GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUB-CONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

6. THIS PROJECT INCLUDES SEVERAL STRUCTURAL ELEMENTS TO BE DESIGNED BY THE CONTRACTOR'S OR SUPPLIER'S DELEGATED STRUCTURAL ENGINEER. NOTE THAT ANY INFORMATION (SUCH AS SIZE, DIMENSIONS, REINFORCEMENT, INTERNAL AND EXTERNAL CONNECTIONS, ETC.) PROVIDED IN THESE DRAWINGS ARE ONLY FOR GUIDANCE AND CLOSER COST ESTIMATING (UNLESS INDICATED TO BE USED AS MINIMUM REQUIREMENTS). THE DELEGATED ENGINEER(S) SHALL DETERMINE THE FINAL STRUCTURAL REQUIREMENTS, BASED ON HIS/HER CALCULATIONS. INFORM A/E OF ANY CHANGES, SO THEY CAN BE INCORPORATED IN THE A/E'S RECORD PLANS AND DETAILS (AND BE RESUBMITTED FOR BUILDING DEPARTMENT REVIEW, IF SO REQUIRED). THE CONTRACTOR AND HIS SUBS SHALL CONSTRUCT THE ELEMENTS BASED ONLY ON THE FULL DESIGN PLANS AND DETAILS (SHOP DRAWINGS) ISSUED BY THE DELEGATED ENGINEER(S), REVIEWED BY THE A/E OF RECORD AND APPROVED BY THE REGULATING BUILDING DEPARTMENT. ANY PRICING OF THE DELEGATED ENGINEERED ELEMENTS OFF ANY OTHER PLANS, SHALL BE CONSIDERED PRELIMINARY OR FOR GENERAL BUDGET PRICING ONLY.

SHOP DRAWINGS REVIEW:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS, FIELD CONDITIONS, "AS-CONSTRUCTED" DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP.

2. THE SHOP DRAWING REVIEW BY THE A/E OF RECORD IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THE A/E REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

3. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN PREPARED BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

4. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

5. ALL SHOP DRAWINGS SHALL CONTAIN THE MINIMUM INFORMATION, OUTLINED IN THE LOCAL BUILDING CODE.

6. UNLESS OTHERWISE AGREED UPON, ALL SHOP DRAWINGS SHALL BE SUBMITTED THRU THE ARCHITECT. THE ENGINEER WILL RETURN REVIEWED SHOP DRAWINGS TO THE ARCHITECT.

7. ANY COMMENTS, QUESTIONS AND MODIFICATIONS MADE BY THE SHOP DRAWING DETAILER, TO THE A/E'S DESIGN AND/OR DETAILING, SHALL BE CLEARLY MARKED (CLOUDED OR FLAGGED).

8. CONTRACTOR AND HIS DETAILER SHALL MAKE SURE THAT ALL THE FLAGGED ITEMS ON THE SHOP DRAWINGS HAVE BEEN RESPONDED TO BY THE A/E. ITEMS THAT INADVERTENTLY HAVE NOT BEEN RESPONDED TO BY THE A/E SHALL NOT BE CONSIDERED AS A YES OR NO ANSWER. THE CONTRACTOR OR HIS DETAILER SHALL COMMUNICATE DIRECTLY WITH THE A/E TO DISCUSS ALL THE UNANSWERED OR STILL QUESTIONABLE ITEMS.

9. IF THE CONTRACTOR OR HIS DETAILER ARE NOT IN AGREEMENT OR SATISFIED WITH THE A/E RESPOND TO THEIR QUESTIONS ON THE SHOP DRAWINGS, THEY ARE ENCOURAGED TO CALL THE A/E TO DISCUSS THE ISSUES AND CLARIFY THEM FURTHER.
10. NO FABRICATION OR CONSTRUCTION SHALL BEGIN UNTIL ALL THE OUTSTANDING ITEMS ON THE SHOP DRAWINGS HAVE BEEN CLARIFIED AND AGREED UPON.

10. DELEGATED ENGINEERED SHOP DRAWINGS:
IN THE STATE OF FLORIDA, SEE SECTIONS OF "DELEGATED ENGINEERING RESPONSIBILITY" AND DEFINITIONS FOR SPECIFIC STRUCTURAL ELEMENTS/COMPONENTS DESIGNS, IN COMPLIANCE WITH CHAPTER 61G15, OF THE FLORIDA ADMINISTRATIVE CODE.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RIGHTS AND RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT INCLUDE THE DUTY, GUARANTEE, RESPONSIBILITY OR LIABILITY FOR JOB SAFETY PRECAUTIONS AND PROGRAMS (SUCH AS TEMPORARY SHORING AND BRACING) AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF LOCAL BUILDING CODE AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, ABSTRACTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE. PROVIDE ADEQUATE BRACING TO THE ELEMENTS ALREADY IN PLACE (ESPECIALLY MASONRY WALLS) AGAINST WIND FORCES CAPABLE OF DAMAGING THIS WORK.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

8. "OSHA" SAFETY INSPECTIONS ARE NOT A PART OF OUR SERVICES. OUR PRESENCE ON SITE (FOR OBSERVATIONS, INSPECTIONS OF THE WORK IN PROGRESS OR MEETINGS) SHALL NOT CONSTRUED AS OUR ACTING AS "OSHA" INSPECTORS. CONFORMING WITH ALL APPLICABLE "OSHA" SAFETY REGULATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STRUCTURAL INSPECTIONS ("SPECIAL INSPECTOR"):

1. BASED ON THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND/OR THE LOCAL CODE ENFORCEMENT DEPARTMENT, THIS PROJECT REQUIRES INSPECTIONS TO BE MADE DURING THE CONSTRUCTION OF SEVERAL OR ALL STRUCTURAL ELEMENTS (AS LISTED IN THE PERMIT REQUIREMENTS OR ELSEWHERE IN THESE DOCUMENTS).

2. IN ORDER TO COMPLY WITH THE ABOVE REQUIREMENTS THE OWNER SHALL RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER FOR THE PURPOSE OF PERFORMING THE REQUIRED INSPECTION SERVICES.

3. THE ASSIGNED STRUCTURAL INSPECTOR SHALL BE NOTIFIED BY THE CONTRACTOR, AT LEAST 24 HOURS PRIOR TO ANY CONCRETE PLACING OR OTHER OPERATIONS THAT WILL CONCEAL STRUCTURAL ELEMENTS.

4. THE INSPECTIONS MADE BY THE ENGINEER (ENGAGED BY THE OWNER) ARE IN ADDITION TO THE INSPECTIONS (OF THE SAME ELEMENTS) MADE BY THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE BUILDING DEPARTMENT ANY TIME HE SCHEDULES THE ENGINEER FOR A SITE VISIT. CONTRACTOR SHALL TIME SCHEDULE THE SITE VISIT OF THE ENGINEER BEFORE THE BUILDING DEPARTMENT INSPECTOR.

5. A "STATEMENT OF INSPECTION", "INSPECTION LOG" AND ANY OTHER DOCUMENTS REQUIRED BY THE PERMIT, WILL BE ISSUED AT A TIMELY SCHEDULE OR AT THE COMPLETION OF THE STRUCTURAL WORK, FOR THE ELEMENTS THAT HAVE BEEN INSPECTED DURING THE COURSE OF THE CONSTRUCTION (AS REQUESTED BY THE CONTRACTOR OR AS REQUIRED BY THE BUILDING DEPARTMENT OR PERMIT DOCUMENTS).

6. WHEN G.D. KLIEGER, INC. (THE ENGINEER-OF-RECORD) WAS NOT ENGAGED TO PROVIDE REQUIRED JOB-SITE INSPECTION SERVICES, G.D.K. WILL NOT BE HELD RESPONSIBLE AND LIABLE FOR ANY OF THE CONTRACTOR'S WORK. G.D.K. SHALL ALSO NOT BE HELD RESPONSIBLE FOR ANY WORK APPROVED BY THE INSPECTING ENGINEER (OTHER THAN THE ENGINEER-OF-RECORD) WHICH MODIFIES OR CHANGES THE STRUCTURAL PERMIT RECORD DOCUMENTS, WITHOUT PRIOR REVIEW AND ACCEPTANCE (IN WRITING) BY THE ENGINEER-OF-RECORD.

"SPECIAL INSPECTION" REQUIREMENTS:
(MIAMI-DADE AND BROWARD COUNTY ONLY – FBC 2017)

THIS PROJECT REQUIRES THE SERVICES OF A "SPECIAL INSPECTOR" FOR THE ITEMS LISTED BELOW:

ENGINEERED UNIT MASONRY (*)

STEEL CONNECTIONS (BOLTED & WELDED) (*)

SOIL COMPACTION (**)

(*) ITEM INSPECTED BY A FLORIDA REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER.
(**) INSPECTION TO BE PERFORMED BY A GEOTECHNICAL ENGINEER.

SEE THE SPECIFIC COUNTY OR CITY FOR THEIR FORM FOR "SPECIAL INSPECTOR" SERVICES, TO BE PART OF THE PERMIT PLANS.

REQUIRED DELEGATED ENGINEERED CALCULATIONS AND SHOP DRAWINGS:

THIS PROJECT REQUIRE THE FOLLOWING DELEGATED ENGINEERED CALCULATIONS AND SHOP DRAWINGS, BASED ON THE "FLORIDA ADMINISTRATIVE CODE", SECTIONS 61G15-30 AND 61G15-31 (ONLY THE ITEMS MARKED [X] APPLY):
[ ] WOOD TRUSSES, GIRDER TRUSSES AND PREFABRICATED WOOD COMPONENTS (61G15-31.003)
[X] STEEL BAR-JOISTS AND STEEL GIRDER-TRUSSES (61G15-31.006)
[ ] COLD-FORM STUD TRUSSES, JOISTS AND/OR WALLS (61G15-31.009)
[ ] STRUCTURAL STEEL SYSTEM (61G15-31.009)
[ ] PRE-ENGINEERED METAL BUILDINGS (61G15-31.007)
[ ] PRE-ENGINEERED CONCRETE FLOOR/ROOF SYSTEM, INCLUDING CONCRETE GIRDERS, PRECAST ELEMENTS, COMPOSITE ELEMENTS, ETC. (61G15-31.005, 31.007 & 31.009)

DELEGATED ENGINEERED SERVICES, REQUIRED FOR THIS PROJECT:

(BASED ON CHAPTER 61G15 OF THE "FLORIDA ADMINISTRATIVE CODE")

NOTE THAT THE LANGUAGE USED BELOW IS NOT ALWAYS A DIRECT COPY FROM THE ADMINISTRATIVE CODE. THE DELEGATED ENGINEER SHALL BE FAMILIAR WITH THE CODE AS PUBLISHED IN THE STATE OF FLORIDA.

"EOR" – DENOTES "ENGINEER-OF-RECORD"
"DE" – DENOTES "DELEGATED ENGINEER"

61G15-30.005: REQUEST FOR & REVIEW OF DELEGATED ENGINEERING DOCUMENTS:

1. PORTIONS OF THIS STRUCTURAL DESIGN AND DETAILING ARE BEING DELEGATED TO A "DE". THE ENGINEERING DESIGN REQUIREMENTS HAVE BEEN INCLUDED IN THESE DOCUMENTS (PLANS, DETAILS, SECTIONS AND NOTES).

2. ALL DELEGATED ENGINEERING DOCUMENTS, PREPARED BY THE "DE" SHALL BE SUBMITTED TO THE "EOR" TO BE REVIEWED FOR COMPLIANCE WITH THE PROJECT DESIGN REQUIREMENTS AND TO CONFORM WITH THE FOLLOWING:

2.1 THAT THE DELEGATED ENGINEERING DOCUMENTS HAVE BEEN PREPARED BY A "PROFESSIONAL ENGINEER" (LICENSED IN THE STATE OF FLORIDA). (***)

2.2 THAT THE DELEGATED ENGINEERING DOCUMENTS PREPARED BY THE "DE" CONFIRM WITH THE DESIGN INTENT OF THE "EOR" AND MEET THE WRITTEN REQUIREMENTS.

2.3 THAT THE EFFECT OF THE "DE" WORK ON THE OVERALL PROJECT, GENERALLY CONFORMS WITH THE INTENT OF THE "EOR".

(***) THE "EOR" ASSUMES THAT THE "DE" PROFESSIONAL LICENSE IS ACTIVE. IT IS THE SOLE RESPONSIBILITY OF THE "DE" (AND NOT OF THE "EOR") TO ASSURE AND DEMONSTRATE (IF REQUIRED) THAT HIS/HER LICENSE IS ACTIVE IN THE STATE OF FLORIDA.

61G15-30.006: DELEGATED ENGINEER'S RESPONSIBILITY:

1. THE "DE" SHALL REVIEW THE "EOR" WRITTEN ENGINEERING REQUIREMENTS TO DETERMINE THE APPROPRIATE SCOPE OF THE DELEGATED ENGINEERING WORK.

2. THE DELEGATED ENGINEERING DOCUMENTS SHALL COMPLY WITH THE DESIGN DOCUMENTS PREPARED BY THE "EOR". THEY SHALL INCLUDE THE PROJECT IDENTIFICATION AND THE DESIGN CRITERIA USED IN ITS PREPARATION. IF THE "DE" DETERMINES THERE ARE DETAILS, FEATURES OR UNANTICIPATED PROJECT LIMITS CONFLICTING WITH THE "EOR" PLANS, THE "DE" SHALL TIMELY CONTACT THE "EOR" FOR RESOLUTIONS OF CONFLICTS. (***)

3. THE "DE" SHALL FORWARD THE DELEGATED ENGINEERING DOCUMENT TO THE "EOR" FOR REVIEW. ALL FINAL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE IMPRESSED SEAL AND SIGNATURE OF THE "DE" AND INCLUDE:

3.1 DRAWINGS INTRODUCING ENGINEERING INPUT SUCH AS DEFINING THE CONFIGURATION OR STRUCTURAL CAPACITY OF STRUCTURAL COMPONENTS AND/OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS.

3.2 CALCULATIONS.

3.3 COMPUTER PRINTOUTS (COMPLEMENTING OR INSTEAD OF MANUAL CALCULATIONS) ACCOMPANIED BY SUFFICIENT DESIGN ASSUMPTIONS AND IDENTIFIED INPUT/OUTPUT INFORMATION TO PERMIT THEIR PROPER EVALUATION.

3.4 SUCH INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE "DE" AS AN INDICATOR THAT SAID ENGINEER HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS.

(***) SHOULD ADDITIONAL INFORMATION BE REQUIRED BY THE "DE", HE/SHE CAN COMMUNICATE THESE QUESTIONS OR ADDITIONAL INFORMATION REQUIREMENTS, ON A TIMELY MANNER TO THE "EOR" (WITH COPIES TO THE CONTRACTOR).

NOTE: BASED ON SECTION 61G15-31.002 (DEFINITIONS), ITEM (6): STRUCTURAL SUBMITTALS WHICH DO NOT REQUIRE THE SEAL OF A PROFESSIONAL ENGINEER, INCLUDE:
(a) DRAWING PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION AND REQUIRE NO ENGINEERING INPUT SUCH AS REINFORCING STEEL SHOP DRAWINGS, STRUCTURAL STEEL, AND STEEL JOIST AND GIRDER ERECTION DRAWINGS.

61G15-31.006: DESIGN OF STRUCTURAL SYSTEMS UTILIZING OPEN WEB STEEL JOISTS AND JOIST GIRDERS:

1. THE STRUCTURAL DRAWINGS (BY THE "EOR") INDICATE THE STEEL JOIST AND JOIST GIRDER DESIGNATION FROM THE STEEL JOISTS INSTITUTE'S SPECIFICATIONS (EDITION AS PER THE CODE USED AT TIME OF PERMIT) AND LOAD TABLES AND INDICATE THE APPROPRIATE STANDARDS FOR THE JOIST AND JOIST GIRDER DESIGN, LAYOUT, END SUPPORTS, ANCHORAGE, BRIDGING REQUIREMENTS, ETC., INCLUDING CONNECTIONS TO WALLS. SPECIAL REQUIREMENTS FOR CONCENTRATED LOADS, NON-UNIFORM LOADS, OPENINGS, EXTENDED ENDS AND RESISTANCE TO UPLIFT LOADS, ARE ALSO INCLUDED.

2. THE STEEL JOIST AND JOIST GIRDER MANUFACTURER'S "DE" SHALL DESIGN THE JOIST AND JOIST GIRDER MEMBERS IN ACCORDANCE WITH THE STEEL JOISTS INSTITUTE'S SPECIFICATIONS AND LOAD TABLES (EDITION AS PER THE CODE USED AT TIME OF PERMIT) TO SUPPORT THE LOADS PER THE "EOR" SPECIFIED JOIST AND JOIST GIRDER DESIGNATIONS AND/OR SPECIAL LOADING DIAGRAMS, AS PER THE "EOR" STRUCTURAL DOCUMENTS. THE "EOR" REQUESTS THE SUBMISSION OF THE STEEL JOISTS AND JOIST GIRDER DESIGN CALCULATIONS AS AN INDICATION OF COMPLIANCE. THE STEEL JOIST AND JOIST GIRDER MANUFACTURER'S "DE" SHALL SUBMIT A COVER LETTER ALONG WITH THE CALCULATIONS. THE COVER LETTER SHALL BEAR THE SEAL AND SIGNATURE OF A FLORIDA PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE STEEL JOIST AND JOIST GIRDER.

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 2,500 PSF. A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO A MINIMUM OF 98% MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. TOP OF ALL FOOTINGS TO BE A MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED TO BE AT LOWER ELEVATION OR CAST MONOLITHIC WITH SLAB) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-4" BELOW TOP OF THE LOWER SLAB. TO ACCOMMODATE A CONTINUOUS WALL FOOTING, A STEPPED FOOTING MAY BE REQUIRED (SEE DETAIL ON PLAN).

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND/OR NON-MONOLITHIC) SHALL BE SPLICED 36 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS (MONOLITHIC OR NOT) SHALL BE 12" MINIMUM THICK.

8. BOTTOM OF ALL MONOLITHIC FOOTINGS SHALL BE EMBEDDED 8" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE OR SLAB.

CONCRETE NON-STRUCTURAL SLABS ON GRADE:

1. ALL NON-STRUCTURAL CONCRETE SLABS AND WALKWAYS ON GRADE, AS SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL PLANS, SHALL BE AS FOLLOWS:

INTERIOR SLABS: 4" THICK, REINF. W/ 6x6-W1.4xW1.4 WELDED WIRE FABRIC (MESH) – UNLESS OTHERWISE NOTED. USE OF GALVANIZED MESH IS RECOMMENDED. PLACE SLAB ON 6 MIL (MIN.) THICK VAPOR BARRIER (UNLESS OTHERWISE SPECIFIED BY ARCHITECT).

EXTERIOR SLABS AND WALKS: 4" THICK, REINF. W/ 6x6-W1.4xW1.4 WELDED WIRE FABRIC (MESH) – UNLESS OTHERWISE NOTED. USE OF GALVANIZED MESH IS RECOMMENDED.

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I – "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. –302.1R).

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT ALL COLUMN CENTERLINES DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 18 X 18 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO MINIMUM 95% MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. COORDINATE THESE REQUIREMENTS WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS. TAKE AT LEAST ONE DENSITY TEST FOR EACH 2,500 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"-(A.C.I 315 – LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R).

3. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

4. ALL REINFORCING SHALL BE DEFORMED BARS, CLEAN OF OIL, SCALE AND RUST.

5. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICAL REBARS ABOVE. LAP 36 BAR DIAMETER OR MINIMUM OF 18 INCHES, U.O.N. PROVIDE RIGID TEMPLATES FOR COLUMN DOWEL LOCATION. PROVIDE STANDARD HOOKS AT TOP OF ALL VERTICAL REINFORCEMENT AT NON-CONTINUOUS COLUMNS (U.O.N.).

5.1 ADD 2 SETS OF TIES (SPACED AT 3" O.C. MAX.) BELOW THE "OFFSET-BENT" IN THE VERTICAL REBARS, AT THE LAP LOCATION WITH THE CAGE ABOVE. TIE-COLUMNS (CONSTRUCTED WITH NO "OFFSET-BENT" DO NOT REQUIRED ADDED TIES).

5.2 UNLESS OTHERWISE INDICATED ALL COLUMNS SHALL BE EXTENDED TO THE TOP OF THE ROOF PARAPET.

5.3 ALL DOWELS FOR COLUMNS SHALL BE SECURED IN POSITION PRIOR TO CONCRETING. PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.

5.4 SEE COLUMN TYPES FOR ALL REQUIRED TIES, BANDS & HAIR-PINS.

5.5 EXTEND ALL THE TIES, BANDS & HAIR-PINS SPECIFIED THRUOUT THE ENTIRE HEIGHT OF THE COLUMN, INCLUDING PORTION OF THE COLUMNS' HEIGHTS INSIDE THE CONCRETE BEAMS FRAMING ONTO THESE COLUMNS.

6. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES (SEE BEAM DIAGRAM ON PLAN). BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NON-CONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 OR 180 DEGREE HOOKS AS REQUIRED (U.O.N.).
TIES OR STIRRUPS SHALL BE SPACED AS INDICATED ON THE BEAM SCHEDULE, MEASURED FROM SUPPORT TO SUPPORT (U.O.N.). EXAMPLE: 4@6" O.C. E.E BAL. @12" O.C., MEANS 4 TIES AT 6" O.C. AT EACH END OF EACH SPAN, WITH TIES AT 12" O.C. IN THE MIDDLE (BETWEEN THE TWO END SUPPORTS). CONTACT ENGINEER IF THIS REQUIRE FURTHER CLARIFICATIONS.

7. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

8. UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE PLANS OR DETAILS, ALL REBAR END HOOKS SHOWN OR REQUIRED AT ALL TYPES OF REINFORCED CONCRETE ELEMENTS SHALL BE THE ACI STANDARD LENGTH FOR 90 OR 180 DEGREES HOOKS.

CONCRETE AND REINFORCING (CONT.):

9. CONCRETE TIE BEAM: A MINIMUM CONCRETE TIE BEAM (AS SPECIFIED HEREIN) SHALL BE PROVIDED AT EACH FLOOR OR ROOF LEVEL, IF A BEAM WAS NOT CALLED FOR ON THE PLANS. THE TIE BEAM SHALL BE A MINIMUM OF 8" X 12", REINFORCED WITH (2)-#5 TOP AND BOTTOM AND #3 TIES, (4) AT 12" O.C. EACH END, BALANCE AT 48" O.C.. DROP BOTTOM OF THE BEAM OVER OPENINGS, ADD (2)-#5 BOTTOM AND #3 TIES AT 6" O.C. THRUOUT. THESE BEAMS ARE NOT IN ADDITION TO BEAMS ALREADY INDICATED AND SCHEDULED ON THE PLANS FOR THE SAME LOCATION.

10. CURING & PROTECTION: ALL STRUCTURAL SLABS AND SLABS-ON-GRADE SHALL BE CURED WITH MOIST BURLAP COVER (KEPT MOIST FOR 7 DAYS). SPRAY ON CURING COMPOUNDS (INCLUDING CURING/SEALERS/HARDENERS) MAY BE CONSIDERED. CONTRACTOR TO SUBMIT TO ARCHITECT/ENGINEER MATERIAL SPECIFICATIONS AND DATA, FOR REVIEW AND ACCEPTANCE PRIOR TO APPLICATION. NO SLAB CONCRETE SHALL BE LET TO DRY WITHOUT ANY CURING.

11. CONCRETE COVER (UNLESS OTHERWISE DETAILED ON DRAWINGS):

ELEMENT:	CONCRETE COVER: TOP	BOTTOM	SIDES	REMARKS:
WALL & COLUMN PAD FOOTING	2"	3"	2"	
NON-STRUCT. SLAB-ON-GRADE	MID-DEPTH			
BEAMS/COLUMNS (TO TIES)	1-1/2" ALL AROUND			

12. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH AS FOLLOWS:

ELEMENT:	COMPRESSION AT 28 DAYS STRENGTH:	MAX. SLUMP:
ALL CONCRETE	3,000 PSI	5"

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=1,900 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. REINFORCED MASONRY WAS DESIGNED ACCORDING TO ACI 530/ASCE 8, CHAPTER 2 "ALLOWABLE STRESS DESIGN OF MASONRY" OR CHAPTER 3 "STRENGTH DESIGN OF MASONRY".

3. QUALITY ASSURANCE LEVEL "B" (TABLE 1.18.2) INSPECTIONS ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION (DEFINED AS "NON-ESSENTIAL STRUCTURE" AS PER ASCE-7 TABLE 1-1 AND ACI 530 SECT. 1.18.2.2.). CONTRACTOR TO PROVIDE ALL TESTING OF MASONRY, GROUT & MORTAR (DELIVERED OR SITE-MIXED). SEND COPIES OF ALL TEST RESULTS ON A TIMELY MANNER TO OWNER AND A/E. MAINTAIN COPIES ON SITE FOR INSPECTORS.

4. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S" WITH f'm = 1,900 PSI AND SHALL BE TESTED AS REQUIRED BY THE QUALITY ASSURANCE REQUIREMENTS..

5. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

6. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

7. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

8. VERTICAL REINFORCING:

8.1 ASTM A-615 PER REINFORCING SECTION.

8.2 WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

8.3 VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION (AT 10 FT. VERTICAL SPACING).

8.4 VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

8.5 ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BEAMS (OR CAP) AT THE NON-CONTINUOUS END OF THE REBARS. ALL VERTICAL REINFORCING SHALL BE LAPPED 48 BAR-DIAMETER MINIMUM.

8.6 PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 4 FT.

9. HORIZONTAL REINFORCING:
PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.

10. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

11. CELL FILLING CONCRETE SHALL BE "PEA ROCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,500 PSI MIN. AT 28 DAYS.

12. GROUTING SHALL BE IN CONTINUOUS OPERATIONS IN LIFTS NOT EXCEEDING 4 FT. AND A MAXIMUM POUR HEIGHT OF 12 FT.

13. SEE SECTION "CONCRETE AND REINFORCING" FOR MINIMUM TIE BEAMS, WHERE OTHER BEAMS ARE NOT OTHERWISE INDICATED ON PLANS.

14. IN COMPLIANCE WITH "OSHA" REQUIREMENTS (29 CFR 1926.706(b)) WALLS HIGHER THAN 8 FT. SHALL BE LATERALLY BRACED DURING CONSTRUCTION. BRACING SHALL REMAIN IN PLACE TILL THE ROOF AND/OR FLOOR STRUCTURES HAVE BEEN SECURED TO PROVIDE THE REQUIRED PERMANENT BRACING. CONTRACTOR SHALL PROVIDE LATERAL BRACING SHOP DRAWINGS OR DATA SHEETS, DESIGNED, SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER.

15. "SPECIAL INSPECTION" SERVICES ARE REQUIRED FOR THIS TYPE OF STRUCTURE IN MIAMI-DADE AND BROWARD COUNTIES, IN ADDITION TO THE INSPECTIONS PROVIDED BY THE LOCAL BUILDING DEPARTMENT. SEE "SPECIAL INSPECTION REQUIREMENTS" SECTION IN THESE GENERAL NOTES. CONTACT A/E FOR ANY REQUIRED INFORMATION AND/OR QUESTIONS.

STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (Fy=46 K.S.I.).

2. ALL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED PRIME COAT. STEEL EXPOSED TO THE ELEMENTS OR ANY STEEL IN STRUCTURES CLOSE TO THE OCEAN, SHALL BE EPOXY PAINTED. SEE ARCHITECTURAL DRAWINGS FOR FINISH PAINT INFORMATION. ALL DAMAGES TO THE PAINT ON SITE OR DURING DELIVERY (INCLUDING DRILLING AND WELDING OPERATIONS) SHALL BE FIELD TOUCHED-UP WITH THE SAME SPECIFIED RUSTPROOFING PAINT.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. "STRUCTURAL WELDING CODE – STEEL". ALL WELDERS TO BE A.W.S. CERTIFIED (CERTIFICATION TO BE AVAILABLE ON-SITE DURING WELDING INSPECTION). ALL WELDS TO BE FILLET OR PENETRATION WELDS (THICKNESS TO BE IN ACCORDANCE WITH BASE METAL THICKNESS). USE MINIMUM E70XX ELECTRODES. CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

4. ALL CONNECTIONS TO BE SHOP WELDED AND/OR FIELD WELDED. UNLESS OTHERWISE SPECIFICALLY INDICATED ON PLANS AND DETAILS, ALL WELDS SHALL BE CONSIDERED FULL WELDS (ALONG THE CONTACT LENGTHS OF THE CONNECTING STEEL ELEMENTS). BOLTED CONNECTIONS MAY BE USED AS DIRECTED.

5. "SPECIAL INSPECTION" SERVICES ARE REQUIRED FOR ALL WELDED & BOLTED CONNECTIONS. SEE "SPECIAL INSPECTION REQUIREMENTS" SECTION.

STEEL JOIST: (SHOP DRAWINGS REQUIRED)

1. CONFORM TO SPECIFICATION OF STEEL JOIST INSTITUTE (SJI), U.O.N. (USE DOMESTIC STEEL ONLY.)

2. UNLESS OTHERWISE DETAILED OR SPECIFIED THE JOISTS SHALL HAVE THE FOLLOWING BEARING SEATS ON CONCRETE:

2.1 OPEN WEB STEEL JOISTS – "LH" SERIES: L6"x4"x1/2"x1'-0" (LONG LEG HORIZONTAL) BEARING STEEL ANGLES WITH TWO 3/4" DIAM. x 8" LONG WELDED ANCHOR STUDS. PROVIDE 2 NAIL HOLES IN THE VERTICAL LEG FOR ATTACHMENT TO FORMWORK. MINIMUM JOIST ON SEAT BEATING SHALL BE 4-1/2" (UNLESS OTHERWISE INDICATED ON THE BAR JOIST SHOP DRAWINGS).

3. STEEL JOISTS BEARING ON STEEL TO BE WELDED AS FOLLOWS:

3.1 "LH"-SERIES: WELD 3/16" X 3" LONG, EACH SIDE, EACH END, UNLESS LONGER WELDS HAVE BEEN SPECIFIED/DETAILED ON PLANS.

4. STEEL JOISTS BRIDGING:

4.1 BRIDGING SHALL BE A MIN. L 1-1/2"x1-1/2"x3/16". SEE BAR-JOISTS SHOP DRAWINGS FOR LARGER L's IF REQUIRED.

4.2 SEE PLAN FOR NUMBER OF BRIDGING ROWS REQUIRED.

4.3 ADD ONE ROW OF BOTTOM CHORD ONLY BRIDGING, AT THE FIRST AND LAST PANEL POINT.

4.4 ALL BRIDGING L'S TO BE SPACED TO FALL AT PANEL POINTS AND WELDED THERETO.

4.5 IF BRIDGING REQUIREMENTS WERE NOT INDICATED ON THE DRAWINGS, PROVIDE THE STANDARD BRIDGING, AS SPECIFIED IN THE S.J.I. FOR EACH TYPE OF JOIST (SEE BAR-JOISTS SHOP DRAWINGS).

5. ALL STEEL JOISTS TO HAVE A CENTER CAMBER AS PER S.J.I. STANDARD SPECIFICATIONS.

6. ALL STEEL JOISTS TO BE FABRICATED BY MEMBER OF S.J.I. OR A.I.S.C.

7. UPLIFT FORCES DUE TO WIND ARE INDICATED ON PLANS AND NEED TO BE CONSIDERED IN JOISTS AND BRIDGING DESIGN. PROVIDE A SINGLE LINE OF BOTTOM CHORD BRIDGING AT THE FIRST BOTTOM CHORD PANEL POINTS (EACH END) AS SPECIFIED IN THE S.J.I..

8. STEEL BAR-JOIST SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE JOIST SUPPLIER'S STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF THIS PROJECT. THE ARCHITECT/ENGINEER OF RECORD SHALL RECEIVE A SIGNED AND SEALED COPY OF THE SHOP DRAWINGS "ISSUED FOR CONSTRUCTION". ADDITIONAL SIGNED AND SEALED COPIES WILL BE DISTRIBUTED TO THE OWNER, CONTRACTOR AND THE LOCAL BUILDING DEPARTMENT.

9. IN ADDITION TO JOIST INFORMATION (SIZE, LOADING, TYPE, ETC.) INDICATED ON THE STRUCTURAL DRAWINGS, JOIST PROVIDER/DETAILER SHALL VIEW THE ARCHITECTURAL AND M.E.P. DRAWINGS FOR POSSIBLE OTHER REQUIREMENTS THAT MAY AFFECT THE JOISTS (SUCH AS SPECIAL DIMENSIONS/CONFIGURATION/SHAPES, DUCT OPENINGS/PENETRATIONS, ETC.

STEEL DECKS: (SHOP DRAWINGS REQUIRED)

GENERAL:
THE STEEL DECK SELECTION, SIZE, GAGE AND CONNECTIONS LISTED HERE IS BASED ON COMPLIANCE WITH THE STRUCTURAL (LATERAL, GRAVITY AND UPLIFT) LOADS ONLY. IT IS NOT NECESSARILY BASED ON COMPLIANCE WITH A ROOFING ASSEMBLY N.O.A. OR OTHER ACCEPTABLE ROOFING DATA SHEETS. BEFORE ANY DECKING SYSTEM IS COST ESTIMATED, PRICED OR PRODUCED, THE G.C. AND THE ARCHITECT MUST CONFIRM COMPLIANCE WITH THE MINIMUM DESIGN REQUIREMENTS (LISTED BELOW) AND COMPLIANCE WITH ALL THE CONDITIONS OF THE ROOFING N.O.A OR OTHER ACCEPTABLE DATA (THAT MAY NECESSITATE CHANGES TO THE DECK OR CONNECTIONS SPECIFIED HEREIN).
IN THE EVENT THAT SOME ITEMS NEED TO BE REVISED/ADJUSTED, DOCUMENTS REGARDING THESE MUST BE PROVIDED BY THE ROOFING SUPPLIERS' ENGINEER (SIGNED/SEALED LETTER OR DRAWINGS TO BE INCLUDED).

1. STEEL ROOF DECK: (SELECTED TO SUPPORT GRAVITY LOADS, UPLIFT AND LATERAL WIND LOADS ONLY).
STEEL DECK SHALL BE A MINIMUM OF 1-1/2", 20 GAGE, CORRUGATED, TYPE "B", MINIMUM Fy = 33 KSI (MINIMUM YIELD STRENGTH), GALVANIZED (MINIMUM G90 COATING DESIGNATION) UNLESS OTHERWISE INDICATED ON PLANS. DECKS TO BE AS MANUFACTURED BY "VULCRAFT" (OR EQUAL) AND SHALL BE DESIGNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2. MINIMUM BEARING OF DECKS ON SUPPORTS TO BE 3" AND FASTENED AS REQUIRED HEREIN.

3. PROVIDE ALL ACCESSORIES (CLOSURE PANS, STRIPS, ETC.) AS REQUIRED TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOFING SYSTEM.

4. DECKS SHALL BE EXTENDED TO BEAR ON A MINIMUM OF THREE (3) SPANS (UNLESS OTHERWISE REQUIRED BY THE PROJECT CONDITIONS).

5. DECK DIAPHRAGM CONNECTION:
BASED ON LATERAL WIND LOADS ON THE DECK.
TO SUPPORTS: 5/8" DIAMETER PUDDLE WELDS AT 36/7 PATTERN
SIDE LAPS: NO. 10 GALV. TEK SCREWS – 4 PER SPAN

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE FOLLOWING CODE(S):
MIAMI-DADE AND BROWARD COUNTIES ONLY (H.V.H.Z.):
2017 FLORIDA BUILDING CODE – BUILDING
THE FLORIDA BUILDING CODE – BROWARD COUNTY AMENDMENTS (2017)

FLORIDA BUILDING CODE – CURRENT SUPPLEMENTS AND AMENDMENTS ARE INCLUDED WITH ALL THE ABOVE.

ALL CODES, SPECIFICATIONS AND OTHER APPLICABLE REFERENCES, SHALL BE OF THE EDITION INDICATED IN THE ABOVE REFERENCED CODE.

2. DESIGN GRAVITY LOADS:

U S E:	SUPERIMPOSED LOADS: LIVE (PSF)	DEAD (PSF)
ROOF BAR-JOISTS	30	20

STRUCTURAL DESIGN CRITERIA – WIND:

1. WIND DESIGN CRITERIA:
WIND DESIGN CODE: ASCE-7(10)
WIND VELOCITY: 170 MPH (LRFD)
OCCUPANCY CATEGORY: 2
EXPOSURE CATEGORY: "C"
MEAN ROOF HEIGHT: 16 FT. MAX. (FLAT ROOF)

METHOD: 2
ENCLOSED BUILDING:
GCPi = ±0.18
Kd = 0.85
CORNER DISTANCE "a" = 3.00 FT.

2. WIND FORCE SUMMARY: (A.S.D = 0.60 x LRFD)

2A. COMPONENTS & CLADDING: (CHAPTER 30 – PART 2)

BUILDING ELEMENT	ZONE 1	ZONE 2	ZONE 3	ZONE 4(+)	ZONE 4(–)	ZONE 5(–)
FLAT ROOF JOISTS	–35.1	–41.6	–41.6			
ROOFING (FLAT)	–38.3	–64.3	–64.3			
WALL				+30.3	–33.2	–37.2
PARAPET WALL (+/–)				88.1	88.1	==
WINDOWS/DOORS	(10 SQ.FT)			+35.1	–38.0	–46.8

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SHEET TITLE
STRUCTURAL GENERAL NOTES

SHEET NO.
S0.0

JOB NO.
2020-002