RECORD.

THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DOCUMENTS. USE THESE NOTES IN CONJUNCTION WITH THE SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS. COMPLY WITH REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER APPLICABLE FEDERAL STATE, AND LOCAL CODES, STANDARDS,

REGULATIONS AND LAWS. 4. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME

THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR BIDDING 5. REVIEW ALL CONTRACT DOCUMENTS, DIMENSIONS AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT/ENGINEER. DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF

ANY DISCREPANCIES, OMISSIONS, OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE ARCHITECT/ENGINEER. 7. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.

8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND

CONSTRUCTION PROCEDURES. 9. DO NOT SCALE DRAWINGS; USE DIMENSIONS.

10. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS IN STRUCTURE NOT SHOWN ON STRUCTURAL DRAWINGS. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT/ENGINEER.

12. REVISIONS ARE IDENTIFIED BY A REVISION NUMBER WITHIN A TRIANGLE. ALL REVISIONS ISSUED ON A SINGLE DATE WILL BE IDENTIFIED BY THE SAME REVISION NUMBER ISSUED CONSEQUENTLY.

13. CURRENT REVISIONS ARE ENCIRCLED BY AN IRREGULAR "CLOUD", AS WELL AS FLAGGED WITH THE CURRENT REVISION NUMBER. CLOUDS ARE REMOVED FROM PREVIOUSLY ISSUED REVISIONS.

14. DESIGN LOADS AND CRITERIA: FLOOR LIVE LOAD 40 PSF 15 PSF PARTITION LOAD ROOF LIVE LOAD 20 PSF FLOOR DEAD LOAD SELF WEIGHT

> WIND CRITERIA ASCE 7-22 ULTIMATE WIND SPEED 160 MPH RISK CATEGORY IMPORTANCE FACTOR 1.00 STRUCTURE TYPE ENCLOSED

CONTRACT DOCUMENTS FOR THE EMBEDMENT REQUIREMENTS.

PRE-ENGINEERED STEEL BUILDING

1. CONTRACTOR SHALL SUPPLY THE FINAL REACTIONS TO THE ARCHITECT / ENGINEER FOR REVIEW AS SOON AS THEY BECOME AVAILABLE.

2. THE SHOP DRAWINGS SHALL INDICATE THE DIAMETER AND NUMBER OF ANCHOR BOLTS PER COLUMN. SEE THE

SHOP DRAWING SUBMITTALS:

THE FOLLOWING REQUIREMENTS IN NO WAY REDUCE OR LIMIT ANY ADDITIONAL REQUIREMENTS OF SPECIFICATIONS. 2. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER IS FOR GENERAL

CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT

IN ACCORDANCE WITH THE SPECIFICATIONS, SUBMIT A COPY OF THE SHOP DRAWING SUBMITTAL REGISTER TO THE STRUCTURAL ENGINEER, SHOWING DATES OF SUBMITTAL FOR EACH SPECIFIC STRUCTURAL SECTION OF THE WORK, CONSISTENT WITH THE FOLLOWING CRITERIA:

A. ALLOW ADEQUATE TIME FOR TRANSIT AND PROCESSING BEFORE FABRICATION. THE STRUCTURAL ENGINEER WILL REVIEW AN AVERAGE SUBMITTAL WITHIN 10 WORKING DAYS OF RECEIPT BY THEM.

B. SCHEDULE AND SUBMIT SHOP DRAWINGS FOR SPECIFIC COMPONENTS, SUCH AS COLUMNS FOOTINGS, ETC., IN THEIR ENTIRETY. SHOP DRAWINGS FOR SIMILAR FLOORS SHALL BE SUBMITTED IN THE SAME PACKAGE.

C. SUBMIT SHOP DRAWINGS IN A TIMELY MANNER, CONSISTENT WITH THE ABOVE REQUIREMENTS. 4. ALL CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY

NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT /ENGINEER REVIEW WILL BE LIMITED TO THE ITEMS CAUSING THE RESUBMITTAL.

DO NOT REPRODUCE THE CONTRACT DOCUMENTS FOR USE AS SHOP <u>DRAWINGS.</u> 6. SHOP DRAWINGS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER

FABRICATION WILL NOT BE REVIEWED AND WILL BE RETURNED WITHOUT COMMENT 7. RESPONSIBILITIES OF DETAILERS AND FABRICATORS: GENERAL - SUBMIT SHOP DRAWINGS AND ANY OTHER SPECIAL

INFORMATION NECESSARY FOR PROPER FABRICATION, ERECTION, AND PLACEMENT OF STRUCTURAL FABRICATIONS. INCLUDE PLANS, ELEVATIONS, AND SECTIONS. CLEARLY SHOW ANCHORAGES, CONNECTIONS, AND ACCESSORY ITEMS.THE DETAILER MUST INTERPRET THE CONTRACT DOCUMENTS AND CLEARLY CONVEY THIS INTERPRETATION TO THE FIELD IN THE FORM OF PLACING OR

ERECTION DRAWINGS. B. CONCRETE REINFORCING DETAILER - PROVIDE PLACING DRAWINGS FOR FABRICATION AND PLACING OF REINFORCING STEEL. THESE DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: BAR LISTS, SCHEDULES, BENDING DETAILS, PLACING DETAILS, PLACING PLANS, AND PLACING ELEVATIONS. CLEARLY SHOW ELEVATIONS OF ALL FOUNDATION WALLS. INDICATE CONTROL JOINTS, EXPANSION JOINTS, LINTELS, CONCRETE BOND BEAMS

HOOKS, PILASTERS. CLEARLY SHOW GRADE BEAM ELEVATIONS AND SECTIONS. INDICATE BAR LENGTHS, HOOKS, STIRRUP SPACING, LAP

AND OPENINGS, DETAILS OF ALL REINFORCING WITH LOCATIONS OF SPLICES, AND

SUPPORTS. CLEARLY SHOW COLUMN ELEVATIONS AND SECTIONS. INDICATE DOWELS, OFFSETS, LAP SPLICES, AND TIES. PLAN SECTIONS OF ALL

SPLICES, OFFSETS, AND LOCATION OF BARS WITH RESPECT TO ALL

ENGINEERING INPUT BY A SPECIALTY ENGINEER, SEE BELOW

COLUMNS MUST CLEARLY BE SHOWN. · CLEARLY SHOW FOUNDATION REINFORCING. INDICATE BAR

LENGTHS, LOCATION AND SPLICES OF CONTINUOUS BARS, AND BAR SUPPORTS. · CLEARLY SHOW LOCATIONS OF ALL DOWELS ON PLAN. INDICATE FOOTING STEP LOCATIONS AND PROVIDE DETAILS. 8. FOR ADDITIONAL CRITERIA APPLICABLE TO SHOP DRAWINGS REQUIRING

SHOP DRAWINGS REQUIRING ENGINEERING INPUT BY SPECIALTLY ENGINEER:

1. SPECIALTY ENGINEER:

A. DEFINITION - A FLORIDA REGISTERED PROFESSIONAL ENGINEER WHO SPECIALIZES IN AND WHO UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS

AN EMPLOYEE OR OFFICER OF A FABRICATOR.

AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR AN INDEPENDENT CONSULTANT RETAINED BY THE FABRICATOR

THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER.

PRE-ENGINEERED STEEL BUILDING THE SPECIALTY ENGINEER OR MANUFACTURER SHALL DESIGN, PROVIDE, AND INSTALL THEIR COMPONENTS AND THE COMPONENT CONNECTIONS TO THE PRIMARY STRUCTURE PER THE WIND CRITERIA STATED IN GENERAL NOTE 14 OR THE CURRENT GOVERNING BUILDING CODES, WHICHEVER IS MORE STRINGENT.

SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

SHOP DRAWINGS AND CALCULATIONS MUST BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE SPECIALTY ENGINEER. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE EMBOSSED OR PRINTED <u>SEAL, DATE AND SIGNATURE OF THE</u> <u>SPECIALTY ENGINEER.</u> COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS

PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER E VALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE EMBOSSED SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR RECORD.

CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A SPECIALTY ENGINEER. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS

LIMITED TO VERIFYING THE FOLLOWING: THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN

FURNISHHED. B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED

THAT THE SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.)

D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.) A LIST SHALL BE PREPARED AND MAINTAINED BY THE CONTRACTOR FOR ALL SHOP DRAWINGS REQUIRING PARTICIPATION OF A SPECIALTY ENGINEER. THE LIST SHALL CONTAIN PROJECT NAME, NAME OF CONTRACTOR, NAME OF SUBCONTRACTOR, NAME OF SPECIALTY ENGINEER, DRAWING NUMBER, DRAWING TITLE AND THE LATEST REVISION NUMBER AND DATE. FOR PARTIAL SUBMITTALS, THE LIST SHALL CONTAIN ALL ANTICIPATED DRAWING NUMBERS AND TITLES REQUIRED TO COMPLETE THE CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE LATEST UPDATED LIST OF DRAWINGS

WITH EACH SUBMITTAL SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND REINFORCED CONCRETE:
CONTRACTOR MARKED REVISE AND RESUBMIT. THE
CONTRACTOR SHALL DE RESPONSIBLE FOR ANY DELAYS WHICH MAY RESULT.

USE STRUCTURAL CONCRETE AND CONCRETING PRACTICES CONFORMING TO ACI-316 AND 301 AND PROPORTION CONCRETE IN ACCORDANCE WITH ACI-318 CH. 4 AND MEETING A MIN. ULTIMATE COMPRESSIVE STRENGTH IN 28 DAYS AS

STRUCTURAL STEEL:

SPECIFICATIONS. USE THE FOLLOWING:

ON THE ERECTION DRAWINGS.

6. A325 BOLTS:

ATTAINED BY

THEIR RECORDS BEFORE BEGINNING WELDING.

TESTS TO ARCHITECT/ENGINEER FOR THEIR RECORDS.

HARDENED WASHERS UNDER PART BEING TURNED

OR LUBRICATED WITH JOHNSON'S STICK WAX 140.

EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

WASHERS SHALL BE USED FOR FRICTION-TYPE BOLTS.

FRICTION-TYPE BOLTED CONNECTIONS MAY BE

SPECIFICALLY CALLED FOR ON THE DRAWINGS.

FLAME CUT HOLES OR ENLARGE HOLES BY BURNING

REVIEW BEFORE FABRICATION OF STRUCTURAL STEEL

STRUCTURE DURING CONSTRUCTION.

PROHIBITED EXCEPT WHERE INCLUDED ON THE DRAWINGS.

HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A-153.

WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

BOLTS FOR STRUCTURAL STEEL JOINTS. DO NOT USE TYPE 2 BOLTS.

1. ALL STEEL WORK (INCLUDING FABRICATION AND ERECTION) SHALL CONFORM

ROLLED SHAPES, PLATES, AND BARS: ASTM A992 50 KSL

USE STRUCTURAL STEEL THAT IS FULLY WELDABLE WITHIN GRADES AND

WELDING CODE AWS D1.1, LATEST EDITION, PUBLISHED BY THE AMERICAN WELDING

SOCIETY (AWS). USE ELECTRODES CONFORMING TO AWS D1.1, E70 SERIES, U.O.N.

SHOW ALL SHOP WELDS ON THE FABRICATION DRAWINGS AND ALL FIELD WELDS

4. ALL SHOP AND FIELD WELDERS, WELDING OPERATORS, AND TACKERS SHALL

BE CERTIFIED ACCORDING TO AWS PROCEDURES FOR THE WELDING PROCESS AND

ALL JOINT WELDING PROCEDURES TO BE USED SHALL BE PREPARED BY THE

PROCEDURES SHALL BE QUALIFIED PRIOR TO USE ACCORDING TO AWS

A. A325 BOLTS SHALL CONFORM TO ASTM A 325 TYPE 1, HIGH STRENGTH

B. PROVIDE HARDENED WASHERS CONFORMING TO ASTM F 436. PLACE

C. ALL BOLTS SHALL BE NEW AND DOMESTICALLY MANUFACTURED. DO

D. BEARING-TYPE BOLTS (A-325N) SHALL BE TIGHTENED TO THE SNUG

E. SLIP CRITICAL TYPE BOLTS (A325SC) SHALL BE TIGHTENED TO THE

BE DETERMINED SOLELY BY USE OF DIRECT TENSION INDICATORS,

PROVIDE ONLY DOMESTICALLY MANUFACTURED BOLTS AND D.T.I.'S

A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL

NOT REUSE BOLTS. BOLTS AND NUTS SHALL BE WAX DIPPED BY THE BOLT SUPPLIER

TIGHT CONDITIONS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS

THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE

MINIMUM FASTENER TENSION INDICATED IN SPECIFICATION FOR STRUCTURAL

JOINTS USING ASTM A-325 OR ASTM A490 BOLTS, SECTION 5, TABLE 3. TENSION

7. CONNECTIONS NOT COMPLETELY DETAILED ON STRUCTURAL DRAWINGS

SHALL BE DESIGNED AND DETAILED BY FABRICATOR'S SPECIALTY ENGINEER

8. USE A-307 BOLTS FOR ERECTION BOLTS AND ANCHOR BOLTS OR WHEN

9. CUT, DRILL, OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. <u>DO NOT</u>

10. SPLICING OF STRUCTURAL STEEL MEMBERS IN THE FIELD OR IN THE SHOP IS

11. ALL EXTERIOR STRUCTURAL PLATES ANGLES AND EXTERIOR BEAMS SHALL BE

12. REFER TO ARCHITECTURAL PLANS FOR FIREPROOFING OF STRUCTURAL STEEL

13. SUBMIT STRUCTURAL STEEL SHOP DRAWINGS TO ARCHITECT/ENGINEER FOR

16. NO CUTTING OF SECTIONS, FLANGES, WEBS, OR ANGLES SHALL BE ALLOWED

MEMBERS, REFER TO SPECIFICATIONS FOR PAINTING OF EXPOSED STRUCTURAL

14. PROVIDE TEMPORARY BRACING AS NECESSARY TO INSURE A STABLE

15. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP

ACCORDING TO AISC SPECIFICATIONS AND THE SPECIFIED LOADS AND IN

COMPLIANCE WITH APPLICABLE PARAGRAPHS OF THIS SECTION.

COMPLYING WITH ASTM F959-85, OR "LOHR" TENSION CONTROL BOLTS. HARDENED

FABRICATOR OR CONTRACTOR AS WRITTEN PROCEDURE SPECIFICATIONS AND

SUBMITTED TO THE ARCHITECT/ENGINEER FOR THEIR RECORD. ALL JOINT WELDING

PROCEDURES. SUBMIT PROPERLY DOCUMENTED EVIDENCE OF QUALIFICATION

WELDING POSITION USED. <u>SUBMIT CERTIFICATES TO ARCHITECT/ENGINEER FOR</u>

COLD-FORMED STEEL TUBING: ASTM A500, GRADE B.

FROM ANY GRADE TO ANY OTHER GRADE. WELD ALL SHOP CONNECTIONS, U.O.N.

3. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE STRUCTURAL

TO THE AISC MANUAL OF STEEL CONSTRUCTION 9TH EDITION AND PROJECT

HOT-FORMED STEEL TUBING: ASTM A501.

STEEL PIPE: ASTM A3, TYPE E OR S, GRADE B.

3000 PSI **GRADE BEAMS** 3000 PSI

PROVIDE CURRENT (MAX. 1 YEAR OLD) STATISTICAL DATA FOR EACH CONCRETE MIX DESIGN SUBMITTED.

2. WHERE CONCENTRATION OF REINFORCING STEEL HINDERS PROPER CONSOLIDATION OF CONCRETE USE CONCRETE CONTAINING A SUPERPLASTICIZING (N.R.W.R.) ADMIXTURE, ASTM C494 TYPE F. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 7"+1".

IF CONCRETE IS PUMPED, SLUMP MAY BE INCREASED TO 6" AT THE TRUCK, PROVIDED THE SLUMP SPECIFIED IN NOTE 2 IS MAINTAINED AT THE DISCHARGE END. USE A MINIMUM 4-INCH PUMP, UNLESS PRE-APPROVED BY ARCHITECT. TAKE CONCRETE SAMPLES FOR SLUMP AT TRUCK AND AT DISCHARGE END. TAKE CONCRETE SAMPLES FOR CYLINDER TESTING AT DISCHARGE END. USE ASTM A-615 GR. 60 FOR ALL REINFORCING STEEL, CONFORM TO ACI-301, ACI-315, ACI-318, AND CRSI "MANUAL OF STANDARD PRACTICE". ALL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. PROVIDE CLASS 'B' LAP SPLICE FOR CONTINUOUS BARS, U.O.N. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MIDSPAN UNLESS OTHERWISE SPECIFIED. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN

WALLS U.O.N. USE 1" COVER OVER REINFORCING EXCEPT AS FOLLOWS:

FOOTING/PILECAP

USE PLAIN COLD-DRAWN ELECTRICALLY-WELDED STEEL WIRE FABRIC CONFORMING TO ASTM A 185. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICES SHALL BE MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL BE NOT LESS THAN TWICE THE SPACING OF THE CROSS WIRES PLUS 2". 6. SLEEVE ALL PIPES THROUGH SLABS INDIVIDUALLY, UNLESS APPROVED BY THE ENGINEER. WHERE PIPES OR DUCTS PENETRATE THE SLAB, A MAXIMUM OF TWO SLAB BARS MAY BE CUT PROVIDED THEY ARE #5 BARS OR SMALLER, PROVIDED SPLICED BARS ARE PLACED ALONGSIDE THE OPENING IN EACH DIRECTION WITH A 36 BAR DIAMETER SPLICE AT THE END OF EACH CUT BAR. SPLICE BARS SHALL HAVE THE EQUIVALENT CROSS-SECTIONAL AREA AS THE CUT BARS. FOR OPENINGS LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS SUBMIT SHOP DRAWINGS SHOWING SIZE AND LOCATION FOR THE ENGINEER'S REVIEW. PROVIDE (1) #5x6'-0" EACH WAY DIAGONALLY AT CORNERS OF ALL OPENINGS LARGER THAN 12", UNLESS OTHERWISE NOTED.

SLABS ON GRADE:

PREPARE SUBGRADE AS PER THE RECOMMENDATION OUTLINED IN THE GEOTECHNICAL REPORT INCLUDED IN THE SPECIFICATIONS. REINFORCE SLABS ON GRADE IN ACCORDANCE WITH PLANS, SECTIONS AND

DETAILS PROVIDED FOR THIS PROJECT. USE 10 MIL. POLYETHYLENE SHEETING BETWEEN SOIL AND CONCRETE SLAB,

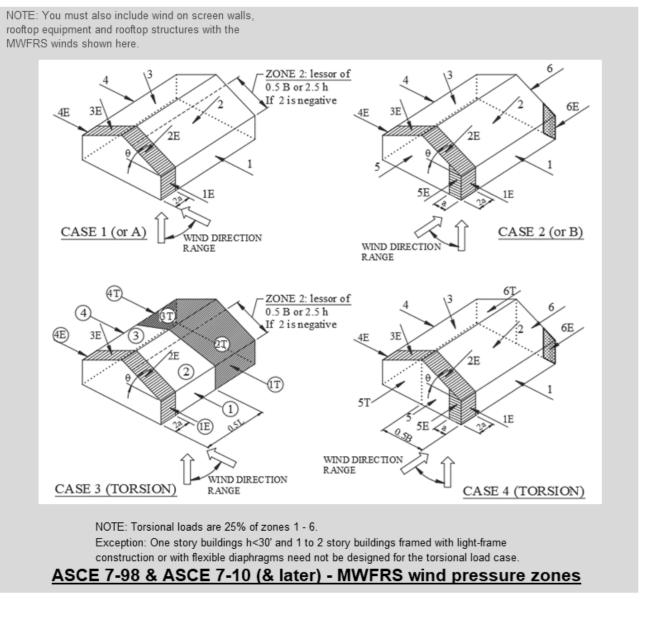
4. PLACE CRACK CONTROL JOINTS AT 12 FT. MAX. SO AS TO LIMIT CONCRETE PLACEMENT AREAS TO 144 SQ. FT. MAX. IN ALL FLOATING SLABS ON GRADE. DO NOT EXCEED A 2 TO 1 WIDTH TO LENGTH RATIO. CONTRACTOR SHALL SUBMIT A CONTROL JOINT LAYOUT FOR ENGINEER'S REVIEW PRIOR TO CONCRETE PLACEMENT. 5. SLAB FINISHES (UNLESS OTHERWISE DIRECTED BY ARCHITECTURAL PLANS & SPECIFICATIONS):

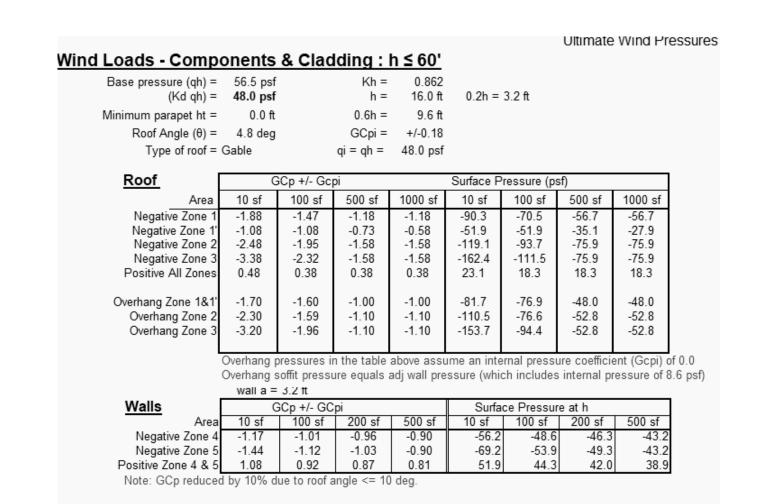
EXTERIOR WALKING SURFACES - MEDIUM BROOM DRIVING SURFACES - MEDIUM BROOM INTERIOR SURFACES - STEEL TROWEL

Exhibit "E"

GULF BREEZE, FL 32561 850-712-8290

Wind Loads - MWFRS h≤60' (Low-rise Buildings) except for open buildings Base pressure (gh) = 56.5 psf Kz = Kh = 0.862Edge Strip (a) = End Zone (2a) = $(Kd \dot{q}h) = 48.0 psf$ Zone 2 length = 16.0 ft GCpi = +/-0.18Wind Pressure Coefficients CASE A CASE B Surface GCpf w/-GCpi w/+GCp GCpf w/-GCpi w/+GCp 0.40 0.58 0.22 -0.45 -0.27 -0.69 -0.51 -0.69 -0.51 -0.87 -0.37 -0.19 -0.55 -0.37 -0.19 -0.55 -0.63 -0.29 -0.11 -0.47 -0.45 -0.27 0.40 0.58 0.22 -0.29 -0.11 -0.48 -0.30 0.61 0.79 0.43 -1.07 -0.89 -1.25 -1.25 -1.07 -0.89 -0.53 -0.35 -0.71 -0.53 -0.35 -0.71 -0.43 -0.25 -0.61 -0.48 -0.30 0.61 0.79 0.43 -0.43 -0.25 Ultimate Wind Surface Pressures (psf) -41.8 -24.5 -41.8 -24.5 -9.1 -26.4 -26.4 -30.3 -5.3 -22.6 -13.0 27.9 10.6 -42.8 -60.1 -42.8 -60.1 -16.8 -34.1 -16.8 -34.1 -12.0 -29.3 -14.4 38.0 <u>Parapet</u> 0.0 psf (GCpn = +1.5) Windward roof Windward parapet = overhangs = 33.6 psf (upward) add to Leeward parapet = 0.0 psf (GCpn = -1.0) windward roof pressur zontal MWFRS Simple Diaphragm Pressures (psf) Transverse direction (normal to L) Interior Zone: Wall -15.4 psf * End Zone: Wall 50.0 psf B/2 or ZONE 2 -25.9 psf ** TRANSVERSE ELEVATION Longitudinal direction (parallel to L) Interior Zone: Wall 33.1 psf LEEWARD ROOF End Zone: Wall 50.0 psf NOTE: Total horiz force shall not be less than that determined neglecting roof forces (except for MWFRS moment frames). L/2 or ZONE 2 he code requires the MWFRS be designed for a min ultimate orce of 16 psf multiplied by the wall area plus an 8 psf force plied to the vertical projection of the roof. LONGITUDINAL ELEVATION





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