GENERAL STRUCTURAL NOTES

GENERAL: DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT AS OTHERWISE INDICATED. ADAPT REQUIREMENTS OF DETAILS, SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

CODE REQUIREMENTS: THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2017 6th EDITION OF THE FLORIDA BUILDING CODE. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. ADDITIONS ARE IN COMPLIANCE WITH THE 2017 EDITION OF THE FLORIDA EXISTING BUILDING CODE.

TEMPORARY CONDITIONS: THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION ONLY.

EXISTING CONDITIONS: ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

CONTRACTOR TO LOCATE ALL BURIED UTILITY PIPES PRIOR TO THE EXCAVATION FOR THE BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN THE FOUNDATIONS AND THE BURIED UTILITY PIPES.

EXISTING STRUCTURE: INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS ENTITLED: JOIST PLANT, DATED: SEPTEMBER 14, 2004. WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

EXERCISE EXTREME CARE AND CAUTION WHEN EXCAVATING AND FILLING ADJACENT TO EXISTING STRUCTURES. UNDER NO CIRCUMSTANCES SHALL THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES BE IMPAIRED IN ANY WAY BY CONSTRUCTION OPERATIONS AND PROCEDURES. DO NOT EXCAVATE OR DISTURB SOIL ADJACENT TO OR BENEATH EXISTING FOOTINGS.

ASSUMED FUTURE CONSTRUCTION:
VERTICAL: NONE
HORIZONTAL: NONE

DESIGN CRITERIA: DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2017 FLORIDA BUILDING CODE. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS REDUCED PER THE 2017 FBC:

ROOF:	20 PSF LL	13 PSF SDL
WIND SPEED	120 MPH	PER CHAPTER 26 ASCE 7-10
	93 MPH	NOMINAL
RISK CATEGORY	II	
EXPOSURE	C	
INTERNAL PRESSURE COEFF	0.0	OPEN BUILDING

FOUNDATIONS: FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF FOR SILTY SAND AND GRAVELS. FOUNDATIONS SHALL BEAR ON COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL. IF QUESTIONABLE SOILS OR POTENTIALLY UNSTABLE CONDITIONS ARE ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO INVESTIGATE AND PROVIDE RECOMMENDATIONS.

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING:

CONCRETE MIX DESIGNS,
CONCRETE AND MASONRY REINFORCING,
EMBEDDED STEEL ITEMS,
STRUCTURAL STEEL,
STEEL DECK.

SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER.

DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS, INCLUDING:

STEEL JOISTS AND JOIST GIRDERS,
STRUCTURAL STEEL CONNECTIONS,

SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON THE STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE 2017 FBC.

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW.

CONCRETE: REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

f'c	USE
3000 PSI	ALL USES

CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE, IF USED, SHALL CONFORM TO ASTM C494 AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE. WHERE INDICATED OR REQUIRED, SLOPE CONCRETE SLABS TO DRAINS SHOWN ON PLUMBING AND/OR ARCHITECTURAL DRAWINGS.

ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP-66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

FOOTINGS 3" BOTTOM AND SIDES, 2" TOP

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS. SHOW ALL SPLICES ON SHOP DRAWINGS. SPLICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

CONCRETE ACCESSORIES: HEADED SHEAR STUDS SHALL BE NELSON HEADED ANCHORS WITH FLUXED ENDS OR APPROVED EQUAL. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON, TYPE D2L, OR APPROVED. STUDS AND DBA SHALL BE AUTOMATICALLY END WELDED WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THEIR RECOMMENDATIONS. HAND WELDING NOT PERMITTED.

PERMANENTLY EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. ACCURATELY POSITION, SUPPORT, AND SECURE EMBEDDED ITEMS AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. SECURELY ATTACH EMBEDDED ITEMS TO FORMWORK PRIOR TO START OF CONCRETE PLACEMENT. "WET-STICKING" OF EMBEDDED ITEMS IS PROHIBITED. NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR A MINIMUM OF 7 DAYS AFTER CASTING.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHOULD BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE.

ADHESIVE ANCHORS: ADHESIVE ANCHORS (EPOXY STYLE) SHALL HAVE THE ICC ES EVALUATION REPORT INDICATING CONFORMANCE WITH CURRENT APPLICABLE ICC ES ACCEPTANCE CRITERIA. ADHESIVE SHALL BE MOISTURE INSENSITIVE, ALLOWING INSTALLATIONS IN DAMP OR WATER-FILLED HOLES. ADHESIVE SHALL HAVE A FULL-CURE LOAD OF 2 HOURS OR LESS AT 70°F.

ACCEPTABLE ADHESIVE IN FOUNDATIONS, SLAB ON GRADE, COLUMNS AND WALLS ARE HILTI HY-200 OR POWERS AC100+ GOLD; IN BEAMS AND ELEVATED SLABS ARE HILTI RE500 OR POWERS PE1000+.

THREADED STUDS SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. PERMANENTLY EXPOSED STUDS SHALL BE STAINLESS STEEL. NUTS AND WASHERS SHALL CONFORM TO SAME SPECIFICATION AS THE SUPPLIED ANCHOR RODS.

INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S PRINTED LITERATURE. INSTALLATION SHALL ALSO INCLUDE BRUSHING AND CLEANING OF DRILLED HOLES WITH COMPRESSED AIR AS INSTRUCTED. INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER'S REPRESENTATIVE. EMBEDMENT SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS.

IDENTIFY POSITION OF REINFORCING STEEL AND OTHER EMBEDDED ITEMS PRIOR TO DRILLING HOLES FOR ANCHORS. EXERCISE CARE IN CORING OR DRILLING TO AVOID DAMAGING EXISTING REINFORCING OR EMBEDDED ITEMS. NOTIFY THE ENGINEER IF REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED DURING DRILLING.

STRUCTURAL STEEL: STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

CHANNELS, PLATES AND ANGLES	ASTM A36.
RECTANGULAR AND SQUARE TUBES	ASTM A500 GRADE B (Fy = 46KSI).

DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

BOLTS SHALL CONFORM TO THE ASTM SPECIFICATION FOR A325 OR A490, HIGH STRENGTH BOLTS.

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS. PREQUALIFIED WELDING PROCEDURES ARE TO BE USED, UNLESS AWS QUALIFICATION IS SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.

STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZING IS INDICATED ON THE DRAWINGS.

ALL BOLTED CONNECTIONS SHALL CONSIST OF MINIMUM 3/4 INCH DIAMETER ASTM A325 HIGH STRENGTH BOLTS. BEAM CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE REACTIONS SHOWN ON THE PLANS. IF NOT SHOWN, THE FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS TO SUPPORT AN END REACTION OF 1/2 THE ALLOWABLE UNIFORM LOAD CAPACITY WITH A MINIMUM OF 2 BOLTS.

ANCHOR RODS: UNLESS INDICATED OTHERWISE ON THE DRAWINGS, ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 AND THE SIZE SHALL BE 3/4 DIA. AND SHALL EMBED INTO THE CONCRETE FOUNDATION A DISTANCE OF 1'-0" WITH A HEAVY HEX NUT AT THE EMBEDDED END.

STEEL JOISTS: STEEL JOISTS SHALL BE THE SIZE AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE DESIGNED, FABRICATED, INSTALLED AND BRIDGED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. ENDS OF ALL BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. BRIDGING SHALL BE WELDED OR BOLTED AT ALL POINTS OF CONTACT. WELDS SHALL NOT DAMAGE THE JOIST. CROSS BRIDGING SHALL BE WELDED OR BOLTED AT ITS CENTER POINT. IN ADDITION TO THE STANDARD SJI BOTTOM CHORD BRIDGING, WHICH INCLUDES THE FIRST END PANELS, THE JOIST MANUFACTURER SHALL PROVIDE DESIGN CALCULATIONS FOR UPLIFT, EITHER CONFIRMING THE SJI BRIDGING REQUIREMENT OR PROVIDING A DESIGN ADEQUATE FOR THE UPLIFT.

JOIST SIZES INDICATED ON PLANS ARE FOR STANDARD UNIFORM LOADING CONDITIONS INCLUDING DEAD, LIVE, AND POSITIVE WIND PRESSURES. JOISTS SHALL BE DESIGNED FOR ALL ADDITIONAL LOADS FROM ROOF TOP MECHANICAL UNITS, SUSPENDED EQUIPMENT, SUSPENDED WALL LOADS, OR AS INDICATED ON PLANS. JOISTS SHALL BE SPECIFICALLY DESIGNED FOR WIND UPLIFT.

STEEL JOISTS SHALL BE DESIGNED TO WITHSTAND THE FOLLOWING LOADS:
65 PLF DEAD LOAD
100 PLF LIVE LOAD
200 LB POINT LOAD AT ANY LOCATION
NEGATIVE WIND PRESSURES IN ACCORDANCE WITH COMPONENT AND CLADDING DIAGRAM USING 2 PSF DEAD LOAD FOR NET UPLIFT FORCE
ANY ADDITIONAL LOADS AS INDICATED ON PLANS

SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF FLORIDA, SUBSTANTIATING ALL STRENGTH, BRIDGING, AND SERVICEABILITY CRITERIA.

JOISTS SHALL BEAR 2½" MINIMUM ON STEEL. WELD JOISTS TO BEARING PLATES WITH A MINIMUM OF (2) 1/8 x 2" FILLET WELDS FOR K SERIES JOISTS, UNLESS NOTED OTHERWISE. AT COLUMNS BOLTED CONNECTIONS SHALL BE PROVIDED AS REQUIRED FOR ERECTION.

STEEL JOIST GIRDERS: SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR JOIST GIRDERS AS PUBLISHED BY THE STEEL JOIST INSTITUTE (SJI). JOIST GIRDERS SHALL BE OF THE DEPTH AND SPACING SHOWN ON THE STRUCTURAL DRAWINGS, AND UNLESS OTHERWISE NOTED, JOIST GIRDERS SHALL BE DESIGNED AS SIMPLY SUPPORTED PRIMARY MEMBERS PROPORTIONED SUCH THAT THEY MAY BE ERECTED WITHOUT BRIDGING. JOIST GIRDER PANEL POINTS SHALL BE ALIGNED WITH SECONDARY MEMBERS.

GIRDER DESIGNATIONS INDICATE PANEL POINT JOIST REACTIONS DUE TO UNIFORM LOAD CONDITIONS ONLY. ALL ADDITIONAL LOADS DUE TO ROOF TOP MECHANICAL UNITS, SUSPENDED EQUIPMENT, SUSPENDED WALL LOADS, ETC., WHERE APPLICABLE SHALL BE CONSIDERED FOR JOIST GIRDER DESIGN.

CONNECTION TO THE BEARING PLATE SHALL BE DESIGNED TO RESIST ALL UPLIFT AND SHEAR LOADS WITH A MINIMUM OF (2) ¼" x 3" FILLET WELDS.

SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF FLORIDA, SUBSTANTIATING ALL STRENGTH, BRIDGING, AND SERVICEABILITY CRITERIA.

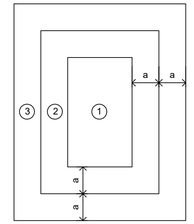
STEEL ROOF DECK: STEEL ROOF DECK SHALL BE GALVANIZED AND CONFORM TO ASTM A653, STRUCTURAL QUALITY. THE GALVANIZED COATING SHALL CONFORM TO ASTM A653 G90. ATTACHMENTS, CLOSURES ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

DECK WELDING SHALL BE 5/8" EFFECTIVE DIAMETER PUDDLE WELDS AT 12"O.C. AT TRANSVERSE AND PERIMETER SUPPORTS, 16" O.C. AT LONGITUDINAL SUPPORTS, AND MECHANICALLY FASTEN SIDE LAP CONNECTIONS USING #10 SELF TAPPING SCREW AT 16" O.C. UNLESS NOTED OTHERWISE ON THE DRAWINGS.

ALLOWABLE WIND PRESSURES (PSF)				
ZONE			TRIBUTARY AREA	
			≤100 SF	>100SF; ≤400SF	400SF >
ROOF	INTERIOR	1	18 / -17	18 / -17	18 / -17
	EDGE	2	28 / -27	28 / -27	18 / -17
	CORNER	3	37 / -52	28 / -27	18 / -17

(1) GENERAL UPLIFT ZONE
(2) END UPLIFT ZONE
(3) CORNER UPLIFT ZONE

NOTES:
1. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACE
2. EDGE DISTANCE 'a' = 10.0'



SELECT STRUCTURAL
12573 New Brittany Blvd
Fort Myers, Florida 33907
Phone: (239) 210-5090
Project No.: 19271
Certification Auth. 28357

SELECT STRUCTURAL

SHAWN R. ANDERSON LICENSE No. 53515 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/02/2020

Project Title:
NEW MILLENNIUM DRYING AREA
LAKE CITY, FLORIDA

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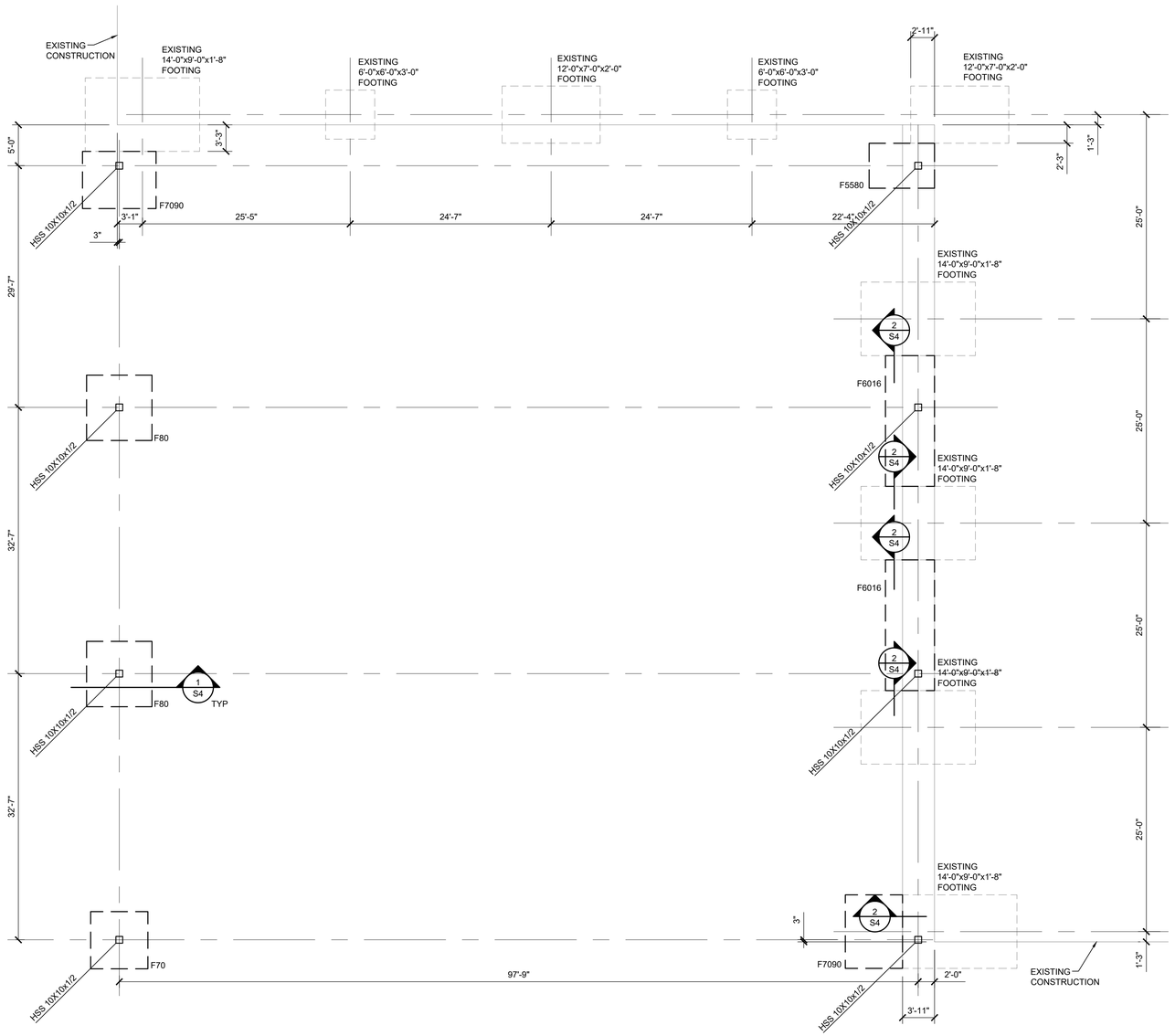
ISSUED DATE: 5-22-2019
DRAWN BY: MM
CHECKED BY: SL
SCALE:
JOB NO.:

Sheet Title:
GENERAL NOTES AND WIND LOADS

SHEET NUMBER
S1



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. SEE SHEET S1 FOR GENERAL STRUCTURAL NOTES.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. VERIFY / COORDINATE LOCATION OF UNDERGROUND PIPING WITH FOUNDATION.
4. FX INDICATES FOOTING TYPE, SEE SCHEDULE THIS SHEET.
5. TOP OF FOOTING IS (-)1'-0" U.N.O.

CONCRETE FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING
F70	7'-0" x 7'-0"	2'-2"	(8) #6 EACH WAY TOP AND BOTTOM
F80	8'-0" x 8'-0"	2'-6"	(9) #6 EACH WAY TOP AND BOTTOM
F7090	7'-0" x 9'-0"	1'-8"	(10) #6 EACH WAY TOP AND BOTTOM
F5580	5'-6" x 8'-0"	2'-0"	(10) #6 EACH WAY TOP AND BOTTOM
F6016	6'-0" x 16'-0"	1'-8"	(10) #6 EACH WAY TOP AND BOTTOM LONG (20) #6 EACH WAY TOP AND BOTTOM SHORT

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ISSUED DATE: 5-22-2019
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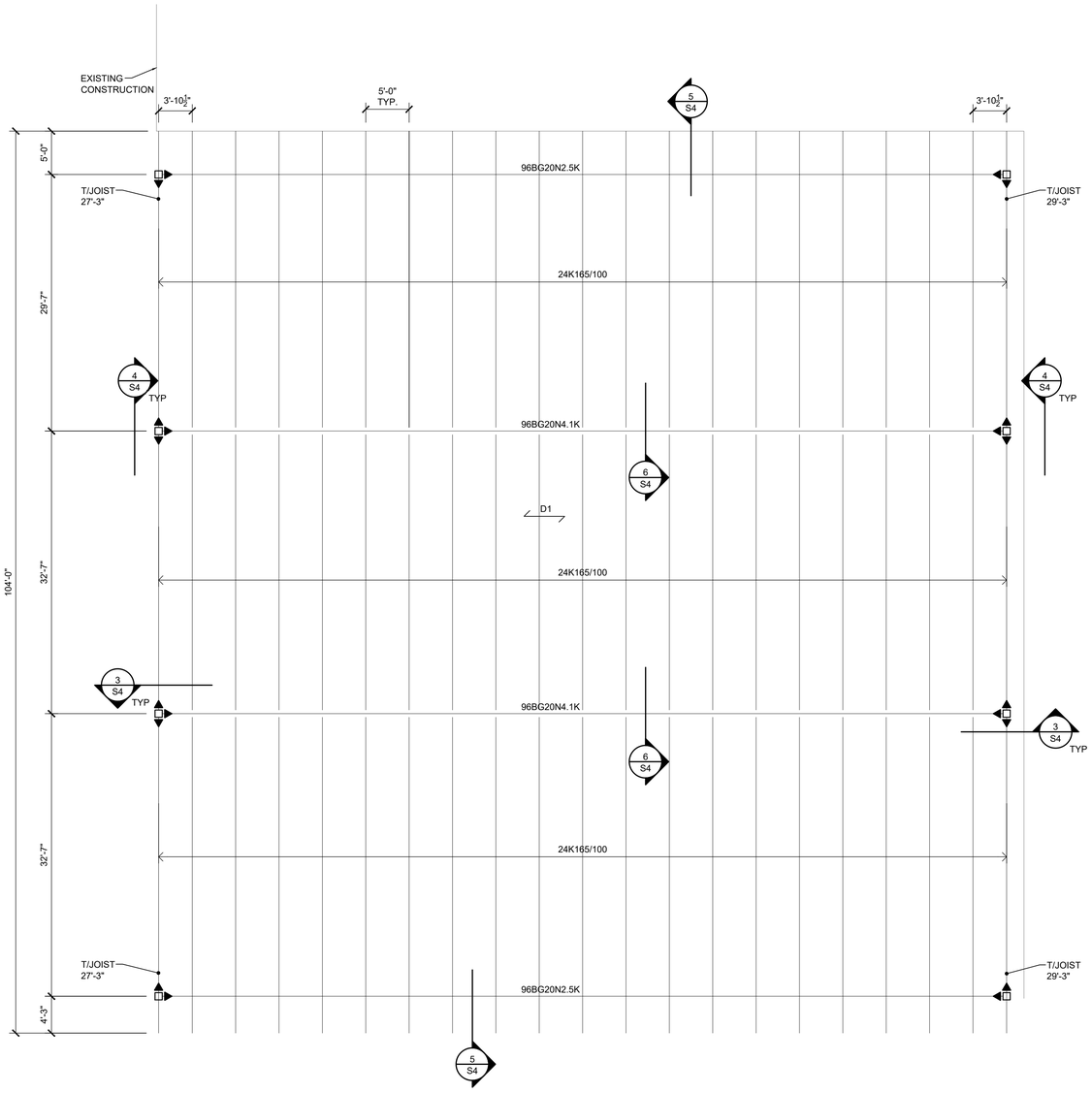
Sheet Title:
FOUNDATION PLAN

SHEET NUMBER
S2



FRAMING PLAN
SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. D-1 — INDICATES SPAN DIRECTION OF 1 1/2" x 20 GA TYPE "B" ROOF DECK W/ #12 SELF TAPPING SCREW IN 36/4 PATTERN W/ (3) #10 TEK SCREW SIDELAP FASTENERS PER SPAN.
2. SEE COMPONENTS AND CLADDING WIND PRESSURE SHEET S1 FOR NET UPLIFT FOR JOIST DESIGN. JOIST MANUFACTURER SHALL PROVIDE ADEQUATE BOTTOM CHORD BRACING FOR JOIST TO RESIST UPLIFT FORCES.
3. JOIST MANUFACTURER SHALL SHOW IN THE SHOP DRAWINGS AND FURNISH BRIDGING IN ACCORDANCE WITH HIS DESIGN AND SJI SPECIFICATIONS. PROVIDE ADDITIONAL UPLIFT BRIDGING AT FIRST BOTTOM CHORD PANEL POINTS THROUGHOUT.
4. ▶ INDICATES MOMENT CONNECTION. JOIST GIRDERS TO BE DESIGNED FOR M = 25 FT-K, M = 10 FT-K. STEEL JOISTS TO BE DESIGNED FOR M = 11 FT-K, M = 9 FT-K. THESE ARE UNFACTORED LOADS. WIND LOADS IS NOMINAL, NOT UNLIMATE.

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LAKE CITY, FLORIDA

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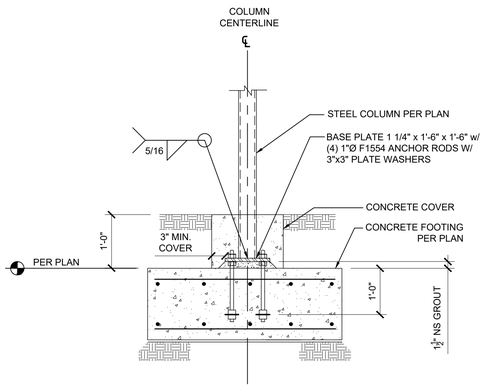
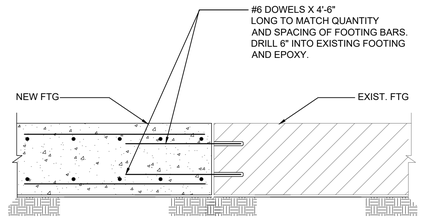
ISSUED DATE: 5-22-2019
DRAWN BY: MM
CHECKED BY: SL
SCALE:
JOB NO.:

Sheet Title:
FRAMING PLAN

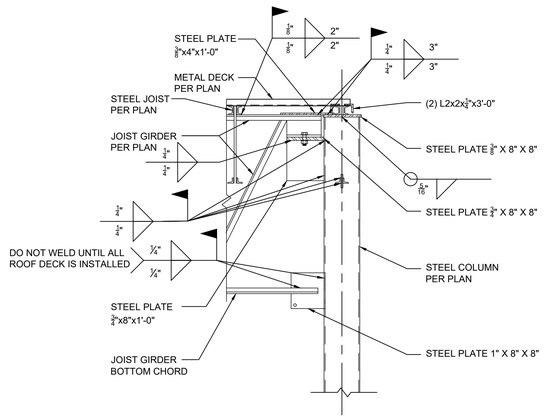
SHEET NUMBER
S3



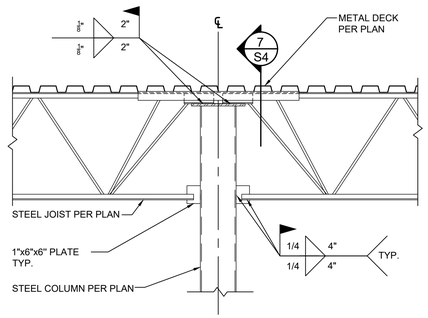
1 STEEL COLUMN FOOTING DETAIL
SCALE: 3/4" = 1'-0"



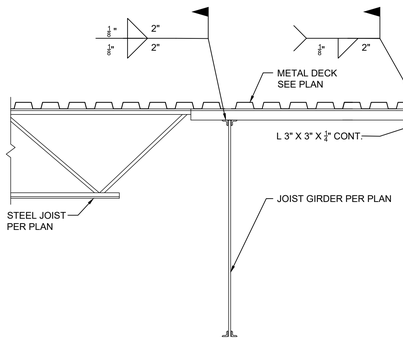
2 DOWEL TO EXISTING FOOTING DETAIL
SCALE: 3/4" = 1'-0"



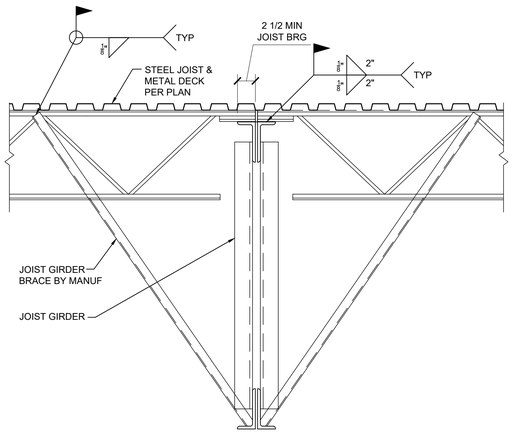
3 JOIST ATTACHMENT DETAIL
SCALE: ¾" = 1'-0"



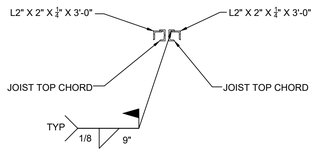
4 JOISTS TO STEEL COLUMN DETAIL
SCALE: ¾" = 1'-0"



5 JOIST GIRDER DETAIL
SCALE: ¾" = 1'-0"



6 JOIST TO GIRDER DETAIL
SCALE: ¾" = 1'-0"



7 JOIST TO GIRDER DETAIL
SCALE: ¾" = 1'-0"

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STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/02/2020

Project Title:
NEW MILLENNIUM DRYING AREA
LAKE CITY, FLORIDA

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ISSUED DATE: 5-22-2019
DRAWN BY: MM
CHECKED BY: SL
SCALE:
JOB NO.:

Sheet Title:
DETAILS

SHEET NUMBER
S4