

STRUCTURAL GENERAL NOTES

DESIGN AND CODE INFORMATION

1. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE, (2017) EDITION.
2. VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.
3. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS. VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT FOUR COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
4. COMPLETE SHOP DRAWINGS AND CALCULATIONS FOR COMPONENTS NOT DESIGNED BY THE ENGINEER OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FABRICATION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING COMPONENTS:
 - (X) STAIRS
 - (X) HANDRAILS
 - (X) WOOD TRUSSES
 - (X) POST-TENSION SLAB ON GRADE SYSTEM
 - (X) PRECAST WALL PANELS
5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. DEAD LOADS:
 - SELF-WEIGHT OF STRUCTURE
 - APARTMENTS: 15 PSF
 - ROOF: 20 PSF
8. LIVE LOADS:
 - APARTMENTS: 40 PSF (REDUCIBLE PER CODE)
 - STAIRS: 100 PSF
 - ROOFS: 20 PSF (REDUCIBLE PER CODE)
9. ROOF LOADS:
 - GROUND SNOW LOAD: 10 PSF
 - SNOW EXPOSURE C_e: 0
 - SNOW IMPORTANCE I: 1.0
 - THERMAL FACTOR C_t: 1.0
 - FLAT ROOF SNOW LOAD: 10 PSF
10. WIND LOADS:
 - RISK CATEGORY: ULTIMATE WIND SPEED 3-SECOND GUST: 146 MPH V (ULTIMATE)
 - PROJECT IS IN WIND BORNE DEBRIS REGION
 - WIND IMPORTANCE I: 1.0
 - WIND EXPOSURE FACTOR: B
 - INTERNAL PRESSURE COEFFICIENT: .18
 - CLADDING LOAD: SEE CHART
11. SEISMIC LOADS:
 - "NOT REQUIRED" 2012 FLORIDA BUILDING CODE CHAPTER 1, PART 101.2
12. SPECIAL LOADS FOR ITEMS TO BE DESIGNED BY OTHERS:
 - STAIRS: 100 PSF
 - HANDRAILS: 50 PLF
 - VEHICLE BARRIERS: 6,000 POUNDS AT 1" TO 2'-3" ABOVE FLOOR OR RAMP REFER TO ASCT SECTION 4.5.3 FOR ADDITIONAL INFORMATION

SPECIAL INSPECTIONS AND TESTING

1. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET 5002.

FOUNDATION NOTES

1. FOUNDATION DESIGN IS BASED ON A REPORT MADE BY TERRACON DATED 7-12-2019 (REPORT NO. HE195006).
2. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON SHALLOW FOUNDATIONS CAPABLE OF SUPPORTING 3000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SHALLOW FOUNDATIONS OF SUPPORTING 3000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
3. THE BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT A MINIMUM BELOW FINISHED GRADE.
4. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN, THEY SHALL BE PROTECTED FROM RAINFALL. THE EXCAVATIONS SHALL BE UNDERCUTTED TO A 3" THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED ON THE BOTTOM TO PROTECT THE BEARING SOILS.
5. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO DEEPER THAN 1 VERTICAL TO 2 HORIZONTAL UNLESS SHOWN OTHERWISE ON PLANS.
6. THE BUILDING SHALL BE REPAIRED PER "EARTHWORK" SECTION OF THE GEOTECHNICAL REPORT.

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE,' (ACI 318).
2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).
3. MATERIAL PROPERTIES - CONCRETE:

	F'c psi at 28 days	Max. W/C Ratio	Max. Total Air Slump Inches	Nom. Content (±1.5%)	Max. Aggregate Size
1. Cast-in-place concrete					
a. Footings	4,000	0.45	4	No test	2"
b. Slab on grade	4,000	0.45	4		6"
c. Stairs, landings, lobbies	5,000	0.45	4	5	3/4"
d. All other	4,000	0.45	4	5	3/4"
2. Other concrete					
a. NSMS grout	8,000		0	No test	No. 4

*Prior to adding water reducer
 **No slump requirement
 ***After water reducer addition
4. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.
5. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
6. CLEAR CONCRETE COVER FOR REINFORCING STEEL:

	WALLS	2" EXTERIOR FACES
MASONRY WALLS	1/2" INTERIOR FACES	
SLAB ON GRADE	LOCATE IN CENTER OF WALL (U N O)	
FOOTINGS	1/2" TOP STEEL	
	1-1/2" BOTTOM STEEL	
	2" FORMED EDGES	
	3" CAST AGAINST GROUND	

7. CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 2 #5 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.
8. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.
9. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.
10. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

POST-TENSIONED CONCRETE SLABS ON GRADE

1. PRESTRESSING STEEL WILL BE 1/2" DIAMETER 270 KSI SEVEN WIRE STRAND, GREASED WITH PLASTIC SHEATHING (ENCAPSULATED). STRAND SHALL BE IN ACCORDANCE WITH ASTM A416.
2. ALL ANCHORAGE HARDWARE SHALL MEET TEST CRITERIA ESTABLISHED BY THE "PTI GUIDE SPECIFICATIONS OF POST TENSIONING MATERIALS."
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. STRANDS SHALL NOT BE STRESSED TO FINAL REQUIRED FORCE UNTIL CONCRETE STRENGTH IS A MINIMUM OF 2000 PSI.
4. SITE GRADING AND DRAINAGE AROUND THE FOUNDATION SHALL BE MAINTAINED AT ALL TIMES IN SUCH A MANNER THAT SURFACE OR GROUND WATER WILL NOT COLLECT UNDER OR ADJACENT TO THE SLAB.
5. TRENCHES FOR DEEP PLUMBING LINES SHOULD NOT BE LOCATED UNDER BEAMS.
6. THE POST-TENSIONING CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER, FOR REVIEW, DETAILED PRESTRESSING PROCEDURES AND SEQUENCES.
7. TENDONS IN GRADE BEAMS ARE TO BE DESIGNED AS SHOWN IN DRAWINGS.
8. TENDONS IN SLABS-ON-GRADE ARE TO BE DESIGNED IN CENTER OF SLAB UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
9. THE POST-TENSIONING CONTRACTOR SHALL PROVIDE AND INSTALL ALL ADDITIONAL REINFORCING BARS REQUIRED FOR SUPPORT OF TENDONS AND ANCHORAGE.
10. ALL STRAINING BARS SHALL BE SUPPORTED ON CHAIRS NOT TO EXCEED 4 FEET ON CENTER IN EACH WAY.
11. ANCHORS WITH POLYURETHANE GROUTERS MUST BE SECURELY FASTENED TO FORM BOARDS TO PREVENT GROUT PASTE FROM ENTERING INTO WEDGE CANAL. 2-20 D NAILS ARE RECOMMENDED. FIXED ANCHORS SHOULD BE ATTACHED WITH 3/4" CLEARANCE FROM FORM BOARD.
12. STRANDS MUST BE TIED AT ALL INTERSECTIONS STARTING AT FIXED END ANCHORS WORKING TOWARD LIVE END TO REMOVE SLACK AND ELIMINATE EXCESSIVE DISPLACEMENT DURING POUR.
13. ALL ANCHORS SHALL BE INSTALLED A MINIMUM OF 4" BELOW REQUIRED ELEVATION OF CONCRETE AT EDGE OF SLAB AND A MINIMUM OF 6" AWAY FROM ALL CORNERS.
14. IF PLASTIC SLEEVE IS DAMAGED THE STRAND SHOULD BE REPAIRED TO PREVENT BONDING OF CONCRETE TO TENDON.
15. CONCRETE MUST BE WELL CONSOLIDATED AROUND ALL ANCHORS TO AVOID BEARING FAILURES AT STRESSING.
16. TENDONS SHALL BE TEMPORARILY OVERSTRESSED TO 0.8 F_{pu} AND LOCKED OFF AT A STRESS OF 0.7 F_{pu}.
17. CUT TENDONS ONLY AFTER ACCEPTANCE AND APPROVAL OF STRESSING RECORDS BY THE STRUCTURAL ENGINEER.
18. THE EXPOSED PORTION OF THE TENDON AND THE GRIPPING PART OF THE ANCHORAGE SHALL BE COATED WITH AN EPOXY-RESIN COMPOUND BEFORE BEING DRY-PACKED WITH A NON-SHRINK GROUT.
19. STRESSING POCKETS SHOULD BE GROUTED WITHIN 7 DAYS OF THE FINAL STRESSING OPERATION TO PREVENT CORROSION OF THE ANCHOR AND WEDGE ASSEMBLY.
20. IN THE EVENT OF BROKEN TENDONS OR BLOWOUTS, THE POST-TENSIONING TENDON SUPPLIER SHALL SUBMIT FOR APPROVAL TO THE STRUCTURAL ENGINEER DETAILED CALCULATIONS AND PROCEDURES FOR REMEDYING THE PROBLEM.
21. CORING OF SLABS WILL NOT BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. ALL OPENINGS AND/OR SLEEVES MUST BE SHOWN ON THE SHOP DRAWINGS. ANY ADDITIONAL OPENINGS NOT SHOWN ON THE APPROVED DRAWINGS WILL REQUIRE APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC 'MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN' FOURTEENTH EDITION.
2. STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 60 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.
3. STRUCTURAL PIPE COLUMNS SHALL BE ASTM A-53, TYPE E OR S, GRADE B. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.
4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
5. USE DIRECT TENSION INDICATORS AND HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS OR USE LOAD INDICATOR BOLTS.
6. METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.
7. WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAUGE.
8. MISCELLANEOUS ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS.
9. ANCHOR RODS AT COLUMN BASE PLATES SHALL BE ASTM F-1554 GRADE 55. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 16 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION. COLUMN ANCHOR RODS SHALL BE HELD IN PLACE BY TEMPLATES AND POSITIONED PRIOR TO CASTING CONCRETE.
10. FRAMED BEAM CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE REACTION SHOW FOR THE ENDS OF BEAMS ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP ONE HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL.
11. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
12. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OTHER PLY OF A CONNECTION.
13. PAINT ALL STRUCTURAL STEEL THAT DOES NOT RECEIVE SPRAY-ON FIREPROOFING WITH ONE COAT OF FIRE INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY PRIMER AND TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS DONE. CHIP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE FIREPROOFING.
14. STRUCTURAL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SHOP DRAWINGS SHALL INCLUDE NUMBER, BRACING, AND DISTANCE FROM BEAM CENTERLINE OF SHEAR STUDS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL.
15. THE STRUCTURAL DESIGN OF STEEL STAIRS, LANDINGS AND GUARDRAILS INCLUDING EMBEDMENT SHALL BE PERFORMED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. CALCULATIONS AND SHOP DRAWINGS WITH THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL THE SUBMITTAL IS APPROVED. DESIGN LOADS SHALL BE AS SPECIFIED BY THE CONTRACT DOCUMENTS AND/OR THE APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.

WOOD TRUSSES

1. ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:
 - TOP CHORD: 12 PSF DEAD LOAD
 - 20 PSF LIVE LOAD
 - BOTTOM CHORD: 8 PSF DEAD LOAD
2. IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR MECHANICAL EQUIPMENT IN THE TRUSS DESIGN.
3. FLOOR TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:
 - TOP CHORD: 15 PSF DEAD LOAD
 - 40 PSF LIVE LOAD
 - BOTTOM CHORD: 5 PSF DEAD LOAD
4. SEE ARCHITECTURAL DRAWINGS FOR BEARING CONDITIONS AND DIMENSIONS OF TRUSSES.
5. A REGISTERED ENGINEER IN THE PROJECT STATE SHALL DESIGN TRUSSES. SHOP DRAWINGS, INCLUDING INDIVIDUAL TRUSS DESIGNS, PLAN LAYOUT, ALL TEMPORARY BRACING AND PERMANENT TRUSS MEMBER BRACING BEARING THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR REVIEW.
6. TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.
7. UNLESS NOTED OTHERWISE ON DRAWINGS, TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR DESIGNING AND SUPPLYING OR SPECIFYING ALL TEMPORARY BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER BRACING REQUIRED BY DESIGN. ALL TRUSS-TO-TRUSS CONNECTIONS, AND ALL UPLIFT CONNECTIONS AT BEARING LOCATIONS. ALL PERMANENT BRACING OF TRUSS MEMBERS SHALL BE CONTINUOUS AND BE ATTACHED TO AN END WALL STUD OR HIP TRUSS TOP CHORD WITH 2 #16 COMMON NAILS.

LUMBER FRAMING

1. ALL NON-PREFABRICATED LOAD BEARING FRAMING MEMBERS SHALL BE #2 SOUTHERN YELLOW PINE 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED.
2. STUDS IN LOAD BEARING WALLS MAY BE DOUGLAS FIR, SOUTHERN YELLOW PINE OR SPRUCE (#2 OR CONSTRUCTION GRADE), UNLESS NOTED OTHERWISE.
3. ALL PLYWOOD SHEATHING SHALL BE APA RATED, SEE PLAN.
4. THE ALLOWABLE STRESSES FOR FIRE RETARDANT TREATED LUMBER SHALL BE REDUCED 10%.
5. LVL AND PSL LUMBER SHALL BE MICROLAM OR PARALLAM LUMBER AS MANUFACTURED BY TRUS JOIST.
6. WOOD I-JOISTS SHALL BE TJPRO SERIES AS MANUFACTURED BY TRUS JOIST.

POST-INSTALLED ANCHORS

1. UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE AND SEISMIC APPLICATIONS.
2. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE BY THE ENGINEER.
3. PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR AND EMBEDS.
4. DRILL AND PREPARE HOLES AND INSTALL ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS.
5. POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR IN ACCORDANCE WITH THE PROJECT STATEMENT OF SPECIAL INSPECTION AND THE ICC-ES REPORT.
 - UNLESS OTHERWISE NOTED IN THE ICC-ES REPORT, THE SPECIAL INSPECTOR SHALL INSPECT THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR AND PERIODICALLY INSPECT INSTALLATION THEREAFTER.
6. MECHANICAL ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC308. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:
 - HILTI KWIK BOLT TZ (ICC-ES ESR 1917)
 - HILTI KWIK HUS-EZ (ICC-ES ESR 1027)
 - SIMPSON STRONG-TIE STRONG-TIE (ICC-ES ESR 3037)
 - SIMPSON STRONG-TIE TITE-BOLT (ICC-ES ESR 2027)
7. ADHESIVE ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308. ADHESIVE ANCHORS SHALL BE INSTALLED INTO DRY HOLES DRILLED USING A CARTRIDGE DRILL BIT THAT HAS BEEN PROVED FOR AT LEAST 21 DAYS. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:
 - HILTI HIT-HY 70 (ICC-ES ESR 2322)
 - HILTI HIT-H200 (ICC-ES ESR 3187) AND HAS STANDARD RODS SIMPSON STRONG-TIE SET-XP (ICC-ES ESR 2508)
8. MECHANICAL ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC01. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY INCLUDE THE FOLLOWING:
 - HILTI KWIK BOLT 3 (ICC-ES ESR 1385)
 - SIMPSON STRONG-TIE WEDGE-ALL (ICC-ES ESR 1396)
9. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY INCLUDE THE FOLLOWING:
 - HILTI HIT-HY 70 (ICC-ES ESR 3342)
 - SIMPSON STRONG-TIE SET-XP (APMO UES ER 265)

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CLIENT NAME
HUTTON DEVELOPMENT

PROJECT NAME
ROCKLEDGE FLATS - BUILDING "A"
220 Barton Boulevard
Rockledge, FL 32955

SHEET TITLE
GENERAL NOTES

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