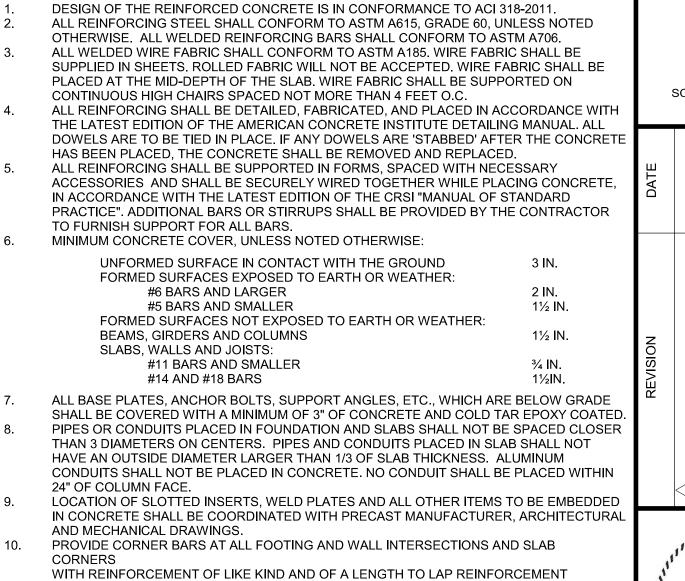
	GENERAL NOTES CONT.	STRUCTURAL STEEL NOTES	CONCRETE REINFORCING STEEL
ABBREVIATIONS (NOTE: NOT ALL ABBREVIATIONS USED)	10. REFERENCE TO VARIOUS STANDARDS, TESTS, AND CODES (ASTM, AISC, UL, IFC, ETC.) SHALL BE TAKEN TO MEAN THE LATEST ADOPTED STANDARD OR EDITION AS OF THE DATE OF	1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES: ALL CHANNELS, ANGLES, PLATES, ETC. (U.N.O.) A36	 DESIGN OF THE REINFORCED CONCRE ALL REINFORCING STEEL SHALL CONF OTHERWISE. ALL WELDED REINFORCI
A.B.ANCHOR BOLTG.B.GRADE BEAMSP.J.PANEL JOINTADJ.ADJACENTGA.GAGEPAFPOWER ACTUATED	THE DRAWINGS. 11. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS	ALL WIDE FLANGES (U.N.O.)A992 (FY=50 KSI)STRUCTURAL TUBEA500, GRADE C (FY=50 KSI)STEEL PIPEA53 (FY=35 KSI)	3. ALL WELDED WIRE FABRIC SHALL CON SUPPLIED IN SHEETS. ROLLED FABRIC
A.B.R.ABGAGEINTGALGALFAILFOWER AGTOATEDA.F.F.ABOVE FINISHED FLOORGALV.GALVANIZEDFASTENERARCH.ARCHITECTURALH.HORIZONTALPEMBPRE-ENGINEERED METALB.F.F.BELOW FINISHED FLOORHORIZ.HORIZONTALBUILDING	EXISTING AND PROPOSED PRIOR TO START OF CONTRACT AND FABRICATION. 12. DESIGN IS BASED ON THE MEMBER SIZES AND DIMENSIONS SHOWN. CONTRACTOR SHALL	ANCHOR RODS F1554, GRADE 55, SUPP. 1 BOLTS F3125 Grade A325-N (U.N.O.) WELD ELECTRODES E70XX	 PLACED AT THE MID-DEPTH OF THE SL CONTINUOUS HIGH CHAIRS SPACED N 4. ALL REINFORCING SHALL BE DETAILED
B.O.D.BOTTOM OF DECKHSSHOLLOW STRUCTURAL STEELPCFPOUNDS PER CUBIC FOOTB.O.S.BOTTOM OF STEELH.S.A.HEADED STUD ANCHORPLPLATE	NOTIFY THE ENGINEER OF RECORD IF EXISTING MEMBER SIZES AND EXISTING DIMENSIONS ARE NOT THE SAME AS THOSE SHOWN.	2. THE DESIGN OF STRUCTURAL STEEL IS BASED ON THE AISC MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRENGTH DESIGN.	THE LATEST EDITION OF THE AMERICA DOWELS ARE TO BE TIED IN PLACE. IF HAS BEEN PLACED, THE CONCRETE S
BLDG.BUILDINGINSUL.INSULATIONPLFPOUNDS PER LINEAR FOOTB0T.BOTTOMINT.INTERIORPSFPOUNDS PER SQUARE FOOTBTWNBETWEENJ.B.JOIST BEARINGPSIPOUNDS PER SQUARE INCH	13. CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWING WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND/OR ENGINEER.	3. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (2016 EDITION), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.	5. ALL REINFORCING SHALL BE SUPPORT ACCESSORIES AND SHALL BE SECURI IN ACCORDANCE WITH THE LATEST EE
C.J.CONSTRUCTION JOINTJT.JOINTQTY.QUANTITYCLCENTERLINEKKIPSRE:REFRCLR.CLEARKSFKIPS PER SQUARE FOOTREINF.REINFORCEMENT	14. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS.	4. ALL STRUCTURAL STEEL SHALL BE CLEANED OF OIL, GREASE, DIRT, RUST, LOOSE MILL SCALE, ETC. AND ALL OTHER	PRACTICE". ADDITIONAL BARS OR STIF TO FURNISH SUPPORT FOR ALL BARS.
CMU CONCRETE MASONRY UNIT KSI KIPS PER SQUARE INCH REQ'D REQUIRED COL. COLUMN LBS POUNDS S.C. SAWCUT CONC. CONCRETE LGST LIGHT GAGE STEEL TRUSS SCHED. SCHEDULE	15. DEFERRED SUBMITTALS OF PRE-ENGINEERED SYSTEM DESIGN IS ANTICIPATED AND SHALL INCLUDE SHOP DRAWINGS AND CALCULATIONS SIGNED BY AN ENGINEER REGISTERED IN	FOREIGN MATERIALS AND SHALL BE HOT DIPPED GALVANIZED WITH FINISH OF 3.9 MILL MINIMUM THICKNESS. GALVANIZING SHALL BE DONE IN ACCORDANCE WITH ASTM A123/A. ALL BOLTS SHALL BE HOT DIPPED GALVANIZED OR 304 STAINLESS STEEL WHERE ONE OR MORE MEMBERS ARE GALVANIZED. PROVIDE ALL REQUIRED VENTING HOLES FOR HOT-DIP	UNFORMED SURFACE IN CONT FORMED SURFACES EXPOSED
CONN.CONNECTIONLLLIVE LOADSECT.SECTIONCONT.CONTINUOUSLLHLONG LEG HORIZONTALSHT.SHEET	THE STATE WHERE THE BUILDING IS LOCATED. THESE SUBMITTALS SHALL FIRST BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW AND COORDINATION. FOLLOWING THE COMPLETION OF THE REVIEW AND COORDINATION BY THE ARCHITECT AND ENGINEER OF	 GALVANIZING PROCESS. ALL STEEL EMBEDDED IN CONCRETE SHALL BE COAL TAR EPOXY COATED. ALL WELDING SHALL BE PREFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS LATEST 	#6 BARS AND LARGER #5 BARS AND SMALLER FORMED SURFACES NOT EXPO
D.B.DECK BEARINGLLVLONG LEG VERTICALSIM.SIMILARD.B.A.DEFORMING BAR ANCHORLONG.LONGITUDINALSTD.STANDARDDIA.DIAMETERL.W.LIGHT WEIGHTT&BTOP AND BOTTOM	RECORD, A SUBMITTAL MAY THEN BE MADE TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL, WHICH SHALL INCLUDE A LETTER STATING THAT THE REVIEW AND COORDINATION HAS BEEN PERFORMED AND COMPLETED AND PLANS AND CALCULATIONS FOR THE DEFERRED	EDITIONS. WELDING SHALL BE INSPECTED AND TESTED AS NOTED IN THE SPECIFICATIONS. FIELD WELDING WILL BE PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS. COLD GALVANIZE ALL FIELD WELDS.	BEAMS, GIRDERS AND COLUMI SLABS, WALLS AND JOISTS:
DTLDETAILMANUF.MANUFACTURERT.O.F.TOP OF FOOTINGEA.EACHMATL.MATERIALT.O.G.B.TOP OF GRADE BEAME.F.EACH FACEMAX.MAXIMUMT.O.P.TOP OF PEDESTAL	ITEMS ARE FOUND TO BE ACCEPTABLE. DEFERRED SUBMITTALS ARE REQUIRED FORT, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING ASSEMBLIES:	6. STRUCTURAL STEEL CONTRACTOR SHALL VERIFYING ALL EXISTING, AND PROPOSED DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS PRIOR TO FABRICATION. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED	#11 BARS AND SMALLE #14 AND #18 BARS 7. ALL BASE PLATES, ANCHOR BOLTS, SU
E.W.EACH WAYMECH.MECHANICALT.O.S.TOP OF STEELELEV.ELEVATIONMID.MIDDLET.O.W.TOP OF WALLEX.EXISTINGMIN.MINIMUMTYP.TYPICAL	A)PRE-ENGINEERED METAL BUILDING B)SELF-SUPPORTING STEEL STAIR FRAMING AND RAILINGS	AND WILL PROVIDE THE CONTRACTOR WITH CORRECT ELEVATIONS AND DIMENSIONS. 7. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE	SHALL BE COVERED WITH A MINIMÚM 8. PIPES OR CONDUITS PLACED IN FOUN
EXP.EXPANSIONMISC.MISCELLANEOUSU.N.O.UNLESS NOTED OTHERWISEF.F.E.FINISH FLOOR ELEVATIONS NSNEAR SIDEV.VERTICAL	C) STEEL JOIST D) INTERIOR DRYER BUILDING STEEL PLATFORMS E) SCREW CONVEYOR SUPPORTS	NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS. FINAL BOLTING OR WELDING SHALL NOT BE PERFORMED UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED.	THAN 3 DIAMETERS ON CENTERS. PIP HAVE AN OUTSIDE DIAMETER LARGER CONDUITS SHALL NOT BE PLACED IN C
FND.FOUNDATIONN.T.S.NOT TO SCALEVERT.VERTICALFSFAR SIDEO.C.ON CENTERW.W.R.WELDED WIREFTG.FOOTINGOPP.HDOPPOSITE HANDW/REINFORCEMENT	16. ANY AND ALL REFERENCES IN THESE PLANS AND SPECIFICATIONS (CONSTRUCTION DOCUMENTS) TO BRANDED PRODUCTS. PROCEDURES OR PATENTED PROCESSES ARE ASSUMED	8. THE TEMPORARY BRACES FOR THE STEEL ERECTION SHALL BE DESIGNED FOR LATERAL LOADS AS REQUIRED BY THE LOCAL OR NATIONAL BUILDING CODES FOR LOADS BEING TRANSMITTED TO THE STEEL FRAME FROM THE PARTIALLY COMPLETED BUILDING AND CLADDING.	24" OF COLUMN FACE. 9. LOCATION OF SLOTTED INSERTS, WEL IN CONCRETE SHALL BE COORDINATE
. WITH	TO CARRY AN IMPLIED STATEMENT OF "OR APPROVED EQUAL" UNLESS SPECIFICALLY NOTED OTHERWISE WITH "NO SUBSTITUTIONS PERMITTED."	9. CONTRACTOR SHALL COMPLY WITH THE OSHA SAFETY STANDARDS FOR STEEL ERECTION FOR THE ERECTION OF THE BUILDING FRAME.	AND MECHANICAL DRAWINGS. 10. PROVIDE CORNER BARS AT ALL FOOTI CORNERS
SYMBOLS	EARTHWORK, FOUNDATION & SLAB-ON-GRADE NOTES 1. FOUNDATION DESIGN IS BASED ON SOILS INVESTIGATION AND REPORT BY GTS, INC.,	10. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL.	WITH REINFORCEMENT OF LIKE KIND A ACCORDING TO TABLE BELOW. 11. ALL LAP SPLICES SHALL BE IN ACCORD
≥ @ AT # NUMBER ♀ CENTER LINE X/SY.Y SECTION "X" ON SHEET "SY.Y"	DATED DEC. 7, 2023, PREPARED FOR HAWKINS-WEIR ENGINEERS, GTS PROJECT NUMBER: 23-15123.	11. THE MINIMUM PLATE THICKNESS SHALL BE 1/4", THE MINIMUM BOLT DIAMETER SHALL BE 3/4", THE MINIMUM WELD SHALL HAVE A 3/16" THICK THROAT CONTINUOUS AND THE MINIMUM CONNECTION SHALL BE TWO BOLTS, U.N.O.	NOTED OTHERWISE. WHERE CLASSES "B" SPLICES.
S STRUCTURAL LINE & CHANNEL BACK OF CHANNEL	 THE BUILDING PAD AND SUBGRADE PREPARATION SHALL BE CONSTRUCTED AS REQUIRED IN THE GEOTECHNICAL REPORT AND AS NOTED AND DETAILED ON THE DRAWINGS. 	12. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL OF ENGINEER OF RECORD.	TENSION SPLICE
STRUCTURAL DESIGN DATA	 THE SHALLOW FOUNDATIONS MAY BEAR ON APPROVED NATURAL SOILS OR CONTROLLED FILL AFTER COMPLETE REMOVAL AND REPLACEMENT OF TOP 3.5 FEET AND ALL UNSUITABLE SUBGRADE, UNCONTROLLED FILL MATERIAL, AND ANY 	13. ALL COLUMN BEARING PLATES SHALL HAVE ROLLED OR GAS CUT EDGES. MINIMUM EDGE DISTANCE TO CENTER OF BOLT HOLE, SPACING OF HOLES, AND SIZES OF HOLES SHALL BE AS PER AISC MANUAL UNLESS NOTED OTHERWISE.	
THE STRUCTURE WAS PREPARED USING THE FOLLOWING DATA:	UNDERGROUND STRUCTURES OUT TO 5 FEET OUTSIDE THE BUILDING FOOTPRINT. SHALLOW FOUNDATION CONSTRUCTED IN THIS MANNER WILL HAVE NET ALLOWABLE BEARING 2,000 PSF FOR CONTINUOUS FOOTINGS AND 2,500 PSF FOR ISOLATED	14. PER THE AISC MANUAL THE STEEL CONSTRUCTION, ANCHOR ROD HOLES IN BASE PLATES AND WASHERS SHALL BE THE FOLLOWING U.N.O.:	
BUILDING CODE: 2021 ARKANSAS FIRE PREVENTION CODE (AFPC) 2021 IBC	FOOTINGS. 4. GTS, INC. SHALL BE RETAINED FOR CONSTRUCTION OBSERVATION AND CONSTRUCTION	ANCHOR ROD Ø MAX. HOLE SIZE IN BASE PL WASHER SIZE MIN. WASHER THICK. MAX HOLE SIZE IN WASHER ¾" 1-5/16" 2" 1/4" 13/16" 1" 1-13/16" 3" 3/8" 1-1/16"	#3 10 21 #4 21 28
역 GRAVITY LOADS (REFERENCE: ASCE 7-16) DEAD LOADS: 양 ROOF DEAD LOAD STRUCTURAL AND BLDG. SELF-WEIGHT PLUS	MATERIALS TESTING. CLOSE MONITORING OF SUBGRADE PREPARATION WORK IS CONSIDERED CRITICAL TO ACHIEVE FOUNDATION AND SUBGRADE PERFORMANCE. 5. WHEN SUITABLE SUBGRADE IS REACHED THE CONTRACTOR SHALL SCARIFY THE TOP 9".	1¼" 2-1/16" 3" 1/2" 1-5/16"	#5 27 35 #6 35 46
ANY MECHANICAL ROOF AND MEZZANINE COLLATERAL LOAD 5 PSF & 10 PSF RESPECTIVELY STEEL PLATFORM COLLATERAL LOAD 15 PSF	ADJUSTED TO ±2% OPTIMUM MOISTURE, AND RECOMPACT SUBGRADE TO 95% STANDARD (ASTM D698). SUBGRADE SHALL BE TESTED WITH GEOTECHNICAL ENGINEER PRESENT WITH A LOADED, TANDEM- AXLE DUMP TRUCK WITH A MINIMUM GROSS	 ALL STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE "STANDARD 	#6 35 46 #7 48 62
MEZZANINE FLOOR DEAD LOAD 40 PSF ROOF EQUIPMENT LOAD AS SHOWN ON ROOF PLAN IS ANY	 WEIGHT OF 20,000 LBS. UNSUITABLE SOIL SHALL BE REMOVED AND SELECT FILL COMPACTED AT EACH UNSUITABLE SUBGRADE LOCATION. SELECT FILL SHALL BE PLACED AND COMPACTED AS DESCRIBED IN REPORT. 	SPECIFICATIONS FOR OPEN WEB STEEL JOISTS", 'K-SERIES', OR THE "STANDARD SPECIFICATIONS FOR LONG SPAN STEEL JOISTS", 'LH-SERIES', AND JOIST GIRDERS WITH THE STANDARD SPECIFICATIONS FOR JOIST GIRDERS, AS APPLICABLE, OF THE STEEL JOIST INSTITUTE (SJI).	#8 63 82
SCREW CONVEYOR DEAD LOAD 75 LBS/FT LIVE LOADS:	 SHALLOW FOUNDATIONS MAY BE POURED INTO AN EARTHEN FORMED TRENCH IF SOIL CONDITIONS PERMIT. 	 ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE JOIST MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ALL STEEL JOISTS AND JOIST GIRDERS. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER'S ENGINEER, LICENSED WITH 	#9 80 104 #10 101 131
ROOF LIVE LOAD20 PSF (NONREDUCIBLE)STAIRS AND EXIT WAYS100 PSFFIRST FLOOR LIVE LOAD150 PSF	8. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACK FILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE OR UNTIL THE CONCRETE HAS ATTAINED ITS FULL COMPRESSIVE STRENGTH FOR CANTILEVER WALLS.	THE ENGINEER'S SEAL AFFIXED FOR THE STATE WHERE THE STRUCTURE IS LOCATED. 3. EXCEPT WHERE ADDITIONAL AND/OR SPECIFIC DESIGN LOADS ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, STE	#11 125 162
MEZZANINE LIVE LOAD100 PSFSCREW CONVEYOR LIVE LOAD275 LBS/FT	 WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL. 	JOISTS SHALL BE DESIGNED AS SIMPLY SUPPORTED, UNIFORMLY LOADED TRUSSES WITH THE TOP CHORD BRACED AGAINST LATERAL BUCKLING. THE UNIFORM DESIGN LOAD SHALL BE THE TOTAL SAFE UNIFORMLY DISTRIBUTED LOAI AS SHOWN IN THE SJI STANDARD LOAD TABLE, OR INDICATED ON THE DRAWINGS. JOIST DESIGNER SHALL COMBINE	ADRESIVE ANCHOR NOTES
SNOW LOAD GROUND SNOW LOAD (Pg) 15 PSF IMPORTANCE FACTOR (I) 1.1	 SLABS ON GRADE SHALL BE PLACED ON TOP OF 15 MIL. VAPOR BARRIER ON 4" OF CLASS 7 BASE COMPACTED TO 95% MODIFIED PROCTOR MAX. DRY DENSITY (ASTM D1557) ON A MINIMUM 4-INCH DRAINAGE FILL (CLEAN ASSHTO № 57 STONE U.N.O). TO BE 	ASD DESIGN LOADS AS SHOWN UNDER STRUCTURAL DESIGN DATA, LOAD DESIGNATION AND LOADS PROVIDED IN JOIST TABLES, AND ANY MECHANICAL UNIT LOADING TO ARRIVE AT THE MAXIMUM LIVE AND TOTAL LOAD FOR EACH JOIST SHOWN ON FRAMING PLAN WHERE APPLICABLE. THE JOIST DESIGN SHALL ALSO INCLUDE A MAXIMUM OF 1-200	1. CONCRETE ADHESIVE SHALL BE A HI SUPPLIED IN SINGLE CARTRIDGES SE CAPABLE OF DISPENSING AN ACCUR
THERMAL FACTOR (Ct)1.1EXPOSURE FACTOR (Ce)1.0	COMPACTED WITH VIBRATORY PLATE. 11. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS. SHORING AND BRACING OF	POINT LOADS ON THE TOP OR BOTTOM CHORD AT ANY LOCATION WITHOUT ADDITIONAL WEB REINFORCING. 4. ALL ITEMS SUCH AS MECHANICAL, EQUIPMENT, DUCT WORK, PIPES, CEILING SUPPORTS, FIXTURES, DISPLAYS, ETC., WHICH ARE TO BE SUPPORTED BY, OR HUNG FROM, STEEL JOISTS OR JOIST GIRDERS SHALL BE FRAMED WITH	ANCHORING ADHESIVE SHALL BE HIT AND HIT-HY 500 V3 CARTRIDGE FOR A CORPORATION OR APPROVED EQUA
BALANCED SNOW LOAD (Ps)12.7 PSFMINIMUM SNOW LOAD (Pm)16.5 PSF	TRENCHES SHALL MEET THE REQUIREMENTS OF OSHA.12. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER	AUXILIARY FRAMING TO THE PANEL POINTS OF THE STEEL JOIST OR GIRDER WHEN THE CONCENTRATED LOAD EXCEEDS 150LBS. METHODS OF FRAMING THAT INDUCE BENDING IN THE STEEL JOIST OR GIRDER CHORDS OR WEB MEMBERS WILL NOT BE PERMITTED.	2. THE CONTRACTOR SHALL ADHERE TO RECOMMENDATIONS REGARDING ST TEMPERATURE, APPLICATION TIME, IN
LATERAL LOADS (REFERENCE: ASCE 7-16) WIND LOAD: BUILDING RISK CATEGORY III (TABLE 1.5-1)	THAN 8 FEET FROM ANY FOUNDATION WALL. 13. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.	5. ADDITIONAL DESIGN LOADS FROM ARCHITECTURAL FEATURES, ROOF TOP EQUIPMENT, OR ANY OTHER CONCENTRATED LOADS SHOWN ON THE DRAWINGS, SHALL BE CONSIDERED AS COLLATERAL LOADS. THESE LOADS	EXPIRATION DATES. 3. DRILL THE HOLE WITH HAMMER DRILI
BASIC WIND SPEED:115 MPH (3 SECOND GUST)WIND EXPOSURE CATEGORYC	14. ALL UTILITY TRENCHES CUT UNDER BUILDING SLAB OR BUILDING FOUNDATIONS SHALL BE FILLED WITH FLOWABLE FILL UP TO SLAB SUBGRADE.	SHALL BE CONSIDERED IN THE DESIGN OF THE JOISTS AND JOIST GIRDERS, IN ADDITION TO THE SPECIFIED UNIFORM AND PANEL LOADS. COORDINATE WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND WEIGHTS OF ALL EQUIPMENT. WHERE SUCH LOADS DO NOT OCCUR AT THE PANEL POINTS OF THE JOISTS OR JOIST	REBAR - ¾"Ø BIT, #6 REBAR - ⅛"Ø BIT, ¾"Ø ANCHOR - ⅛"Ø BIT, ⅛"Ø ANCHOR
SEISMIC: SEISMIC IMPORTANCE FACTOR SEISMIC RESPONSE COEFFICIENTS Ss = 0.154g		 GIRDERS, AUXILIARY FRAMING SHALL BE ADDED, OR THE TOP CHORD SHALL BE DESIGNED FOR THE EFFECTS OF THE LOAD WHERE APPLICABLE. 6. EXCEPT WHERE ADDITIONAL AND/OR SPECIFIC DESIGN LOADS ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, STE 	4. CLEAN THE DRILLED HOLE BY BLOWI
SITE CLASS D	1.MINIMUM CONCRETE STRENGTH AT 28 DAYS:A.CLASS A: CONCRETE FILL & PIPE ENCASEMENTf'c = 2500 PSIB.CLASS B: CONCRETE SIDEWALKS & PAVEMENTf'c = 3,500 PSI	JOIST GIRDERS SHALL BE DESIGNED AS SIMPLY SUPPORTED PRIMARY MEMBERS, WITH ALL LOADS EQUAL IN MAGNITUDE AND EVENLY SPACED ALONG THE JOIST GIRDER TOP CHORD (UNLESS NOTED OTHERWISE). 7. ALL ROOF JOISTS AND JOIST GIRDERS, UNLESS NOTED OTHERWISE, SHALL BE DESIGNED TO SUPPORT THE ROOF LIV	ADDITIONAL TIMES WITH COMPRESSE 5. MARK THE EMBEDMENT LENGTH ON
SPECTRAL RESPONSE COEFFICIENTS SDS = 0.164 SD1 = 0.143 SEISMIC DESIGN CATEGORY C	C. CLASS C: STRUCTURAL CONCRETE f'c = 4,000 PSI 2. ALL CONCRETE SHALL BE NORMAL WEIGHT (DENSITY=145 PCF) AND SHALL BE IN ACCORDANCE WITH THE CAST-IN-PLACE CONCRETE SPECIFICATIONS.	WITHOUT EXCEEDING L/360 AND A TOTAL DESIGN LOAD (INCLUDING ROOF LIVE, DESIGN SNOW, DESIGN RAIN, ETC.) WITHOUT EXCEEDING A DEFLECTION OF L/240.	6. WASTE THE ANCHORING ADHESIVE U THE HOLE WITH ADHESIVE FROM THE
ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE BASIC SEISMIC-FORCE-RESISTING SYSTEM - PRE-ENGINEERED METAL BLDG. ORDINARY STEEL BRACED FRAME & ORDINARY STEEL	 ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE 1" CHAMFER, UNLESS NOTED OTHERWISE. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN THOSE 	8. STEEL JOIST BRIDGING SHOWN ON THE DRAWINGS IS FOR ILLUSTRATIVE PURPOSES ONLY. ALL STEEL JOIST BRIDGIN SHALL BE PROVIDED IN ACCORDANCE WITH THE SJI SPECIFICATION, AND SHALL BE SPECIFIED BY THE JOIST MANUFACTURER. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE INSTALLED, AND STEEL JOIST ENDS FIXED, PRIOF	7. POST-INSTALLED ANCHORS AND/OR I R PERFORMED BY PERSONNEL TRAINE
MOMENT FRAME (R=3) - INTERIOR BOILER AND MCC ROOM ORDINARY MASONRY SHEAR WALLS (R= 2)	 SHOWN ON THE DRAWINGS WITH OUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. BLOCKOUTS IN THE CONCRETE FORMWORK SHALL NOT BE ALLOWED WITHOUT THE 	TO THE APPLICATION OF ANY LOADS. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, OR CONCRETE WALLS SHALL BE ATTACHED THERETO. THE JOIST MANUFACTURER MUST COORDINATE BRIDGING LOCATIONS TO AVOID INTERFERENCE WITH ALL MECHANICAL, ELECTRICAL, AND FIRE PROTECTION	MANUFACTURER'S PRINTED INSTALL ANCHOR PACKAGING. THE CONTRAC REPRESENTATIVE TO PROVIDE ONSI
GENERAL NOTES 1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED	PRIOR WRITTEN APPROVAL OF THE ENGINEER. 6. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW A MINIMUM OF	EQUIPMENT. 9. NO LOADS SHALL BE PLACED ON ANY JOIST GIRDER UNTIL THE STEEL JOISTS BEARING ON THE GIRDER ARE IN PLACE AND FASTENED TO THE GIRDER AS SPECIFIED.	ANCHORS AND/OR REINFORCING BAF RECEIVE DOCUMENTED CONFIRMATI THE ANCHORS AND/OR BARS THAT A
IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION C ANY SHORING, TEMPORARY BRACING, GUYS, OR TIEDOWNS, WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL	ONE WEEK PRIOR TO PLACEMENT OF ANY CONCRETE. THE CONCRETE MIX DESIGNS SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE	10. THE JOIST MANUFACTURER SHALL DESIGN ALL ROOF JOISTS AND JOIST GIRDERS, AND SHALL DESIGN AND SPECIFY ALL REQUIRED ADDITIONAL BRIDGING AND/OR BRACING, FOR MINIMUM NET FACTORED UPLIFT FORCES OF 15 PSF AN	INSTALL POST-INSTALLED REINFORC
REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.	METHOD. 7. CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT/ENGINEER FOR APPROVAL.	12. UNLESS NOTED OTHERWISE, K-SERIES JUISTS SHALL BE ATTACHED TO SUPPORTING STEEL MEMBERS, OR STEEL	SUBMITTAL PROCEDURES
ORDINANCES, OSHA, AND CITED STANDARDS AND TESTS DURING ALL PHASES OF CONSTRUCTION.	ALL CONSTRUCTION JOINTS IN THE CONCRETE WALLS SHALL HAVE DUMBBELL TYPE WATERSTOP UNLESS DETAILED OTHERWISE.	BEARING PLATES, WITH (2)-3" LONG 3/16" FILLET WELDS (ONE EACH SIDE). 13. UNLESS NOTED OTHERWISE, LH-SERIES JOISTS AND JOIST GIRDERS SHALL BE ATTACHED TO SUPPORTING STEEL MEMBERS, OR STEEL BEARING PLATES, WITH (2)-3" LONG ¼" FILLET WELDS (ONE EACH SIDE).	1. TRANSMIT SUBMITTALS SUFFICIENT ACTIVITIES TO AVOID UNNECESSAR
3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES SUCH AS CIVIL, MECHANICAL, ELECTRICAL, AND EQUIPMENT DRAWINGS AND SPECIFICATIONS. GENERAL CONTRACTOR SHALL RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC.	BE THE STRUCTURAL DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE	14. STEEL JOIST AT COLUMN CENTERLINES SHALL BE BOLTED TO THE SUPPORTING STEEL MEMBER WITH TWO ERECTIO BOLTS, ½"Ø FOR K-SERIES JOISTS & ¾"Ø FOR LH-SERIES JOISTS. WHERE STEEL JOISTS DO NOT SPACE TO COLUMN	N PROJECT MAY WITHHOLD ACTION O OTHER SUBMITTALS UNTIL ALL RELA 2. SHOP DRAWINGS SHALL BE SUBMIT
WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF RECORD OF ANY CONFLICTS OR DIMENSIONAL DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.	AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.	DRAWINGS INDICATE THAT THE JOIST SEAT IS TO BE WELDED TO THE SUPPORTING STEEL, THE BOLTS PROVIDED AR FOR ERECTION ONLY AND MAY BE REMOVED AFTER THE WELDS ARE COMPLETED.	E DRAWINGS WILL BE REVIEWED, MAF FORMAT.
4. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE DRAWINGS FOR REQUIRED OPENINGS, PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THESE DRAWINGS OR NOT, AND VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS.		 STEEL JOISTS AT COLUMN CENTER LINES SHALL BE PROVIDED WITH 6"SQ. x ½" KNIFE PLATE AT THE BOTTOM CHORD WELDED TO THE COLUMN, FOR STABILIZATION. DO NOT WELD THE JOIST CHORD TO THE PLATE. STEEL JOIST GIRDERS AT COLUMN CENTERLINES SHALL BE BOLTED TO THE STRUCTURAL STEEL COLUMN WITH (2)-¾ 	SEISMIC NOTE
5. WORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN A	λT	BOLTS AND SHALL BE PROVIDED WITH A 8" SQUARE X 1" KNIFE PLATE AT THE BOTTOM CHORD, WELDED TO THE COLUMN, FOR STABILIZATION. DO NOT WELD THE JOIST GIRDER CHORD TO THE PLATE UNLESS NOTED OTHERWISE. 17. HOLES IN STEEL JOIST CHORDS WILL NOT BE PERMITTED, EXCEPT FOR BOLTED CONNECTIONS AT THE BEARING END	structure have been designed in accordance with 1991.
CORRESPONDING PLACES SHALL BE REPEATED. 6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS.		OF THE STEEL JOIST, OR WHERE SPECIFIED ON THE DRAWINGS AND SPECIFICALLY DESIGNED FOR BY THE JOIST MANUFACTURER. 18. ALL DAMAGED JOISTS AND JOIST GIRDERS SHALL BE REPAIRED OR REPLACED. THE ENGINEER-OF-RECORD SHALL BE	Arkansas Registration No. 14516
7. THE DETAILS ON THE CONTRACT DRAWINGS SHALL NOT BE REVISED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD. IF PERMITTED THE REVISED DETAILS AND CALCULATIONS SHALL BE STAMPEI	D	THE SOLE JUDGE AS TO WHETHER A JOIST, OR JOIST GIRDER, CAN BE REPAIRED OR MUST BE REPLACED. ALL REPAI TO JOISTS SHALL BE DESIGNED AND SPECIFIED BY THE JOIST SUPPLIER'S ENGINEER.	
BY A LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.		 JOIST SEATS TO HAVE A MINIMUM PLATE THICKNESS OF 3/16". ALL NECESSARY JOIST TOP CHORD EXTENSIONS SHALL BE "R" TYPE, MEETING OR EXCEEDING THE LOAD CAPACITY C THE JOIST, U.N.O. 	'F
$\overset{\circ}{\circ}$ CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS UNLESS NOTED OTHERWISE.		21. ALL JOIST & JOIST GIRDERS SHALL BE PAINTED WITH RED OR GRAY PRIMER. FINAL FINISH TO BE VERIFIED WITH ARCHITECTURAL.	
9. MECHANICAL EQUIPMENT LOADINGS ARE BASED ON THE WEIGHTS OF PROVIDED EQUIPMENT INFORMATION. AN CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT/ENGINEER OF RECORD FOR VERIFICATION OF THE ADEQUACY OF THE SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.			



ACCORDING TO TABLE BELOW. 11. ALL LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS

NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

TENSION SPLICE (IN.)					
BAR	TOP BARS		OTHER BARS		COMPRESSION
SIZE	CLASS A	CLASS B	CLASS A	CLASS B	SPLICES (IN.)
#3	16	21	12	16	12
#4	21	28	16	21	15
#5	27	35	21	27	19
#6	35	46	27	35	23
#7	48	62	37	48	26
#8	63	82	48	63	30
#9	80	104	61	80	34
#10	101	131	78	101	38
#11	125	162	96	125	42

ADHESIVE ANCHOR NOTES

- CONCRETE ADHESIVE SHALL BE A HIGH STRENGTH, TWO PART EPOXY ADHESIVE 1 SUPPLIED IN SINGLE CARTRIDGES SEPARATING THE RESIN FROM THE HARDENER, AND CAPABLE OF DISPENSING AN ACCURATELY PROPORTIONED ADHESIVE MIXTURE. ANCHORING ADHESIVE SHALL BE HIT-HY 270 CARTRIDGE FOR ANCHORAGE INTO CMU AND HIT-HY 500 V3 CARTRIDGE FOR ANCHORAGE INTO CONCRETE BY HILTI CORPORATION OR APPROVED EQUAL.
- THE CONTRACTOR SHALL ADHERE TO THE ANCHORING ADHESIVE MANUFACTURER'S 2. RECOMMENDATIONS REGARDING STORAGE, TEMPERATURE, APPLICATION TEMPERATURE, APPLICATION TIME, INITIAL AND FINAL CURE TIME, AND ANY PRODUCT EXPIRATION DATES.
- DRILL THE HOLE WITH HAMMER DRILL W/ CARBIDE TIPPED DRILL BIT OR HILTI TE-CD OR 3. TE-YD HOLLOW DRILL BIT DIAMETER BASED ON THE FOLLOWING: #4 REBAR - % "Ø BIT, #5 REBAR - ¾"Ø BIT, #6 REBAR - ¾"Ø BIT, ½"Ø ANCHOR - 9/16"Ø BIT, 5%:"Ø ANCHOR - ¾"Ø BIT, 34"Ø ANCHOR - 36"Ø BIT, 36"Ø ANCHOR - 11"Ø BIT, 11"Ø ANCHOR - 11%" BIT. MINIMUM EMBEDMENT LENGTH OF REBAR AND ANCHORS SHALL BE AS IDENTIFIED IN THE PLANS. CLEAN THE DRILLED HOLE BY BLOWING THE HOLE 4 TIMES WITH COMPRESSED AIR (90 4. PSI MINIMUM); BRUSH THE HOLE 4 TIMES (FULL DEPTH) AND BLOW THE HOLE 4 ADDITIONAL TIMES WITH COMPRESSED AIR (90 PSI MINIMUM).
- MARK THE EMBEDMENT LENGTH ON THE REBAR OR ANCHOR BOLT PRIOR TO 5. INSTALLATION.
- WASTE THE ANCHORING ADHESIVE UNTIL A CONSISTENT COLOR IS DISPENSED. FILL 6. THE HOLE WITH ADHESIVE FROM THE BOTTOM OF THE HOLE UPWARDS UNTIL THE HOLE IS APPROXIMATELY 2/3 FULL.
- POST-INSTALLED ANCHORS AND/OR REINFORCING BAR INSTALLATION SHALL BE 7. PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR POST-INSTALLED ANCHORS AND/OR REINFORCING BARS. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION PRIOR TO THE COMMENCEMENT OF INSTALLING THE ANCHORS AND/OR BARS THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL POST-INSTALLED REINFORCING BARS HAVE BEEN TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). 8. INSTALL THE REBAR OR ANCHOR TO ITS REQUIRED EMBEDMENT LENGTH.

SUBMITTAL PROCEDURES

1. TRANSMIT SUBMITTALS SUFFICIENTLY IN ADVANCE OF RELATED CONSTRUCTION ACTIVITIES TO AVOID UNNECESSARY DELAY. THE STRUCTURAL ENGINEER FOR THIS PROJECT MAY WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION WITH OTHER SUBMITTALS UNTIL ALL RELATED SUBMITTALS ARE RECEIVED. 2. SHOP DRAWINGS SHALL BE SUBMITTED IN 'PDF' ELECTRONIC FORMAT. THE SHOP DRAWINGS WILL BE REVIEWED, MARKED UP, AND RETURNED IN 'PDF' ELECTRONIC FORMAT.

SEISMIC NOTE

I hereby certify that the structural load carrying members of this building structure have been designed in accordance with Arkansas Act 1100 1991

1" ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY						
DATE						ERS, INC. 2024
REVISION						©HAWKINS-WEIR ENGINEERS, INC. 2024
ARKANSAS ARKANSAS LICENSED PROFESSIONAL WENGINEER *** OLNO. 14516 M. RIOROFIU 8/3012024						
HAWKINS WFIR						♦ ♦ ♦ ITUC LUKAL ENGINEERING, INC.
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