<u>CODE:</u>		MASONRY REINFORCING (CONT.)		<u>GENERAL:</u>		
AND ALL REFERENCED STANDARDS AND SPE	ING CODE WITH CITY OF FLAGSTAFF AMENDMENTS, ECIFICATIONS THEREIN. CONSTRUCTION SHALL FRACTOR SHALL NOTIFY STRUCTURAL ENGINEER OF	TWO BARS IN MINIMUM 8" DEEP GROUTED C FLOOR LINES. ONE BAR IN MINIMUM 8" DEEP PARAPET OR TOP OF A FREE-STANDING WAL CONTROL JOINT. WRAP MASTIC TAPE FOR 1' BARS, TO MATCH HORIZONTAL BOND BEAM I	PICAL UNLESS NOTED OTHERWISE ONTINUOUS BOND BEAM AT ROOF AND ELEVATED GROUTED CONTINUOUS BOND BEAM AT TOP OF L. PLACE THESE BARS CONTINUOUS THROUGH 6" EACH SIDE OF CONTROL JOINT. PROVIDE BENT REINFORCING, AT CORNERS AND WALL INTERSECTIONS SPLICES SHALL BE 40 BAR DIAMETERS FOR GRADE 40	THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. CONTRACTOR IS RESPONSIBLE FOR ALL O.S.H.A. REQUIREMENTS, NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES AND/OR		
PIPE DEAD LOAD	60 PLF CONTROLS DESIGN (12" DIA. 23/50" THICK, DUCTILE IRON PIPE)	BARS AND 48 BAR DIAMETERS FOR GRADE 6	D BARS. STAGGER ALTERNATE SPLICES A MINIMUM OF IGHT (NO. 9 GAUGE WIRE) HOHMANN AND BARNARD	CONFLICTS. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARD		
WIND LOADS:			C. IN MASONRY WALLS. IN LIEU OF HOHMANN AND	SHALL BE THE LATEST EDITION AND/OR ADDENDUM.		
RISK CATEGORY	Ш		IDE TWO BARS IN 8" DEEP GROUTED CONTINUOUS	ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL,		
VELOCITY:		BOND BEAM AT 4'-0" O.C. IN MASONRY WALLS	р.	ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS		
ULTIMATE DESIGN WIND SPEED	101	STRUCTURAL STEEL:		PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMN: WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER THROUG		
NOMINAL DESIGN WIND SPEED	79	STRUCTURAL STEEL.		CIVIL ENGINEER.		
BUILDING CATEGORY	WALL AND SIGNS	ΤΥΡΙΩΑΙ	STEEL STRENGTHS	OPTIONS ARE INTENDED FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE		
EXPOSURE	"B"	PLATES, ANGLES, AND MISC.	ASTM A36 (Fy = 36 KSI)	RESPONSIBLE FOR ALL NECESSARY CHANGES DUE TO THE OPTIONS AND SHALL COORDINATE ALL		
MAIN WIND FORCE RESISTING SYSTEM:		TUBULAR STEEL (HSS)	ASTM AS00 GRADE "B" (Fy = 46 KSI)	DETAILS.		
DESIGN WIND PRESSURE	16 PSF	ANCHOR BOLTS	ASTM 71554-36	NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL		
FLUID LOAD:	NONE		ASTM11334-30	NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL		
12" DIA. DUCTILE IRON PIPE 120 LBS 18" DIA. CORRUGATED PIPE 382 LBS			ONSTRUCTION PER LATEST AISC SPECIFICATIONS. ALL	CONFORM TO SIMILAR WORK ON THE PROJECT.		
			NG FOR MATERIAL INTO WHICH INSTALLATION TAKES	TYPICAL DETAILS ARE NOT CUT ON DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.		
FOUNDATIONS:		WELDED HIGH STRENGTH HEADED STUDS (N EXPANSION BOLTS, ETC., SHALL BE INSTALL	E TO HEADED STUDS SHALL INDICATE AUTOMATIC IELSON OR EQUIVALENT). ALL BOLTS, ANCHOR BOLTS, ED WITH STEEL WASHERS. ALL HIGH STRENGTH BOLTS CONDITION AS DEFINED BY AISC UNLESS NOTED	WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.		
GEOTECHNICAL CONSULTANT: SPEEDIE AND	ASSOCIATES, INC.	JUALE DE HOMTENED TO THE SNUG-HOMT	JUNDITION AS DEFINED DT AISC UNLESS NUTED	ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE		

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•	SPREAD FOOTINGS	DESIGN SOIL BEARING VALUE
,	SPREAD FOOTING BEARING DIRECTLY ON DECOMPOSED MOENKOPI SANDSTONE BEDROCK OR ON CONCRETE SLURRY TO MOENKOPI SANDSTONE BEDROCK.	4,000 PSF

EXTERIOR FOOTING DEPTH = 30".

GEOTECHNICAL ENGINEER TO VERIFY BEARING STRATA, SEE GEOTECHNICAL REPORT AND TYPICAL DETAILS FOR MORE INFORMATION.

CONCRETE:

>	TYPICAL CONCRETE COMPRESSIVE STRENGTHS							
$\left.\right\}$	CONCRETE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT					
>	U.N.O., ALL CONCRETE SHALL BE	4,500 PSI	4" MAXIMUM					
	FOOTINGS GREATER THAN 30" BELOW GRADE	2,500 PSI	4" MAXIMUM					
$\left(\right)$	MAXIMUM WATER/CEMENT RATIO FOR ALL CONCRETE SHALL BE 0.45 U.N.O. CONCRETE SLABS							

SHOULD BE ALLOWED TO CURE ADEQUATELY BEFORE APPLYING MOISTURE SENSITIVE MATERIAL. COORDINATE WITH FLOORING MANUFACTURER FOR ALL REQUIREMENTS. CNCRETE TO BE DESIGNED AS EXPOSURE CLASS F2 FOLLOWING REQUIREMENTS IN ACI 318-14

SECTION 26.4.2.2. CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT. ADDITION OF WATER TO THE BATCH WILL NOT BE PERMITTED.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.

ALL AGGREGATE SHALL BE TESTED FOR DELETERIOUS MATERIALS USING PETROGRAPHIC ANALYSIS (ASTM C 292) OR THE RAPID MORTAR BAR TEST (ASTM C 1260). AGGREGATE WHICH (SHOWS POTENTIAL FOR DELETERIOUS ALKALI-SILICA REACTION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND MITIGATION METHODS WHICH MAY INCLUDE ADDING EITHER CLASS F FLY ASH OR A LITHIUM ADMIXTURE WILL BE REQUIRED. CONCRETE PLACEMENT AND CURING SHALL BE IN ACCORDANCE WITH ACI RECOMMENDATIONS.

COLD WEATHER PLACEMENT OF CONCRETE

THE CONTRACTOR SHALL PROVIDE HEATING EQUIPMENT FOR CONCRETE MATERIALS AND PROTECT CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS AND THE GROUND WITH WHICH THE CONCRETE IS • TO COME INTO CONTACT, SHALL BE FREE FROM FROST. FROZEN MATERIALS OR MATERIALS CONTAINING FROST SHALL NOT BE USED. ALL ACI-318 AND I.B.C. PROVISIONS FOR COLD WEATHER PLACEMENT OF CONCRETE SHALL APPLY.

FREEZING AND THAWING EXPOSURE NORMAL WEIGHT CONCRETE EXPOSED TO FREEZING AND THAWING OR DE-ICING CHEMICALS SHALL BE AIR-ENTRAINED WITH AIR CONTENT INDICATED IN TABLE 19.3.3.1 OF THE ACI 318-14.

TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE +/- 1.5%. FOR SPECIFIED COMPRESSIVE STRENGTH F'C GREATER THAN 5,000 PSI, AIR CONTENT INDICATED MAY BE REDUCED BY 1%.

REINFORCING.

ASTM A615 (GR60) DEFORM	1ED				
O EARTH:	3"				
ALL OTHERS PER LATEST EDITION OF ACI 318.					
	CORDANCE WITH AWS D1.4. N				

WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. LAP SPLICES IN CONCRETE

UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, AND SLABS SHALL BE • CLASS "B" TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES PER THE LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION.

SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL EMBEDMENT LENGTH ACCORDING TO • THE LATEST EDITION OF ACI 318.

MASONRY

HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N, TYPE 1, F'm=2,000 PSI, RUNNING BOND, MORTAR TYPE S 1,800 PSI, GROUT 2,000 PSI.

MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED (ABOUT 5 MINUTES AFTER FIRST VIBRATION). PROVIDE CLEAN OUTS IF GROUT LIFT EXCEEDS 4'-0" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 8'-0" UNLESS NOTED OTHERWISE ON THE PLANS.

UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0".

MASONRY REINFORCING:

VERTICAL REINFORCING: #5 BARS - TYPICAL UNLESS NOTED OTHERWISE

N CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL WITH ONE BAR AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS AND EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O. C. UNLESS NOTED OTHERWISE. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY A. A. PRODUCTS COMPANY. LAP SPLICES SHALL BE 40 BAR DIAMETERS FOR GRADE 40 BARS AND 48 BAR DIAMETERS FOR GRADE 60 BARS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL WALL OR COLUMN

STRUCTURAL STEEL

LATEST AISC AND AWS CODES APPLY. ALL CONSTRUCTION PER LATEST AISC SPECIFICATIONS. ALL EXPANSION BOLTS SHALL HAVE AN ICC RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES ACE. SEE TYPICAL DETAIL. ALL REFERENCE TO HEADED STUDS SHALL INDICATE AUTOMATIC WELDED HIGH STRENGTH HEADED STUDS (NELSON OR EQUIVALENT). ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO THE SNUG -TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE. ALL WELDING BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS, USE E90 SERIES FOR ASTM A706 REINFORCING BARS, ALL WELDING PER AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY. ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.

EXPANSION BOLTS / ADHESIVE ANCHORS:

EXPANSION BOLTS AND ADHESIVE ANCHORS SHALL BE AS SPECIFIED IN TYPICAL DETAILS. ALL CONCRETE OR MASONRY SHALL BE AT ITS SPECIFIED DESIGN STRENGTH AT THE TIME OF INSTALLATION. SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION OF EXPANSION BOLTS AND ADHESIVE ANCHORS.

DIMENSIONS:

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH CIVIL ENGINEER.

SPECIAL INSPECTIONS:

SPECIAL INSPECTION IS REQUIRED DURING THE FOLLOWING OPERATIONS PER I.B.C. SECTION 1704:

CONCRETE:	DURING TAKING OF TEST SPECIMENS AND PLACING OF REINFOR CONCRETE. SEE PROJECT SPECIFICATIONS FOR FREQUENCY OF TESTING AND STRENGTH REQUIREMENTS. NO SPECIAL INSPECTI IS REQUIRED FOR NON-STRUCTURAL SLABS ON GRADE, ISOLATE SPREAD FOOTINGS, OR CONTINUOUS WALL FOOTINGS SUPPORT LIGHT FRAMED CONSTRUCTION WHERE fc IS 2500 PSI OR LESS.
BOLTS INSTALLED IN CONCRETE:	PRIOR TO AND DURING PLACEMENT OF CONCRETE AROUND BOL
WELDING:	DURING ALL STRUCTURAL WELDING INCLUDING WELDING OF REINFORCING STEEL.
EXPANSION BOLTS AND ADHESIVE ANCHORS:	DURING THE DRILLING AND INSTALLATION OF EXPANSION BOLTS AND ADHESIVE ANCHORS.
STRUCTURAL MASONRY:	DURING PLACEMENT OF REINFORCING, INSPECTION OF GROUT SPACE IMMEDIATELY PRIOR TO CLOSING OF CLEAN OUTS AND DURING PLACEMENT OF ALL GROUT. SPECIAL INSPECTION FOR PLACING OF UNITS MAY BE PERFORMED ON A PERIODIC BASIS.
SOILS:	BEARING CAPACITY OF SOIL STRATA, EXCAVATION DEPTH AND BEARING MATERIAL, CLASSIFICATION AND TESTING OF FILL

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- 1. SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- 2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- 3. UPON COMPLETION OF THE ASSIGNED WORK, THE ENGINEER SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
- 1. FOR INSPECTION OF CONCRETE, BOLTS IN CONCRETE, REINFORCING STEEL, EXPANSION BEFORE SUCH INSPECTION IS REQUIRED.
- 2. FOR INSPECTION OF WELDING AND CAISSONS NOTIFY THE SPECIAL INSPECTOR FROM THE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
- 3. ALL WORK REQUIRING SPECIAL STRUCTURAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT IS OBSERVED BY THE SPECIAL STRUCTURAL INSPECTOR.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED AS REQUIRED BY THE SPECIFICATIONS. THE GENERAL CONTRACTOR WILL REVIEW AND STAMP ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMISSION. ANY SHOP DRAWINGS OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW. ITEMS NOT IN ACCORDANCE WITH THE CONTRACT DRAWINGS SHALL BE SO NOTED UPON THE CONTRACTORS REVIEW. ANY SHOP DRAWING NOT CHECKED AND INITIALED BY THE SUPPLIER/DETAILER PRIOR TO SUBMITTING FOR ENGINEERING REVIEW, WILL BE RETURNED WITHOUT REVIEW.

ANY CHANGES FROM THE ORIGINAL DRAWINGS SHALL BE NOTED BY THE SUBMITTING PARTY. ANY CHANGES NOT CALLED OUT SHALL BE CONSIDERED NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE. SHOP DRAWINGS SHALL NOT REPLACE THE CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND NOT NOTED BY THE REVIEWER ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DRAWINGS. REVIEWING IS INTENDED AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO ASSURE THAT ITEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

ANY ENGINEERING DESIGN PERFORMED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR A SEAL OF AN ENGINEER REGISTERED IN THE APPROPRIATE JURISDICTION AND DISCIPLINE. THE ADEQUACY OF DESIGNS AND LAYOUTS PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING PARTY.

THE CONSTRUCTION DOCUMENTS MAY NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.

TYPICAL STEEL STRENGTHS

TEST SPECIMENS AND PLACING OF REINFORCED ROJECT SPECIFICATIONS FOR FREQUENCY OF NGTH REQUIREMENTS. NO SPECIAL INSPECTION NON-STRUCTURAL SLABS ON GRADE, ISOLATED 5, OR CONTINUOUS WALL FOOTINGS SUPPORTING NSTRUCTION WHERE f'c IS 2500 PSI OR LESS. RING PLACEMENT OF CONCRETE AROUND BOLTS.

, CLASSIFICATION AND TESTING OF FILL MATERIAL, COMPACTION, AND SUBGRADE PREPARATION.

IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO

DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:

BOLTS, ADHESIVE ANCHORS, AND STRUCTURAL MASONRY, NOTIFY THE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM)

RESPONSIBLE MATERIALS TESTING LAB THAT WORK IS READY FOR INSPECTION AT LEAST ONE

GENERAL

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

TMS 402/602-16 - TABLES 3 & 4							
QUALITY ASSURANCE	LEVEL REC	DUIRED:	LEVE	EL 2			
MASONRY MINIMUM VERIFI	CATION	REQUIRI	EMENTS				
MINIMUM VERIFICATION	F QUA	REQUIRED FO ALITY ASSURA	R NCE ^(a)	REFERENCE FOR CRITERIA			
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602			
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	R	R	R	ART. 1.5			
PRIOR TO CONSTRUCTION, VERIFICATION OF $f_{\rm m}^{\rm r}$ AND $f_{\rm AAC}^{\rm r}$, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	NR	R	R	ART. 1.4 B			
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R	ART. 1.5 & 1.6.3			
DURING CONSTRUCTION, VERIFICATION OF $\rm f'_m$ AND $\rm f_{AAC}$ FOR EVERY 5,000 SQ. FT. (465 SQ. M).	NR	NR	R	ART. 1.4 B			
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R	ART. 1.4 B			
(a)R=REQUIRED, NR=NOT REQUIRED				-			

MASONRY MINIMUM SPECIAL INSPECTION					
INSPECTION TASK	FRE	EQUENCY	, (a)	REFERENCE F	OR CRITERIA
		LEVEL			
	1	2	3	TMS 402	TMS 602
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		1 1			
a. PROPORTIONS OF SITE-PREPARED MORTAR	NR	Р	Ρ		ART. 2.1, 2.6 A, & 2.6 C
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	NR	Р	Ρ		ART. 2.4 B & 2.4 H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	Р	Ρ		ART. 3.4 & 3.4 A
d. PRESTRESSING TECHNIQUE	NR	Р	Р		ART. 3.6 B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C ^(b) /P ^(c)	С		ART. 2.1 C.1
f. SAMPLE PANEL CONSTRUCTION	NR	Р	С		ART. 1.6 D
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. GROUT SPACE	NR	Р	С		ART. 3.2 D & 3.2 F
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	Р	Ρ	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	Р	С	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.2 E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	Р	Ρ		ART. 2.6 B & 2.4 G.1.b
VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	Р	Ρ		ART. 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	Р	Ρ		ART. 3.3 B
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	Р	Ρ		ART. 3.3 F
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	NR	Ρ	С	SEC. 1.2.1 (e), 6.2.1, & 6.3.1	
e. WELDING OF REINFORCEMENT	NR	С	С	SEC. 6.1.6.1.2	
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	NR	Ρ	Ρ		ART. 1.8 C & 1.8 D
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	С	С		ART. 3.6 B
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	NR	С	С		ART. 3.5 & 3.6 C
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C ^(b) /P ^(c)	С		ART. 3.3 B.9 & 3.3 F.1.b
. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	Ρ	С		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4
REQUENCY REFERS TO THE FREQUENCY OF INSPEC TASK LISTED OR PERIODICALLY DURING THE LISTED T NR=NOT REQUIRED, P=PERIODIC, C=CONTINUOUS REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQ	ASK, A	AS DEFIN	IED IN	THE TABLE.	URING THE
REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465	SOLIAF	RE METE	RS) OF	AAC MASONRY	

R	R	ART. 1.5 & 1.6.3	v
NR	R	ART. 1.4 B	
NR	R	ART. 1.4 B	V

ANSI/AISC 360-16 MINIMUM REQUIREMENTS FOR INSPECTION OF STRUCTURAL STEEL BUILDINGS TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED F THOSE INSPECTIONS PERFORMED BY THE QCI/QAI TO ENSURE THAT THE WORK IS PE ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH THE N5.4-1 THROUGH N5.4-3. IN THESE TABLES , THE INSPECTION TASKS ARE AS FOI O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER. TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING	ERFORMED IN TABLES LLOWS:		Contact Arizona 811 at least two full working days before you begin excavation Contact Arizona 811 at least two full working days before you begin excavation Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona 811.com
INSPECTION TASKS PRIOR TO WELDING WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE) WELDER IDENTIFICATION SYSTEM ¹ FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) JOINT PREPARATION OLIGENMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)	QC QA P P P P O O O O O O		DATE 03/04/2025
CONFIGURATION AND FINISH OF ACCESS HOLES FIT-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) CHECK WELDING EQUIPMENT THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL B LOW-STRESS TYPE. TABLE N5.4-2			DESCRIPTION MODIFICATIONS 0:
INSPECTION TASKS DURING WELDING INSPECTION TASKS DURING WELDING USE OF QUALIFIED WELDERS CONTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL NO WELDING OVER CRACKED TACK WELDS ENVIRONMENTAL CONDITIONS WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE WPS FOLLOWED SETTINGS ON WELDING EQUIPMENT	QC QA O O O O O O O O O O O O O O O O O O O O O O O O O O		REVISION DES 1 ADDITIONS AND MO
 TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS TABLE N5.4-3 	0 0		vve. Suite 3 86001 46
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ARC STRIKES / -AREA ¹ BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER ¹ WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PER THE // -AREA, VISUALLY INSPECT THE WEB // -AREA FOR CRACKS WITHIN 3 IN. (75MM) OF 2018 IBC - SECTION 1705 REQUIRED VERIFICATION AND INSPECTION OF			VGINEERING, I nnecting Place to Pe
EXPANSION BOLTS AND ADHESIVE ANCHORS DURING THE DRILLING AND INSTALLATION OF EXPANSION BOLTS AND ADHESIVE ANCHOR 2018 IBC - TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS VERIFICATION AND INSPECTION TASK	PDICALLY DURING		Protessional Engra
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTHS AND HAVE REACHED PROPER MATERIAL3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.X5. PRIOR TO PLACEMENT OF COMPACTED FILL,	X X X X		GEOFFREY D.
SPECIAL INSPECTIONS CONTINUED ON SHEET S2		HUBBARD HUBBARD MERRELL ENGINEERING 1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174	Y OF FLAGSTAFF SWITZER CANYON TRAIL SWITZER CANYON TRAIL
		FLAGSTAFF, AZ 86004 HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING DRAWN BY: VICTOR WING JOB ORDER #: 24028 1 THIS DRAWING IS THE PROPERTY OF HME. THE USE OF THIS DRAWING IS LIMITED TO THE ORIGINAL SITE IT WAS PREPARED FOR AND SHALL BE EXPRESSLY LIMITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL DRAWINGS ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. REUSE, REPRODUCTION, OR PUBLICATIONS BY ANY METHOD IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF HME. FINAL PLANS	CITY FUTS - SW COF PROJECT NO. 0: S1 OF S3 DATE: FEE

ANSI/AISC 360-16 MINIMUM REQUIREMENTS FOR INSPECTION OF		$\overline{}$		Contact Arizona 811 at least two full working days before you begin excavation
STRUCTURAL STEEL BUILDINGS			$\sum_{i=1}^{n}$	Call 811 or click Arizona811.com
ASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED THOSE INSPECTIONS PERFORMED BY THE QCI/QAI TO ENSURE THAT THE WORK IS P ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.	ERFORM		$\left\{ \right.$	
AS A MINIMUM, WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH N5.4-1 THROUGH N5.4-3. IN THESE TABLES , THE INSPECTION TASKS ARE AS FC O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.)LLOWS:			
TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING	I		$\left\{ \right.$	
INSPECTION TASKS PRIOR TO WELDING LDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE NUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	QC P P	QA P P	$\left\{ \right\}$	
TERIAL IDENTIFICATION (TYPE/GRADE) LDER IDENTIFICATION SYSTEM ¹ -UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	0 0 0	0 0 0	$\sum_{i=1}^{n}$	
 JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) NFIGURATION AND FINISH OF ACCESS HOLES	0	0		DATE 03/04/2025
UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	0	0	$\left\{ \right.$	
ECK WELDING EQUIPMENT IE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH HO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL E DW-STRESS TYPE.		 R		ATIONS
TABLE N5.4-2 INSPECTION TASKS DURING WELDING			$\left\{ \right.$	DESCRIPTION UD MODIFICATIONS
INSPECTION TASKS DURING WELDING	QC O	QA O	$\boldsymbol{\zeta}$	DNS AND
NTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL	0	0	\mathbf{S}	ADDITIONS
WELDING OVER CRACKED TACK WELDS /IRONMENTAL CONDITIONS	0 0	0 0	\langle	
WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE S FOLLOWED	0	0	\langle	REVISION 1
 SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS 			$\sum_{i=1}^{n}$	
SHIELDING GAS TYPE/FLOW RATEPREHEAT APPLIED			\langle	
 INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) LDING TECHNIQUES 	0	0	\langle	σ
 ECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS 			$\left\{ \right\}$	e. Suite 6001 6
TABLE N5.4-3 INSPECTION TASKS AFTER WELDING			\rangle	Av 04 0
INSPECTION TASKS AFTER WELDING	QC	QA	\langle	- A Ch
LDS CLEANED E, LENGTH AND LOCATION OF WELDS LDS MEET VISUAL ACCEPTANCE CRITERIA	O P P	O P P	5	
 CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE 	P	Р		201 E Flagsta (928) <i>le</i>
UNDERCUT POROSITY C STRIKES	P	P	5	eopt
AREA ¹ CKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P P P	P P P	\langle	to Pa
PAIR ACTIVITIES CUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER HEN WELDING DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PER HE & -AREA, VISUALLY INSPECT THE WEB & -AREA FOR CRACKS WITHIN 3 IN. (75MM) OF			$\left\{ \right.$	
2018 IBC - SECTION 1705		LD.	$\left\{ \right.$	ing Pl
REQUIRED VERIFICATION AND INSPECTION OF EXPANSION BOLTS AND ADHESIVE ANCHORS	25			NGINE onnectin
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2018 IBC - TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS			$\left\{ \right.$	ad Protessional Engl
VERIFICATION AND INSPECTION TASK TASK LISTED	DICALLY TASK LIST		5	GEOFFREY D.
/ERIFY MATERIALS BELOW FOOTINGS ARE DEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X		ζ	WERTZ
'ERIFY EXCAVATIONS ARE EXTENDED TOROPER DEPTHS AND HAVE REACHEDROPER MATERIAL	Х		\langle	
PERFORM CLASSIFICATION AND TESTING OF ONTROLLED FILL MATERIALS.	X		5	1 Mm V BUMM
ENSITIES AND LIFT THICKNESSES DURING LACEMENT AND COMPACTION OF			\langle	
OMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL, BSERVE SUBGRADE AND VERIFY THAT SITE AS BEEN PREPARED PROPERLY.	Х		\langle	
ECIAL INSPECTIONS CONTINUED ON SHEET S2			\mathbf{x}	TAFF DN TRAII
			<u>{</u>	
·····	\sim	\sim	HUBBARD	FLAG: R CAN IPROV 13 & ST3 2023
$\underline{1}$			MERRELL ENGI NEERI NG	
			1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174 FLAGSTAFF, AZ 86004	$FEB \stackrel{\text{o:}}{=} \frac{3}{2} S S V$
			HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING	CITY TTS - S TTS - S TTS - S JOB NO
			DRAWN BY: VICTOR WING JOB ORDER #: 24028 1 This drawing is the property of hme. The use of this drawing is	
			THIS DRAWING IS THE PROPERTY OF HME. THE USE OF THIS DRAWING IS LIMITED TO THE ORIGINAL SITE IT WAS PREPARED FOR AND SHALL BE EXPRESSLY LIMITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL DRAWINGS ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. REUSE, REPRODUCTION, OR PUBLICATIONS BY ANY METHOD IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF HME.	L OFRO OFS
			FINAL PLANS	cof S1

 $^{c)}$ REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

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		$\overline{}$	$\mathbf{r}$	Contact Arizona 811 at least two full working days before you begin excavation
MINIMUM REQUIREMENTS FOR INSPECTION OF STRUCTURAL STEEL BUILDINGS			5	ARIZONA81
TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED THOSE INSPECTIONS PERFORMED BY THE QCI/QAI TO ENSURE THAT THE WORK IS I ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.			$\langle$	Call 811 or click Arizona811.com
AS A MINIMUM, WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH N5.4-1 THROUGH N5.4-3. IN THESE TABLES , THE INSPECTION TASKS ARE AS F			$\langle$	
O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTION P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.	IS.		λ	
TABLE N5.4-1			$\langle$	
INSPECTION TASKS PRIOR TO WELDING	QC	QA	5	
VELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P P	P P	$\mathbf{\hat{z}}$	
ATERIAL IDENTIFICATION (TYPE/GRADE) WELDER IDENTIFICATION SYSTEM ¹	0	0	$\langle$	
<ul> <li>IT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)</li> <li>JOINT PREPARATION</li> <li>DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> </ul>	0	0	5	
<ul> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY AND LOCATION)</li> </ul>			$\langle \rangle$	DATE 03/04/2025
BACKING TYPE AND FIT (IF APPLICABLE) CONFIGURATION AND FINISH OF ACCESS HOLES	0	0	$\langle$	03/(0
<ul> <li>IT-UP OF FILLET WELDS</li> <li>DIMENSIONS (ALIGNMENT, GAPS AT ROOT)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> </ul>	0	0	5	
TACKING (TACK WELD QUALITY AND LOCATION) CHECK WELDING EQUIPMENT			$\langle$	
THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL LOW-STRESS TYPE.		~	\$	NOI
TABLE N5.4-2			$\rangle$	DESCRIPTION MODIFICATIONS
INSPECTION TASKS DURING WELDING	QC	QA	$\langle$	DES AND MO
USE OF QUALIFIED WELDERS CONTROL AND HANDLING OF WELDING CONSUMABLES	0	0	5	
<ul><li>PACKAGING</li><li>EXPOSURE CONTROL</li></ul>			>	ADDITIONS
NO WELDING OVER CRACKED TACK WELDS ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS	0	0	$\langle$	
PRECIPITATION AND TEMPERATURE WPS FOLLOWED	0	0	$\mathbf{i}$	1 1
<ul> <li>SETTINGS ON WELDING EQUIPMENT</li> <li>TRAVEL SPEED</li> <li>SELECTED WELDING MATERIALS</li> </ul>			$\langle \rangle$	
<ul> <li>SHIELDING GAS TYPE/FLOW RATE</li> <li>PREHEAT APPLIED</li> <li>INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)</li> </ul>			$\langle$	
PROPER POSITION (F, V, H, OH)  VELDING TECHNIQUES  INTERDASS AND SINAL CLEANING	0	0	\$	с С
<ul> <li>INTERPASS AND FINAL CLEANING</li> <li>EACH PASS WITHIN PROFILE LIMITATIONS</li> <li>EACH PASS MEETS QUALITY REQUIREMENTS</li> </ul>			$\langle$	Suite 01
TABLE N5.4-3			$\boldsymbol{\zeta}$	ve. 860 46
INSPECTION TASKS AFTER WELDING	QC	QA	$\sum_{i=1}^{n}$	A AZ -40
WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS	0 P	O P	$\langle$	E Birch taff, A 774-4
VELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION	Р	Р	5	201 E Flagst (928)
<ul> <li>CRATER CROSS SECTION</li> <li>WELD PROFILES</li> </ul>			$\mathbf{\hat{z}}$	
<ul> <li>WELD SIZE</li> <li>UNDERCUT</li> <li>POROSITY</li> </ul>			$\langle$	eopt
ARC STRIKES Y-AREA ¹	P P	P P	5	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P P	P P	2	e to
WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PE THE $\&$ -AREA, VISUALLY INSPECT THE WEB $\&$ -AREA FOR CRACKS WITHIN 3 IN. (75MM) C			{	
			5	
2018 IBC - SECTION 1705 REQUIRED VERIFICATION AND INSPECTION OF			2	
EXPANSION BOLTS AND ADHESIVE ANCHORS			$\boldsymbol{\zeta}$	NGINE
DURING THE DRILLING AND INSTALLATION OF EXPANSION BOLTS AND ADHESIVE ANCHO	νKΟ.		$\sum_{i=1}^{n}$	Cor
2018 IBC - TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION			$\langle$	
OF SOILS	IODICALLY	DURING	5	and Protessional E2013
VERIFICATION AND INSPECTION TASK     TASK LISTED       . VERIFY MATERIALS BELOW FOOTINGS ARE	TASK LIST		λ	GEOFFREY D.
ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	X		$\langle$	Server 2001005
PROPER DEPTHS AND HAVE REACHED PROPER MATERIAL.			5	
B. PERFORM CLASSIFICATION AND TESTING OF	X 		ζ	
DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			{	
OBSERVE SUBGRADE AND VERIFY THAT SITE         HAS BEEN PREPARED PROPERLY.	Х		$\mathbf{\hat{z}}$	
		]	$\langle$	NFF TRAIL NENT NENT CAL/DCW CKED: TES CKED: TES
PECIAL INSPECTIONS CONTINUED ON SHEET S2			$\langle$	N Z{< mm [ ]
			\$	
$\sim$	$\sim$	$\sim$	HUBBARD MERRELL	7L/ 7R C. 2023
			1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174	Y OF F SWITZE GE M 03-1601 D: 16C0F03 FEBRUARY :
			FLAGSTAFF, AZ 86004	SW AG 0. 0: 1 FEB
			HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING DRAWN BY: VICTOR WING	
			JOB ORDER #: 24028 1 THIS DRAWING IS THE PROPERTY OF HME. THE USE OF THIS DRAWING IS LIMITED TO THE ORIGINAL SITE IT WAS PREPARED FOR AND SHALL BE EXPRESSLY LIMITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL	FU EDRE S
			OF RECORD. REUSE, REPRODUCTION, OR PUBLICATIONS BY ANY METHOD IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF HME.	γ γ γ γ γ γ γ γ γ γ γ γ γ γ
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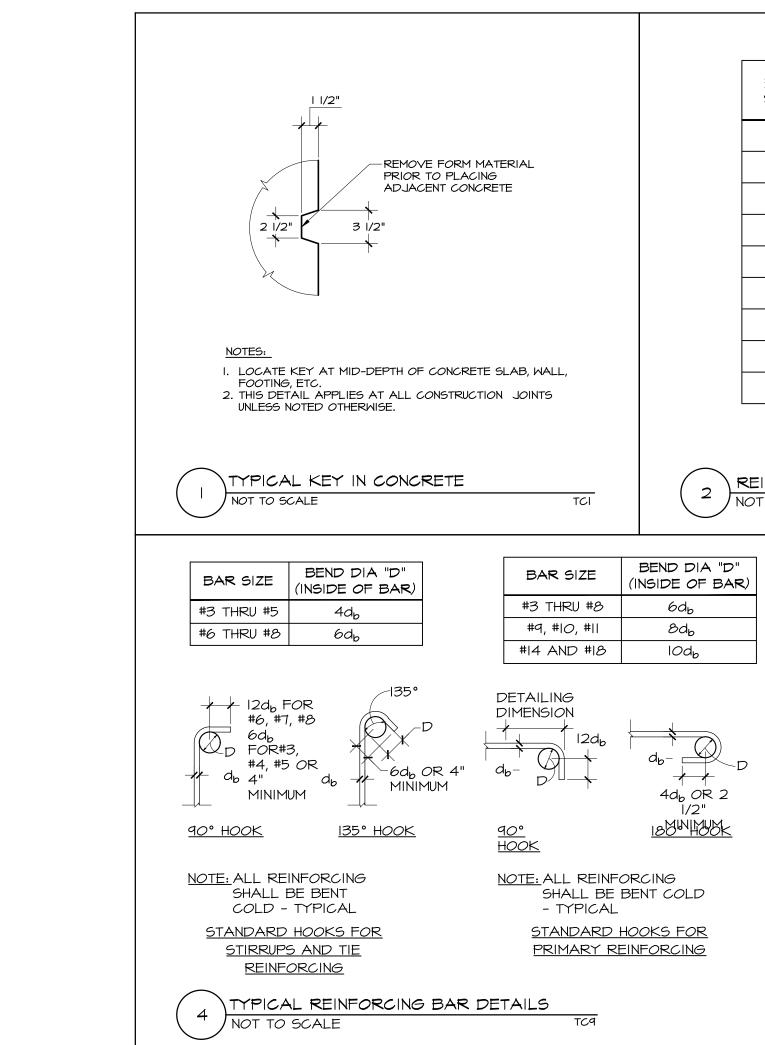
AS A MINIMUM,	W
N5.4-1 THROUGI	Н
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ANSI/AISC 360-16	$\sim$	$\sim$	$\mathcal{L}$	Contact Arizona 811 at least two full working days before you begin excavation
MINIMUM REQUIREMENTS FOR INSPECTION OF STRUCTURAL STEEL BUILDINGS			$\langle$	ARIZONA811
TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED THOSE INSPECTIONS PERFORMED BY THE QCI/QAI TO ENSURE THAT THE WORK IS P ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.			$\sum_{i=1}^{n}$	Call 811 or click Arizona811.com
AS A MINIMUM, WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH N5.4-1 THROUGH N5.4-3. IN THESE TABLES , THE INSPECTION TASKS ARE AS FO			$\langle$	
O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.	S.		$\langle$	
TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING			$\left\{ \right.$	
INSPECTION TASKS PRIOR TO WELDING ELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	QC P	QA P	}	
ANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE ATERIAL IDENTIFICATION (TYPE/GRADE) ELDER IDENTIFICATION SYSTEM ¹	Р О О	Р 0 0	$\langle$	
<ul> <li>T-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)</li> <li>JOINT PREPARATION</li> <li>DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY AND LOCATION)</li> <li>BACKING TYPE AND FIT (IF APPLICABLE)</li> </ul>	0	0		DATE 03/04/2025
<ul> <li>DNFIGURATION AND FINISH OF ACCESS HOLES</li> <li>T-UP OF FILLET WELDS</li> <li>DIMENSIONS (ALIGNMENT, GAPS AT ROOT)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY AND LOCATION)</li> </ul>	0	0		
TACKING (TACK WELD QUALITY AND LOCATION) HECK WELDING EQUIPMENT THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL E LOW-STRESS TYPE.			$\left\{ \right.$	NO
TABLE N5.4-2 INSPECTION TASKS DURING WELDING			$\left\{ \right\}$	DESCRIPTION MODIFICATIONS
INSPECTION TASKS DURING WELDING SE OF QUALIFIED WELDERS	QC	QA	λ	AND
ONTROL AND HANDLING OF WELDING CONSUMABLES ● PACKAGING	0	0	$\langle$	ADDITIONS
EXPOSURE CONTROL     OVER CRACKED TACK WELDS	0	0	5	ADI
VVIRONMENTAL CONDITIONS <ul> <li>WIND SPEED WITHIN LIMITS</li> <li>PRECIPITATION AND TEMPERATURE</li> </ul>	0	0	$\sum_{i=1}^{n}$	
PS FOLLOWED ● SETTINGS ON WELDING EQUIPMENT	0	0	$\langle$	REVISION 1
<ul> <li>TRAVEL SPEED</li> <li>SELECTED WELDING MATERIALS</li> <li>SHIELDING GAS TYPE/FLOW RATE</li> </ul>			5	
<ul> <li>PREHEAT APPLIED</li> <li>INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)</li> <li>PROPER POSITION (F, V, H, OH)</li> </ul>			5	
ELDING TECHNIQUES • INTERPASS AND FINAL CLEANING	0	0	$\langle$	te 3
<ul> <li>EACH PASS WITHIN PROFILE LIMITATIONS</li> <li>EACH PASS MEETS QUALITY REQUIREMENTS</li> </ul>			5	. Suite 001
TABLE N5.4-3 INSPECTION TASKS AFTER WELDING			$\mathbf{z}$	Ave Z 86 046
INSPECTION TASKS AFTER WELDING		QA	<	Birch / aff, AZ 774-40
ZE, LENGTH AND LOCATION OF WELDS ELDS MEET VISUAL ACCEPTANCE CRITERIA	P P	P P	5	
<ul><li>CRACK PROHIBITION</li><li>WELD/BASE-METAL FUSION</li></ul>		F	$\langle \rangle$	201 E Flagst (928)
<ul> <li>CRATER CROSS SECTION</li> <li>WELD PROFILES</li> <li>WELD SIZE</li> </ul>			$\langle$	
UNDERCUT     POROSITY RC STRIKES	P	D	5	eopt
-AREA ¹ ACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P P P	P P P	$\langle$	to Pe
EPAIR ACTIVITIES DCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P P	P P	$\langle$	
WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PEF THE $\measuredangle$ -AREA, VISUALLY INSPECT THE WEB $\bigstar$ -AREA FOR CRACKS WITHIN 3 IN. (75MM) OF			$\left\{ \right\}$	<b>BERI</b> D
2018 IBC - SECTION 1705 REQUIRED VERIFICATION AND INSPECTION OF EXPANSION BOLTS AND ADHESIVE ANCHORS				NGINE
JRING THE DRILLING AND INSTALLATION OF EXPANSION BOLTS AND ADHESIVE ANCHOF	RS.		5	Con
2018 IBC - TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS			$\left. \right\}$	orotessiona/ En
	ODICALLY TASK LIST		$\langle$	AND ATTFICATE TO
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING	X		$\langle$	GEOFFREY D.
CAPACITY.VERIFY EXCAVATIONS ARE EXTENDED TOPROPER DEPTHS AND HAVE REACHED	Х		$\mathbf{i}$	Carrier Color
PROPER MATERIAL. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	Х		$\langle$	X
VERIFY USE OF PROPER MATERIALS, X DENSITIES AND LIFT THICKNESSES DURING			$\langle$	
PLACEMENT AND COMPACTION OF COMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL,	X		$\sum_{i=1}^{n}$	
OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			$\boldsymbol{\zeta}$	AIL VTS DCW : TES
PECIAL INSPECTIONS CONTINUED ON SHEET S2			$\sum_{i=1}^{n}$	TAFF DN TRAII
			$\langle$	
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			MERRELL ENGINEERING	F FL ZER (013 8 6013 8 503/22
			1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174 FLAGSTAFF, AZ 86004	
			HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING	S - S - S - S - NO.
			DRAWN BY: VICTOR WING JOB ORDER #:24028	
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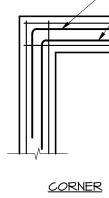
ANSI/AISC 360-16 MINIMUM REQUIREMENTS FOR INSPECTION OF STRUCTURAL STEEL BUILDINGS TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED THOSE INSPECTIONS PERFORMED BY THE QCI/QAI TO ENSURE THAT THE WORK IS F ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH N5.4-1 THROUGH N5.4-3. IN THESE TABLES , THE INSPECTION TASKS ARE AS FO O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTION P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER. TABLE N5.4-1	PERFORME TABLES DLLOWS:			Contact Arizona 811 at least two full working days before you begin excavation ARECONACTOR Call 811 or click Arizona811.com
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2018 IBC - SECTION 1705 REQUIRED VERIFICATION AND INSPECTION OF EXPANSION BOLTS AND ADHESIVE ANCHORS	RS			NGINE
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3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. 4. VERIFY USE OF PROPER MATERIALS, X	X 		$\langle \rangle$	
DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.			\langle	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Х		\mathbf{x}	
SPECIAL INSPECTIONS CONTINUED ON SHEET S2				STAFF ON TRAIL FMENT PENENT BY: CAL/DCW CHECKED: TE
$\underline{\lambda}$			HUBBARD MERRELL ENGINEERING 1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174 FLAGSTAFF, AZ 86004 HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING	CITY OF FLAGST TS - SWITZER CANYO INAGE IMPROVE JOB NO: 16C0F03/22C0F03 BY DATE: FEBRUARY 2023 CF
			THINE STRUCTOR WING DRAWN BY: VICTOR WING JOB ORDER #: 24028 THIS DRAWING IS THE PROPERTY OF HME. THE USE OF THIS DRAWING IS LIMITED TO THE ORIGINAL SITE IT WAS PREPARED FOR AND SHALL BE EXPRESSLY LIMITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL DRAWINGS ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. REUSE, REPRODUCTION, OR PUBLICATIONS BY ANY METHOD IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF HME. FINAL PLANS	C C C C C C F U T F U T F U T F U T S T S S 1 oF S S 1 oF S S 1 oF S S S S S S S S S S S S S S S S S S S

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STRUCTURAL STEEL BUILDINGS			$\mathbf{\hat{z}}$	ARZONASII
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2018 IBC - SECTION 1705			\langle	ting
REQUIRED VERIFICATION AND INSPECTION OF EXPANSION BOLTS AND ADHESIVE ANCHORS			\mathbf{i}	ect ect
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			J V N ENGINEERING 1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174	Y OF FLAG SWITZER CAN GE IMPROV 3-16013 & ST 3: 16C0F03/22C0F03 FEBRUARY 2023
			FLAGSTAFF, AZ 86004	
			HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING DRAWN BY: VICTOR WING	
			JOB ORDER $\#:(24028) 1$	DRA CORA
			THIS DRAWING IS THE PROPERTY OF HME. THE USE OF THIS DRAWING IS LIMITED TO THE ORIGINAL SITE IT WAS PREPARED FOR AND SHALL BE EXPRESSLY LIMITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL DRAWINGS ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. RELYS, REPRODUCTION, OR PUBLICATIONS BY ANY METHOD IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF HME.	
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VHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL E OW-STRESS TYPE.	3E THE		ζ	DESCRIPTION
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TABLE N5.4-3			$\boldsymbol{\varsigma}$	we. 860 46
INSPECTION TASKS AFTER WELDING	QC	QA	$\sum_{i=1}^{n}$	ch A AZ I-40
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■ CRACK PROHIBITION	P	P	\langle	201 E Flagsta (928)
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			1623 N. FIRST ST., STE. 201 PHONE: 928.526.6174	Y OF FLAG SWITZER CAN GE IMPROV 33-16013 & ST 3: 16C0F03/22C0F03 FEBRUARY 2023
			FLAGSTAFF, AZ 86004	
			HME PROJECT MANAGER: GEOFF WERTZ HME STRUCTURAL DESIGNER: VICTOR WING DRAWN BY: VICTOR WING	CIT ATTS - JUB N JOB N
			JOB ORDER #: 24028 1 THIS DRAWING IS THE PROPERTY OF HME. THE USE OF THIS DRAWING IS LIMITED TO THE ORIGINAL SITE IT WAS PREPARED FOR AND SHALL BE EXPRESSLY LIMITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL	TEN ROJEC
			EXPRESSIVE UNITED TO SUCH USE. ANY CHANGES TO THE ORIGINAL DRAWINGS ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. REUSE, REPRODUCTION, OR PUBLICATIONS BY ANY METHOD IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF HME.	
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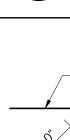


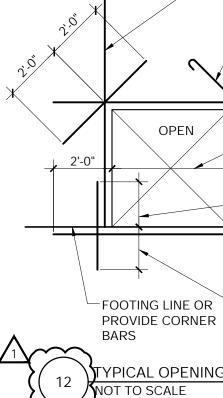
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VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		Х	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.			AWS D1.4 ACI 318: 3.5.2	
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.		Х	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ^b .		Х	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.		Х	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		ACI 318: 5.9, 5.10	1910.6, 1910.7 1910.8
B. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х	ACI 318: 5.11- 5.13	1910.9
 P. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. 	x		ACI 318: 18.20	
b. GROUTING OF BONDED PRE-STRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM.	X		ACI 318:18.18.4	
10. ERECTION OF PRECAST CONCRETE MEMBERS.		Х	ACI 318: Ch.16	
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST- TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		Х	ACI 318: 6.2	
2. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 6.1.1	
OR SI: 1"=25.4 MM. ^a WHERE APPLICABLE, SEE ALSO SECTION	1705.11, SPECIAI		IN FOR SEISMIC RE	SISTANCE.
^b SPECIFIC REQUIREMENTS FOR SPECIAL II FOR THE ANCHOR ISSUED BY AN APPROV QUALIFICATION PROCEDURES. WHERE SF INSPECTION REQUIREMENTS SHALL BE SI SHALL BE APPROVED BY THE BUILDING O	'ED SOURCE IN A PECIFIC REQUIRE PECIFIED BY THE	CCORDANC	E WITH ACI 355.2 C E NOT PROVIDED, S ED DESIGN PROFE	OR OTHER SPECIAL SSIONAL AND



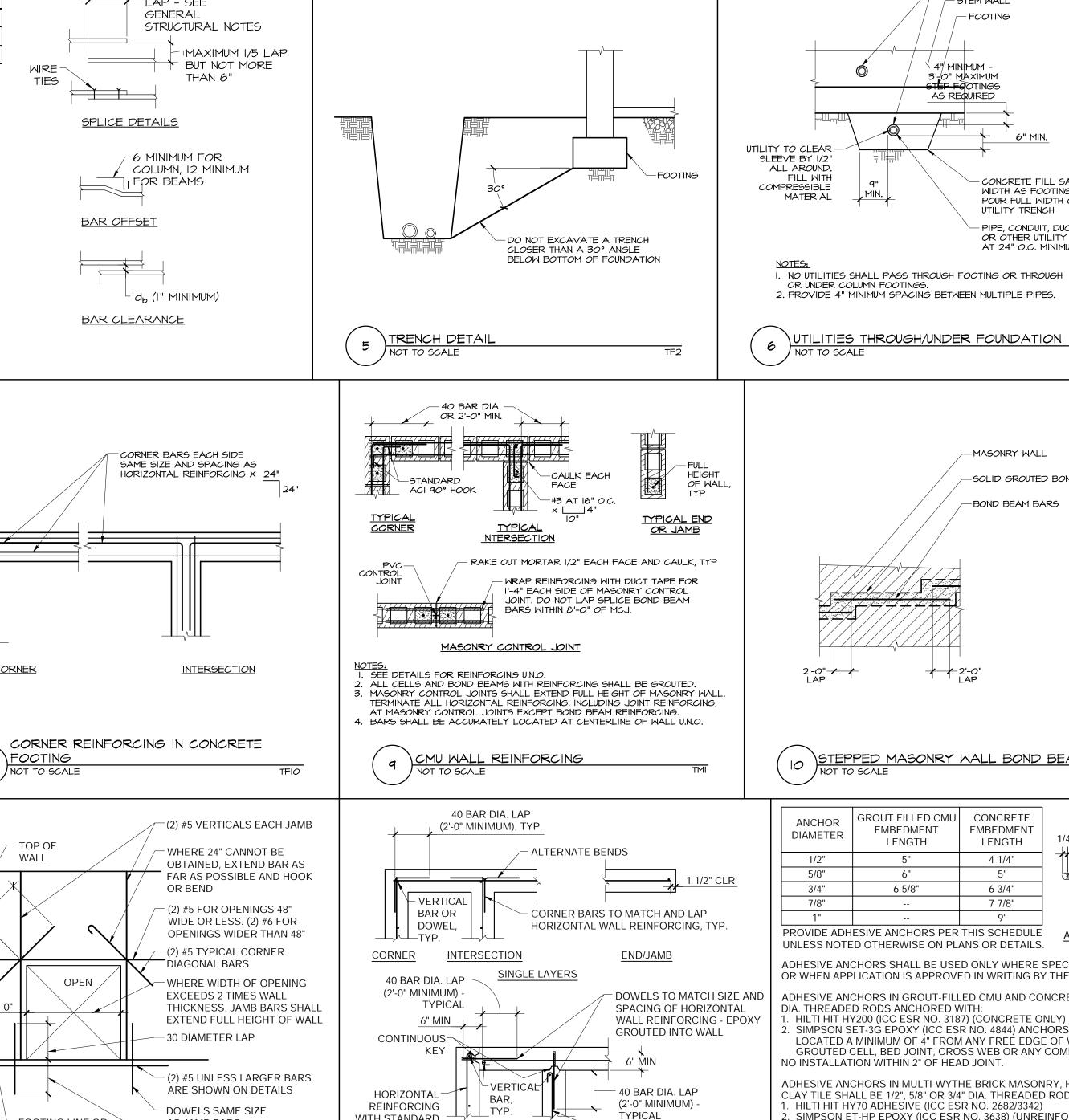


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#5 IOP 50 50 21 50 22 53 24 52 22 24 17 21 20 20 24 17 23 16 21 20 24 17 23 16 21 20 24 17 23 16 21 20 24 17 23 16 21 20 24 17 23 16 21 20 26 33 #6 TOP 36 471 33 43 30 39 22 29 21 28 20 26 33 41 50 41 54 31 37 49 45 32 42 30 39 28 37 41 54 41 54 32 42 30 39 20 37 41 54 56 41 54 32 42 55 41 54 32 42 55 41 54 36 50 65 47 62 41 54 38 50	#4			32 24											_	OTHERWISE NOTED.
#6 OTHER 27 36 25 33 23 30 22 24 21 28 20 26 7 4 4 ACOVER BEIN #7 TOP 52 68 47 62 44 58 41 54 39 51 37 49 MULTIPLY VALUES BY 1.4. #6 TOP 59 71 54 71 50 65 47 36 42 55 37 90 14. 58 42 55 47 62 44 58 42 55 41 54 39 51 37 49 MULTIPLY VALUES BY 1.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULTIPLY VALUES BY 1.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULTIPLY VALUES BY 1.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULTIPLY VALUES BY 1.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULTIPLY VALUES BY 1.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULTIPLY 4.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULTIPLY 4.4. 5. FOR BARS MITH CENTER-TO-C BETWEEN 3d, AND 4d, MULT	#5		23	39 30			25 20	33 26					21 16	21] <u><u></u></u>	CONCRETE COVER OF 2db AND 1
#7 TOP OTHER 52 68 47 62 44 58 41 54 39 51 37 49 91 91 91 91 91 91 91 91 91 91 91 91 92 91 91 92 91 91 92 91 91 92 91 91 92 91 91 91 92 91 91 91 92 91 91 91 91 92 91	#6	OTHER	27	36	25	33	23	30	22	29	21	28	20	26		4. FOR BARS WITH COVER BETWEEN
#8 TOP 59 T1 54 T1 50 65 41 62 44 58 42 55 T #9 TOP 66 86 61 80 56 73 53 69 50 65 41 56 42 55 1 6. FOR BARS NOT MEETING ABO #9 TOP 66 86 61 80 56 73 53 69 50 65 47 62 42 57 9 #10 TOP 75 98 68 89 63 82 59 71 56 73 53 69 41 54 71 56 73 53 69 71 7. FOR LIGHTWEIGHT CONCRETE, BY 0.75. #10 TOP 83 108 76 99 70 91 66 86 62 81 59 71 5. #11 TOP 83 108 76 91 70 91 66 86 62 81 59 71 5. <t< td=""><td>#7</td><td>OTHER</td><td>40</td><td>52</td><td>36</td><td>47</td><td>34</td><td>45</td><td>32</td><td>42</td><td>30</td><td>39</td><td>28</td><td>37</td><td>UES </td><td>5. FOR BARS WITH CENTER-TO-CEN BETWEEN 3db AND 4db, MULTIPLY</td></t<>	#7	OTHER	40	52	36	47	34	45	32	42	30	39	28	37	UES	5. FOR BARS WITH CENTER-TO-CEN BETWEEN 3db AND 4db, MULTIPLY
#q IOP 66 86 61 80 56 13 53 64 50 65 41 62 41 62 41 62 41 62 41 62 41 53 64 50 65 41 62 41 62 41 54 38 50 36 41 62 41 41 62 41 54 38 50 36 41 52 41 53 64 41 54 38 50 36 41 54 71 56 73 53 64 41 54 36 41 54 54 71 56 73 53 64 41 54 54 71 56 73 53 64 41 54 54 71 51 61 43 56 41 54 54 71 51 61 43 56 41 54 54 71 51 61 43 63 45 54 71 51 61 48 <t< td=""><td>#8</td><td>OTHER</td><td>45</td><td>59</td><td>42</td><td>55</td><td>39</td><td>51</td><td>36</td><td>47</td><td>34</td><td>45</td><td>32</td><td>42</td><td>2 B C B C B C</td><td>I.4. 6. FOR BARS NOT MEETING ABOVE</td></t<>	#8	OTHER	45	59	42	55	39	51	36	47	34	45	32	42	2 B C B C B C	I.4. 6. FOR BARS NOT MEETING ABOVE
#IO IOP IS 90 60 60 60 13 53 69 1 #IO OTHER 58 76 53 69 49 64 46 60 43 56 41 54 #II TOP 83 IO8 76 99 70 91 66 86 62 81 59 71 BY I.5. #II OTHER 64 84 58 76 54 71 51 67 48 63 45 59 8. FOR EPOXY COATED BARS, M WITH MORE THAN 12 INCHES O 80 63 45 59 71 9. TOP BAR IS DEFINED AS HOR WITH MORE THAN 12 INCHES O 80 80 83 45 59 90 81.00. 90 90 BELOW. 90	#q	OTHER	51	67	47	62	43	56	41	54	38	50	36	47	1 1	REQUIREMENTS, MULTIPLY BY 2.0 7. FOR LIGHTWEIGHT CONCRETE, DI
#II OTHER 64 84 58 76 54 71 51 67 48 63 45 59 9. TOP BAR IS DEFINED AS HOR WITH MORE THAN 12 INCHES O BELOW. 0. THER 64 84 58 76 54 71 51 67 48 63 45 59 9. TOP BAR IS DEFINED AS HOR WITH MORE THAN 12 INCHES O BELOW. 0. FOR VERTICAL BARS, USE VA "OTHER" POSITION. 10. FOR VERTICAL BARS, USE VA 10. FOR VERTICAL BARS, USE VA	#I <i>O</i>	OTHER	58	76	53	69	49	64	46	60	43	56	41	54		8. FOR EPOXY COATED BARS, MUL
	#11															9. TOP BAR IS DEFINED AS HORIZC WITH MORE THAN 12 INCHES OF C BELOW. IO.FOR VERTICAL BARS, USE VALUE "OTHER" POSITION.
REINFORCING BAR LAP SPLICE TABLE (Fy = 60 ksi) OT TO SCALE TC8			AP SP	LICE T	ABLE (F	=y = 60 €8) ksi)									II. DASED ON ACT SID-14



WITH STANDARD

13

180° HOOK AT CORNER INTERSECTION

NOT TO SCALE

END SINGLE LAYER ALTERNATE

YPICAL OPENING IN CONCRETE WALL NOT TO SCALE

AS JAMB BARS

- 30 DIAMETER EMBEDMENT

PLAN VIEW - TYPICAL CONCRETE WALL REINFORCING 14 NOT TO SCALE TC3

-HORIZONTAL REINFORCING

WITH STANDARD 180°

HOOK AT END

