2"
1"
1/2"
0

TILT-UP PANELS

TU1 PANEL THICKNESS = 7 1/4" THK U.O.N. (6 1/2" STRUCTURAL + 3/4" REVEAL)
PANEL THICKNESS =9 1/2" THK U.O.N. (8 1/2" STRUCTURAL + 3/4" REVEAL)
PANEL THICKNESS = 11 1/4" THK U.O.N. (10 1/2" STRUCTURAL + 3/4" REVEAL)

TU2 SPECIAL ATTENTION MUST BE GIVEN THE LOCATION AND PLACEMENT OF THE REINFORCING FOR MINIMUM COVER.

TU3 REFER TO THE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS CHAMFERS AND REVEALS.

TU4 PANELS SHALL NOT BE LIFITED UNTIL THE CONCRETE HAS ATTAINED AT LEAST 75% OF THE 28 DAY REQUIRED COMPRESSIVE STRENGTH.

TU5 THE CONTRACTOR SHALL PROVIDE DESIGN FOR THE LIFTING INSERTS AND ANY ADDITIONAL REINFORCING STEEL REQUIRED FOR THE LIFTING OPERATION. HOWEVER, NO ADDITIONAL REINFORCING SHALL BE ADDED WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. THE DESIGNERS OF THE LIFTING INSERTS MUST CONSIDER THE REINFORCING SHOWN IN THESE DRAWINGS. PROVIDE SIGNED & SEALED LIFTING ENGINEERING FOR APPROVAL

TU6 THE CONTRACTOR SHALL CHECK ALL PANEL DIMENSIONS, PLATE LOCATIONS AND DETERMINE THE LOCATIONS OF ALL OPENINGS REQUIRED. NO PANEL WORK SHALL BE PERFORMED WITHOUT CONTRACTORS APPROVAL OF ALL OF THE ABOVE. THE CONTRACTOR MUST INDICATE THAT HE/SHE HAS REVIEWED THE ABOVE AND APPROVES THE PANEL DRAWINGS FOR ACCURACY BY THE COMMENCEMENT OF PANEL CONSTRUCTION EVEN IF FORMAL STAMPED APPROVAL HAS NOT BEEN INDICATED ON THOSE DRAWINGS.

TU7 MISCELLANOUS OPENINGS THAT MAY BE REQUIRED FOR FIRE LINES, PLUMBING, SANITARY LINES, ELECTRICAL CONDUITS, ETC. CORE DRILLING AFTER ERECTION OF THE PANELS MUST HAVE THE APPROVAL OF THE ARCHITECT AND ENGINEER PRIOR TO PERFORMANCE OF THE WORK.

TU8 CHAIRS, BOLSTERS OR OTHER MEANS OF SUPPORTING REBARS ARE PROVIDED BY STEEL SUPPLIER FOR ADEQUATE SUPPORT.

TU9 G.C. SHALL PROVIDE TO THIS DELEGATED ENGINEER THE TILT-UP PANEL RE-BAR SHOP DRAWINGS FOR REVIEW AND APPROVAL TO ENSURE DESIGN CONFORMANCE PRIOR TO FABRICATION OF RE-BAR.

CONCRETE AND REINFORCING

ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH AS FOLLOWS: TILT-UP WALL PANELS = 4,000 PSI
REBARS SHALL CONFORM TO ASTM-615 GRADE 60.
SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE: 48 X BAR DIA.

STRUCTURAL STEEL

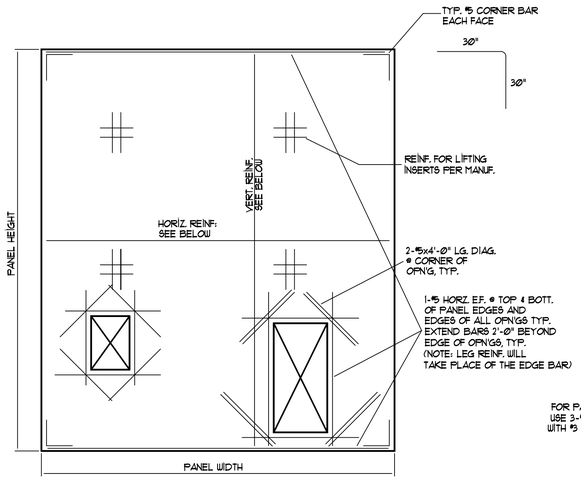
ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E70XX-LOW HYDROGEN FOR SHIELD AND METAL ARC WELDING.

DESIGN CRITERIA

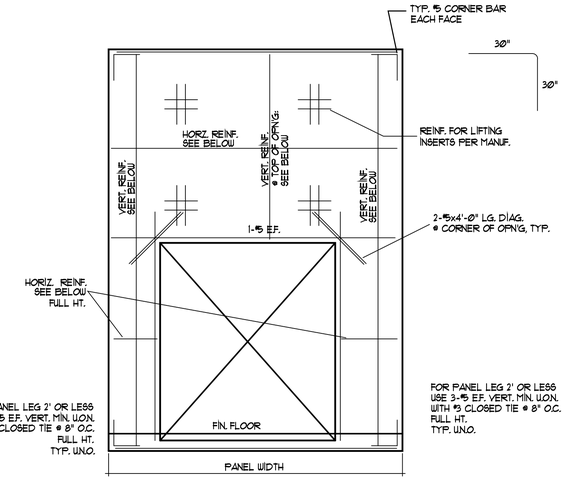
DESIGN BASED THE PROVISIONS OF THE FLORIDA BUILDING CODE 2020 7TH EDITION.

A. DESIGN LOADS:
ROOF LL= 30 PSF
SDL= 25 PSF
2ND LL= 40 PSF CLASSROOMS
LL= 80 PSF CORRIDORS
LL= 100 PSF STAIRS
SDL= 25 PSF

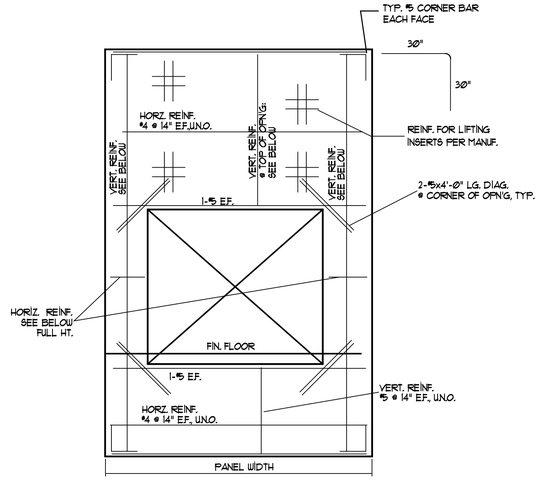
B. WIND LOADS: ASCE 7-16
BASIC WIND SPEED V= 149 MPH
EXPOSURE CATEGORY = C



A TYP. PANEL REINFORCING
WITH DOOR OR WINDOW OPENING (INCLUDING K.O.) NO SCALE



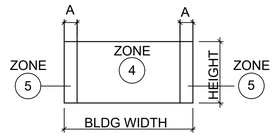
B TYP. PANEL REINFORCING
STOREFRONT OR O.H. DOOR NO SCALE



C TYP. PANEL REINFORCING
DOCK HEIGHT PANEL W/ O.H. DOOR NO SCALE

DESIGN WIND PRESSURE ON EXT. WALLS EXT. DOORS, AND WINDOWS (ASD)		
EFFECTIVE AREA (FT2)	PRESSURE (PSF)	
	Z-4	Z-5
10	+30.53 / -33.07	+30.53 / -40.11
20	+29.18 / -31.72	+29.18 / -38.00
50	+27.39 / -29.93	+27.39 / -34.43
100	+26.04 / -28.58	+26.04 / -31.72

NOTES:
1. WIND DESIGN PER FBC 2020 AND PER ASCE 7-16
2. +: INDICATES WIND PRESSURE -: INDICATES WIND SUCTION
3. WALL DISTANCE a=7.8' (COMPONENTS AND CLADDING)
4. FOR WALL OPENINGS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER WALL OPENING AREA.
5. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FBC-2020 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS



WALL ELEVATION
A=7.8'

DESIGN WIND PRESSURE ON EXT. WALLS EXT. DOORS, AND WINDOWS (ULT)		
EFFECTIVE AREA (FT2)	PRESSURE (PSF)	
	Z-4	Z-5
10	+50.88 / -55.12	+50.88 / -67.84
20	+48.63 / -52.87	+48.63 / -63.34
50	+45.65 / -49.89	+45.65 / -57.38
100	+43.40 / -47.64	+43.40 / -52.87

NOTES:
1. WIND DESIGN PER FBC 2020 AND PER ASCE 7-16
2. +: INDICATES WIND PRESSURE -: INDICATES WIND SUCTION
3. WALL DISTANCE a=7.8' (COMPONENTS AND CLADDING)
4. FOR WALL OPENINGS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER WALL OPENING AREA.
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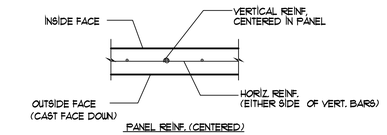
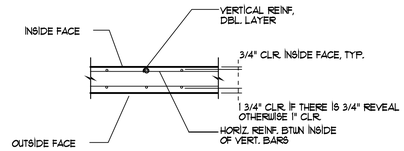
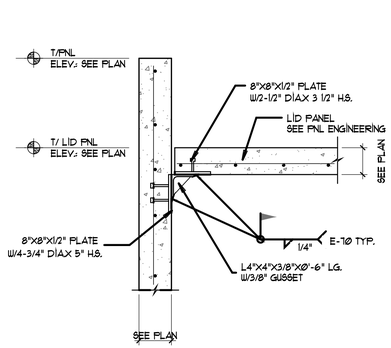
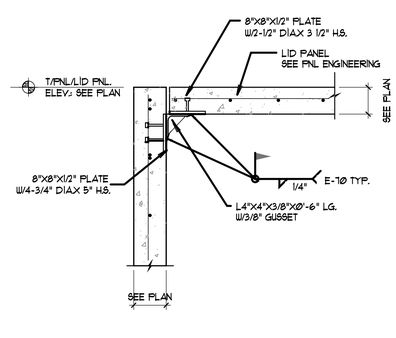


PANEL REINF. (CENTERED)

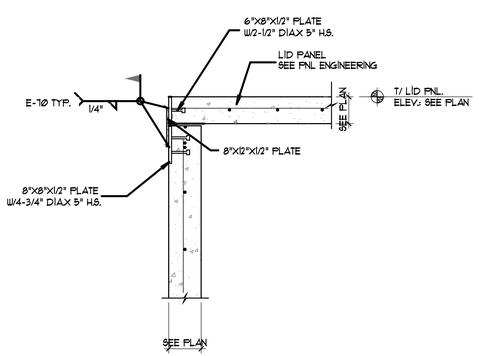




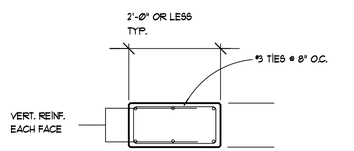
LID PANEL CONN. CONDITION 1
SCALE: 3/4"=1'-0" 1



LID PANEL CONN. CONDITION 2
SCALE: 3/4"=1'-0" 2



LID PANEL CONN. CONDITION 3
SCALE: 3/4"=1'-0" 3



E PANEL LEG REINFORCING

Albert Kwan
Digitally signed by Albert Kwan
Date: 2021.08.25 14:47:30 -05'00'

PERMIT ENGINEERING SERVICES, INC.
3132 FORTUNE WAY, D-31
WELLINGTON, FLORIDA 33414
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CERT. # EB-0006189
Albert Kwan, # 55185

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Doral, FL 33126
tel: 305.593.9959
AA #26001093
www.civicagroup.com
info@civicagroup.com

PROJECT:
MATER DAVENPORT CHARTER SCHOOL (PHASE-1)

Ronald Reagan Pkwy.
Davenport, FL 33896
PARCEL ID:
27-26-12-0000000-14220
27-26-12-0000000-12010

APPLICANT:
SCHOOL DEVELOPMENT HC, LLC
6457 Sunset Dr.
Miami, FL 33143

ISSUED FOR:
PERMIT SUBMITTAL

CIVICA PROJECT No :
210122

CONSULTANTS:

KPMFranklin
ENGINEERS • PLANNERS • SURVEYORS
6300 HAZELTINE NATIONAL DR, STE. 118 ORLANDO, FL 32822

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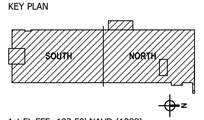
MEP MECHANICAL ELECTRICAL PLUMBING
MEP ENGINEERING INC.
ANTONIO NARANJO PE35664
[#EBOOO61151] TEL:(305) 471-0160
10590 N.W. 27 ST. SUITE 101 MIAMI FL. 33172

No.	DATE	ISSUED FOR	BY

DRAWN BY AG
APPROVED BY AK
DATE 07/21/2021
SCALE: AS SHOWN

KEY PLAN



1st FL FFE: 102.50' NAVD (1988)

SEAL/SIGNATURE

ROLANDO LLANES
AR - 0013160

SHEET TITLE
REINFORCING NOTES & DETAILS

SHEET NUMBER
S-7.1