATOR  
ADDITION

434 WEST KENNEDY BLVD  
ORLANDO, FL

ENGINEER-OF-RECORD  
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[illegible]

DATE	01/22/2019
DRAWN BY:	DC
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PROJECT NUMBER:	17-052

# OVERALL SITE PLAN

## E1.1

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**1 OVERALL SITE PLAN**  
SCALE: 1/32" = 1' 0"





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DRAWING INFORMATION

DATE 01/22/2019

DRAWN BY: JTT

CHECKED BY: JTT

PROJECT NUMBER: 17-052

TITLE

POWER  
RISER  
DIAGRAMS

SHEET

E4.1

KEYED NOTES

- 1 EXISTING LOAD INFORMATION FOR EACH OF THE UTILITY SERVICES (METER NO. 001084370 AND METER NO. 002821172) HAS BEEN OBTAINED FROM THE ELECTRIC UTILITY BILLS THAT PROVIDE THE PEAK DEMAND DATA OVER THE PAST 12 MONTH PERIOD TO DETERMINE THE GENERATOR CAPACITY REQUIRED FOR THE OPTIONAL STANDBY POWER SYSTEM. THEREFORE, THE LOAD CALCULATIONS ARE PERFORMED PER NEC ARTICLE 220.87 AS FOLLOWS:

GENERATOR LOAD CALCULATION	
METER NO. 001084370	6 KW
MAXIMUM DEMAND OVER ONE-YEAR PERIOD RECORDED ON APRIL 2017 UTILITY BILL:	
METER NO. 002821172	82 KW
MAXIMUM DEMAND OVER ONE-YEAR PERIOD RECORDED ON SEPTEMBER 2017 UTILITY BILL:	
SUB-TOTAL OF BOTH METERS:	110 KW
MAXIMUM DEMAND AT 125%:	110 KW
NEW LOAD ADDED:	5 KW
TOTAL NEW LOAD:	115 KW
DESIGN GENERATOR CAPACITY:	150 KW

- 2 TAP THE TWO SETS OF CONDUCTORS SERVED FROM THE GENERATOR USING A 6-PORT PRE-INSULATED CONNECTOR FOR EITHER SIDE OF ENTRY, POLARIS IPLD SERIES OR APPROVED EQUAL. THE SINGLE PHASE SERVICE TO TRANSFORMER, TX-STBY1, SHALL BE TAPPED TO THE A AND C PHASES.
- 3 THE GENERATOR REMOTE ANNUNCIATOR PANEL SHALL BE LOCATED WITHIN THE BUILDING AS INDICATED ON SHEET E2.1. COORDINATE ACTUAL LOCATION WITH OWNER IN THE FIELD.
- 4 PROVIDE STRUCTURAL CONCRETE PAD FOR GENERATOR SET ENCLOSURE. REFER TO STRUCTURAL DRAWINGS.
- 5 PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PAD FOR TRANSFORMER.
- 6 PROVIDE #2 GROUNDING ELECTRODE CONDUCTOR CONNECTED TO THE EXISTING GROUNDING ELECTRODE SYSTEM.
- 7 ROUTE FEEDER IN GALVANIZED RIGID CONDUIT FROM THE GENERATOR TAP BOX TO THE NEW ATS-STBY2 ON THE BUILDING EXTERIOR WITHIN 2 FEET OF THE TOP OF THE BUILDING.

LINE TYPE LEGEND

- LIGHT LINE TYPE INDICATES  
EXISTING TO REMAIN
- HATCHED, SOLID LINE TYPE INDICATES  
EXISTING TO BE DEMOLISHED

1 POWER RISER DIAGRAM - DEMOLITION

SCALE: NONE

LINE TYPE LEGEND

- LIGHT LINE TYPE INDICATES  
EXISTING TO REMAIN
- SOLID LINE TYPE INDICATES  
NEW SCOPE OF WORK

2 POWER RISER DIAGRAM - GENERATOR ADDITION

SCALE: NONE