

DESIGN WIND PRESSURES FOR COMPONENTS & CLADDING (PSF)

TYPE	WIND ZONE	LOAD CASE	EFFECTIVE WIND AREA (SQ FT)					
			10	20	50	100	200	500
ROOFS	1	UPLIFT	-50.0	-47.2	-43.5	-40.7	-37.9	-34.2
	2	UPLIFT	-78.6	-74.6	-69.4	-65.5	-61.6	-56.4
	3	UPLIFT	-107.1	-102.0	-95.3	-90.3	-85.2	-78.6
WALLS	4 5	INWARD	+34.2	+34.2	+31.5	+29.5	+27.4	+24.7
	4	OUTWARD	-34.2	-34.2	-32.4	-31.0	-29.7	-27.9
	5	OUTWARD	-62.7	-62.7	-55.5	-50.0	-44.6	-37.4

- NOTES:**
- DESIGN WIND PRESSURES INDICATED SHALL BE USED IN THE DESIGN OF ALL COMPONENTS AND CLADDING ELEMENTS COMPRISING OF THE BUILDING ENVELOPE.
 - POSITIVE PRESSURES ACT INWARD, TOWARD THE WIND SURFACE. NEGATIVE PRESSURES ACT OUTWARD, AWAY FROM THE WIND SURFACE.
 - PRESSURES GIVEN ARE UNFACTORED AND INCLUDE NO GRAVITY LOADS.
 - LINEAR INTERPOLATION IS PERMITTED FOR INTERMEDIATE EFFECTIVE WIND AREAS.
 - EXTERIOR WALLS ADJACENT TO ROOF ZONE 3 ARE IN WALL ZONE 5. ALL OTHER EXTERIOR WALL AREAS ARE IN WALL ZONE 4.

GENERAL STRUCTURAL NOTES

GENERAL REQUIREMENTS:

IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION, AND TO PROVIDE TEMPORARY BRACING, GUYS, OR TIE-DOWNS AS NECESSARY FOR COMPLETION OF THE WORK.

FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

VERIFY ALL CONDITIONS AND DIMENSIONS PERTAINING TO EXISTING CONSTRUCTION AT THE SITE BEFORE PROCEEDING WITH THE WORK.

ALL LOADS AND REACTIONS ON DRAWINGS AND IN THESE GENERAL STRUCTURAL NOTES ARE UNFACTORED SERVICE LOADS UNLESS OTHERWISE NOTED. LOAD CASES WHICH INCLUDE COMBINED LOADS SHALL BE CALCULATED IN ACCORDANCE WITH ASCE 7-05 SECTION 2.4.

DESIGN LOAD CRITERIA:

REFERENCE STANDARDS:
 FLORIDA BUILDING CODE, 2004 EDITION.
 ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2005.
 BUILDING CATEGORY (FBC 2004, TABLE 1604.5) II

LIVE LOADS:
 PARKING AREAS: 50 PSF
 STAIRS, CORRIDORS AND LOBBIES: 100 PSF
 MECHANICAL ROOMS: 100 PSF
 CONCRETE SLAB ON GRADE: 150 PSF

WIND LOADS:
 BASIC WIND SPEED: V = 119 MPH
 THE STRUCTURE IS NOT LOCATED WITHIN THE COASTAL WIND-BORNE DEBRIS REGION.
 EXPOSURE CATEGORY: B BUILDING CATEGORY: II IMPORTANCE FACTOR: $I_w = 1.00$
 DIRECTIONALITY FACTOR $K_d = 1.00$
 TOPOGRAPHICAL FACTOR $K_{zt} = 1.00$
 ENCLOSURE CLASSIFICATION: ENCLOSED, $C_{pe} = -1.0$
 BUILDING MEAN ROOF HEIGHT h = 65.00 FEET
 VELOCITY PRESSURE: $q_p = 27.1$ PSF
 DESIGN PRESSURE: PER ASCE 7, FIGURE 6-8

ALUMINUM COMPOSITE WALL PANELS:

PROJECT REQUIREMENTS:
 DESIGN, FABRICATE AND INSTALL ALUMINUM COMPOSITE WALL PANELS AND CONNECTIONS TO EXISTING STRUCTURE FOR GRAVITY AND WIND LOADS AS INDICATED UNDER "DESIGN LOAD CRITERIA" ABOVE.

STRUCTURAL STEEL MATERIALS AND CONNECTIONS SHALL COMPLY WITH CRITERIA INDICATED UNDER "STRUCTURAL STEEL" BELOW.

COLD-FORMED LIGHT-GAUGE STEEL FRAMING MATERIALS AND CONNECTIONS SHALL COMPLY WITH CRITERIA INDICATED UNDER "COLD-FORMED STEEL FRAMING" BELOW.

SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL PRIOR TO FABRICATION AND ERECTION. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

STRUCTURAL STEEL:

REFERENCE STANDARDS: EXCEPT AS INDICATED, ALL DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE GOVERNED BY:
 AISC MANUAL OF STEEL CONSTRUCTION, 13th EDITION, 2005.
 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, 2000.
 AISC CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATORS, 2002.
 AWS D1.1, STRUCTURAL WELDING CODE - STEEL, 2006.

MATERIALS:
 MISCELLANEOUS SHAPES AND PLATES: ASTM A 36, $F_y = 36$ KSI
 HSS SQUARE AND RECTANGULAR SHAPES: ASTM A 500 GRADE B, $F_y = 46$ KSI
 WELDING ELECTRODES: AWS A5.1 OR A5.5 SERIES E70
 HIGH STRENGTH BOLTS: ASTM A 325
 ANCHOR BOLTS: ASTM F 1554 GRADE 36
 WELDED STUDS: ASTM A 108
 DEFORMED BAR ANCHORS: ASTM A 496
 DRILLED EPOXY ANCHORS: HILTI
 PAINT AND PROTECTION: SSPC PAINT 25

PROJECT REQUIREMENTS:
 WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED BY THE AWS STANDARD QUALIFICATION PROCEDURE TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.

PRIME COAT: TOUCH UP FASTENERS, WELDS AND ABRASED AREAS AFTER ERECTION.

MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE, INCLUDING LINTELS AND MECHANICAL EQUIPMENT SUPPORT FRAMES: GALVANIZED AFTER FABRICATION.

COLD-FORMED STEEL FRAMING:

REFERENCE STANDARDS: EXCEPT AS INDICATED, ALL MANUFACTURE, FABRICATION AND ASSEMBLY OF LIGHTGAUGE METAL FRAMING SHALL BE GOVERNED BY:
 AISI SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, 1996.
 LIGHT GAUGE STRUCTURAL INSTITUTE, FRAMING SYSTEM DESIGN HANDBOOK, OCTOBER 1998.
 AWS D1.3, STRUCTURAL WELDING CODE - SHEET STEEL, 1998.

MATERIALS:
 ALL TRUSS MEMBERS AND FRAMING: ASTM A 653
 DESIGN THICKNESS 16 GAUGE (0.0568") AND HEAVIER: $F_y = 50$ KSI
 DESIGN THICKNESS 18 GAUGE (0.0451") AND LIGHTER: $F_y = 33$ KSI
 GALVANIZED FINISH: ASTM A 625, TYPE G60
 WELDING ELECTRODES: AWS A5.1, A5.5, OR A5.18, SERIES E60

PROJECT REQUIREMENTS:
 ALL COLD-FORMED STEEL FRAMING MEMBERS SHALL RECEIVE A GALVANIZED FINISH. TOUCH-UP ALL WELDS AND ABRASED AREAS WITH TWO COATS OF ZINC-RICH GALVANIZING PAINT.

WELDING SHALL BE PERFORMED ONLY BY QUALIFIED OPERATORS USING PROPER EQUIPMENT FOR THE PARTICULAR TYPE OF WORK REQUIRED.

CUT ALL FRAMING COMPONENTS TO FIT SQUARELY AGAINST ABUTTING MEMBERS AND HOLD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.

GENERAL NOTES:

- THE DRAWINGS INCLUDE GRAPHIC REPRESENTATIONS OF CONDITIONS BASED ON INFORMATION TAKEN FROM REDUCED RECORD DRAWINGS PROVIDED BY THE OWNER. DIMENSIONS, ELEVATIONS, SIZES, DETAILS, AND EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR. ALL DIMENSIONS SHOWN ON DRAWINGS ARE PLUS OR MINUS.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH CONDITIONS THAT WILL AFFECT HIS WORK.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS IN EXISTING MATERIALS AND/OR STRUCTURE WHICH WILL ADVERSELY AFFECT THE EXECUTION AND/OR QUALITY OF THE COMPLETED WORK.
- REPAIR/REPLACE/RESTORE ALL DAMAGE RESULTING FROM THE WORK TO MATCH PRIOR EXISTING OR NEW CONSTRUCTION RESPECTIVELY.
- COORDINATE WITH THE OWNER REGARDING ACCESS, SECURITY, STORAGE AND EQUIPMENT STORAGE, AND USE OF PARKING GARAGE FACILITIES.
- PROTECT PEDESTRIANS, OCCUPANTS AND VEHICLES FROM THE HAZARDS OF CONSTRUCTION. MAINTAIN PEDESTRIAN, VEHICLE AND REQUIRED FIRE EXIT ACCESS DURING CONSTRUCTION.

DEMOLITION NOTES:

- REMOVE THE FOLLOWING OBSTRUCTIONS TO ALLOW REMOVAL OF EXISTING MARBLE VENEER AND REINSTALL AFTER INSTALLING NEW EXTERIOR WALL PANELS.
 - LIGHTNING PROTECTION - REINSTALL PER NFPA 780 AND PROVIDE UL MASTER LABEL CERTIFICATION. PROVIDE NEW COMPONENTS AS REQUIRED FOR SIDEWALL MOUNTED AIR TERMINALS AND CONDUCTOR CABLES.
 - FABRIC AWNINGS AND FRAMING - MOUNTED ON CONCRETE CANOPY.
 - ROLL-UP SECURITY GRILLE - GROUND LEVEL, EAST ELEVATION.
 - ALUMINUM STOREFRONT - BENEATH SPIRAL PARKING RAMP, EAST ELEVATION.
 EXISTING GRANITE VENEER AT GROUND FLOOR LEVEL SHALL REMAIN IN PLACE.
- REMOVE ALL EXISTING MARBLE VENEER INCLUDING MOUNTING CHANNELS, TEES, CLIPS, FASTENERS, CLOSURES, FLASHING, ETC. (U-SHAPED STEEL STRUTS ANCHORED DIRECTLY TO BUILDING STRUCTURE SHALL REMAIN IN PLACE).
- REMOVE SEALANT MATERIALS FROM DESIGNATED STRUCTURAL EXPANSION JOINTS. SEE CONSTRUCTION NOTE A.
- REMOVE ALL DEMOLITION MATERIAL, DEBRIS AND RUBBISH AS TIMELY AS POSSIBLE. DO NOT STORE AND ACCUMULATE ON SITE. COMPLY WITH LOCAL REGULATIONS REGARDING HAULING AND DISPOSAL. MAINTAIN SITE CLEANLINESS.

CONSTRUCTION NOTES:

- STRUCTURAL EXPANSION JOINTS:**
 - CLEAN AND RESEAL THE FOLLOWING EXPANSION JOINTS:
 - THE VERTICAL JOINT BETWEEN ADJACENT CORNER COLUMNS OF THE ORIGINAL STRUCTURE AND SUBSEQUENT ADDITION - SOUTH ELEVATION, COLUMN A/5.
 - THE HORIZONTAL AND VERTICAL JOINTS BETWEEN THE CIRCULAR ROOF AND THE ELEVATOR/STAIR TOWER.
 - THE VERTICAL JOINT IN THE CONCRETE RAILINGS OF THE SPIRAL RAMP - EAST ELEVATION (BEHIND THE MARBLE VENEER).
 - EXPANSION JOINT SEALANT SHALL BE A COLORSEAL COMPRESSION SEAL SYSTEM MANUFACTURED BY **EMSEAL JOINT SYSTEMS, LTD., WESTBOROUGH, MAINE**. MATCH CONCRETE COLOR. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS TO PROVIDE A WATERTIGHT SEAL.
- EXTERIOR WALL PANELS:**
 - PROVIDE ALUMINUM COMPOSITE MATERIAL (ACM) EXTERIOR WALL PANELS IN SIZES AND SHAPES INDICATED TO MATCH EXISTING MARBLE VENEER PROFILE. FURNISH CLIPS, SPACERS, STIFFENERS, FASTENERS, FRAMING MEMBERS AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
 - FABRICATE PANELS OF ALPOLIC MATERIAL MANUFACTURED BY **MITSUBISHI CHEMICAL AMERICA, INC., CHESAPEAKE, VIRGINIA**, 4mm THICK, WITH WHITE MARBLE FLUOROCARBON FINISH, MINIMUM .032 INCH SHEET ALUMINUM WITH MATCHING FINISH FOR FLASHINGS AND PANEL CLOSURES. PROVIDE A SECOND COLOR (TO BE SELECTED) FOR PANELS ADJACENT TO GROUND FLOOR ROLL-UP SECURITY GRILLE ON EAST SIDE OF PARKING GARAGE. SEE ELEVATION B2/A101.
 - DESIGN AND INSTALL PANELS AND ANCHORING SYSTEM TO WITHSTAND REQUIRED DESIGN WIND LOADS. SUBMIT SHOP DRAWINGS SHOWING LAYOUT, ELEVATIONS, FASTENING AND ANCHORING METHODS, JOINT DETAILS, TRIM, FLASHING, ACCESSORIES AND WIND LOAD CALCULATIONS.
 - INSTALL PANELS PLUMB, LEVEL AND TRUE TO PROFILE WITH UNIFORM JOINTS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS USING CONCEALED FASTENERS ALLOWING FOR FREE AND NOISELESS VERTICAL AND HORIZONTAL THERMAL MOVEMENT. SEPARATE DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
 - WET SEAL PANEL JOINTS WITH **DOW 795** WHITE SILICONE SEALANT AND BACKER ROD - SIZE AND TYPE RECOMMENDED BY SEALANT MANUFACTURER. TOOL JOINTS CONCAVE AND WEATHERTIGHT. VERIFY WEEP HOLES ARE UNOBSTRUCTED AND FREE OF DIRT AND SEALANT.
 - REINSTALL ROLL-UP SECURITY GRILLE, STOREFRONT AND AWNINGS REMOVED DURING DEMOLITION.
 - CONTRACTOR SHALL PROVIDE TO THE OWNER, 10 FULL SHEETS OF ALUMINUM COMPOSITE MATERIAL WITH WHITE MARBLE FINISH.

LEGEND (SYMBOLS AND ABBREVIATIONS):

ALT.	ALTERNATE	<p>TOP NUMBER INDICATES SECTION OR ELEVATION IDENTIFICATION SECTION OR ELEVATION REFERENCE BOTTOM NUMBER INDICATES SHEET NUMBER WHICH SECTION OR ELEVATION IS SHOWN</p>
APPROX.	APPROXIMATE	
ETC.	ETCETERA	<p>TOP NUMBER INDICATES DETAIL IDENTIFICATION DETAIL REFERENCE BOTTOM NUMBER INDICATES SHEET NUMBER WHICH DETAIL IS SHOWN</p>
JN.TS.	JOINTS	
MAX.	MAXIMUM	<p>FIRST NUMBER INDICATES DETAIL NUMBER SECOND NUMBER INDICATES SHEET NUMBER WHICH DETAIL IS SHOWN</p>
MIN.	MINIMUM	
M.P.H.	MILES PER HOUR	
N.I.C.	NOT IN CONTRACT	
O.C.	ON CENTER	
PNLS.	PANELS	
P.S.F.	POUNDS PER SQUARE FOOT	
R.D.	ROOF DRAIN (EXISTING)	
SIM.	SIMILAR	
TYP.	TYPICAL	



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BID DOCUMENTS

SHEET TITLE

**GENERAL NOTES,
 CONSTRUCTION NOTES,
 STRUCTURAL NOTES,
 DESIGN CRITERIA,
 AND LEGEND**

SHEET NUMBER

A001