# STRUCTURAL ABBREVIATIONS

ABBREV ACI ADD ADDL AFF AISC AISI ALT ALUM ARCH ASTM AWS	ABBREVIATION AMERICAN CONCRETE INSTITUTE ADDITIVE ADDITIONAL ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE ALTERNATE/ALTERNATIVE ALUMINUM ARCHITECTURE/ARCHITECTURAL AMERICAN SOCIETY OF TESTING MATERIALS AMERICAN WELDING SOCIETY	LB LGTH LL LLH LLV LONG. LP LSL LT WT LVL MATL MAX
B/ BCX BLDG BLK BM BOT BP BRG BTWN	BOTTOM OF BOTTOM CHORD EXTENSION BUILDING BLOCK BEAM BOTTOM BASE PLATE/BEARING PLATE BEARING BETWEEN	MB MCCH MET MFR MID MIN MISC MO MPH
C CB CC CF CIP CJ CL	CHANNEL CONCRETE BEAM CONCRETE COLUMN CUBIC FEET (FOOT) CAST IN PLACE CONTRACTION JOINT CENTERLINE	NGVD NIC NO. NS NTS
CLR CM CMU CO COL CONC CONT CONN	CLEAR/CLEARANCE CONCRETE MASONRY CONCRETE MASONRY UNIT COMPANY COLUMN CONCRETE CONTINUOUS CONNECTION	OC OD O.F. OPNG OPP OSB
CONN CONST COORD CSJ CTR CTRD CY	CONNECTION CONSTRUCTION COORDINATE CONSTRUCTION JOINT CENTER CENTERED CUBIC YARD	P/C P/T PCB PCC PCF PEMB PEN
DEPT DET DIA DIAG DIM DIST DL DN DWG	DEPARTMENT DETAIL DIAMETER DIAGONAL DIMENSION DISTANCE DEAD LOAD DOWN DRAWING	P.J. PLF PLMG PLY. PREFAB PSF PSI PSL PT
EA EE EF EHPA EJ ELEC EL, ELEV ENGR EOD EOR	EACH EACH END EACH FACE EMERGENCY HURRICANE PROTECTION AREA EXPANSION JOINT ELECTRIC/ELECTRICAL ELEVATION ENGINEER EDGE OF DECK ENGINEER OF RECORD	R/W RD REF REINF REQD REV RTU SB
EQ SP ES EW EXIST EXP EXT	EQUAL SPACED EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR	SCHED S.F. SF SIM SPC SPECS SQ
F FD FDN FF FIN FIN GR FLR FS FT	FOUNDATION FLOOR DRAIN FOUNDATION FINISHED FLOOR FINISH FINISH GRADE FLOOR FAR SIDE FEET/FOOT	SS STD STIFF STL STRUCT SYM T/ TB
FTG GA GALV GB GC GEN GL GS	FOOTING GAGE/GAUGE GALVANIZED GRADE BEAM GENERAL CONTRACTOR GENERAL GRID LINE GALVANIZED STEEL	T&B TCX TDS TE TEMP TENS THD THK TOL TRANS
HD HDG HORIZ HP HSA HSS HT	HOT DIPPED HOT DIPPED GALVANIZED HORIZONTAL HIGH POINT HEADED STUD ANCHOR HOLLOW STRUCTURAL SECTION HEIGHT	TS T.S. TWF TYP UNO
l ID I.F. IN. INT	MOMENT OF INERTIA INSIDE DIAMETER INSIDE FACE INCH INTERIOR	VERT VIF VOL W W/
JST JT	JOIST JOINT	W/O WD WF
K KLF KSI KWY	KIP (1000 LB) KIPS PER LINEAL FOOT KIPS PER SQUARE INCH KEYWAY	WP W.P. WS WT WWF

C.L.

POUND LENGTH	DETAIL NUMB	ER	
LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL	XX XX	SECTION / DETAIL MARK	
LOW POINT LAMINATED STRAND LUMBER	SHEET NUME	BER	<b>X</b>
LIGHT WEIGHT LAMINATED VENEER LUMBER			
MATERIAL		PLAN / DETAIL MARK	X
MISCELLANEOUS CHANNEL/MASONRY COLUMN MECHANICAL			
METAL MANUFACTURE/MANUFACTURER			
MIDDLE MINIMUM	μ T/		
MISCELLANEOUS MASONRY OPENING		ELEVATION MARK	
NOT IN CONTRACT		RECESS OR STEP IN SLAB	
NOMBER NEAR SIDE	SLOPE	SLOPED SURFACE	— [+
NOT TO SCALE			
	– RUN	PITCHED ROOF	-
OPENING OPPOSITE	12 4 - RISE		
ORIENTED STRAND BOARD			
PRECAST CONCRETE/PILE CAP	$\langle \mathbf{x} \rangle$	PLAN NOTE	
PARALLEL PRECAST CONCRETE BEAM	.1.		
PRECAST CONCRETE COLUMN POUNDS PER CUBIC FEET		MOMENT CONNECTION	2' , - <u>-</u>
PRE-ENGINEERED METAL BUILDING	•		
PANEL JOINT CENTERLINE PLATE	XXX'-X"	JOIST BEARING ELEVATION	
POUNDS PER LINEAR FOOT			
PLYWOOD STEP FOR PREFABRICATED		IEIGHT	
POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	N. C.		•
PARALLEL STRAND LUMBER PRESSURE TREATED		STEPPED FOUNDATION	<u>W24x55</u>
REINFORCED WITH			
ROOF DRAIN REFERENCE	F6.0		
REINFORCING REQUIRED	CC-1	COLUMN AND FOUNDATION TYPE MARKS	
REVISION ROOF TOP UNIT			
SOFFIT BEAM	→ X'-X"		$\gamma \gamma \gamma$
SCHEDULE SQUARE FEET		SPOT ELEVATION, TYPICALLY TOP OF ITEM TAGGED (T/WALL,	
STRIP FOUNDATION SIMILAR		T/FOUNDATION, ETC)	(20) (20)
SPACE/SPACES SPECIFICATIONS	(P-X)		
SQUARE STAINLESS STEEL	12M	WALL TYPE SEE SCHEDULE	PORTION OF TOTAL NUMBE
STANDARD STIFFENER			OF WELDED STUDS TO BE SPACED EQUALLY BETWEE
STEEL STRUCTURAL			INTERSECTING BEAMS
		INCREASED FLOOR LOAD AREA IN PSF	INTERSECTING BEAM
TOP CHORD EXTENSION	WALL TYPES		
		LOAD BEARING MASONRY WALL	<u>NOTE</u> : SYMBOLS GENERIC AND D
TENSION THREAD/THREADED		NON-LOAD BEARING MASONRY WALL	ACTUAL OCCUR
THICK			
TRANSVERSE TUBE STEEL			
THICKENED SLAB THICKENED WALL FOUNDATION		STRUCTURAL SHEET INDE	Х
TYPICAL	SHEET ;	# SHEET TITLE	
UNLESS NOTED OTHERWISE	S0.1	STRUCTURAL LEGEND, GENERAL N	OTES, & SHEET INDE
VERTICAL VERIFY IN FIELD	S0.3	STRUCTURAL NOTES	
VOLUME	S1.3	COMPONENTS AND CLADDING WINI	D LOAD DIAGRAM
WIDE FLANGE SECTION WITH	S2.1	FOUNDATION PLAN	
WITHOUT WOOD	S2.2 S2.3	SECOND FLOOR / LOW ROOF FRAM	ING PLAN
WALL FOUNDATION WATERPROOF	S2.4	HIGH ROOF FRAMING PLAN	
WORKING POINT WELDED STUD	S4.1	STRUCTURAL ELEVATIONS / SECTIO	DNS
WEIGHT/STRUCTURAL TEE SECTION WELDED WIRE FABRIC	S4.2	STRUCTURAL SECTIONS	
AT DESIGNATION	S4.3 S5.01	STRUCTURAL DETAILS	
POUNDS / REBAR SIZE NUMBER PLUS OR MINUS	S5.02	STRUCTURAL DETAILS	
ANGLE CENTER LINE	S5.11	STRUCTURAL DETAILS	
AND SECTION MODULUS	S5.21		
MOMENT OF INERTIA	S5.41	STRUCTURAL DETAILS	
		1	



WIND LOADS: PER FLORIDA BUILDING CODE, SECTION 1609.

ULTIMATE DESIGN WIND SPEED, Vult

RISK CATEGORY

D. SEISMIC LOADS: PER ASCE 7-16

SITE CLASSIFICATION

SEISMIC DESIGN CATEGORY SEISMIC IMPORTANCE FACTOR

SEISMIC USE GROUP

EXPOSURE

NOMINAL DESIGN WIND SPEED, Vasd

SPECTRAL RESPONSE ACCELERATION, SHORT DURATION (Ss)

SPECTRAL RESPONSE ACCELERATION, 1.0 SECOND DURATION (S1)

LATERAL LOAD RESISTING SYSTEM TYPE

SEE SHEET S1.3 FOR COMPONENTS AND CLADDING PRESSURES.

147 MPH (3 SEC. GUST)

114 MPH (3 SEC. GUST)

ORDINARY REINFORCED MASONRY SHEAR WALLS

IV

В

0.065

0.035

1.5

D

	010000 GENERAL NOTES	013100 REQUEST FOR INTERPRETATION
1.	STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT	1. RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT MANNER AS TO AVOID DELAYS IN CONTRACTORS WORK.
2.	SHOWN ON STRUCTURAL DRAWINGS. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE	2. RFI SHALL BE SUBMITTED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SHALL BE FORWARDED TO THE ENGINEER VIA THE ARCHITECT OR DIRECTLY TO THE ENGINEER BY THE CONTRACTOR WHEN APPROVED BY THE ARCHITECT.
<del>3</del> .	PROCEEDING WITH THE AFFECTED PART OF THE WORK.  NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE	3. ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW AND RETURN RFI'S. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFI'S WITHIN A REASONABLE TIME FRAME.
4. 5.	ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS. DO NOT SCALE DRAWINGS. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DUPING EDECTION. THE INCLUDES THE ADDITION OF NECESCARY	4. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, OR COST IMPACTS OR ADJUSTMENTS. IF CONTRACTOR REQUESTS ANY ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN WRITING BY THE CONSTRUCTION ADMINISTRATOR.
6	DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL	013301 SHOP DRAWING REVIEW
7	SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL MECHANICAL	1. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. 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. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
	ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.	2. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING DRAWING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
8.	THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND	3. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
	SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	4. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEERS' CURRENT HOURLY RATES.
9.	THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE	013302 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS
	CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.	<ol> <li>THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER:</li> <li>A. PREFABRICATED STEEL STAIRS</li> </ol>
10.	PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TLC ENGINEERING SOLUTIONS, INC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL	<ul> <li>B. PRE-ENGINEERED WOOD ROOF TRUSS SYSTEMS</li> <li>2. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE</li> </ul>
11.	CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO	NECESSARY FOR PROPER FABRICATION AND INSTALLATION. SHOP DRAWINGS CALCULATIONS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
	PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND	<ol> <li>SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.</li> <li>SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER</li> </ol>
12.	PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER	REGISTERED IN THE STATE OF FLORIDA. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED SET FOR THEIR RECORDS.
13.	IN THE PROFESSIONAL OPINION OF TLC ENGINEERING SOLUTIONS, INC. THE STRUCTURAL CONTRACT DOCUMENTS FOR THIS PROJECT HAVE BEEN PREPARED IN ACCORDANCE WITH THE DESIGN CRITERIA AS SET FORTH IN THE FLORIDA BUILDING CODE (FBC) 7th EDITION (2020).	<ul> <li>DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING, DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.</li> </ul>
14.	NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.	<ul> <li>CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.</li> <li>REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO</li> </ul>
15.	ELEVATIONS INDICATED ARE RELATIVE TO FIRST FLOOR ELEVATION OF 75'-0" (NGVD) PER CIVIL DRAWINGS, CONFIRM FINAL ELEVATION WITH CIVIL DRAWINGS.	A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
16.	THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB	<ul> <li>B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.</li> <li>C. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND</li> </ul>
17.	IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.	<ul><li>HAS USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.</li><li>D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS</li></ul>
	010001 BUILDING MOVEMENTS	CONSISTENT WITH THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.
THE E	BUILDING MOVEMENT SPECIFIED HEREIN IS ANTICIPATED TO OCCUR AND SHOULD BE SIDERED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK.	RETURNED.
1.	THE FOLLOWING PROVISION FOR SUPERIMPOSED LOAD DEFLECTIONS SHALL BE MADE IN THE DESIGN, FABRICATION, AND INSTALLATION OF ALL PARTITIONS, GLASS WALLS, AND OTHER ELEMENTS SUPPORTED BY AND ATTACHED TO THE STRUCTURE. A. TYPICAL FLOOR MEMBERS - SPAN/360 BUT NOT LESS THAN 3/8"	1. ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED APPROVED BY THE GENERAL
	B. TYPICAL ROOF MEMBERS - SPAN/360 BUT NOT LESS THAN 3/8"	<ul><li>CONTRACTOR PRIOR TO SUBMITTAL.</li><li>2. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS</li></ul>
STOF FLOC FABR	RY DRIFT: LATERAL FRAME DEFLECTION OF H/300 IN THE PLANE OF THE WALL OF ONE OR RELATIVE TO AN ADJACENT FLOOR SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN, ICATION AND INSTALLATION OF THE BUILDING CLADDING.	<ul> <li>FOR THE FOLLOWING ITEMS:</li> <li>ITEMS MARKED (D) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.</li> <li>ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEERS RECORD</li> </ul>
	010002 DESIGN LOADS	ONLY. A. STRUCTURAL STEEL
1.	THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION (2020), AND AS SUPPLEMENTED BY LOCAL AMENDMENTS.	B. REINFORCING STEEL
2.	THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:	<ul><li>C. PREFABRICATED METAL PAN STAIRS (D)</li><li>D. COMPOSITE METAL DECK</li></ul>
	A. DEAD LOADS:	E. CONCRETE MIX DESIGNS
	ROOF STRUCTURE15 PSFM/E/P LOADS5 PSFCEILINGS5 PSF	F. PRE-ENGINEERED WOOD ROOF TRUSS SYSTEMS (D)
	8" CMU LOAD BEARING PARTITIONS61 PSF12" CMU LOAD BEARING PARTITIONS103 PSF	<ul><li>G. MECHANICAL ANCHORS (#)</li><li>H. CHEMICAL (ADHESIVE) ANCHORS (#)</li></ul>
	B. LIVE LOADS ROOF FLOOR (OFFICE) B. LIVE LOADS 20 PSF 50 PSF	3. MANUFACTURER'S LITERATURE. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
	FLOOR (LIGHT STORAGE)125 PSFFLOOR (RESIDENTIAL)40 PSFFLOOR (APPARATUS BAY)250 PSFSTAIRS AND EXITS100 PSFGUARDRAILS/HANDRAILS50 PLF (UNIFORM)200 LBS (CONCENTRATED)	







03			GOILL					033003 CO
SHALL BE ASTM A618 AND PLACED IN ACC DETAILS OF ACI STAI	GRADE 60 DEFC ORDANCE WITH NDARDS AND SPI	ORMED BARS, THE TYPICAL I ECIFICATIONS	FREE FROM OII BENDING DIAGF 3.	L, SCALE AND RU RAM AND PLACIN	JST G	1.	AN INDEPEN CAST IN PLA	DENT TESTING LABOR CE CONCRETE:
PROVIDE CONCRETE FOLLOWS, UNLESS (	E COVER OVER P	RIMARY REINI ED:	FORCEMENT, TI	IES, AND STIRRUI	PS, AS		A. ASTN CON	M C143 - "STANDARD TI CRETE."
LOCATION A			MININ	MUM COVER			B. ASTM CYLI CON	M C39 - "STANDARD TE NDRICAL CONCRETE S DUCTED FOR FACH CI
A. CONCRETE C PERMANENT	AST AGAINST AN LY EXPOSED TO	ND EARTH.	ALL E	BARS 3"			THE	REOF), PLACED PER DA TEST AGE AS FOLLOW
B. CONCRETE E	XPOSED TO EAR	RTH OR WEATI	HER #6 OF #5 OF	R GREATER 2" R SMALLER 1.5"			(2) (2)	AT 7 DAYS AT 28 DAYS
C. CONCRETE N SLAB	JOT EXPOSED TO S, WALLS, AND JO	) WEATHER O OISTS	R IN CONTACT \ #11 C	WITH GROUND DR SMALLER 3/4"				DNAL RESERVE CYLINE F REQUIRED. IF 28-DA
SECURE APPROVAL	OF SHOP DRAWI	NGS PRIOR TO		G FABRICATION.			GTLINDER(S	) MAT BE DISCARDED.
	HOOKS AT DISC	ONTINUOUS E	ENDS OF ALL TO	OP BARS.			036	6001 CHEMICA
AND TOP BARS AT CL ACCORDANCE WITH	ENTER OF SPAN. SPLICE TABLES /	ALL OTHER L AND DETAILS	LICE BOTTOM E _AP SPLICES SH SHOWN ON DR/	ARS OVER SOP ALL BE IN AWINGS.	PORTS	1.	SHALL BE A HILTI RE500 SYSTEM, OR	TWO PART EPOXY POL SD, DEWALT PURE 110 ENGINEER APPROVEI
PROVIDE DOWELS IN VERTICAL BARS WIT	ITO FOUNDATION H CLASS B TENSI	NS, PILE CAPS ION LAP SPLIC	, SUPPORT BEA CES, U.N.O.	AMS, ETC. TO MA	ТСН	2.		ES AND BRANDS VARY
LENGTH OF LAP SPL OTHERWISE NOTED:	ICES AND BAR EN	MBEDMENT SH	HALL BE AS SHO	OWN IN TABLE, UI	NLESS		OF EPOXY IS BASED ON T	S SPECIFIED IN THESE HE PROPERTIES OF THE SHOWN IN THE DETAIL
<b>BAR :</b> T<12" #6 OF	<u>SIZE</u> ₹ LESS	<u>3000 PSI</u> 57 Db	<u>4000 PSI</u> 49 Db	<u>5000 PSI</u> 44 Db			APPROVAL E	AIL SPECIFIES ONLY O BY THE ENGINEER OF F
#7 OF	≀ MORE	71 Db	61 Db	55 Db			MUST BE SU CALCULATIC	BMITTED TO EOR FOR DNS FOR REVIEW AND
1>12" #6 OF #7 OF	R MORE	74 Db 81 Db	65 Db 79 Db	57 Db 72 Db		3.	SUBSTITUTIONS	ON OF EPOXIES IN ONE O MAKE SIMILAR SUB EACH SUBSTITUTION
WHERE "T" IS DEPTH UTILIZE CLASS "B" SF	OF CONCRETE L PLICE FOR ALL SF	UNDER BARS A PLICES, U.N.O	AND "Db" IS BAF . ON PLANS OR	R DIAMETER. DETAILS.		1		OF RECORD.
AT CHANGES IN DIR BARS OF SAME SIZE	ECTION OF CONC AND SPACING AS	CRETE WALLS S HORIZONTA	AND TIE BEAMS L STEEL.	S, PROVIDE COR	NER	4.	INSTALL AND INSTALLATION AND EMBED	DN INSTRUCTIONS (MP MENT SPECIFIED ON D
WHERE HOOKS ARE EXTEND DEEP ENOU	SHOWN ON THE	PLANS OR DE RTING STRUC	ETAILS, HOOKS S TURE TO DEVEI	SHALL BE DETAIL LOP THE FULL	ED TO	5.	ADHESIVE A ORIENTATIO	NCHORS INSTALLED IN N TO SUPPORT SUSTA
STRENGTH OF THE F SUPPORTING STRUC CONFINEMENT, AND	IOOKED BAR. PR TURE AS REQUIE ANCHORAGE CR	ROVIDE ADDIT RED TO SATIS RITERIA.	IONAL TIES OR FY ACI 318 HOC	STIRRUPS IN DK DEVELOPMEN	Τ,		CERTIFIED A 318-14 D.9.2. ENGINEER F	DHESIVE ANCHOR INS 2). PROOF OF CURREI OR APPROVAL PRIOR
AT CANTILEVER SLAI	BS AND BEAMS, F		BARS IN DIREC		EVER	6.	THE MANUE	ACTURER'S REPRESEN TO BE USED PRIOR TO
STRUCTURE, EITHER HOOKS EMBEDDED I	BY PROVIDING F DEEP ENOUGH B	FULL CLASS B EYOND SUPPO	CAP SPLICE OF ORT TO DEVELO	R STANDARD ACI OP STRENGTH OF	F BAR.		INSTALLERS	SHALL PERFORM POS HALL BE MADE AVAILAE
						7.	THE CONTRA REQUIREME EPOXY INTO	ACTOR IS RESPONSIBL NTS ARE FULLY COMP THE HOLES IN ACCOR
032 SHALL CONFORM TO	2004 VVELD		SCALE AND RU	IST AND PLACED	IN	8.	NO LOAD SH	IALL BE APPLIED TO TH HAS ACHIEVED IT'S SE
ACCORDANCE WITH SPECIFICATIONS.	THE TYPICAL PLA		S OF ACI STAN	DARDS AND		9.		IRERS PUBLISHED VAL
MINIMUM LAP SHALL	BE ONE SPACE F	PLUS TWO INC	CHES. ED (NO ROLLS).				EXCESS EPO NOT INTERF	DXY IS CLEANED UP FR ERE WITH ADJUSTABIL
INSTALL WWF ON BR SUPPORTS SHALL BE	LICKS OR BOLSTE	ERS AT MID DE PREVENT SHI	EPTH OF SLAB L FTING OF WWF	J.N.O.; SPACING ( DURING	OF	10.	ADHESIVE A IN ACCORDA	NCHORS IN CONCRETI NCE WITH ACI 355.2 AI
CONSTRUCTION, BU	T SHALL NOT EXC	CEED 24" O.C.				11.		NCHORS IN MASONRY
03220 NO STRUCTURAL CO	)1 FORMW	ORK ANI	D SHORIN	IG ACHED AT LEAST		12.		EINFORCING IN CONCR
TWO-THIRDS OF THE	28-DAY DESIGN	STRENGTH.			HALL	13.	ADHESIVE A	
DESIGN, ERECTION A							INSTALLED	JINTIL CONCRETE AND
DESIGN, ERECTION A MEET THE REQUIREM			IDARDS 347 AND	) 301.		14.	PROVIDE SP	ECIAL INSPECTION FO
DESIGN, ERECTION A MEET THE REQUIREM 032	202 CONS		DARDS 347 AND DARDS 347 AND DOINTS FROM TH	HAT SHOWN ON	THE	14.	PROVIDE SP THE REQUIR REPORT (IBC	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NO
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD.	202 CONSTRUCT	TRUCTIC	DARDS 347 AND DARDS 347 AND DOINTS FROM TI N WRITING BY T	HAT SHOWN ON THE ENGINEER OF		14. 15.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES	ADDITION OF CON ADDITION OF CON REVIEWED AND ED CONSTRUCTION IICH WILL INCLUE SIGN OF THE STR	ON JOINT LOC RUCTURE, SHO	DIN JOINES AN DOINTS 547 AND JOINTS FROM TH N WRITING BY T CATIONS ARE AC ING CHARGES E DRING, ETC.	HAT SHOWN ON HAT SHOWN ON HE ENGINEER OF CCEPTABLE ONL BY THE ENGINEEI	THE THE Y AS A R OF	14. 15.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES	202 CONS <sup>-</sup> ADDITION OF CON REVIEWED AND ED CONSTRUCTION IICH WILL INCLUE SIGN OF THE STR	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER RUCTURE, SHO	DN JOINES AN DN JOINTS JOINTS FROM T N WRITING BY T CATIONS ARE AG ING CHARGES E DRING, ETC.	HAT SHOWN ON THE ENGINEER OF	THE = Y AS A R OF	14. 15.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE BY	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC 036002 MEC
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR	ADD REMOVAL OF MENTS SET FORT ADDITION OF CON REVIEWED AND ED CONSTRUCTION ICH WILL INCLUE SIGN OF THE STR B2203 PLUE ACING SHALL BE 6" CLEAR BETWE	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER RUCTURE, SHO MBING S THREE DIAME	DIN JOINES AN IDARDS 347 AND DOINTS FROM T N WRITING BY T CATIONS ARE AC ING CHARGES E DRING, ETC. LEEVES TERS CENTER WHICHEVER IS	TO CENTER OF TI GREATER.	THE THE Y AS A R OF	14. 15. 1.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE BY SHALL BE EI BOLT +, SIMP (SUCH AS DE	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC <b>036002 MEC</b> THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRF	ADD REMOVAL OF MENTS SET FORT ADDITION OF CON REVIEWED AND ED CONSTRUCTION IICH WILL INCLUE SIGN OF THE STR B2203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY T UPS @ 3" O.C. EA	TRUCTION STRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER RUCTURE, SHO MBING S THREE DIAME EN SLEEVES, (E LOCATIONS THE ENGINEER ACH SIDE OF S	DINES AND DINTS FROM TH NORITING BY TH CATIONS ARE AG ING CHARGES ED DRING, ETC. LEEVES TERS CENTER WHICHEVER IS S AND SIZES NOT R. SLEEVE PENETR	TO CENTER OF TI GREATER. T SHOWN ON THE COLORNAL AND THE ENGINEER	THE THE Y AS A R OF	14. 15. 1. 2.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B' SHALL BE EI BOLT +, SIMP (SUCH AS DE TYPE OF AND MODEL OF A	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC O36002 MEC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRF	AD REMOVAL OF MENTS SET FORT ADDITION OF CON REVIEWED AND ED CONSTRUCTION IICH WILL INCLUE SIGN OF THE STR B2203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY T UPS @ 3" O.C. EA	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER RUCTURE, SHO MBING S THREE DIAME EN SLEEVES, VE LOCATIONS THE ENGINEEF ACH SIDE OF S	DINES AND DINTS FROM TH NORITING BY TH CATIONS ARE AC ING CHARGES E DRING, ETC. LEEVES TERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR	HAT SHOWN ON HAT SHOWN ON HE ENGINEER OF CCEPTABLE ONL BY THE ENGINEEI TO CENTER OF TI GREATER. T SHOWN ON THE RATIONS IN BEAM	THE THE Y AS A R OF HE S.	14. 15. 1. 2.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B' SHALL BE EI BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIC APPROVED I FOR PROPO	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC ON AGOOOO MEC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR SUBSTIT
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRM	AD REMOVAL OF MENTS SET FORT ADDITION OF CON REVIEWED AND ED CONSTRUCTI- IICH WILL INCLUE 3IGN OF THE STR B2203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY T UPS @ 3" O.C. EA 033000 PROVED MIX DE	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER RUCTURE, SHO VBING S THREE DIAME EN SLEEVES, YE LOCATIONS THE ENGINEEF ACH SIDE OF S CONCRE	DN JOINES AN IDARDS 347 AND DN JOINTS FROM TH N WRITING BY T CATIONS ARE AG ING CHARGES E DRING, ETC. LEEVES ETERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR ETE ETE	HAT SHOWN ON HAT SHOWN ON HE ENGINEER OF CCEPTABLE ONL BY THE ENGINEEI TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM	THE THE Y AS A R OF HE S.	14. 15. 1. 2. 3.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B' SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANC MODEL OF A SUBSTITUTIC APPROVED I FOR PROPOSE EOR MAY RE	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC ON ANCHORS MUST CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED OF SES OF CRITICAL LOAD
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E CONCRETE	AD REMOVAL OF MENTS SET FORT 202 CONS ADDITION OF CON E REVIEWED AND ED CONSTRUCTI- IICH WILL INCLUE 3IGN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY T UPS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL COMPRESSIVE	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER RUCTURE, SHO MBING S THREE DIAME EN SLEEVES, THREE DIAME EN SLEEVES, THE ENGINEEF ACH SIDE OF S CONCRE SIGN PROPOFILASTIC AND W	DIN JOINES AN IDARDS 347 AND DINTS FROM TH N WRITING BY T CATIONS ARE AG ING CHARGES E DRING, ETC. LEEVES ETERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR ETE RTIONED TO AC YORKABLE MIX: MP MAX	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER OF THE RATIONS IN BEAM	THE Y AS A R OF HE S. S.	14. 15. 1. 2. 3.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B' SHALL BE EI BOLT +, SIMF (SUCH AS DE TYPE OF ANC MODEL OF A SUBSTITUTIC APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC ON ADDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED OF SES OF CRITICAL LOAD VILL BE ALLOWED, AS N RAND AND MODEL OF
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE	AD REMOVAL OF MENTS SET FORT 202 CONS <sup>-</sup> ADDITION OF CON ED CONSTRUCTI- IICH WILL INCLUE SIGN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV E APPROVED BY T AUPS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL COMPRESSIVE STRENGTH	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER CONCRESSION THREE DIAME EN SLEEVES, /E LOCATIONS THE ENGINEER ACH SIDE OF S CONCRESSIGN PROPOR LASTIC AND W	DIN JOINES AN IDARDS 347 AND DINTS FROM T N WRITING BY T CATIONS ARE AC ING CHARGES E DRING, ETC. LEEVES TERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR ETE RTIONED TO AC VORKABLE MIX: MP MAXI AGG	HAT SHOWN ON THE ENGINEER OF THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM	THE Y AS A R OF HE S. STH AT	14. 15. 1. 2. 3. 4.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B' SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIC APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC O36002 MEC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE ENIS SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD VILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO IN INSTRUCTIONS (MPI MENT SPECIFIED ON D
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE	AD REMOVALOF MENTS SET FORT 202 CONS <sup>T</sup> ADDITION OF CON ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV E APPROVED BY T 20PS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL 3000 PSI 4000 PSI	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER CUCTURE, SHO MBING S THREE DIAME EN SLEEVES, /E LOCATIONS THE ENGINEER ACH SIDE OF S CONCRE SIGN PROPOR LASTIC AND W SLUM 4-6" 4-6"	DIN JOINES AN IDARDS 347 AND DINTS FROM T N WRITING BY T CATIONS ARE AC ING CHARGES E DRING, ETC. LEEVES ETERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR ETE RTIONED TO AC VORKABLE MIX: MP MAXI AGG 1" 3/4"	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MUM REGATE MAXIN W/C R 0.50 0.48	THE Y AS A R OF HE S. STH AT	14. 15. 1. 2. 3. 4. 5.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B' SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIC APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL ANC INSTALL ANC INSTALL ANC INSTALL ANC INSTALL ANC AND EMBEDI	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC O36002 MEC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE ENIS SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD VILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO IN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV E APPROVED BY T AUPS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL 3000 PSI 4000 PSI 4000 PSI	TRUCTION STRUCTION APPROVED IN ON JOINT LOO DE ENGINEER COLOCATIONS THREE DIAME EN SLEEVES, /E LOCATIONS THE ENGINEER ACH SIDE OF S CONCRE SIGN PROPOR LASTIC AND W E SLUM 4-6" 4-6" 4-6"	DINTS FROM T JOINTS FROM T N WRITING BY T CATIONS ARE AC ING CHARGES E DRING, ETC. LEEVES TERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR ETE RTIONED TO AC VORKABLE MIX: MP MAXI AGG 1" 3/4"	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MAXIM REGATE MAXIM W/C R 0.50 0.48 0.50	THE Y AS A R OF HE S. STH AT AUM ATIO	14. 15. 1. 2. 3. 4. 5.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC DURING INSTALLATION Y THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD VILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO ON INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS FALL PERFORM POS FALL PERFORM POS
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 22203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY T AUPS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL COMPRESSIVE STRENGTH 3000 PSI 4000 PSI 4000 PSI 4000 PSI	TRUCTION STRUCTION APPROVED IN ON JOINT LOO DE ENGINEER CONCRE SIGN PROPOF ACH SIDE OF S CONCRE SIGN PROPOF ASTIC AND W SIGN PROPOF ASTIC AND W SIGN PROPOF ASTIC AND W SIGN PROPOF ASTIC AND W SIGN PROPOF	DIN JOINES AN IDARDS 347 AND DINTS FROM T N WRITING BY T CATIONS ARE AC ING CHARGES E DRING, ETC. LEEVES TERS CENTER WHICHEVER IS AND SIZES NOT R. SLEEVE PENETR TONED TO AC VORKABLE MIX: MP MAXI AGG 1" 3/4" 3/4"	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MAXIM REGATE MAXIM W/C R 0.50 0.48 0.50 0.48	THE Y AS A R OF HE S. STH AT AUM ATIO	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTAL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC DURING INSTALLATION Y THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE N WRITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD YILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO DN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 03 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV E APPROVED BY T 20PS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 202 CONSTRUCTI- 1000 PSI 1000 PSI	TRUCTION STRUCTION APPROVED IN ON JOINT LOC DE ENGINEER CONCRE THREE DIAME EN SLEEVES, THREE DIAME EN SLEEVES, THE ENGINEER ACH SIDE OF S CONCRE SIGN PROPOR LASTIC AND W E SLUM 4-6" 4-6" 4-6" 4-6"	DN JOINTS         JOINTS FROM TINNER BY T         JOINTS FROM TINNER BY T         JOINTS FROM TINNER BY T         CATIONS ARE ACTING CHARGES E         DRING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         SAND SIZES NOT         RTIONED TO ACTIONED TO ACTIO	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER OF CEPTABLE ONLY BY THE ENGINEER ON ON THE CONTROL ON THE	THE Y AS A R OF HE S. STH AT AUM ATIO	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL ST INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL A	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC O36002 MEC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD VILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO N INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS FALL PERFORM POS FALL BE 1.25" AND INSTRUCTIONS NGTH AS REQUIRED TO SERVES OR DEWALT TAK
 DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 01 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS.	AD REMOVALOF MENTS SET FORT 202 CONS <sup>1</sup> ADDITION OF CON ED CONSTRUCTI 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 AUPS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PI 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI E PLACED AND C MIX DESIGN WITH	TRUCTION APPROVED IN ON JOINT LOC DE ENGINEER ON JOINT LOC DE ENGINEER SUCTURE, SHO ON SIGN PROPOR ACH SIDE OF S CONCRE SIGN PROPOR A-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6"	DN JOINTS         JOINTS FROM TO         JOINTS FROM TO         N WRITING BY TO         CATIONS ARE ACTIONS ARE ACTIONS ARE ACTIONS ARE ACTIONED CONTRUCT         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         R.         SLEEVE PENETR         TORKABLE MIX:         MP         MAXI         AGG         1"         3/4"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER O	HAT SHOWN ON THE ENGINEER OF TO CEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MAXIM REGATE MAXIM W/C R 0.50 0.48 0.50 0.48 0.50 0.48 0.50	THE Y AS A R OF HE S. STH AT AUM ATIO R	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANC MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTALLERS TRAINING SH MINIMUM EM CONCRETE S ANCHOR LEN DEPTH. TAPCON SCH DIAMETER P	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC OBCODE MACHOR OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NCHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NWRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD TILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO NINSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS IALL BE KEPT ON SITE
 DESIGN, ERECTION A MEET THE REQUIRED O32 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OCCUP FOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA	AD REMOVALOF MENTS SET FORT 202 CONS <sup>1</sup> ADDITION OF CON ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV 2 APPROVED BY T 2 UPS @ 3" O.C. EA 033000 PROVED MIX DE 3 COMPRESSIVE 3 TRENGTH 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 1000 PSI	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINE ON JOIN	DN JOINTS         JOINTS FROM TO         JOINTS FROM TO         N WRITING BY TO         CATIONS ARE ACTING CHARGES ED         ING CHARGES ED         DRING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         R.         SLEEVE PENETR         TORKABLE MIX:         MP         MAXI         AGG         1"         3/4"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER OD         DENTIFIED BY N         REQUIREMENTS	HAT SHOWN ON THE ENGINEER OF TO CEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE BATIONS IN BEAM CHIEVE A STRENG MIX NUMBER OF OF ASTM C33 FO	THE Y AS A R OF HE S. STH AT AUM ATIO R DTHER DR	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANC MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTALLERS TRAINING SF MINIMUM EM CONCRETE S ANCHOR LEN DEPTH. TAPCON SCF DIAMETER P SUBSTITUTIO INTO CONCF	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC OBCODE MAC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE NWRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD TILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO DN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL DE 1.25" AND INS NGTH AS REQU
DESIGN, ERECTION A MEET THE REQUIRED O32 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OCCUP FOUNDATIONS SHALL BE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV E APPROVED BY T AUPS @ 3" O.C. EA 033000 PROVED MIX DE 3ELOW WITH A PL 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 1000 PSI 10	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINE ON JOINT LOO DE ENGINE DE ENGINE DE ENGINE DE ENGINE D	DN JOINTS         JOINTS FROM TINNER         JOINTS FROM TINNER         JOINTS FROM TINNER         N WRITING BY T         CATIONS ARE AGING CHARGES E         DRING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         R.         SLEEVE PENETR         TORKABLE MIX:         MP         MAXI         AGG         1"         3/4"         3/4"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER O         DENTIFIED BY N         ENTS OF ASTM S         SRETE TICKETS	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MIX NUMBER OR O 0.48 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O OF ASTM C33 FC STANDARD C94 F4 SHALL BE TIME	THE Y AS A R OF HE S. STH AT AUM ATIO OR	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTALLERS TRAINING SF MINIMUM EM CONCRETE S ANCHOR LEN DEPTH. TAPCON SCF DIAMETER P SUBSTITUTIO INTO CONCF RECOMMENT (RELATIVE T	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC O36002 MEC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE N WRITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD VILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO DN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL DEPTH OF 1 SHALL BE SELECTIONS ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL DEPTH OF 1 SHALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE SECTIONS (HILTI X-1 DN BASIS. MINIMUM ED O MORTAR JOINTS IN N LANCHORS IN CONCR DRDANCE WITH ACI 350
DESIGN, ERECTION A MEET THE REQUIRED OCCUPANIES MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OCCUPANIES OR DER, WH RECORD FOR REDES OCCUPANIES OR DER, WH RECORD FOR REDES OCCUPANIES OR DER PRIOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON E REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV E APPROVED BY 1 2003 000 PROVED MIX DE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 1000 PSI	TRUCTION STRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER SUCTURE, SHO MBING S THREE DIAME EN SLEEVES, /E LOCATIONS THE ENGINEER ACH SIDE OF S CONCRE SIGN PROPOR ACH SIDE OF S CONCRE SIGN PROPOR ACH SIDE OF S CONCRE SIGN PROPOR A-6" 4-6	AND SIZES NOT CATIONS ARE AG ING CHARGES E DRING, ETC. LEEVES TERS CENTER WHICHEVER IS AND SIZES NOT CATIONED TO AC SLEEVE PENETR TONED TO AC CATONED TO AC TO AND SIZES NOT CATONED TO AC TO CATIONED TO CATIONED T	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MAXIM REGATE MAXIM W/C R 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR CO OF ASTM C33 FC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI	THE Y AS A R OF HE S. STH AT AUM ATIO OR OR	14. 15. 1. 2. 3. 4. 5. 6. 7. 8. 8. 9.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTALLERS TRAINING SF MINIMUM EM CONCRETE S ANCHOR LEN DEPTH. TAPCON SCF DIAMETER P SUBSTITUTIO INTO CONCF RECOMMENT (RELATIVE TO MECHANICAL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DURING INSTALLATION THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE N WRITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD WRITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD HULL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO DN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO REWS, OR DEWALT TAL AF ANCHORS (HILTI X-10 DN BASIS. MINIMUM ED O MORTAR JOINTS IN M L ANCHORS IN CONCR DATIONS, MINIMUM ED O MORTAR JOINTS IN M
DESIGN, ERECTION A MEET THE REQUIRED OCCUPANIES MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OCCUPANGE ORDER, WH RECORD FOR REDES PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED FOR SHALL BE PER AN AF 28 DAYS AS LISTED FOR SHALL BE PER AN AF 28 DAYS AS LISTED FOR CONCRETE STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON E REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 20PS @ 3" O.C. E/ 033000 PROVED MIX DE 32LOW WITH A PL 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI	TRUCTION TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINE ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINE DE ENGINE DE ENGINE DE ENGINE DE ENGINE DE ENGINE DE	DN JOINTS         JOINTS FROM TINNER         CATIONS ARE AGONG CHARGES FORING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOTA         SLEEVE PENETR         ETE         RTIONED TO AC         VORKABLE MIX:         MP         MAXI         AGG         1"         3/4"         3/4"         3/4"         3/4"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER O         DENTIFIED BY M         EQUIREMENTS         SRETE TICKETS ST         E MIXING WATEL         CEED ONE AND CONCERNER         CATONE ASTM ST         CATONE ASTM ST	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE RATIONS IN BEAM CHIEVE A STRENG ATIONS IN BEAM CHIEVE A STRENG MAXIM REGATE MAXIM REGATE MAXIM REGATE 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR CO 0 A STM C33 FC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC SIBILITY OF THE	THE Y AS A R OF HE S. GTH AT AUM ATIO OR NCHER DR OR	14. 15. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL AND INSTAL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DURING INSTALLATION THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE NWRITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD WITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD HULL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO DN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE SED PRIOR TO SHALL DEPTH OF 10 SHALL BE SED PRIOR TO SHALL DEPTH OF 10 SHALL BE SED PRIOR TO SHALL DEPTH OF 10 SHALL DE 1.25" AND INS NGTH AS REQUIRED TO SHALL DE SED PRIOR TO SHALL DE SED SE SE SO SE SE SE SE SE STRUCTURER'S SE SE SO SE SE SE SE SE STRUCTURER'S SE SE STRUCTURER'S SE SE SE STRUCTURER'S SE SE SE STRUCTURER'S SE SE SE SE SO SE SE SE SE SE SE SE SE SE S
DESIGN, ERECTION A MEET THE REQUIRED OCCUP ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OCCUP HANGE ORDER, WH RECORD FOR REDES PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED FOR SHALL BE PER AN AF 28 DAYS AS LISTED FOR STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON E REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE 31GN OF THE STR 32203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 2093 (2) 3" O.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 1000 PSI 100	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENG	DN JOINTS         JOINTS FROM TINNER         CATIONS ARE AGO         ING CHARGES FOR         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         AND SIZES NOT         R.         SLEEVE PENETR         ETEE         RTIONED TO AC         VORKABLE MIX:         MP         MAXI         JAI"         JAING TO ACI ST         ENTS OF ASTM SE         ENTS OF ASTM SE         ENTS OF ASTM SE         ENTING WATEL         CELAY THAN TH         SE THE RESPON         ATHE	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER TO CENTER OF THE GREATER. TSHOWN ON THE RATIONS IN BEAM MAXIM REGATE MAXIM REGATE MAXIM REGATE MAXIM REGATE MAXIM REGATE MAXIM REGATE 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0 ASTM C33 FC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTH ONE HALF (1-1/2) HAT STATED ABC ISIBILITY OF THE IE CONTRACTOR	THE Y AS A R OF HE S. GTH AT AUM ATIO OR IL IT IS OVE, OF	14. 15. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTAL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DURING INSTALLATION THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE NWRITING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD WILTING BY THE EN SED ANCHOR SUBSTIT EQUEST ENGINEERED O CHORS IN STRICT ACCO DN INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE SED PRIOR TO SHALL BE SED PRIOR TO SHALL DEPTH OF 10 SHALL BE SED PRIOR TO SHALL DEPTH OF 10 SHALL BE SED PRIOR TO SHALL DEPTH OF 10 SHALL DEPTH OF 10 SHALL DE 1.25" AND INS NGTH AS REQUIRED TO SHALL DE 1.25" AND IN STRICT NGTH AS REQUINE
DESIGN, ERECTION A MEET THE REQUIREM DANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OC MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUE DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED B SHALL BE PER AN AF 28 DAYS AS LISTED B SHALL BE PER AN AF 28 DAYS AS LISTED B SLABS-ON-GRADE CONCRETE SHALL B SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME. DEPOSITED IN ITS FIN HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON E REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 3000 FTHE STR CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 2073 0.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 P	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER	DIN JOINES AND         DN JOINTS         JOINTS FROM TH         N WRITING BY T         CATIONS ARE AD         ING CHARGES E         DRING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         AND SIZES NOT         R.         SLEEVE PENETR         TORKABLE MIX:         MP         MAXI         AGG         1"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/4"         3/8"         RDING TO ACI ST         E MIXING WATEL         E MIXING WATEL         COMPL ETED OR         CATIONEL THANTH         RING COMPOUNE         A FUGITIVE DY         COMPL ETED OR         COMPL ETED OR <td>HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MIX NUMBER ON 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR 0 OF ASTM C33 FC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME</td> <td>THE Y AS A R OF HE S. STH AT AUM ATIO OR IL IT IS OVE, OF</td> <td>14. 15. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.</td> <td>PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND FOR PROPOSE INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTAL</td> <td>ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DURING INSTALLATION THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NWRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD HILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO N INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE SECON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL DEPTH OF 10 SHALL BE SECON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL DEPTH OF 10 SHALL DEPTH OF 10 SHALL DEPTH OF 10 SHALL DE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL DE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS IALL DE SECON SECOND INFORCING BARS IN CONCR DANCHORS IN CONCR DANCHORS IN MASON DRDANCE WITH ACI 355 CONCRETE RECOGN L ANCHORS IN MASON DRDANCE WITH ICC-ES UATED FASTENERS SHOW TO STALL PERFORM POSED INFORCING BARS IN C UNLESS APPROVED B HALL NOT BE INSTALLED</td>	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MIX NUMBER ON 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR 0 OF ASTM C33 FC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME	THE Y AS A R OF HE S. STH AT AUM ATIO OR IL IT IS OVE, OF	14. 15. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND FOR PROPOSE INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTAL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DURING INSTALLATION THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NWRITING BY THE END SED ANCHOR SUBSTIT EQUEST ENGINEERED O SES OF CRITICAL LOAD HILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO N INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE SECON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL DEPTH OF 10 SHALL BE SECON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS IALL DEPTH OF 10 SHALL DEPTH OF 10 SHALL DEPTH OF 10 SHALL DE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL DE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS IALL DE SECON SECOND INFORCING BARS IN CONCR DANCHORS IN CONCR DANCHORS IN MASON DRDANCE WITH ACI 355 CONCRETE RECOGN L ANCHORS IN MASON DRDANCE WITH ICC-ES UATED FASTENERS SHOW TO STALL PERFORM POSED INFORCING BARS IN C UNLESS APPROVED B HALL NOT BE INSTALLED
DESIGN, ERECTION A MEET THE REQUIREM 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 01 01 01 01 01 01 01 01 01 01	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON E REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 3000 FTHE STR COMPRESSIVE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000	TRUCTION APPROVED IN APPROVED IN ON JOINT LOO DE ENGINEER ON STATIONS THE ENGINE DE ENGINEER ON TO AND ON TO THE TIME THE A-6" 4-6" 4-6" 4-6" 4-6" 4-6" CONCERT DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINE DE ENGINE	DIARDS 347 AND         DN JOINTS         JOINTS FROM TINN WRITING BY T         JOINTS FROM TINN WRITING BY T         JOINTS FROM TINN WRITING BY T         CATIONS ARE AGONG CHARGES E         DRING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         AGG         TI         JAIR	HAT SHOWN ON THE ENGINEER OF TO CEPTABLE ONLY BY THE ENGINEER CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MIX NUMBER OR O 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0.48 TANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC STANDARD C94 F4 SHALL BE TIME	THE Y AS A R OF HE S. STH AT AUM ATIO OR IL IT IS OVE, OF MD FHE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMF (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPOSE EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTALL AND INSTALL AND SPECIFIED B INSTALL AND INSTALL AND INSTAL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DURING INSTALLATION THE BUILDING OFFIC THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NUCHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NUCHOR SUBSTITE GUEST ENGINEERED O SES OF CRITICAL LOAD TILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO ON INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS HALL PERFORM POS HALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE KEPT ON SITE ON BASIS. MINIMUM EN CONCRETE RECOGN ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS HALL PERFORM POS HALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE KEPT ON SITE ON CONCRETE RECOGN ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS HALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE KEPT ON SITE IBEDMENT DEPTH OF 10 SHALL BE KEPT ON SITE INFORCING BARS IN C UNCHORS IN MASON ORDANCE WITH ACI 355 CONCRETE RECOGN L ANCHORS IN MASON ORDANCE WITH ACI 355 CONCRETE RECOGN L ANCHORS IN MASON ORDANCE WITH ICC-ES UATED FASTENERS SH C WITH ICCOES AC70. EINFORCING BARS IN C UNLESS APPROVED B HALL NOT BE INSTALLE ONCRETE AND/OR MASON ORDANCE WITH ICC-ES CONCRETE RECOGN L ANCHORS IN MASON ORDANCE WITH ICC-ES CONCRETE RECOGN L ANCHORS IN MASON ORDANCE WITH ACI 355 C ONCRETE RECOGN L ANCHORS IN MASON ORDANCE WITH ICC-ES CONCRETE RECOGN L ANCHORS IN STALL C ON CRETE AND/OR MASON ORDANCE WITH ICC-ES C WITH ICCOES AC70. ENTRY AND
DESIGN, ERECTION A MEET THE REQUIREM DAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OC MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUE DRAWINGS SHALL BE PLACE TWO #3 STIRF SHALL BE PER AN AF 28 DAYS AS LISTED FOR SHALL BE PER AN AF 28 DAYS AS LISTED FOR SLABS-ON-GRADE CONCRETE SHALL B SLABS-ON-GRADE CONCRETE SHALL B SLABS-ON-GRADE CONCRETE SHALL B SLABS-ON-GRADE CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME DEPOSITED IN ITS FIN HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO	AD REMOVALOF MENTS SET FORT 202 CONST ADDITION OF CON REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 3000 FTHE STR CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 RUPS @ 3" O.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 2000 PSI 4000 PSI 4000 PSI 2000 PSI 20	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINE DE ENG	DN JOINTS         DN JOINTS         JOINTS FROM TINN WRITING BY T         JOINTS FROM TINN WRITING BY T         JOINTS FROM TINN WRITING BY T         CATIONS ARE ACONG CHARGES E         DORING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOTA         SLEEVE PENETR         TONNED TO ACCONG         YP         MAXI         JOING TO ACI ST         LD CYLINDER O         DENTIFIED BY NO         RING TO ACI ST         LD CYLINDER O         DENTIFIED BY NO         REQUIREMENTS         SITS OF ASTM S         RETE TICKETS         E MIXING WATEL         DELAY THAN TH         SE THE RESPON         TATIVE AND TH         RING COMPOUND         COMPLETED OR         CUFFED OR BRO         HER ADMIXTURE	HAT SHOWN ON THE ENGINEER OF CEPTABLE ONLY BY THE ENGINEER CEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG ATIONS IN BEAM CHIEVE A STRENG MIX NUMBER OR O 0.50 0.48 0.50 0.48 0.50 0.48 CANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0.48 CANDARD C94 FO SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC ISIBILITY OF THE IS CONTRACTOR ND MEETING AST CAS SOON AS TH OKEN AREAS IN T ES MAY BE USED	THE THE Y AS A R OF HE S. TH AT ATIO OTHER OR L IT IS OVE, OF MD ETHE ONLY	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMP (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC O36002 MEC THER HEAVY DUTY CO SON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC DN ANCHORS MUST BE NCHOR SMAY BE SELEC DN ANCHORS MUST BE NCHOR SMAY BE SELEC DN ANCHORS MUST BE NCHOR SMUST BE NCHOR SMUST BE SED OF CRITICAL LOAD TILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO SES OF CRITICAL LOAD TILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO SHALL PERFORM POS HALL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO SHALL PERFORM POS HALL BE NEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE NEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE NEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE NEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE NEPT ON SITE IBEDMENT DEPTH OT 1 SHALL BE NEPT ON SITE IBEDMENT DEPTH OT 1 SHALL BE NEPT ON SITE IBEDMENT DEPTH OT 1 SHALL BE NEPT ON
DESIGN, ERECTION A MEET THE REQUIREM DOTAL ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES OT MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUCE DRAWINGS SHALL BE PLACE TWO #3 STIRM SHALL BE PER AN AF 28 DAYS AS LISTED B SHALL BE PER AN AF 28 DAYS AS LISTED B SHALL BE PER AN AF 28 DAYS AS LISTED B CONCRETE STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME I HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME I HOURS. IF FOR ANY THE CONCRETE SHALL BE CONCRETE SHALL C MEASURING, MIXING SLABS SHALL BE CU STANDARD C309 TYP SHALL BE PLACED A WATER HAS LEFT TH CURING MEMBRANE	ADD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 3000 FTHE STR 2203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 RUPS @ 3" O.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI 2000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI 5. MIX SHALL B TIFY THE OWNER 2. WITH THE ABC SHALL NOT BE 1. OF THE ENGINE 1. OF THE ENGINE	TRUCTION TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINE DE ENGINE DE ENGINEER DE ENGINEER DE ENGINE	DN JOINTS         DN JOINTS         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         CATIONS ARE ACONSTRUCT         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOTR         SLEEVE PENETR         TONNED TO ACCORS         AND SIZES NOTR         AND SIZES NOTR         AND SIZES NOTR         AND SIZES NOTR         TIT         JAR         AGG         1"         3/4"         3/4"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER O         DENTIFIED BY NO         RING COMPOUND         COMPLETED OR         CHER ADMIXTURE         E MIXING WATEL         CHER ADMIXTURE         ENDESCRIPTICHER         CHER ADMIXTURE         ENDESCRIPTICHER	HAT SHOWN ON THE ENGINEER OF CEPTABLE ONLY BY THE ENGINEER CEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MIX NUMBER OR O 0.50 0.48 0.50 0.48 0.50 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0.48 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR O 0.48 TANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC ISIBILITY OF THE IE CONTRACTOR ND MEETING AST CONTRACTOR ND MEETING AST CONTRACTOR	THE THE Y AS A R OF HE S. TH AT ATIO OTHER OR L IT IS OVE, OF MD ETHE ONLY HERE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMP (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NC NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC <b>036002 MEC</b> THER HEAVY DUTY CO PSON TITEN HD, OR HIL WALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NUCHOR MAY BE SELEC ON ANCHORS MUST BE NUCHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NUCHOR SHALL BE AS SP NCHOR SHITT SQUEST ENGINEERED O SES OF CRITICAL LOAD ULL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO NINSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESENTO SHALL PERFORM POS HALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE SED PRIOR TO SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE SED PRIOR TO SHALL PERFORM POS ALL BE SED PRIOR TO SHALL BE SED PRIOR TO SHALL SE SECTION SIN ANCHORS IN CONCR DO MORTAR JOINTS IN N ANCHORS IN CONCR DATED FASTENERS SE CONCRETE RECOGN LANCHORS IN MASON ORDANCE WITH ACI 355 CONCRETE RECOGN LANCHORS IN MASON ORDANCE WITH ACI 355 CONCRETE RECOGN LANCHORS IN MASON DATED SAPPROVED B HALL NOT BE INSTALLE ONCRETE AND/OR MASON DATED SAPPROVED B HALL NOT BE INSTALLE ONCRETE AND/OR MASON DE WITH THE REQUIRE C-ES REPORT (IBC 201
DESIGN, ERECTION A MEET THE REQUIRED 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 01 01 01 01 01 01 01 01 01 01	ADD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON REVIEWED AND ED CONSTRUCTI- 11CH WILL INCLUE SIGN OF THE STR 3000 FTHE STR 3000 PSI 4000 PSI 5. MIX SHALL B TIFY THE OWNER 2. WITH THE STRENGTION SH RED USING A DIS 2. SHALL NOT BE 1. OF THE ENGINE SHALL NOT BE 1. OF THE ENGINE 1. OF THE ENGINE	TRUCTION TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINE DE ENGINE DE ENGINE DE ENGINEER DE ENGINE	DN JOINTS         DN JOINTS         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         CATIONS ARE ACONG CHARGES E         DRING, ETC.         LEEVES         ETERS CENTER         WHICHEVER IS         AND SIZES NOT         SILEEVE PENETR         TIT         3/4"         3/4"         3/8"         RDING TO ACI ST         E MIXING WATEL         COMPLETED OR         CUFFED OR BRO         CUFFED OR BRO         CUFFED OR BRO         CUFFED OR BRO         HER ADMIXTURE         CAND SPACED I	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE BY THE ENGINEER OF ASTER TO CENTER OF THE RATIONS IN BEAM TANDARDS IN BEAM ON A8 TANDARDS AND OR LAB TESTS FO MIX NUMBER OR OF OF ASTM C33 FO STANDARD C94 FO SHALL BE TIME R IS ADDED UNTIONE HALL BE TIME R IS ADDED UNTIONE HALL BE TIME R IS ADDED UNTIONE HALL BE TIME THE COMPOUND STANDARD C94 FO SHALL BE TIME R IS ADDED UNTIONE HALL BE TIME R IS ADDED UNTIONE HALL BE TIME R IS ADDED UNTIONE HALL BE TIME IN CONTRACTOR ND MEETING AST CONTRACTOR ND MEETING A	THE Y AS A R OF HE S. TH AT ATIO OTHER OR IL IT IS OVE, OF MDD FHE ONLY HERE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE EI BOLT +, SIMP (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NO NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC <b>036002 MEC</b> THER HEAVY DUTY CO SON TITEN HD, OR HIL EWALT POWER-STUD+: CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NWRITING BY THE EN- SED ANCHOR SUBSTIT QUEST ENGINEERED O SES OF CRITICAL LOAD ILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO NINSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS ALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE 1.25" AND INS NGTH AS REQUIRED TO CONCRETE RECOGN L ANCHORS IN CONCR DRDANCE WITH ACI 352 C CONCRETE RECOGN L ANCHORS IN MASON DRDANCE WITH ICC-ES UATED FASTENERS SH C WITH ICCOES AC70. EINFORCING BARS IN C CLAL INSPECTION FOI C WITH THE REQUIRE C-ES REPORT (IBC 201
DESIGN, ERECTION A MEET THE REQUIRED OCCONSTRUCTION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES ON MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUCT DRAWINGS SHALL BE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA COARSE AGGREGAT CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME. DEPOSITED IN ITS FIN HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME. CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME. CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME. CONCRETE SHALL C MEASURING MIXING STAMPED WHEN CO THE MAXIMUM TIME. CONCRETE SHALL C MEASURING MIXING STAMPED WHEN CO THE MAXIMUM TIME. CONCRETE SHALL C MEASURING MIXING STAMPED WHEN CO THE MAXIMUM TIME. CONCRETE SHALL DE CONCRETE SHALL C MEASURING MEMBRANE CONCRETE MIX DES CALCIUM CHLORIDES WATER HAS LEFT TH CURING MEMBRANE CONCRETE MIX DES EACH PARTICULAR M	ADD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON REVIEWED AND ED CONSTRUCTI IICH WILL INCLUE SIGN OF THE STR 3000 FTHE STR CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 RUPS @ 3" O.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI 2000 PSI 4000 PSI 2000 PSI 200	TRUCTION TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINE DE ENGINE DE ENGINEER DE ENGINEER DE ENGINE	DN JOINTS         DN JOINTS         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         CATIONS ARE ACONSTRUCT         LEEVES         TERS CENTER         WHICHEVER IS         AND SIZES NOTR         SLEEVE PENETR         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         AND SIZES NOTR         SLEEVE PENETR         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         AND SIZES NOTR         STERET         TONNED TO ACCONSTRUCT         TONNE AND SIZES NOTR         TONNE AND SIZES NOTR         TONNE AND SIZES NOTR         TONNE TO ACCONSTRUCT         TONNE AND SIZES NOTR         TONNE TO ACCONSTRUCT         TONNE AND SIZES NOTR         TONNE TO ACCONSTRUCT         TONNE TO ACCONSTRUCT         CONTRACTOR AND THAN THAN THAN THAN THAN THAN THAN THAN	HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER CCEPTABLE ONLY BY THE ENGINEER CCEPTABLE ONLY BY THE ENGINEER COMPACE TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG MAXIN REGATE MAXIN REGATE MAXIN REGATE MAXIN REGATE MAXIN REGATE MAXIN REGATE MAXIN CONTRACTOR 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 0.50 0.48 CANDARD C94 F4 SHALL BE TIME R IS ADDED UNTI ONE HALF (1-1/2) HAT STATED ABC ISIBILITY OF THE IE CONTRACTOR ND MEETING AST CONTRACTOR ND	THE Y AS A R OF HE S. TH AT ATIO STH AT ATIO OTHER OR IL IT IS OVE, OF MDD FHE ONLY HERE WITH HERE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE EI BOLT +, SIMP (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NO NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC DURING INSTALLATION Y THE BUILDING OFFIC DURING INSTALLATION Y THE BUILDING OFFIC THER HEAVY DUTY CO SON TITEN HD, OR HIL EWALT POWER-STUD+: CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE NURITING BY THE ENSIST SED ANCHOR SUBSTIT SQUEST ENGINEERED ON SES OF CRITICAL LOAD ILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO N INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS JALL BE SAPPROVED B HALL NOT BE INSTALLE ONCRETE AND/OR MAX ECIAL INSPECTION FO DE WITH ICCOES AC70. SINFORCING BARS IN CONCE CE WITH THE REQUIRE C-ES REPORT (IBC 201
DESIGN, ERECTION A MEET THE REQUIRED DOTATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDOR CONCRETE OR REDOR DRAWINGS SHALL BE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E SHALL BE PER AN AF 28 DAYS AS LISTED E CONCRETE STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SPECIFICATIONS. SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICAT CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICAT CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME O DEPOSITED IN ITS FIN HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME O CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME O CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME O CONCRETE SHALL C MEASURING AB TO NO ANY NONCOMPLIANCE CONCRETE SHALL C MATER HAS LEFT THE CURING MEMBRANE CONCRETE MIX DES CALCIUM CHLORIDES MATER HAS LEFT THE CURING MEMBRANE	ADD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF CON REVIEWED AND ED CONSTRUCTI IICH WILL INCLUE SIGN OF THE STR 3000 FTHE STR CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 RUPS @ 3" O.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 2000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI 2000 PSI 200	TRUCTION TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINE DE ENGINEER DE ENGINEER DE ENGINEER DE ENGI	DN JOINTS         DN JOINTS         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         JOINTS FROM TINNE BY T         CATIONS ARE ACONSTRUCT         LEEVES         TERS CENTER         WHICHEVER IS         AND SIZES NOTR         SLEEVE PENETR         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         AND SIZES NOTR         SLEEVE PENETR         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         TONNED TO ACCONSTRUCT         AND SIZES NOTR         STERE TICKETS         AND SIZES NOTR         TONNE TO ACCONSTRUCT         TONNE TO ACCONSTRUCT         TONNE TO ACCONSTRUCT         TONNE TO ACLIST         LD CYLINDER ON         DENTIFIED BY MERCONSTRUCT         CONTRACTOR AND THE         STATIVE AND THE         CONFEED OR BROWNED	HAT SHOWN ON THE ENGINEER OF CEPTABLE ONLY BY THE ENGINEER CEPTABLE ONLY BY THE ENGINEER CEPTABLE ONLY BY THE ENGINEER CONTRACTOR TO CENTER OF THE GREATER. TO CENTER OF THE ATIONS IN BEAM MAXIN	THE Y AS A R OF HE S. HE S. TH AT ATIO STH AT ATIO OR AND FHE ONLY HERE WITH HERE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMP (SUCH AS DE TYPE OF AND MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NO NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION Y THE BUILDING OFFIC THER HEAVY DUTY CO SON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELED ON ANCHORS MUST BE N WRITING BY THE EN- SED ANCHOR SUBSTITE QUEST ENGINEERED O SES OF CRITICAL LOAD ILL BE ALLOWED, AS N RAND AND MODEL OF CHORS IN STRICT ACCO NINSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESENT TO BE USED PRIOR TO SHALL PERFORM POS HALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL PERFORM POS HALL BE 1.25" AND INS CONCRETE RECOGN LANCHORS IN CONCR DATIONS, MINIMUM ED O MORTAR JOINTS IN N LANCHORS IN MASON DATIONS, MINIMUM ED O MORTAR JOINTS IN C LANCHORS IN MASON DATIONS APPROVED B HALL NOT BE INSTALLED NACHORS IN MASON DRANCE WITH ACI 355 CONCRETE RECOGN LANCHORS IN MASON DRANCE WITH ACI 357 CONCRETE RECOGN HALL NOT BE INSTALLED CALL INSPECTION FOIL CONCRETE AND/OR MAN ECIAL INSPECTION FOIL CONCRETE AND/OR MAN DRANCHORS IN CONCRE CALL INSPECTION FOIL CONCRETE AND/OR MAN DRANCHORS IN CONCRE CONCRETE AND/OR MAN DRANCHORS IN THE CONCRE CONCRETE AND/OR MAN DRANCHORS IN CONCRE CONCRETE AND/OR MAN CONCRETE AND/OR MAN CON
DESIGN, ERECTION A MEET THE REQUIRED 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 0 0 MINIMUM SLEEVE OR PRIOR TO CONSTRUC DRAWINGS SHALL BE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E CONCRETE STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME . DEPOSITED IN ITS FH HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO THE MAXIMUM TIME . DEPOSITED IN ITS FH HOURS. IF FOR ANY THE CONCRETE SHALL C MATER HAS LEFT TH CURING MEMBRANE CONCRETE MIX DES SLABS SHALL BE CU STANDARD C309 TY SHALL BE PLACED A WATER HAS LEFT TH CURING MEMBRANE CONCRETE MIX DES ALL COLUMNS AND E CONCRETE SLABS O	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF COM REVIEWED AND ED CONSTRUCTI 11CH WILL INCLUE SIGN OF THE STR 3000 F THE STR 3000 PSI 4000 PSI 2000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 2000 PSI 4000 PSI	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE ENGINEER DE	DIARDS 347 AND         DN JOINTS         DN JOINTS         JOINTS FROM TINNE BY T         VING CHARGES F         JOINTS FROM TINNE BY T         CATIONS ARE ACONSTRUCT         LEEVES         TERS CENTER         WHICHEVER IS         AND SIZES NOTA         SLEEVE PENETR         TONNED TO ACONSTRUCT         TONNED TO ACONSTRUCT         TINNE         AND SIZES NOTA         SLEEVE PENETR         TINNE         AND SIZES NOTA         STERS CENTER         WHICHEVER IS         AND SIZES NOTA         STAND SIZES NOTA         TINN STERNER         MAXI         AGG         1"         3/4"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER O         DELAY THAN THAN THAN THAN THAN THAN THAN THAN	HAT SHOWN ON THE ENGINEER OF CEPTABLE ONLY BY THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER CONTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM CHIEVE A STRENG CONTRACTOR CO	THE Y AS A R OF HE S. HE S. TH AT ATIO STH AT ATIO OR AND FHE ONLY HERE WITH HERE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE EI BOLT +, SIMP (SUCH AS DE TYPE OF ANG MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NO NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC <b>036002 MEC</b> THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR SHALL BE AS SP NCHOR SHALL BE AS SP NCHOR SMUST BE NURTING BY THE EN SED ANCHORS MUST BE NURTING BY THE EN SED ANCHOR SUBSTIT COURS IN STRICT ACCO N INSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESEN TO BE USED PRIOR TO SHALL PERFORM POS ALL PERFORM POS ALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE 1.25" AND INS CONCRETE RECOGN LANCHORS IN CONCR CONCRETE RECOGN LANCHORS IN MASON DRANCE WITH ACI 355 CONCRETE RECOGN LANCHORS IN MASON DRANCE WITH ICC-ES UATED FASTENERS SHO CONCRETE RECOGN LANCHORS IN MASON DRANCE WITH ICC-ES UATED FASTENERS SHO CONCRETE RECOGN LANCHORS IN MASON DRANCE WITH ACI 355 CONCRETE RECOGN LANCHORS IN MASON DRANCE WITH ICC-ES CONCRETE RECOGN CONCRETE RECOGN CONCRETE RECOGN CONCRETE AND/OR MASON DRANCE WITH ICC-ES CONCRETE RECOMPACE CONCRETE AND/OR MASON DRANCE WITH ICC-ES CONCRETE AND/OR MASON CONCRETE AND/OR MASON CONCRETE AND/OR MASON CONCRETE AND/OR
DESIGN, ERECTION A MEET THE REQUIREA 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 0 MINIMUM SLEEVE SP LARGER SLEEVE OR PRIOR TO CONSTRUE PRIOR TO CONSTRUE PLACE TWO #3 STIRE SHALL BE PER AN AF 28 DAYS AS LISTED E CONCRETE STRUCTURE TYPE FOUNDATIONS SLABS-ON-GRADE CONCRETE ON METAL DECK BEAMS AND COLUMNS CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL B SUBMIT PROPOSED REVIEW PRIOR TO U POSITIVE IDENTIFICA CONCRETE SHALL C STAMPED WHEN CO THE MAXIMUM TIME DEPOSITED IN ITS FIN HOURS. IF FOR ANY THE CONCRETE SHALL C MEASURING, MIXING STAMPED WHEN CO CONCRETE SHALL BE CURING MEMBRANE CONCRETE MIX DES ALL COLUMNS AND E CONCRETE SLABS O INDICATED ON PLAN	AD REMOVALOF MENTS SET FORT 202 CONS ADDITION OF COM REVIEWED AND ED CONSTRUCTI ICH WILL INCLUE SIGN OF THE STR 3000 FTHE STR CLEAR BETWE CLEAR BETWE CLEAR BETWE CLEAR BETWE CLEAR BETWE CLEAR BETWE CLEAR BETWE CLEAR BETWE COMPRESSIVE STRENGTH 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 1000	TRUCTION APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER SIGN PROPOR A-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" 4-6" CONCRETE. SO ATED ACCOR FINISHING IS O CONCRETE. SO ATED ACCOR FINISHING IS O CONCRETE. SO ATED DAILY. UTILIZED; OTHER SIPATING CUI DE A WRITT CED WITHIN THE ALL INCLU IL BE PLACED SHALL INCLU IL BE PLACED SHALL INCLU IL BE REINFORD IETAL DECK SI	DIARDS 347 AND         DN JOINTS         DINTS FROM TINNER BY TO         VINITING BY TO         VINITING BY TO         CATIONS ARE ACONSTRUCT         CATONS ARE ACONSTRUCT         STREE CENTER         WHICHEVER IS         AND SIZES NOTA         SAND SIZES NOTA         STREE TONED TO ACONSTRUCT         CONNECT PENETR         MAXI         AMO SIZES NOTA         CONSTRUCT         MAXI         AND SIZES NOTA         CONSTRUCT         AND SIZES NOTA         CONSTRUCT         AND STATIONED TO ACONSTRUCT         CONSTRUCTURE         CONSTRUCTURE         CONSTRUCTURE         CAND SPACED INDICAT         ALLS ARE 8" AND         CED AS INDICAT         HALL BE REINFORMATION	HAT SHOWN ON THE ENGINEER OF HAT SHOWN ON THE ENGINEER OF CCEPTABLE ONLY BY THE ENGINEER TO CENTER OF THE GREATER. T SHOWN ON THE RATIONS IN BEAM THE ENGINEER CONTRACTOR MAXIM REGATE MUM REGATE MUM REGATE MUM REGATE CO.50 0.48 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	THE Y AS A R OF HE S. TH AT S. TH AT ATIO OTHER OTHER OR IL IT IS OVE, OF MDD FHE ONLY HERE CONLY HERE	<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE EI BOLT +, SIMP (SUCH AS DE TYPE OF ANA MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FO EMENTS OF THE APPL 2018 TABLE 1705.3 NO NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC DOBOO2 MEC THER HEAVY DUTY CO PONTITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELEC ON ANCHORS MUST BE N WRITING BY THE EN- SED ANCHOR SUBSTIT GUEST ENGINEERED O SES OF CRITICAL LOAD NUNSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESENT TO BE USED PRIOR TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 15 SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 15 SHALL BE 1.25" AND INS ORTH AS REQUIRED TO SHALL PERFORM POS IALL BE KEPT ON SITE IBEDMENT DEPTH OF 15 SHALL BE 1.25" AND INS CONCRETE RECOGN LANCHORS IN CONCR DATIONS, MINIMUM ED O MORTAR JOINTS IN MASON DR DANCE WITH ACI 355 CONCRETE RECOGN LANCHORS IN MASON DR DANCE WITH ICC-ES UATED FASTENERS SF CONCRETE RECOGN LANCHORS IN MASON DR DANCE WITH ICC-ES UATED FASTENERS SINC CUNCES APPROVED B HALL NOT BE INSTALLE OCENT OF CING BARS IN C UNLESS APPROVED B HALL NOT BE INSTALLE OCENT OF CONCRETION FOI CONCRETE REQUIRE C-ES REPORT (IBC 201
DESIGN, ERECTION A MEET THE REQUIREA 032 ANY DEVIATION OR A DRAWINGS MUST BE RECORD. ALTERNATE OR ADD CHANGE ORDER, WH RECORD FOR REDES 00000000000000000000000000000000000	ADD REMOVALOF MENTS SET FORT 202 CONST ADDITION OF COM REVIEWED AND ED CONSTRUCTI IICH WILL INCLUE SIGN OF THE STR 3000 FTHE STR 2203 PLUE ACING SHALL BE 6" CLEAR BETWE CTION ALL SLEEV APPROVED BY 1 RUPS @ 3" O.C. E/ 033000 PROVED MIX DE 3000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 4000 PSI 1000 PSI 2000 PSI 20	TRUCTION APPROVED IN APPROVED IN ON JOINT LOO DE ENGINEER ON JOINT LOO DE ENGINEER SIGN PROPOR I CONCRET A-6" A-6	DIARDS 347 AND         DN JOINTS         DINTS FROM TINNER BY TO         N WRITING BY TO         CATIONS ARE ACONG CHARGES ED         DOINTS FROM TINNE BY TO         CATIONS ARE ACONG CHARGES ED         DOINTS FROM TINNE BY TO         CATIONS ARE ACONG CHARGES ED         DOINTS, ETC.         LEEVES         TERS CENTER         WHICHEVER IS         AND SIZES NOTA         SLEEVE PENETR         TONNED TO ACONG         YORKABLE MIX:         MP         MAXI         AGGI         1"         3/4"         3/8"         RDING TO ACI ST         LD CYLINDER OD         DENTIFIED BY NO         REQUIREMENTS         SINTS OF ASTM SUMATED         CATIONED TO ACI ST         LD CYLINDER OD         DELAY THAN THOM         STATIVE AND THOM         RING COMPOUND         COMPLETED OR         CUFFED OR BRO         HER ADMIXTURE         ENDESCRIPTICH         HE ADMIXTURE         CAND SPACED INDICATED         HALL BE REINFOR         MALLS ARE 8" AND         CED A	HAT SHOWN ON THE ENGINEER OF CEPTABLE ONLY SY THE ENGINEER CEPTABLE ONLY SY THE ENGINEER CEPTABLE ONLY CREATER. TO CENTER OF THE GREATER. TSHOWN ON THE RATIONS IN BEAM CREATER. TSHOWN ON THE RATIONS IN BEAM CREATER. TSHOWN ON THE RATIONS IN BEAM CONTRACTOR 0.50 0.48 0.50 0.50 0.48 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5		<ol> <li>14.</li> <li>15.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> </ol>	PROVIDE SP THE REQUIR REPORT (IBC ADHESIVE A ORIENTATIO INSPECTED PURPOSE B SHALL BE ET BOLT +, SIMP (SUCH AS DE TYPE OF ANA MODEL OF A SUBSTITUTIO APPROVED I FOR PROPO EOR MAY RE IN SOME CAS ANCHORS W SPECIFIED B INSTALL AND INSTALL	ECIAL INSPECTION FOR EMENTS OF THE APPLE 2018 TABLE 1705.3 NO NCHORS INSTALLED IN NS TO RESIST SUSTAIL DURING INSTALLATION THE BUILDING OFFIC <b>O36002 MEC</b> THER HEAVY DUTY CO PSON TITEN HD, OR HIL EWALT POWER-STUD+ CHOR SHALL BE AS SP NCHOR MAY BE SELED ON ANCHORS MUST BE NWRITING BY THE EN- SED ANCHOR SUBSTIT COURS IN STRICT ACCO NARCHORS SUBSTIT COURS IN STRICT ACCO NINSTRUCTIONS (MPI MENT SPECIFIED ON D ACTURER'S REPRESENT OS BE USED PRIOR TO SHALL PERFORM POS HALL BE KEPT ON SITE IBEDMENT DEPTH OF 1 SHALL BE 1.25" AND INS NGTH AS REQUIRED TO SHALL BE 1.25" AND INS NGTH AS REQUIRED TO CONCRETE RECOGN LANCHORS IN CONCR DO MORTAR JOINTS IN N LANCHORS IN MASON DRDANCE WITH ICC-ES UATED FASTENERS SP CONCRETE RECOGN LANCHORS IN MASON DRDANCE WITH ICC-ES UNTH ICCOES AC70. EINFORCING BARS IN C UNLESS APPROVED B HALL NOT BE INSTALLE ONCRETE AND/OR MAX DONCRETE AND/OR MAX

033003 CONCRETE TESTING	1	042200 MASONRY WALLS
ST IN PLACE CONCRETE: ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT		REQUIREMENTS FOR MASONRY STRUCTURES" AND TMS 602-2016 "SPECIFICATION FOR MASONRY STRUCTURES".
CONCRETE." ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF	2.	MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 2000 PSI ON THE NET AREA (fm = 2000 PSI). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270.
CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED LAB CURED CYLINDER QUANTITIES AND TEST AGE AS FOLLOWS:	3.	GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND WITH 3/8" MAXIMUM ACCREGATE
(2) AT 7 DAYS (2) AT 28 DAYS	4.	PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE. LAP
IE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE IGINEER, IF REQUIRED. IF 28-DAY STRENGTH IS ACHIEVED, THE ADDITIONAL	5.	BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS AND AS SHOWN ON THE
LINDER(S) MAY BE DISCARDED.	6.	DRAWINGS. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE
036001 CHEMICAL (ADHESIVE) ANCHORS	7.	AND/OR BELOW, UNLESS NOTED OTHERWISE. USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO
ALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY200, TI RE500 SD, DEWALT PURE 110+, DEWALT AC200+, OR SIMPSON SET ADHESIVE STEM, OR ENGINEER APPROVED SUBSTITUTION	8.	AREA AS REQUIRED. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT
OXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE, PENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE SED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC	9.	FILLED CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS. PROVIDE PREFABRICATED "TEE" OR CORNER SECTIONS AT WALL INTERSECTIONS
ONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED HERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN PROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE LOWED AS SUBSTITUTES. ICC-ES REPORTS FOR PROPOSED ANCHOR SUBSTITUTIONS JST BE SUBMITTED TO EOR FOR REVIEW. EOR MAY REQUIRE ENGINEERED LCULATIONS FOR REVIEW AND APPROVAL.	10.	CONTROL JOINTS SHALL BE CONSTRUCTED IN CONCRETE MASONRY CONSTRUCTION AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 25'-0" AND NOT MORE THAN 12'-6" FROM CORNERS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. CONSTRUCT INTERIOR CONTROL JOINTS AT A MAXIMUM HORIZONTAL SPACING OF 32'-0" OR 16'-0" FROM CORNERS. NO JOINTS SHALL BE LOCATED WITHIN 2'-0" OF STEEL BEAM
BSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS PROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING INDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE IGINEER OF RECORD.	11	BEARINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.
STALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED STALLATION INSTRUCTIONS (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING,	11.	OTHER POSITIVE IDENTIFICATION SHALL UNIQUELY IDENTIFY MIX.
D EMBEDMENT SPECIFIED ON DRAWINGS. HESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD	12.	CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE.
RIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A RTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 3-14 D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE IGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.	14.	CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. AFTER INSPECTION AND BEFORE GROUTING, THE REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED
E MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL ODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED STALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF	15.	ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.
E CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT	16.	VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
OXY INTO THE HOLES IN ACCORDANCE WITH THE MANUFACTURERS MPIL	17.	CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. SAMPLE AND TEST GROUT PER ASTM C1019.
IRED AND HAS ACHIEVED IT'S SPECIFIED STRENGTH. CURE TIME SHALL BE PER NUFACTURERS PUBLISHED VALUES FOR SPECIFIC PRODUCT BEING USED.	18.	GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY
DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY CESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES OT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.	19.	WHEN TOTAL GROUT POUR EXCEEDS 5'-4" FEET IN HEIGHT, (HIGH LIFT GROUTING), THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5
ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED, UNCRACKED, AND ISMIC CONCRETE RECOGNITION.	20.	WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS
ISTING REINFORCING IN CONCRETE AND/OR MASONRY CONSTRUCTION SHALL NOT	21.	THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED. WHERE CONCRETE BEAMS ARE INSTALLED IN CONCRETE MASONRY WALL, SUPPORT
CUT UNLESS APPROVED BY THE EOR.		SCREENING OR PUR-O-STOP OF EQUAL CENTERED OVER BLOCK WORK. USE OF ROOFING FELT STRIPS WILL NOT BE PERMITTED.
OVIDE SPECIAL INSPECTION FOR ALL ADHESIVE ANCHORS IN ACCORDANCE WITH E REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE CURRENT ICC-ES	22.	MASONRY WALLS MARKED AS "LOAD BEARING" ARE DESIGNED TO CARRY FLOOR GRAVITY LOADS AND MUST BE CONSTRUCTED TO SUPPORT THE CONCRETE FLOOR SLAB CONCURRENTLY WITH CONCRETE COLUMN CONSTRUCTION.
PORT (IBC 2018 TABLE 1705.3 NOTE B). HESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED	23.	MASONRY WALLS INDICATED AS "INFILL" ARE DESIGNED TO RESIST LATERAL LOADS AND MUST BE CONSTRUCTED AFTER THE CONCRETE SLAB IS CAST AND POST TENSIONING OPERATION IS COMPLETED. INFILL WALLS SHALL BE CONSTRUCTED
RIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY SPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT IRPOSE BY THE BUILDING OFFICIAL (ACI 318-14 D.9.2.4)		STARTING AT THE FOUNDATION LEVEL AND WORKING UPWARD ONE LEVEL AT A TIME. DO NOT START NEXT HIGHER LEVEL OF WALL PRIOR TO COMPLETION OF WALL BELOW. ALLOW A MINIMUM OF 3 DAYS CURING FOR GROUT OF WALL BELOW PRIOR TO STARTING WALL ABOVE.
036002 MECHANICAL ANCHORS	24.	SINGLE STORY MASONRY WALLS INDICATED AS "PARTITION WALLS" SHALL BE CAST ON THICKENED SLAB FOUNDATIONS AND ARE NOT DESIGNED TO CARRY ANY LOADS FROM THE MAIN BUILDING STRUCTURES. ISOLATE TOP OF PARTITION WALLS FROM UNDERSIDE OF CONCRETE SLAB WITH A MINIMUM 1/2" THICK COMPRESSIBLE MATERIAL.
IT +, SIMPSON THEN HD, OR HILTHUS-H) OR WEDGE TYPE EXPANSION ANCHOR JCH AS DEWALT POWER-STUD+SD1, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT TZ).	25.	PROVIDE DOVETAIL ANCHORS AT 16" C/C, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
DEL OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND DEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. BSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND PROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE LCC-ES REPORTS	26.	SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.
R PROPOSED ANCHOR SUBSTITUTES MUST BE SUBMITTED TO EOR FOR REVIEW. R MAY REQUEST ENGINEERED CALCULATIONS FOR REVIEW AND APPROVAL.	27.	REINFORCING SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC CHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE ECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.	28.	SECURE APPROVAL OF REINFORCING SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
STALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED STALLATION INSTRUCTIONS (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING,	29.	PROVIDE STANDARD HOOKS AT ENDS OF ALL BARS WHICH TERMINATE IN TIE BEAMS OR BOND BEAMS.
D EMBEDMENT SPECIFIED ON DRAWINGS. E MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS FOR ALL	30.	WHERE REINFORCING IS SHOWN CONTINUOUS, LAP SPLICE BARS IN ACCORDANCE WITH SPLICE TABLE IN TYPICAL DETAIL.
ODUCTS TO BE USED PRIOR TO COMMENCEMENT OF WORK. ONLY TRAINED STALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF AINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE EOR AS REQUESTED.	31.	PROVIDE DOWELS INTO FOUNDATIONS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH LAP SPLICES PER SPLICE TABLE IN TYPICAL DETAIL, UNO.
NIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS OR POWERS TAPPER + INSTALLED IN INCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT CHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT PTH.	32.	MECHANICAL BAR COUPLERS MAY BE USED TO SPLICE CONTINUOUS BARS, IN LIEU OF LAP SPLICES. BAR COUPLERS MUST ACHIEVE 125% OF BAR STRENGTH MINIMUM. COUPLERS MAY BE BOLTED TYPE (DAYTON D-250 BAR-LOCK S-SERIES COUPLER OR EQUAL) OR THREADED TYPE (DAYTON D310 TAPER-LOCK COUPLER OR EQUAL). COUPLERS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTALLATION
PCON SCREWS, OR DEWALT TAPPER +, MAY BE REPLACED W/ 0.157" SHANK METER PAF ANCHORS (HILTI X-U, POWERS CSI, OR APPROVED EQUAL) ON A 1:1 BSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED O CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION COMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS ELATIVE TO MORTAR JOINTS IN MASONRY).	33.	AT CHANGES IN DIRECTION OF BOND BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.
CHANICAL ANCHORS IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR E IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC 193 FOR CRACKED UNCRACKED		042203 TIE BEAMS
D SEISMIC CONCRETE RECOGNITION.	1.	BEAMS WITH THE PREFIX "TB" SHALL BE OF CONCRETE, POURED AFTER THE MASONRY WALLS BELOW ARE IN PLACE.
E IN ACCORDANCE WITH ICC-ES AC01 OR AC106.	2.	REINFORCING SHALL BE CONTINUOUS THROUGH TIE BEAMS WITH MINIMUM LAP SPLICES OF 48 BAR DIAMETERS AND BENT BARS AT CORNERS.
CORDANCE WITH ICCOES AC70.	3.	USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH TMS 602 (SOLID METAL OR FELT CAVITY CAPS ARE PROHIBITED).
T BE CUT UNLESS APPROVED BY THE EOR. CHORS SHALL NOT BE INSTALLED IN CONCRETE AND/OR MASONRY CONSTRUCTION TIL THE CONCRETE AND/OR MASONRY HAS CURED FOR AT LEAST 21-DAYS.	4.	AT TIE BEAMS DIRECTLY OVER OPENINGS, REDUCE SPACING OF STIRRUPS OVER THE OPENING TO EITHER HALF OF TYPICAL SPACING, OR D/2, WHICHEVER IS LESS. THIS REQUIREMENT SHALL ALSO APPLY WHERE HEIGHT OF MASONRY BETWEEN BOTTOM OF TIE BEAM AND TOP OF OPENING IS LESS THAN THE WIDTH OF THE OPENING DIVIDED BY
OVIDE SPECIAL INSPECTION FOR ALL MECHANICAL POST INSTALLED ANCHORS IN CORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE AND THE RRENT ICC-ES REPORT (IBC 2018 TABLE 1705.3 NOTE B).	5.	TWO. WHERE TIE BEAMS CANTILEVER OUT FROM SUPPORTING WALL, TOP AND BOTTOM BARS SHALL BE FULLY DEVELOPED INTO TIE BEAM BEYOND SUPPORT, EITHER BY PROVIDING FULL CLASS B LAP SPLICE OR STANDARD ACI HOOKS EMBEDDED DEEP ENOUGH BEYOND SUPPORT TO DEVELOP STRENGTH OF BAR. ALSO, REDUCE STIRRUP SPACING PER NOTE ABOVE.

STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

ASTM A992 (Fy=50 KSI)

ASTM A53, GRADE B (Fy=35 KSI

ASTM A500, GRADE B (Fy=46 KSI)

ASTM A500, GRADE B (Fy=42 KSI)

ASTM F1554 GR. 36 (Fy=36 KSI)

ASTM A36 (Fy=36 KSI)

ASTM A325 OR A490

ASTM A36 (Fy=36 KSI)

ASTM A108 (Fu=65 KSI)

ASTM A563

ASTM F436

ANGLES, CHANNELS AND PLATES **RECTANGULAR HSS** ROUND HSS HIGH STRENGTH BOLTS THREADED RODS HEAVY HEX NUTS HARDENED STEEL WASHERS

WIDE FLANGE SHAPES

10

ANCHOR RODS SHEAR STUD CONNECTORS

CONNECTIONS: BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AIS¢ APPROVED METHOD. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE.

DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES, GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL COLUMNS DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO

DETAIL IS PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER. DETAIL MOMENT CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL MOMENT CONNECTION USING FULL PENETRATION WELDS AT BEAM FLANGES.

HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.

ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE

NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL DECK, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCREEDED LEVEL.

SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91 UNLESS NOTED OTHERWISE ON DRAWINGS. LENGTH OF SHEAR STUD CONNECTIONS IN COMPOSITE SLABS SHALL EQUAL THE DEPTH OF THE COMPOSITE DECK PLUS 2" (U.N.O.).

THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.

# 051201 WELDING

WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION IN ACCORDANCE WITH AWS D1.1. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS.

THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.

FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.

PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS. THE MINIMUM FILLET WELD SIZE IS 3/16" UNLESS OTHERWISE NOTED.

# 051202 SHEAR STUD CONNECTORS

SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", SECTION 7 - STUD WELDING. ATTACHMENT OF STUDS SHALL BE SUFFICIENT TO DEVELOP THE FULL CAPACITY OF EACH INDIVIDUAL STUD.

STUDS SHALL BE TYPE 'B', HEADED STUDS HAVING A MINIMUM TENSILE STRENGTH OF 65,000 PSI. AND SHALL BE OF LENGTH AND DIAMETER SHOWN ON STRUCTURAL DRAWINGS.

SEE PLANS FOR SPECIFIED NUMBER OF SHEAR CONNECTORS. UNLESS NOTED OTHERWISE ON PLANS, SHEAR CONNECTORS SHALL BE EQUALLY

DISTRIBUTED ALONG THE LENGTH OF BEAM. MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE AS FOLLOWS:

BEAMS PERPENDICULAR TO DECK SPAN = 36"

BEAMS PARALLEL TO DECK SPAN = (8 X TOTAL SLAB THICKNESS) SHEAR CONNECTORS SHALL BE PLACED IN A SINGLE ROW DIRECTLY OVER THE BEAM WEB, WHENEVER POSSIBLE. STUDS SHALL BE PLACED IN TWO OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBER OF STUDS.

WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (AND THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR

ENGINEER'S APPROVAL. SHEAR CONNECTORS SHALL BE 3/4" DIAMETER. FOR USE WITH 11/2" METAL DECK AND 4" TOTAL SLAB THICKNESS, USE 3" LONG SHEAR CONNECTORS. FOR USE WITH 11/2" OR 2" METAL DECK AND 5" MINIMUM TOTAL SLAB THICKNESS, USE 4" LONG SHEAR CONNECTORS. FOR USE WITH 3" METAL DECK AND 6" MINIMUM TOTAL SLAB THICKNESS, USE 5" LONG SHEAR CONNECTORS.

# 052100 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, LATEST EDITION. JOIST SIZES SHOWN ON PLANS ARE MINIMUM SIZES BASED ON SJI STANDARD UNIFORM GRAVITY LOAD TABLES. THE JOIST MANUFACTURER MAY INCREASE THE SIZE OF THE JOISTS, WITHIN THE SAME DEPTH CLASS, AS REQUIRED TO ACCOUNT FOR UPLIFT LOADS OR OTHER NON-STANDA .. ENDS OF BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. MINIMUM JOIST BRIDGING TERMINATION CONNECTIONS TO MASONRY SHALL BE L3x3x1/4x3" LONG WITH (1) 1/2" DIAMETER ANCHOR BOLT OR L4x4x1/4x0'-3" WITH (1) 1/2"x5" ANCHOR BOLT TO CONCRETE.

BRIDGING SHALL BE WELDED OR BOLTED AT POINTS OF CONTACT. WELD SHALL NOT DAMAGE THE JOIST. CROSS BRIDGING SHALL BE WELDED OR BOLTED AT ITS CENTER POINT. BRIDGING SHALL BE STRAIGHT FROM JOIST TO JOIST. CHANGES IN SLOPE OR DIRECTION SHALL BE MADE AT A JOIST, NOT BETWEEN JOISTS.

K-SERIES JOISTS SHALL BEAR A MINIMUM OF 21/2" ON STEEL BEAMS AND 4" ON CONCRETE BEAMS. JOIST BEARING PLATES TO BE MINIMUM 3/8"x4"x71/2" WITH (2) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES FOR BACK TO BACK SINGLE JOISTS SHALL BE MINIMUM 3/8"x7<sup>1</sup>/<sub>2</sub>"x7<sup>1</sup>/<sub>2</sub>" WITH (4) 1/2" DIAMETER X 5" SHEAR STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATES WITH A MINIMUM OF (2) 1/8" FILLET WELDS, UNLESS NOTED.. HANGERS FOR SUPPORT OF EQUIPMENT, OR MEMBERS SUPPORTING SUCH HANGERS, SHALL BE LOCATED AT PANEL POINTS OF JOISTS, AND SHALL BE HUNG FROM THE TOP.. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTAL SHALL INCLUDE LAYOUT, COMPONENT DESIGNATION, BRIDGING, AND.. SUBMITTALS FOR JOISTS, OTHER THAN STANDARD SJI CATALOG SELECTIONS WHICH HAVE BEEN VERIFIED BY SJI, SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN... JOISTS SHALL BE DESIGNED TO SUPPORT THE LOADS LISTED IN SECTION \*\*\*010002 (FBC) / 010003 (IBC)\*\*\*, THOSE INDICATED ON PLANS, AND AN ADDITIONAL CONCENTRATED DEAD LOAD NOT TO EXCEED 500# TO BE PLACED AT ANY PANEL ALONG THE LENGTH OF THE JOIST. DEAD LOADS SHALL BE IN ACCORDANCE WITH THE MATERIALS SHOWN WITHIN..

# JOIST BOTTOM CHORDS SHALL BE DOUBLE ANGLES.

10.

11.

12.

14

15.

JOISTS ARE TO BE DESIGNED TO ALLOW 1" MAXIMUM DIFFERENCE IN CAMBER BETWEEN ADJACENT PARALLEL JOISTS. ALL STEEL JOISTS GREATER THAN FORTY FEET IN LENGTH REQUIRE A ROW OR BOLTED BRIDGING TO BE IN PLACE PRIOR TO SLACKENING OF HOIST LINES. (U.N.O.)

JOIST MANUFACTURER SHALL COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LOADS DUE TO EQUIPMENT TO BE SUPPORTED BY ROOF STRUCTURE. ALL ADDITIONAL LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWIN.. WHERE ROOF JOISTS ARE USED TO BRACE STEEL ROOF BEAMS (AS SHOWN ON PLANS AND DETAILS), DESIGN JOISTS TO RESIST A 500 LB AXIAL BRACE LOAD AT EACH BRACE. THIS LOAD SHALL ACT CONCURRENTLY WITH ALL WIND LOAD CASES AND COMBINATIONS.

## 053101 COMPOSITE STEEL DECK SHALL BE GALVANIZED (G90), CORRUGATED STEEL COMPOSITE DECK OF GAGE AND DEPTH INDICATED ON DRAWINGS, CONFORMING TO STEEL DECK INSTITUTE SPECIFICATION FOR COMPOSITE FLOOR DECK. DECK SHALL HAVE DEFORMATIONS TO PROVIDE ADEQUATE MECHANICAL INTERLOCKING BETWEEN DECK AND CONCRETE FOR COMPOSITE ACTION. PROVIDE 5/8" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN AT SUPPORTS, AND AT 12" C/C ALONG EDGE SUPPORTS. SIDE LAPS BETWEEN DECKS SHALL BE WELDED OR FASTENED USING #10 TEK SCREWS AT A MAXIMUM SPACING OF 36 INCHES, WITH NO LESS THAN (2) #10 TEKS SCREWS PER SIDE LAP SPAN. BUTTON PUNCHING OF SIDE LAPS IS NOT PERMITTED. CONDUIT LOCATED IN SLAB ON METAL DECK SHALL BE NO GREATER THAN 3/4" DIA. AND SHALL BE GALVANIZED STEEL CONDUIT MAINTAIN 2" MINIMUM COVER OVER CONDUIT AT ALL TIMES, INCLUDING LOCATIONS WHERE CONDUITS CROSS EACH OTHER. CONDUITS SHALL CROSS AT 90 DEGREES TO EACH OTHER. CONDUIT IN CONCRETE SLAB ON METAL DECK SHALL NOT BE SPACED CLOSER THAN 6" O.C. MINIMUM. DO NOT RUN CONDUIT CONTINUOUSLY IN DECK FLUTES. 10. CONDUIT SHALL BE ADEQUATELY FASTENED TO DECK TO PREVENT SHIFTING DURING CONCRETE POUR. 055100 STEEL STAIRS ENGINEERED STEEL STAIR SYSTEM AND CONNECTIONS OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE CONFIGURATION OF THE STEEL STAIR SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. THE ENGINEERED STAIR SYSTEM SHALL INCLUDE THE STAIRS, LANDINGS, SUPPORT FRAMING, POSTS, HANGERS, AND CONNECTIONS TO THE BUILDING STRUCTURE. UNLESS NOTED OTHERWISE. CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE COMPATIBLE WITH THE STRUCTURE SHOWN ON THE CONTRACT DRAWINGS. STEEL STAIR SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE FLORIDA BUILDING CODE, 7th EDITION (2020). THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE STEEL STAIR SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. 055213 RAILINGS ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE CODES. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. 061000 WOOD WOOD CONSTRUCTION DESIGN, INCLUDING ALLOWABLE FORCES, LOAD FACTORS, ANCHOR SPACING, AND MINIMUM ALLOWABLE FIBER STRESSES SHALL CONFORM TO 2015 NATIONAL DESIGN SPECIFICATION (NDS). STRUCTURAL WOOD COMPONENTS (BEAMS, JOISTS, RAFTERS, ETC.) SHALL BE NO. 2

GRADE SOUTHERN PINE (S-P), UNLESS NOTED OTHERWISE ON THE DRAWINGS. PRESSURE TREATED LUMBER AND TIMBERS SHALL BE NO. 1 GRADE SOUTHERN PINE (OR BETTER).

STANDARD U.S.S. WASHERS SHALL BE USED BETWEEN WOOD AND BOLT HEADS AND NUTS. BOLTS AND SCREWS SHALL BE ASTM A-307, ALL SHALL BE GALVANIZED.

WHERE BEAMS ARE FORMED WITH TWO OR MORE MEMBERS, THEY SHALL BE ADEQUATELY FASTENED TOGETHER THROUGHOUT THEIR LENGTH.

JOISTS SHALL BE ADEQUATELY SUPPORTED AT THEIR ENDS BY SOLID BLOCKING OR OTHER MEANS TO PREVENT ROTATION.

- STUD WALLS SHALL BE AS FOLLOWS, U.N.O.:
- EXTERIOR WALLS: #1 S-P, 2X6 @ 16" O.C. Α.
- NON-LOAD BEARING WALLS: STUD GRADE S-P, 2X4 OR 2X6 @ 16" O.C. DOUBLE STUDS SHALL BE PROVIDED AT EACH END OF BEAMS AND ON EACH SIDE OF
- OPENINGS. 4'-0" WIDTH. PROVIDE TRIPLE STUDS EACH SIDE OPENINGS TO 7'-0" IN WIDTH, U.N.O. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR
- PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS. USE AWPA TREATMENT C1 USING WATERBORNE PRESERVATIVE WITH 0.25 PERCENT RETAINAGE.
- MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE. 10. PLYWOOD SHEATHING:
  - ROOF SHEATHING SHALL BE 5/8" APA STRUCTURAL 1 RATED PLYWOOD SHEATHING, 40/20 SPAN, EXPOSURE 1, SQUARE EDGES. ROOF SHEATHING SHALL BE NAILED TO WOOD FRAMING IN ACCORDANCE WITH THE BUILDING CODE. WHERE BLOCKING ALONG PANEL EDGES IS NOT REQUIRED, PROVIDE PANEL SHEATHING CLIPS (SIMPSON PSCL OR EQUAL) BETWEEN ADJACENT PLYWOOD PANELS AT ONE CLIP PER SPAN, FOR SPANS UP TO 24". USE 2 CLIPS FOR SPANS OVER 24".
  - WALL SHEATHING SHALL BE 1/2" APA RATED PLYWOOD SHEATHING, 32/16 SPAN, EXPOSURE 1, SQUARE EDGES. NAIL PLYWOOD TO ALL SUPPORTS WITH, AT A MINIMUM, 10d NAILS AT 6" O.C. AT ALL PLYWOOD EDGES AND @ 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. PROVIDE 10d NAILS @ 3" O.C. INTO TOP MOST TOP PLATE AND SILL PLATE. PLYWOOD PANELS SHALL HAVE STRENGTH AXIS SET VERTICALLY, PARALLEL TO STUD AXIS. AT HORIZONTAL SPLICE JOINTS, PROVIDE 3-10d NAILS @ 3" O.C. ABOVE AND BELOW THE SPLICE AT EACH STUD, AND PROVIDE 2X4 BLOCKING LAID FLATWISE BEHIND THE SPLICE. NAIL SHEATHING TO SPLICE BLOCKING USING 10d NAILS @ 3" O.C. ACROSS THE BLOCKING.
- 11. REINFORCE ALL LOAD BEARING STUDS WHICH HAVE BEEN NOTCHED OR DRILLED THROUGH FOR UTILITY ROUTING PER TYPICAL REINFORCING DETAILS.
- 12. PLYWOOD USED IN WET CONDITIONS, INCLUDING SPACERS IN BUILT-UP BEAMS, SHALL BE EXTERIOR GRADE, PRESSURE TREATED PLYWOOD.





- 061753 WOOD TRUSSES PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES AND THEIR CONNECTIONS TO EACH OTHER SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. NO WANES, SKIPS, KNOTS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT
- AREA OR SCARFED AREA OF WEB MEMBERS. PLATES SHALL BE CENTERED WITH EACH SIDE OF TRUSS.
- NUMBER OF PANELS AND DIRECTION OF WEB MEMBERS TO SUIT CONDITIONS OR SIMPLE 3. SPAN TRUSS REQUIREMENTS. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ANY SPECIAL CONDITIONS/LOCATIONS OF PANEL JOINTS.
- A. DETAILER NOTE THAT ALL WOOD MEMBER SIZES SHOWN ARE NOMINAL, U.N.O.
- B. DESIGN OF METAL PLATE CONNECTED ROOF TRUSSES TO COMPLY WITH NFPA'S NATIONAL DESIGN SPECIFICATION FOR THE DESIGN OF LUMBER AND ITS FASTENINGS: 1. ANSI/TPI 1-2014 - NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED
- WOOD TRUSS CONSTRUCTION. 2. FLORIDA ADMINISTRATIVE CODE 61G15.
- ALTERNATE TRUSS LAYOUTS ARE ACCEPTABLE ONLY AS A CHANGE ORDER. WHICH WILL 4 INCLUDE ENGINEERING CHARGES FOR REDESIGN OF THE STRUCTURE BY THE ENGINEER OF RECORD.
- TRUSS DESIGN LOADS ARE AS FOLLOWS: 5. A. SLOPED ROOF TRUSSES, 4:12 OR GREATER SLOPE
  - TOP CHORD:

IC	P CHORD:	
	LIVE LOAD	20 PSF
	DEAD LOAD	10 PSF
BC	TTOM CHORD:	
	LIVE LOAD	10 PSF
	DEAD LOAD	10 PSF
	UPLIFT	PER PLAN

LOAD DURATION FACTOR:

DEAD LOAD	0.90
DEAD LOAD + FLOOR LIVE LOAD	0 1.00
DEAD LOAD + ROOF LIVE LOAD	1.25
DEAD LOAD + WIND LOAD	1.33

- B. MECHANICAL UNITS AND OTHER SUPERIMPOSED LOADS AS SHOWN ON THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- C. INDIVIDUAL TRUSSES ARE TO BE DESIGNED FOR SPECIFIC FRAMING CONDITIONS AND CONCENTRATED LOADS RESULTING FORM EQUIPMENT WEIGHTS AND OTHER LOADS AS INDICATED ON THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTOR TYPES UTILIZED WITHIN TRUSSES, AS WELL AS CONNECTORS UTILIZED IN OTHER CONNECTIONS AND ATTACHMENTS BETWEEN TRUSSES OR COMPONENTS SUPPLIED AS PART OF THE
- ENGINEERED TRUSS SYSTEM. AN ERECTION DRAWING SHALL BE INCLUDED, IDENTIFYING TRUSS SYSTEM
- COMPONENTS, AS WELL AS PERMANENT BRACING REQUIRED FOR TRUSS DESIGN. HANDLING, ERECTION AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH BCSI 01-03 BUILDING COMPONENT SAFETY SUMMARY SHEETS. TEMPORARY BRACING DESIGN SHALL BE PER BCSI 01-03 OR DSB-89 (TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES) AS REQUIRED. COMMENTARY AND RECOMMENDATIONS BY THE TRUSS PLATE INSTITUTE.
- WHERE ROOF PLYWOOD IS NOT PERMANENTLY ATTACHED TO TOP CHORD OF TRUSS, 9. PROVIDE CONTINUOUS 2X4 @ 2'-0" O.C. PERPENDICULAR TO TOP CHORD.
- DELEGATED DESIGN COMPONENTS, TRUSS SHOP DRAWINGS AND CALCULATIONS SHALL 10. BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. PLYWOOD FLOOR, WALL AND ROOF SHEATHING ARE DESIGNED AS DIAPHRAGMS AND 11.
- SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 23 OF THE 7TH EDITION (2020) FLORIDA BUILDING CODE.
- TRUSS PROFILES SHOWN IN PLANS, ELEVATIONS, OR DETAILS ARE SHOWN 12. SCHEMATICALLY UNLESS A SPECIFIC PROFILE IS NOTED IN PLAN. TRUSS MANUFACTURER IS RESPONSIBLE FOR PROVIDING TRUSS PROFILES AND MEMBER SIZES REQUIRED TO SUPPORT SPECIFIC LOADS. TRUSSES SHOWN IN DETAIL ARE SHOWN SCHEMATICALLY FOR GENERAL INFORMATION AND SHALL NOT BE INTERPRETED AS THE INTENDED PROFILE UNLESS SPECIFICALLY NOTED.
- 13. DEFLECTIONS OF WOOD TRUSSES SHALL BE LIMITED TO L/360 FOR LIVE LOADS, AND L/240 FOR COMBINED DEAD AND LIVE LOADS. DESIGN DOCUMENTS INCLUDE A SYSTEM OF CUSTOM ENGINEERED TRUSS COMPONENTS 14.
- AND CONNECTIONS IN ACCORDANCE WITH ANSI/TPI 1-2002 AND ALL APPLICABLE STANDARDS OF TRUSS PLATE INSTITUTE, INCLUDING, BUT NOT LIMITED TO, ANSI/TPI 1-2014 - NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, BCSI 01-03 BUILDING COMPONENT SAFETY SUMMARY SHEETS AND DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND THE DEPARTMENT OF PROFESSIONAL REGULATIONS GUIDELINES (FLORIDA ADMINISTRATIVE CODE 61G15).
- THE ENTIRE SYSTEM, INCLUDING ALL TRUSSES, CONNECTORS BETWEEN TRUSSES, 15. BRIDGING, TEMPORARY BRACING FOR ERECTION, ANCHORAGE, AND EMBEDMENTS SHALL BE DESIGNED BY A SPECIALTY ENGINEER (PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA). THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO ENSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD KEEPING PURPOSES ONLY. TRUSS CALCULATIONS, COMPONENT DRAWINGS, CONNECTOR CALCULATIONS AND ERECTION PLANS SHALL BE SIGNED AND SEALED BY TRUSS SYSTEM DELEGATED SPECIALTY ENGINEER AND SUBMITTED TO LOCAL BUILDING OFFICIAL FOR APPROVAL. DESIGN TRUSSES FOR LOADS SHOWN ON PLANS.
- IN THE ABSENCE OF LOADS, USE APPLICABLE LOCAL CODE FOR LIVE LOAD AND ACTUAL 16. WEIGHT OF BUILDING MATERIALS FOR DEAD LOAD. USE PATTERNED AND PARTIAL SPAN LIVE LOADS WHERE REQUIRED TO PRODUCE MAXIMUM FORCE IN ANY TRUSS MEMBER. APPLY NET WIND UPLIFT ON ROOFS WHEN APPLICABLE. TRUSS TOP CHORDS SHALL BE GROUP II SPECIES LUMBER. EXPOSED TO VIEW TRUSSES SHALL BE OF SELECT STRUCTURAL GRADE. ALL OTHER GRADE AND SPECIES SELECTION IS AT THE DISCRETION OF THE SUPPLIER. COORDINATE ALL TRUSS DETAILS WITH ARCHITECTURAL DRAWINGS. FOR CONCEALED TO VIEW TRUSSES, WEB CONFIGURATIONS WHERE SHOWN ARE SUGGESTIONS AND MAY BE MODIFIED BY THE SUPPLIER FOR ECONOMY. PROVIDE SIMPSON "TSS" PLATE, TAR IMPREGNATED FELT PAPER OR OTHER SUITABLE VAPOR BARRIER BETWEEN TRUSSES AND CONCRETE OR MASONRY BEARING SURFACES. PROVIDE G90 GALVANIZED HURRICANE ANCHORS DESIGNED FOR NET WIND UPLIFT AT ALL BEARINGS.
- 17. GENERAL CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL CHASES, ATTIC AND ACCESS REQUIREMENTS INCLUDING SIZE AND LOCATION WITH MECHANICAL, ARCHITECTURAL AND ELECTRICAL DRAWINGS.

# 061754 WOOD FRAMING CONNECTORS

- 1. CONNECTORS EXPOSED TO WET CONDITIONS SHALL BE GALVANIZED.
- CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED. 2. WHEN EXPOSED TO WET CONDITIONS OR IN CONTACT WITH PRESSURE TREATED LUMBER, NAILS AND SCREWS USED WITH FRAMING CONNECTORS SHALL BE GALVANIZED OR STAINLESS STEEL, TO MATCH FINISH OF CONNECTOR.
- 4. CONNECTOR MODEL NUMBERS SHOWN ARE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE CO. EQUIVALENT USP CONNECTORS ARE ACCEPTABLE SUBSTITUTIONS.
- OTHER SUBSTITUTIONS ARE ACCEPTABLE WITH THE APPROVAL OF THE STRUCTURAL 5. ENGINEER.
- UNLESS SHOWN OTHERWISE, INSTALL SIZE AND NUMBER OF FASTENERS SHOWN IN 6. LATEST SIMPSON CATALOG. WHERE MULTIPLE FASTENING PATTERNS ARE SHOWN, INSTALL THE NUMBER OF FASTENERS FOR MAXIMUM CAPACITY.

SEE THE FOLLOWING GEOTECHNICAL REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES. SITE PREPARATION AND FOUNDATION INSTALLATION SHALL COMPLY WITH: REPORT No. 5511-21-032 PREPARED BY: TIERRA, INC TITLED: NO.71 DATED: JUNE 30, 2021 FOLLOW THE RECOMMENDATIONS LISTED IN THE GEOTECHNICAL REPORT FOR SITE PREPARATION WORK, AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE: STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 Α. FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT FILL. A DENSITY OF AT LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT. MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE. OF AT LEAST 1 FOOT BELOW THE BOTTOM OF THE FOUNDATION. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION FEET BELOW THE BOTTOM OF THE EXCAVATION. SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "A" VAPOR RETARDER. VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING, CONDUITS, ETC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 3,000 PSF. CANTILEVERED RETAINING WALL AND RESTRAINED FOUNDATION WALL DESIGN IS BASED ON THE FOLLOWING SOIL PROPERTIES: LATERAL BEARING PRESSURE

COEFFICIENT OF FRICTION

BIM 360://20073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R18.rvt

GEOTECHNICAL SERVICES REPORT LAKE COUNTY FIRE STATION

AREAS. ANY SOFT AREAS SHALL BE EXCAVATED AND REPLACED WITH CLEAN

C. ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE

EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH

VALUES, AND IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2

200 PSF/FT 0.25









1 WIND LOAD DIAGRAM 3/16" = 1'-0"

	ULTIMATE C&C WIND PRESSURES (ASCE 7-16)																					
ROOF	a (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE 1 (PSF)	ZONE 2e (PSF)	ZONE 2r (PSF)	ZONE 2n (PSF)	ZONE 3 (PSF)	ZONE 3e (PSF)	ZONE 3r (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)	ZONE (2H) (PSF)	ZONE (3H) (PSF)							
				<10	+29.0 -48.8	+29.0 -65.2	+29.0 -85.0	N/A	+29.0 -65.2	N/A	N/A	+38.9 -42.2	+38.9 -52.0	+29.0 -75.8	+29.0 -95.5							
HIP ROOF	7'-3"	147	114	20	+25.0 -48.8	+25.0 -59.9	+25.0 -76.6	N/A	+25.0 -59.9	N/A	N/A	+37.1 -40.4	+37.1 -48.5	+25.0 -74.2	+25.0 -85.6							
				50	+19.8 -43.1	+19.8 -52.8	+19.8 -65.5	N/A	+19.8 -52.8	N/A	N/A	+34.8 -38.1	+34.8 -43.9	+19.8 -72.2	+19.8 -72.5							
									100+	+16.0 -38.9	+16.0 -47.5	+16.0 -57.1	N/A	+16.0 -47.5	N/A	N/A	+33.1 -36.3	+33.1 -40.4	+16.0 -70.7	+16.0 -62.6		
		7'-3" 147									<10	+23.6 -71.8	+23.6 -71.8	+23.6 -104.8	+23.6 -104.8	N/A	+23.6 -104.8	+23.6 -124.5	+38.9 -42.2	+38.9 -52.0	+23.6 -115.3	+23.6 -154.8
GABLE ROOF				20	+21.2 -71.8	+21.2 -71.8	+21.2 -90.6	+21.2 -90.6	N/A	+21.2 -90.6	+21.2 -106.7	+37.1 -40.4	+37.1 -48.5	+21.2 -104.7	+21.2 -131.0							
	7'-3"		114	50	+18.2 -43.7	+18.2 -43.7	+18.2 -71.8	+18.2 -71.8	N/A	+18.2 -71.8	+18.2 -83.1	+34.8 -38.1	+34.8 -43.9	+18.2 -90.6	+18.2 -99.6							
				100+	+16.0 -22.4	+16.0 -22.4	+16.0 -57.6	+16.0 -57.6	N/A	+16.0 -57.6	+16.0 -65.2	+33.1 -36.3	+33.1 -40.4	+16.0 -80.0	+16.0 -75.8							

ULTIMATE C&C WIND PRESSURE PLAN NOTES:

- PRESSURES SHOWN ABOVE ARE ULTIMATE COMPONENTS AND CLADDING PRESSURES, GIVEN PRESSURES MAYBE CONVERTED TO NOMINAL USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.
- A INDICATES TRIBUTARY AREA IN S.F. a - INDICATES END ZONE WIDTH IN FT.
- Vult INDICATES ULTIMATE DESIGN WIND SPEED IN MPH Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH
- GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, 2 METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
- GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE. 3.
- POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
- 5. ROOF AND ZONES (1) THRU (3)
- WALL ZONES (4) AND (5)6.
- OVERHANG ZONES (2H) AND (3H) APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR 7 CLADDING RECEIVES PRESSURE SIMULTANEOUSLY ON BOTH SIDES (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.
- NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.
- INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18 9.
- 10. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPYSHALL EQUAL THE WALL PRESSURE IN THAT AREA.





SECTION AT ROOF TRUSS











- 3 INDICATES 8" LOAD-BEARING CMU WALL REINFORCED W/ #5 @ 24" O.C., AND AT CORNERS, INTERSECTIONS, & TERMINATIONS IN GROUT FILLED CELLS.

- 6 INDICATES MASONRY CONTROL JOINT PER 7 / S5.11 COORDINATE LOCATIONS W/ ARCH ELEVATIONS & STUCCO CONTROL JOINTS.

STRUCTURAL ELEVATIONS•T/FOUNDATION: EL. 73'-8" U.N.O.







<u>SL</u>	<u>AB PLAN KEYNOTES</u>
	4" CONC. SLAB-ON-GRADE ON COMPACTE TREATED SUB-GRADE ON 15 MIL CLASS-A BARRIER. REINFORCE W/ 4X4 W4.0XW4.0 SHEETS) AT SLAB MID-DEPTH.
<b>2</b>	6" CONC. SLAB-ON-GRADE ON COMPACT TREATED SUB-GRADE ON 15 MIL CLASS-A BARRIER. REINFORCE W/ #4 @ 12" O.C. EA TOP OF SLAB.
$\langle 3 \rangle$	TE-#.# INDICATES THICKENED SLAB EDGE TYPICAL DETAIL 11 / S5.01
<b>4</b>	TS-#.# INDICATES THICKENED SLAB FOUN TO TYPICAL DETAIL 11 / S5.01
<b>5</b>	C.J. INDICATES SAW-CUT CRACK CONTRO ON-GRADE. REFER TO DETAIL 9 / S5.01
<b>6</b>	PRE-ENGINEERED METAL PAN STAIR PER SPECIALTY ENGINEER. REFER TO ARCH D INFORMATION.
<b>(7)</b>	INDICATES 8" NON-LOAD-BEARING REINFORCED W/ #5 @ 48" O.C., AND AT CO INTERSECTIONS, & TERMINATIONS IN GRO CELLS.
<b>8</b>	MALL RE @48" O.C., AND AT CORNERS, INTERSECT TERMINATIONS IN GROUT-FILLED CELLS.
<b>9</b>	BB-# INDICATES CMU BOND BEAM, REFER FOR SIZE AND REINFORCING.
<b>(10)</b>	RE-ENTRANT CORNER REINFORCING SEE
$\langle 11 \rangle$	INDICATES 8" LOAD-BEARING CMU FOUNDATION PLAN FOR REINFORCEMEN
<b>(12)</b>	IDDICATES 12" LOAD-BEARING CM FOUNDATION PLAN FOR REINFORCEMEN
<b>(13)</b>	1/2" ISOLATION MATERIAL AT KNEE WALL- INTERFACE
•	STRUCTURAL ELEVATIONS T/ SLAB: EL. 75' - 0", UNO T/ CMU KNEE WALL: EL 77' - 4"









TLC ENGINEERING SOLUTIONS Copyright 2020 7370 Cabot Court, Suite 103 Melbourne, FL 32940 P 321.636.0274 COA 15 www.tlc-engineers.com

					WOOD CONNECTOR SCHEDULE	
MARK	DESIGNATION	UPLIFT (LBS)	F1 (LBS) LATERAL⊥	F2 (LBS) LATERAL	FASTENING	LOCATION, UNO
	(1) MTS16 FL 13872	1000			(6) #10 TEKS SCREWS TO STEEL (8) 10d NAILS TO TRUSS	GIRDER TRUSS, JACK TRUSS, OR COMMON TRUSS BEARING ON STEEL
В	(2) MTS16 FL 13872	2000			(14) 10d NAILS AT EACH STRAP	HIP TRUSS BEARING ON STEEL
¢	(1) HGT-2 FL 10456	10980			(2) 3/4"Ø X 6" TITEN HD SCREW ANCHOR TO CONC (16) 10d NAILS TO TRUSS	GIRDER TRUSS BEARING ON TOP OF CMU/CONC
	(1) HETAL16 FL 11473	1810	415	1100	(14) 10d X 1 1/2"	HIP TRUSS OR JACK TRUSS BEARING ON TOP OF CMU/CONC
E	(1) HU214-2 FL 10531	2015			(24) 1/4" X 2 3/4" TITEN 2 SCREWS TO CONC/CMU (12) 10d NAILS TO TRUSS	GIRDER TRUSS CMU SIDE BEARING
	(1) LGUM210-2X FL 13904	1605			(8) 3/8" X 4" TITEN HD SCREWS TO CONC/CMU (8) 1/4" X 2 1/2" SDS SCREWS TO TRUSS	HIP TRUSS CMU SIDE BEARING
	(2) RBC FL 10446	700			(3) 1/4" X 2 3/4" TITEN 2 SCREWS TO CONC/CMU (6) 10d X 1 1/2" TO TRUSS	



1 SECOND FLOOR / LOW ROOF - FRAMING PLAN 3/16" = 1'-0"

BIM 360://20073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R18.rvt

			WO	OD CONNE	ECTOR SCHEDULE (CONTINUED)	
MARK	DESIGNATION	UPLIFT (LBS)	F1 (LBS) LATERAL⊥	F2 (LBS) LATERAL	FASTENING	LOCATION, UNO
G	(1) HU212 FL 10531	1135			(10) 1/4" X 2 3/4" TITEN 2 SCREWS TO CONC/CMU (6) 10d X 1 1/2" TO TRUSS	JACK TRUSS CMU SIDE BEARING
H	(1) HUS48 FL 10531	1550			(10) 1/4" X 2 3/4" TITEN 2 SCREWS TO CONC/CMU (6) 10d X 1 1/2" TO TRUSS	4X RIDGE BEAM TO TRUSS TOP CHORD
	(1) HU48 FL 10531	1135			(14) 1/4" X 2 3/4" TITEN 2 SCREWS TO CONC/CMU (6) 10d X 3" TO TRUSS	4X RIDGE BEAM TO FACE OF CMU
J	(1) LRU26Z FL 10447	880			(4) 16d TO RIDGE BEAM (5) 16d TO RAFTER	2X RAFTER TO 4X RIDGE BEAM
ĸ	(1) HGAM10KTA FL 11473	850	1005	1105	(5) 1/4" X 2 3/4" TITEN 2 SCREWS TO CONC/CMU <u>OR</u> (4) 1'4" X 1 1/2" SDS SCREWS TO NAILER ON HSS (4) 1'4" X 1 1/2" SDS SCREWS TO BLOCKING	HEEL BLOCKING, SEE DETAIL 3 / S5.41
L	(1) H10S FL 10446	550	660	215	(6) #10 TEKS SCREWS TO STEEL (8) 8d X 1 1/2" NAILS TO TRUSS	RAFTER BEARING ON STEEL



$\langle 1 \rangle$	2 1/2" NW CONCRETE OVER 1 1/2" 20GA G METAL DECK REINFORCED W/ 6X6 W2.1X
<b>2</b>	5/8" APA STRUCTURAL 1 ROOF SHEATHIN SPAN 40/20, 48"X96" SQUARE EDGE, SEE ATTACHMENT DETAIL.
<b>3</b>	PRE-ENGINEERED WOOD ROOF TRUSS F SPECIALTY ENGINEER
<b>4</b>	PRE-ENGINEERED METAL PAN STAIR PEI SPECIALTY ENGINEER. REFER TO ARCH INFORMATION.
$\langle 5 \rangle$	INDICATES OVERBUILT TRUSS AF
<b>6</b>	CB-# INDICATES CAST-IN-PLACE CONCRE SCHEDULE FOR SIZE AND REINFORCING
$\langle 7 \rangle$	BB-# INDICATES CMU BOND BEAM, SEE S & REINFORCING.
<b>8</b>	TB-# INDICATES CONCRETE TIE BEAM, SI SIZE & REINFORCING.
<b>9</b>	CONTINUOUS L4X3X1/4 (LLV) DECK SUPP TO DETAIL 8 / S5.31
<b>(10)</b>	2X8 BLOCKING AT VAULTED CEILING RAF FASTEN TO RAFTER W/ (3) 8d TOENAILS I
$\langle 11 \rangle$	2X8 OUTLOOKER AT 2' - 0" OC MAX, SEE
<b>(12)</b>	INDICATES VAULTED CEILING AT REFER TO SECTIONS AND ARCH DWGS.
(13)	RIDGE BEAM REACTION AT OVERBUILT T DEAD LOAD: 250 LB LIVE ROOF LOAD: 450 LB WIND UPLIFT (ULT): 1600 LB
<b>(14)</b>	1/2" APA RATED PLYWOOD WALL 32/16 SPAN, EXPOSURE 1, SQUARE EDGE REFER TO S0.2 SECTION 061000 FOR FAS INFORMATION
(15)	APPROXIMATE LOCATION OF FIRE POLE 14 GA RADIUSED POUR STOP PER 7 / SE SIZE AND LOCATION OF OPENING WITH M AND ARCH DWGS.

STRU	CTURAL ELEVATIONS
•	T/ STEEL (WIDE FLANGE): EL. 86' - 0"
•	T/ STEEL (HSS): EL 84' - 8 1/2" U.N.O.
•	T/ SLAB: EL. 86' - 4"
•	LOW ROOF TRUSS BEARING: EL. 84'

FRAMING PLAN GENERAL NOTES





![](_page_7_Figure_0.jpeg)

MARK	DESIGNATION	UPLIFT (LBS)	F1 (LBS) LATERAL⊥
$\langle A \rangle$	(1) HGT-2	10980	
	FL 10456		
B	(1) HETAL16	1810	415
	FL 11473		
¢	(1) HU214-2	2015	
	FL 10531		
	(1) HU212	1135	
	FL 10531		
E	(1) LUS26	1165	
	FL 10531		
E	(1) HGAM10KTA	550	1005
	FL 11473		

![](_page_7_Figure_4.jpeg)

![](_page_7_Figure_5.jpeg)

![](_page_7_Picture_14.jpeg)

![](_page_7_Picture_15.jpeg)

![](_page_8_Figure_1.jpeg)

![](_page_8_Figure_3.jpeg)

![](_page_8_Figure_5.jpeg)

![](_page_8_Figure_6.jpeg)

![](_page_9_Figure_0.jpeg)

1 WALL SECTION 1/2" = 1'-0"

![](_page_9_Figure_3.jpeg)

2 WALL SECTION 1/2" = 1'-0"

![](_page_9_Picture_5.jpeg)

![](_page_9_Figure_6.jpeg)

![](_page_10_Figure_1.jpeg)

(5)

2 WALL SECTION 1/2" = 1'-0"

![](_page_10_Figure_3.jpeg)

# RAFTER CONNECTOR AS SCHEDULED, TYP, SEE PLAN NOTE 2. - CONT 2X PT SEE NOTE 1. ARCH DWGS

![](_page_10_Figure_6.jpeg)

![](_page_10_Figure_8.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_13_Figure_0.jpeg)

BIM 360://20073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R18.rvt

![](_page_14_Figure_0.jpeg)

BIM 360://20073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R18.rvt

![](_page_15_Figure_0.jpeg)

BIM 360://20073A - Lake County Fire Station 71/521157\_Lake Co FS 71\_STR\_R18.rvt

![](_page_16_Figure_0.jpeg)