

9392.00 ASP - IA DOC - ADMINISTRATION BUILDING ENTRY PORCH REPAIRS

ARCHITECTURAL DRAWINGS

SHEET

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A101	FIRST LEVEL
A201	ELEVATIONS
A301	SECTIONS
A302	ALTERNATE #1 - RETAINING WALL
A801	MARBLE FINISH PLAN









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ACHITE	I hereby certify these plans and specifications were prepared by me or under my direct personal supervision and that I am a duly licensed professional architect under the laws of the state of lowa. Digitally signed by Rick Seely AIA Date: 2024.12.13 18:24:06-06'00'						
	Name: Richard S. Seely, AIA						
	Iowa Registration No: 2981 Renewal Date: 6/30/2025						
	Sheets covered by this seal: Listed As "Architectural"						
A A A A A A A A A A A A A A A A A A A	I hereby certify this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed professional engineer under the laws of the state of lowa.						
	Signature:						
	Name: Bradley C. Hill, PE						
	Iowa Registration No: 19593 Renewal Date: 12/31/2026						
	Sheets covered by this seal: Listed As "Structural"						

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- - ALUMINUM CONCRETE MASONRY UNIT

- QUARTZ
- GENERAL INFORMATION STANDARD ARCHITECTURAL MATERIAL DEFINITIONS
- BATT INSULATION EARTH/FILL

- $\langle \langle \rangle \rangle \langle \rangle \rangle \langle \rangle \rangle \langle \rangle \rangle \langle \rangle \rangle$
 - - **BLOCKING CONTINUOUS**
 - GLASS
 - 4.4.4

- PORCELAIN CERAMIC TILE
- PLYWOOD







1 2 3 4	5 6 7 8	9 10	11 12	13 14 15 1	16 17 18
				STANDARD ABBREVIATIONS # NUMBER	STANDARD SYMBOLS
				ACM ALUMINUM COMPOSITE METAL PANEL ACP ACOUSTICAL CEILING PANEL	SERIES NUMBER MODIFICATION ADA COMPLIANT
				AFF ABOVE FINISH FLOOR AWP ACOUSTIC WALL PANEL BAS BUILDING AUTOMATION SYSTEM	100M.A 30-34-24
				BC BOTTOM OF CURB BM BENCH MARK BOC BACK OF CURB	DESCRIPTION
				BOS BOTTOM OF STEEL BOW BOTTOM OF WALL BR BUMPER GUARD/BUMPER RAIL	
				BRG BEARING BS BOTTOM OF STAIR C CHANNEL	SCB
				CC COBICLE CORTAIN CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED	3 ◀──── SCRIBE WIDTH
				CIP CAST-IN-PLACE CJ CONTROL JOINT CK COBK ELOOBING	
				CL CENTER LINE CLG CEILING CLL CONSTRUCTION LIMITS LINE	ADA COMPLIANT
				CMU CONCRETE MASONRY UNIT CO CLEANOUT CONC CONCRETE	C-SS.A 30-34-24 DIMENSIONS* W-H-D
				CONT CONTINUOUS CPT CARPET CRK CORK	*FOR BASE CABINETS AND COUNTERTOPS HEIGHT IS MEASURED FROM FINISH FLOOR TO TOP OF COUNTERTOP
				DEMO DEMOLISH / DEMOLITION DF DRINKING FOUNTAIN DIA DIAMETER	
				DN DOWN DS DOWNSPOUT EC ELECTRICAL CONTRACTOR	CW SF CURTAIN WALL/
				EIFS EXTERIOR INSULATION FINISH SYSTEM EJ EXPANSION JOINT ELEC ELECTRICAL	
				ELEV ELEVATION EPF EPOXY FLOORING EPT EPOXY PAINT	STOREFRONT IDENTIFICATION
				EQ EQUAL EWC ELECTRIC WATER COOLER EX EXISTING	KEYNOTE
				FAF FLUID APPLIED FLOORING FD FLOOR DRAIN FF FACTORY FINISH	00 00 A1 ARROW POINTS TO
				FFE FINISHED FLOOR ELEVATION FOC FACE OF CURB FOF FACE OF FINISH	OBJECT
				FOG FACE OF GLAZING FRP FIBER REINFORCED PANEL GA GAUGE GALV GALVANIZED	KEYNOTE REFERENCE
				GC GENERAL CONTRACTOR GHM GALVANIZED HOLLOW METAL GL GLASS	
				GT GROUT GWB GYPSUM WALL BOARD GYP GYPSUM	
				HORZ HORIZONTAL HM HOLLOW METAL HT HEIGHT	STRUCTURAL GRID
				ID INSIDE DIAMETER	<u>4'-0"</u>
				L ANGLE LB/LBS POUND / POUNDS LVT LUXURY VINYL TILE MAX MAXIMUM	
				MBA MARKERBOARD MC MECHANICAL CONTRACTOR MDF MEDIUM DENSITY FIBERBOARD	FACE OF FINISH TO
				MFR MANUFACTURERS MH MANHOLE MIL MIL THICKNESS	DIMENSIONS
				MIN MINIMUM MO MASONRY OPENING NIC NOT IN CONTRACT	DENOTES ELEVATION HEIGHT
				NTS NOT TO SCALE OC ON CENTER OA OVERALL	LEVEL 1 DENOTES OBJECT
				OFCI OWNER FURNISHED CONTRACTOR INSTALLED OFOI OWNER FURNISHED OWNER	REFERENCE ELEVATION TAG
				INSTALLED OH OVERHEAD ORD OVERFLOW ROOF DRAIN OTS OPEN TO STRUCTURE	REVISION REFERENCE
				PCT PORCELAIN CERAMIC TILE PL PLATE PL AM PLASTIC LAMINATE	NUMBER
				PP POLYMER PANEL PVC POLY VINYL CHLORIDE PT PAINT	ITC DRAWING REVISION
				QT QUARTZ RAD RADIUS RAF RESILIENT ATHLETIC FLOORING	
				RB RESILIENT BASE RD ROOF DRAIN REX RESIN REVISION	
				RO ROUGH OPENING ROW RIGHT-OF-WAY RSF RESILIENT SHEET FLOORING	
				RST RESILIENT STAIR TREAD RTF RESILIENT TILE FLOORING RUB RUBBER	
	ALUMINUM BATT INSULATION BLOCKING - CONTINUOUS B	BLOCKING - DISCONTINUOUS BRICK	CARPET CONCRETE	SC SEALED CONCRETE SF SQUARE FEET SIM SIMILAR	
				STN STONE ST STL STAINLESS STEEL SUSP SUSPENDED	
	CONCRETE EARTH/FILL GLASS	GRANULAR FILL GYPSUM BOARD LI	IXURY VINYL MDF	T TILE T&G TONGUE AND GROOVE TG TEMPERED GLASS	
				TOC TOP OF CURB TOM TOP OF MASONRY TOS TOP OF SLAB / TOP OF STEEL	
				TOW TOP OF WALL TP TOILET PARTITION TPF TACKABLE PANEL FABRIC TP7 TEPPA770	
	PORCELAIN PLYWOOD QUARTZ CERAMIC TILE	RIGID INSULATION SAND	SEMI-RIGID SOLID SURFACE	TS TOP OF STAIR TYP TYPICAL UL UNDERWRITERS LABORATORIES	
				INC. UNO UNLESS NOTED OTHERWISE VERT VERTICAL	
		SPRAY FOAM STEEL INSULATION STEEL	STONE WOOD	VIF VERIFY IN FIELD WB WALL BASE WC WALL COVERING	
		AI MATERIAL DEFINITIONS		W/ WITH W/O WITHOUT WD WOOD WGH WALLGUARD HANDRAII	
				WM WALK-OFF MAT WP WALL PROTECTION WT WINDOW TREATMENT	
				WWF WELDED WIRE FABRIC	







GENERAL DRAWING INFORMATION

12/03/2024



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TH	40"	267 CAPACITY
-	71"	473 CAPACITY
L:	111"	740 CAPACITY



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Project 9392.00 ASP - IA DOC -ADMINISTRATION BUILDING ENTRY PORCH REPAIRS

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Sheet Issue Date

REBID SET

Sheet Name

Revision Description

12/03/2024

SITE ACCESS PLAN

Sheet Number

	1	L 2	3 4	5	6 7 8	9 10 11	12	13 14	15 16	17	18	19	20 21
	<u>DP</u> DP1	<u>DESIGN PARAMETERS</u> THE STRUCTURE IS DESIGNED IN ACCOI INTERNATIONAL BUILDING CODE, 2018 E	RDANCE WITH THE ICC DITION.	CN CN1	CONCRETE NOTES CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE IBC.	SP SPECIAL INSPECTION SP1 SPECIAL INSPECTION PROGRAM SHALL CONFORM TO CHAPTER 17 SP2 THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO REPEORAT	OF THE IBC.						
0	DP2	UNIFORM LIVE LOADS: TYPICAL @ PORCH	100 PSF	CN2	CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM OF 1/4" AMPLITUDE.	THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM T TESTS AND SPECIAL INSPECTIONS WITH QUALIFICATIONS DESCRIB CHAPTER 17 AND THE PROJECT SPECIFICATIONS.	BED PER IBC						
Q	DP3	ALLOWABLE FRAMING DEFLECTIONS: FLOOR LIVE LOAD	L/360	CN3	ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED 3/4" U.N.O.	SP3 SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR.	G OFFICIAL,						
_	DP4	ASSUMED FUTURE CONSTRUCTION: VERTICAL HORIZONTAL	NONE	CIN4	CONCRETE FORMWORK. CN4.1 SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO POURING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION	SP4 SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THA STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECT KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUC DOCUMENTS.	NT THE OR'S CTION						
	SU	SUBMITTALS			THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER. CN4.2 VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL,	SP5 SPECIAL INSPECTION PROGRAM:							
Р	SU1	GENERAL CONTRACTOR TO PROVIDE A ALL PROPOSED SUBMITTALS FOR APPR RECORD.	SHOP DRAWING SUBMITTAL LOG ITEMIZING OVAL BY STRUCTURAL ENGINEER OF	CN5	ELECTRICAL, AND PLUMBING REQUIREMENTS PRIOR TO POURING.		FREQUENCY / TASK						
	SU2	ALL SHOP DRAWINGS SHALL BE CHECKI	ED BY THE FABRICATOR AND APPROVED		CN5.1 DETAILING, FABRICATION, AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO ACI-315. CN5.2 ALL REINFORCEMENT TO BE ASTM A615 GRADE 60 U.N.O. WELDED WIRE	CONCRETE 1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, 8. VERIEN RI ACEMENT	PERIODIC						
		ENGINEER OF RECORD. SHOP DRAWING VERIFYING GENERAL CONFORMANCE TO CONTRACTOR IS RESPONSIBLE FOR AN	B REVIEW BY ENGINEER IS LIMITED TO THE CONTRACT DOCUMENTS. Y CHANGES FROM THE CONTRACT		FABRIC TO BE ASTM A185 WITH WIRE CONFORMING TO ASTM A82. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE USING #16 ANNEALED IRON WIRE, REINFORCEMENT SHALL BE CONTINUOUS	2. INSPECT REINFORCING BAR WELDING:							
		DOCUMENTS, DIMENSIONAL ERRORS, C SHOP DRAWINGS.	OORDINATION ERRORS, OR OMISSIONS IN		THROUGH ALL CONSTRUCTION JOINTS, U.N.O. CN5.3 ALL CONTINUOUS REINFORCING SHALL BE SPLICED USING CLASS B	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC PERIODIC						
	SU3	SHOP DRAWINGS SHALL BE SUBMITTED FABRICATION AND CONSTRUCTION REG	TO THE ARCHITECT PRIOR TO ARDING ALL STRUCTURAL ITEMS,		CN5.4 BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE	C. INSPECT ALL OTHER WELDS. 3. INSPECT ANCHORS CAST IN CONCRETE.							
Ν		INCLUDING THE FOLLOWING:CONCRETE MIX DESIGNS (5 DAYS BEF	ORE POUR, MIN.)		CRSI MANUAL OF STANDARD PRACTICE, MSP-1. CN5.5 CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS, INTERSECTING WALLS AND INTERSECTING FOUNDATIONS. REFER TO	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	S:						
	SU4	CONCRETE REINFORCEMENT SHOP DRAWINGS SHALL INCLUDE CONN	IECTIONS AS WELL AS SIZE SPACING AND		TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS OR HOOKED DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVIDE	A. ADRESIVE ANCHORS INSTALLED IN HORIZONTALLY OR OPWARDLY INCL ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.							
_		GRADE OF ALL MEMBERS. PLANS AND A DETERMINING FIT AND PLACEMENT SHA	NY DETAILING NECESSARY FOR LL ALSO BE INCLUDED.		HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING. CN5.6 ADD TWO DIAGONAL #5 BARS, FOUR FEET LONG, CENTERED, AT EACH	 5. VERIFY USE OF REQUIRED DESIGN MIX. 6. DEVENDENCE OF REQUIRED DESIGN MIX. 							
	SU5	IF SHOP DRAWINGS DIFFER FROM OR AI DRAWINGS, THEY SHALL BEAR THE SEA	DD TO THE DESIGN OF THE STRUCTURAL L AND SIGNATURE OF AN ENGINEER		CORNER OF FOUNDATION OR SLAB OPENING, U.N.O. U.N.O., INSTALL WWF 1 1/2" FROM TOP OF ALL SLABS ON GRADE, TOPPING SLAPS ON DECK, OR TOPPING SLAPS ON PRECAST, LAR, JOINTS TWO FULL	TESTS, PERFORM SLUMP & AIR CONTENT TESTS AND DETERMINE CONCRU TEMPERATURE.	RETE						
м		DRAWINGS SHALL BE SUBMITTED TO TH REVIEW AND APPROVAL OF THE STRUC	E ARCHITECT AND ARE SUBJECT TO TURAL ENGINEER OF RECORD.		MESHES BUT NOT LESS THAN 8". AT CONSTRUCTION JOINTS, LOCATE WWF AT MID DEPTH OF SLAB.	7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUE 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUE	ES. CONT. JES. PERIODIC						
	SU6	ITEMS THAT ARE DESIGNED BY THE CON THE LIVE LOADS INDICATED IN STRUCTU	NTRACTOR SHALL BE DESIGNED TO RESIST IRAL NOTES, DEAD LOAD, SELF WEIGHT,	CN6	COVERAGE FOR REINFORCEMENT: CN6.1 CONCRETE CAST AGAINST AND	9. INSPECT PRECAST CONCRETE FOR:	CONT						
		ANY ADDITIONAL LOADING INDICATED O NET WIND UPLIFT.	N PLANS AND DETAILS, SNOW DRIFT, AND A		PERMANENTLY EXPOSED TO EARTH	B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONT.						
	SU7	ITEMS THAT ARE DESIGNED BY THE CON TECHNICAL LITERATURE FROM MANUFA FROM THE MANUFACTURER SHOWING T	NTRACTOR SHALL INCLUDE ANY RELEVANT CTURER. ALSO PROVIDE A CERTIFICATION THE PRODUCT IS IN COMPLIANCE WITH ALL		#5 BAR, W31 OR D31 WIRE AND SMALLER 1 1/2" CN6.3 CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. 11. VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE & PRIOR TO REMAYAL OF	PERIODIC PERIODIC						
	SU8	APPLICABLE CODES AND STANDARDS.	D BY THE CONTRACTOR THAT DIFFER		WITH GROUND: SLABS, WALLS, JOISTS: #14 AND # 18 1 1/2"	SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS. 12. INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE	PERIODIC						
L	000	FROM OR ADD TO THE STRUCTURAL DR SIGNATURE OF AN ENGINEER REGISTER	AWINGS SHALL BEAR THE SEAL AND RED IN THE APPROPRIATE STATE AND		#11 BAR AND SMALLER	CONCRETE MEMBER BEING FORMED.							
		Shall be submitted to the architec	T FRIOR TO CONSTRUCTION.	CN/7	TIES, STIRRUPS, SPIRALS	1. THE ITEMS INDICATED ABOVE SHALL BE INSPECTED IN ACCORDANCE W THE IBC BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TE THE IBC BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TE	/ITH CHAPTER 17 OF ESTING AGENCY, FOR						
—	<u>FP</u> FP1	FOUNDATION PARAMETERS SIZE AND BOTTOM ELEVATIONS OF FOO THE ASSUMED MINIMUM ALLOWABLE BE	TINGS HAVE BEEN ESTABLISHED BASED ON ARING PRESSURE OF 1500 PSF AS	CN7	28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE VERIFIED BY STANDARD FOOTINGS	& THE SPECIFIC STRUCTURAL NOTES SECTIONS. THE TESTING AGENCY OF ALL STRUCTURAL TESTING & INSPECTION REPORTS DIRECTLY TO THE	STELL SEND COPIES HE ARCHITECT,						
		SHOWN IN IBC TABLE 1806.2. AS EXCAVA UNANTICIPATED SOIL CONDITIONS MAY STRUCTURAL ENGINEER OF RECORD FC	ATION PROGRESSES, REQUIRE CHANGES. CONTACT DR EVALUATION OF THESE CHANGES.		GRADE BEAMS/PILECAPS fc = 4,000 PSI WALLS/PIERS/COLUMNS fc = 4,000 PSI SLABS ON GRADE fc = 4,000 PSI	MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY	ERIALS WHICH FAIL TO T TO THE ATTENTION OF EQUALLY TO ALL BIDDER						
К	FP2	ALLOWABLE SOIL BEARING PRESSURE CONTINUOUS FOOTINGS	1500 PSF	CN8	TOPPING SLABS $f_c = 4,000$ PSI SPECIAL INSPECTOR SHALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN FIELD.	 DESIGNED COMPONENTS. CONT CONTINUOUS SPECIAL INSPECTION. SPECIAL INSPECTOR IS PR WHEN & WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. (IE 	RESENT CONTINUOUSLY BC SECTION 202).						
	FP3	SQUARE FOOTINGS	1500 PSF	CN9	CONCRETE FOUNDATIONS: CN9.1 ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED BY	 PERIODIC - PERIODIC SPECIAL INSPECTION. SPECIAL INSPECTOR IS INTE WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORM SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN 	ERMITTENTLY PRESENT IED. (IBC SECTION 202) APPROVED FABRICATOR						
_	FP4	(BELOW FINISHED GRADE)			THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE. CN9.2 ACCURATELY SET AND SECURELY SUPPORT REINFORCING, DOWELS AND ANCHOR BOLTS PRIOR TO PLACEMENT OF CONCRETE. WET-	(IBC SECTION 1704.2.5).							
		ACTIVE			STICKING OR FLOATING OF REINFORCING, DOWELS AND ANCHOR RODS IS NOT ALLOWED. CN9.3 PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS.								
					ANCHORS, ETC., AS SHOWN. ITEMS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO USUAL ACCEPTED STANDARDS OF THE TRADE, ANCHOR RODS PER ASTM F1554 AS SHOWN								
J	<u>TYPICAI</u> (PERIOI	AL STRUCTURAL ABBREVIATIONS DDS w/ ABBREVIATIONS MAY BE OMITTED W	ITHOUT CHANGING MEANING).		CN9.4 ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS REINFORCING SHALL EXTEND ONE DEVELOPMENT LENGTH PLUS 6". LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASONBY								
	& @	AND AT	L.L.H. LONG LEG HORIZONTAL L.L.V. LONG LEG VERTICAL		VENEER WHEN POSSIBLE. CN9.5 REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT								
—	A.B. A.C.I. A.E.S.S.	ANCHOR BOLT AMERICAN CONCRETE INSTITUTE S. ARCHITECTURALLY EXPOSED	L.P. LOW POINT LB. POUND L.S.H. LONG SIDE HORIZONTAL		BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIONAL REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWINGS.								
	A.I.S.C.	STRUCTURAL STEEL AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L.S.V. LONG SIDE VERTICAL LONG. LONGITUDINAL LT. GA. LIGHT GAGE	CN10	PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COLUMN BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE								
н	A.S.T.M. ADD.	M. AMERICAN SOCIETY FOR TESTING AND MATERIALS ADDENDUM	M.E.P. MECHANICAL, ELECTRICAL, PLUMBING	CN11	SLAB CONTROL JOINTS:								
	ADD'L. ALT. ARCH	ADDITIONAL ALTERNATE ARCHITECTURAL	M.S.J.C. MASONRY STANDARDS JOINT COMMITTEE MAX MAXIMI IM		CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: • SLAB								
_	B.P.	BASE PLATE	MECH. MECHANICAL MFR. MANUFACTURER MIN MINIM IM	CN12	CN12.3 MAINTAIN A SLAB CONTROL JOINT ASPECT RATIO OF APPROXIMATELY 1:1. PROVIDE VERTICAL WALL JOINTS AS FOLLOWS, U.N.O.:								
	BLDG. BRG.	BUILDING BEARING	MISC. MISCELLANEOUS MTL. METAL		CN13.1 WALLS TALLER THAN 12' H (H = WALL HEIGHT) CN13.2 WALLS 8' - 12' 2*H CN13.3 WALLS SHORTER THAN 8' 3*H								
G	C.I.P. C.J.	CAST IN PLACE CONSTRUCTION JOINT	N.D.S. NATIONAL DESIGN SPECIFICATION		CN13.4 PROVIDE WALL JOINT WITHIN 10' OF ALL CORNERS AND IN LINE WITH EDGES OF ALL WALL OPENINGS. CN13.5 MAXIMUM WALL JOINT SPACING SHALL NOT EXCEED 25 FEET.								
3	C.P. CL	COMPLETE PENETRATION CENTERLINE	N.S. NEAR SIDE N.T.S. NOT TO SCALE	CN13	CONCRETE ACCESSORIES: CN14.1 U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS WITH								
	CLR. CONC.		O.C. ON CENTER O.S.H.A. OCCUPATIONAL SAFETY AND		FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S								
_	CONN. CONST. CONT.	CONNECTION T. CONSTRUCTION CONTINUOUS	HEALTH ADMINISTRATION O.W.J. OPEN WEB JOIST OPNG. OPENING		RECOMMENDATIONS. CN14.2 U.N.O., DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE D2L, OR APPROVED FOLIVALENT AND SHALL BE ALLTOMATICALLY END								
	CONTR.	R. CONTRACTOR	OPP. OPPOSITE P.C.I. PRECAST/PRESTRESSED		WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.								
F	D.B.A. D.L. DFT	DEFORMED BAR ANCHOR DEAD LOAD DETAIL	CONCRETE INSTITUTE P.P. PARTIAL PENETRATION P.S.I. POUNDS PER SQUARE INCH		EN 14.3 U.N.U., EXPANSION BOLTS TO BE HILTI KWIK BOLT TZ OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPANSION ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH								
	DIA. or 4 DIAG.	Φ DIAMETER DIAGONAL DIMENSION	P.S.F. POUNDS PER SQUARE FOOT P.C.F. POUNDS PER CUBIC FOOT PL PLATE		MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT-RE 500 V3 OR APPROVED								
_	DN. DWGS.	DOWN DRAWINGS	PLBG. PLUMBING		EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOXY ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCING IN								
	E.F. E.J.	EACH FACE EXPANSION JOINT EACH WAY	R or RAD. RADIUS	CN15	NEW OR EXISTING CONCRETE DURING INSTALLATION. EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A TWO-								
E	E.VV. EA. EL.	EACH EACH ELEVATION	REINF. REFERENCE REINF. REINFORCING REQ'D. REQUIRED		COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT LIFE. THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDITIONS. MINIMUM SHEAR STRENGTH SHALL BE 5.000 PSI: MINIMUM TENSILE STRENGTH								
	ELEC. EQ. EXT.	ELEO IRICAL EQUAL EXTERIOR	RRE RAKER RHODES ENGINEERING		SHALL BE 4,000 PSI. HOLE SIZES AND INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE APPROVED ICC REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING PLACEMENT								
	F.S. FIN.	FAR SIDE FINISH	S.D.I. STEEL DECK INSTITUTE S.J.I. STEEL JOIST INSTITUTE S.O.G. SLAB ON GRADE	CN16									
-	FM FNDN. FT	FOUNDATION MISCELLANEOUS FOUNDATION FOOT/FEET	SCHED. SCHEDULE SIM. SIMILAR SPA. SPACING/SPACES		FOR PROTECTING CURING CONCRETE PER THE RQMTS. OF ACI 306 DURING COLD WEATHER CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR PROTECTING FOI INDATIONS THAT DO NOT EXTEND TO EDOST DEDTU								
	GA. GALV.	GAGE GALVANIZED	SPECS. SPECIFICATIONS STD. STANDARD STRUC. STRUCTURAL		FROM HEAVING. AT CONTRACTOR'S OPTION, BOTTOM OF FOOTINGS MAY BE EXTENDED BEYOND THE FROST ZONE, IN LIEU OF SURFACE								
D	GC. H.P.	GENERAL CONTRACTOR	T/ TOP OF TYP. TYPICAL		EXTENDED FOUNDATIONS. NO ADD'L REINFORCING WILL BE REQ'D AT EXTENDED FOUNDATIONS. ALL MITIGATION WORK SHALL BE PART OF THE CONTRACTOR BID AND NOT COMPENSIBLE BY CHANGE ORDER.								
	Horiz. ht.	. HORIZONTAL HEIGHT	U.N.O. UNLESS NOTED OTHERWISE VERT. VERTICAL		CN10.3 CONTRACTOR TO PROVIDE A FROST STOOP PER TYP. STOOP DETAIL @ ALL EXTERIOR DOORS, SEE ARCH. FOR DOOR LOCATIONS.								
	I.B.C. IN. INT	INTERNATIONAL BUILDING CODE INCH/INCHES INTERIOR	V.I.F. VERIFY IN FIELD (FIELD VERIFY) w/ WITH										
	K or k	KIP	WITHOUT W.F. WIDE FLANGE W.P. WORKPOINT										
C	L		W.W.F. WELDED WIRE FABRIC										

AMPLITUDE: ALL EXPOSED EDGES OF CONCETE MEMBERS SHALL BE CHAMFERED 34" 1 CONCERTE FORMWORK: CONCERTE FORMWORK: CONCERTE FORMWORK: CONCERTE FORMWORK: CONCERTE ADDRESS SHALL NOT BE LARGER IN OUTSIDE DIMENSION STRUCTURAL HENGINE'S THE INCOMESS OF THE SLAB ARE SHALL NOT BETWEEDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION CONCERTE REINFORCEMENT INCOMESSION AND PLACEMENTS PROB TO POURING. CONCERTE REINFORCEMENT INCOMESSION AND PLACEMENTS PROB TO POURING. CONCERTE REINFORCEMENT INTO BE ASTM ARIS GRADE BO U IN O. WELDED SALLECTION CONSTRUCTION. AND PLACEMENTS PROB TO POURING. CONCERTE REINFORCEMENT TO BE ASTM ARIS GRADE BO U. N. O. WELDED SALLENCING FABRICATION. AND PLACEMENT OF REINFORCEMENT S CONCERNT TO ACIDAS. ALL CONTINUOUS REINFORCEMENTS FAUL BE CONTINUOUS ANNEALED FOR WIRE: REINFORCEMENT SHALL BE CONTINUOUS ANNEALED FORW WIRE INTERPORCEMENT SHALL BE CONTINUOUS ANNEALED FORW WIRE INTERPORCEMENTS HALL BE CONTINUOUS ANNEALED FORW WIRE INTERPORCEMENT SHALL BE CONTINUOUS ANNEALED FORW WIRE INTERPORCEMENTS HALL BE CONTINUOUS ANNEALED FORW WIRE INTERPORCEMENTS CONTENT FOR CONTINUES AND BLABS SHALL BE SUPPORTED ON WILL-CURE CONCERTE BLOCKS OR ARE SHALL BE SUPPORTED ON WILL-CURE CONCERTER ON TRANS. AND SLABS SHALL BE SUPPORTED ON WILL-CURE CONCERTE CONST SHALD BAD INTERPECTIVE CONTINUOUS ANNEAL BLOCKS ON REASE SHALL BE CONTINUOUS ANNEAL BLOCKS ON REASE SHALL BE CONTINUOUS AND BLOCK. OR TOPPING SLABS ON PRECAST LAP JOINTS IN MEMBERSIES TOR WILL CONTINUE AND READ TO THAN AND AND AND READ THE AND	WHERE I	VEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTIN TE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM OF 1
ALL EAPOSED EDGE OF UNIVALE IN MERCEN STALL BE UNIVALED THAN THE CONCRETE FORWORK: CMA 1. SLEEVES, OPENNOS, CONDUIT, AND OTHER EMBEDDED THESING STRUCTURE STALL AND THE UNIVALE AND OTHER EMBEDDED THESING STRUCTURE STALL AND THE UNIVALE STALL NOT THE ELABLE AND STALL DO STRUCTURE THAN THREE DURATERS ON CENTER. SPACED CLOSEST THE SPACE DURATERS ON CENTER. SPACED CLOSEST THE SPACE DURATERS ON CENTER. SPACED CLOSEST THE SPACE DURATERS ON CENTER. SPACED CLOSEST DURATERS ON CLASS SPACE DURATERS ON WELL CLOSE CONCRETE BLOCKS ON A SPACE DURATERS ON CLASS SPACE CONCRETE BLOCKS ON A SPACE DURATERS ON WELL CLOSE CONCRETE BLOCKS ON A SPACE DURATERS ON WELL CLOSE CONCRETE BLOCKS ON A SPACE DURATERS ON WELL CLOSE CONCRETE BLOCKS ON A SPACE DURATERS THAN THE CONCRETE DURATERS THROUGH ALL CONSTRUCTION OF SIG DURATERS ON THROUGH UNATIONS THAN UNALLS CONCRETE CAST AGAINST AND DURATES SPACE DE FRONDERS THAN THAN DEAD THROUGH UNATIONS TO STARS ON DECK. OR TOPPING SLABS ON PRECAST LAP JOINTS THAN WE STARS ON DECK. OR TOPPING SLABS ON PRECAST LAP JOINTS THAN WE STARS ON DECK. OR TOPPING SLABS ON PRECAST LAP JOINTS THAN THROUGH THE STAR ADD SAARS THAN DE THOROUGH UNATIONS TO THAN UNALLS CONCRETE CAST AGAINST AND PERMADE REPORTED TO SLABS. CONCRETE CONST DECKTON DURATERS THAN THAN DURATERS ON DON'S THAN SLABS ON DECK. OR TOPPING SLABS ON PRECAST LAP JOINTS THAN SLABS ON DECK ON THAN THAN THAP STAR THAN THAN THAN THAN THAN THAN THAN THAN		DE.
 CMAT S. SLEEVES. OPENNES, CONDUT, AND OTHER EMBEDDE TIELS NO SHOWN OT THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY STRUCTURAL EMBAGER PRIOR TO POURNG CONCRETE CONDUT THAN ON OTHER STRUCTURAL DRAWINGS SHALL BE APPROVED BY STRUCTURAL EMBAGER PRIOR TO POURNG CONCRETE CONDUT THAN ON THE CONTENT THE CONSTRUCTURAL MECHANICAL USE OF THE CONTENT OF THE CONTENT OF THE SUB AND SHALL BOY SHACED CLOSER THAN THREE DURAMETERS ON CENTRE. CONTORIC LIB. CONCURSE WITH ARCHITECTURAL MECHANICAL USE OF THE CONTENT OF THE CONTENT OF REINFORCEMENTS CONTORING TACAJSTS. CONTORING TACAJSTS. CONTRETE BLOCKS ON APPROVED METAL CHARG. CONTRETE BLOCKS ON APPROVED METAL CHARG. CONTRETE BLOCKS ON APPROVED METAL CHARG. CONTRETE BLOCKS ON APPROVED METAL CHARGES AND APPROVED METAL CHARG. CONTRETE BLOCKS ON APPROVED METAL CHARGES AND APPROVE MUCH CONTROL TO A STALL BE APPROVED METAL CHARGES AND APPROVE MUCH CONTROL TO ACADSTS. CONTRETE CAST ACAMST AND INTEGENTIS TO A STALL BE APPROVED METAL CHARGES AND APPROVE MUCH CONTROL TO ACADSTS. CONTRETE CAST ACAMST AND INTEGENTIS ACADSTS. CONTRETE CAST ACAMST AND ATTACHARGES AND APPROVE MUC		TE FORMWORK
 SPACED CLOSER THAN THREE DUMITTERS ON CONTRACT, ALL PLOCK UNDING RECTURAL. MECHANICAL, ELECTRICAL, AND PLUMBING RECURENTER FUNCE TO POURING. CONCRETTE RENFORCEMENT: CONCRETTE RENFORCEMENT: CONCRETTE RENFORCEMENT: CONCRETTE RENFORCEMENT: CONCRETTE STUDIES DE ASTM AND STALL BE SCUTTING UNDING TO ASTM ADD PLACEMENT SHALL BE SCUTTING UNDING TO ASTM ADD PLACEMENT SHALL BE SCUTTING UNDING TO ASTM ADD PLACEMENT: TREORDIGH ALL CONST MURE REINFORCEMENT SHALL BE CONTINUOUS STALLED USING CLASS I ADD STALLED STUDIES UNDING TO ASTM ADD PLACEMENT SHALL BE SCUTTING CONTINUED UNDING TO ASTM ADD PLACEMENT, UNDING TO ASTM ADD PLACEMENT, UNDING TO ASTM ADD PLACEMENT, UNDING TO ASTM ADD STALLED STUDIES UNDING TO ASTM ADD PLACEMENT, UNDIT CONTINUED UNDIT CONTINUES, REFERENCE ON MULLIS OR HITERSECTING FOUNDATIONS, REFERENCE TYPICAL DETAIL STORT, UNDIT CONTINUES TO MARCH VERTICAL WALL SCUTION OF DIATION AND ADD STALLED SHALL BE FORMED AT A ADD STALLED SHALL BE FORMED AT A DOWNLING STO MARCH VERTICAL WALL SCUTION OF SLAB. CONCRAGE FOR REINFORCEMENT. CONSTALL, WAYL LS RANG NOR STO MARCH VERTICAL WALL MODIFIED TO MARCH VERTICAL WALL SCUTION DOWNLING STO MARCH VERTICAL WALL MODIFIED TO MARCH VERTICAL WALL SCUTION DATION OF SLAB. CONCRAGE FOR REINFORCEMENT. CONCRETE CAST AGAINST AND SHALL BE TO LONG. CONTRACT WITH GRANT DO STORE ADD SHALL BE TO THE STALL SCUTION JOINTS, LOCA WITH A THIO TEXPS STRAND. CONCRETE CAST AGAINST AND SHALL BE STALL SCUTION JOINTS, LOCA WITH A THIO TEXPS STRAND. CONCRETE CAST AGAINST AND SHALL BE ADD DETTION MODIFIELD SHALL BE NOT LLS ADD WITH SHALL BE NOT LLS ADD SHALL BE ADD	CN4.1	SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THI STRUCTURAL ENGINEER PRIOR TO POURING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE
CONCETTE REINFORCEMENT: CONFORM TO ACLAISE. CONFORM TO ACLAISE. THEOLOGIC MENT TO BE INFORMED TO ENFORM TO TO ACLAISE AND ANNEALED IRON WIRE. TISK INTENTIONE CONFORMING TO AST MADZ. THEOLOGICAL CONSTRUCTION JOINTS, UNO. CONS. ALL CONTINUOUS REINFORCEMENT FIALL BE SCHOLED USING CLASS I ANNEALED IRON WIRE REINFORCEMENT FIALL BE SCHOLED USING CLASS I CONTINUOUS REINFORCEMENT AND AND PRACTICE. MIRP.1. CONFORTER BLOCKS ON APPROVED BLAISE SCHOLE BE SCHOLED USING CLASS I CONTINUED OR EXTINUE AND AND PRACTICE. MIRP.1. CONFORTER BLOCKS ON APPROVED BLAISE AND DEARS IN MIRE CONFORTER SCHOLED AND AND PRACTICE. MIRP.1. CONFORTER SCHOLED AND AND PRACTICE. MIRP.1. CONFORTER SCHOLED AND AND PRACTICE. MIRP.1. CONFORTER CONFORTER AND AND APPROVED BLAISE AND DEARS IN MIRP. CONFORTER SCHOLED AND AND AND APPROVED BLAISE AND DEARS IN MIRP. CONFORTER SCHOLED AND AND AND AND AND AND AND AND AND AN	CN4.2	SPACED CLOSER THAN THREE DIAMETERS ON CENTER. VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS PRIOR TO POURING.
CONFORM TO ACLAIS. CONFORM TO ACLAIS. CONFORMENCE CEMENT TO BE MITH WHE CONFORMING TO ACTIVACY. HEINFORCING STELL SHALL BE SECURELY TED IN PLACE USING THAN ANNEADED RON WIRE, REINFORCEMENT SHALL BE CONFORMING TO ASTIVACY. HEINFORCING STELL SHALL BE SECURELY TED IN PLACE USING CLASS I THROUGH ALL CONSTRUCTION JOINTS, UND. CONSTALL DE RONDORNE SHALL BE SPLCED USING CLASS I CONFORMED AND SLASS SHALL BE SPLCED USING CLASS I CONFORMED ON SLASS SHALL BE SPLCED USING CLASS I CONFORMED ON SLASS SHALL BE SPLCED USING CLASS I CONFORMED ON ALLS AND INTERSECTING FOUNDATIONS. REFER WILL SECTIONS. SLAB SHALL BE NEROUCH FLASTERS. COLUM INTERSECTING WALLS AND INTERSECTING FOUNDATIONS. REFER WILL SECTIONS SLAB SHALL BE RONCUCH TO ANACH VERTLACL WALL CONFORMED OWELS SHALL BE RONVIDED TO MATCH SLAB REINFORCING. PRO- HOCKED DOWELS SHALL BE RONVIDED TO MATCH SLAB REINFORCING. PRO- HOCKED DOWELS SHALL BE RONVIDED TO MATCH SLABS ON GRADE. TI SLABS ON DECK, OT FORM SLABS ON RECAST. LPM CONFORCING. UND. CNS.7 UN.O., INSTALL WWF 1127 FROM TOP OF ALL SLABS ON GRADE. TI SLABS ON DECK, OT FOR SLAB. COVERAGE FOR REINFORCEMENT: CNA CONCRETE CAST AGAINST AND PERMARY REPORTING SLABS ON RECAST. LPM RESHES BUT NOT LEXPOSED TO DEATH. MAN WEATHER THE RAN AND SHALE. MESSES SUT NOT LEXPOSED TO WEATHER OR IN CONTACT WHT GROUND: SLABS, WH AND FIB. HIT BARA NOT RESH. THE NAR AND SHALLER. MESSES SUT NOT EXPOSED TO WEATHER OR IN CONTACT WHT GROUND: SLABS, WH AND FIB. HIT BARA NOT RESH. THE RAN AND SHALE. MESSES SUT RONGENEENT; TES, STRRUPS, STRRUPS, STRRUPS, STRADARD 20 ONTORE TECTORY SHALL BE VERIFIED BY STANDARD 20 AND MALLER. MESSES SUT RONGENEENT; TES SHARE MAN SHALL BE VERIFIED BY STANDARD 20 AND MALLER. MESSES SUT RONGENEENT; TES SHARE MAN SHALL BE VERIFIED BY STANDARD 20 AND MALLER. MESSES SUT RESECURCEMENT; TES SHARE MAN SHALL BE VERIFIED BY STANDARD 20 AND MALLER. 21 AND SHALL BE NOTHED IN THE SHALL BE VERIFIED BY STANDARD 20 AND MALL SHARE STRLES AND SHALL BE STALED 21 AND MALLER. 21 AND MALL	CONCRE CN5.1	TE REINFORCEMENT: DETAILING, FABRICATION, AND PLACEMENT OF REINFORCEMENT SHAL
 CAS.3 ALL CÓNTINUOUS REINFÓRCING SHALL BE SUPPORTED ON WELL-CURE TENSION SPLICES. UN O. CAS.5 DENSION SPLICES. UN O. CAS.5 CONTINUE HORZONTA. WALL BARS THROUGH PLASTERS. COLUM NUTERESCITINUE AND STRANGT AND DERSECTION FOUNDATIONS, REFER: TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SMU WALLSECTINS SULLS AND INTERSECTIONS FOUNDATIONS, REFER: TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SMU WALLSECTINS SULLS BE PROVIDED TO MATCH SLAB REINFORCING, PAR DOVELS SHALL BE PROVIDED TO MATCH SLAB REINFORCENCE AND CORNER OF FOUNDATION OR SLAB OPINING, LINA. CHARLES AND ENDOCEMPTIC FOUNDATION OR SLAB OPINING, LINA. CHARLES AND CORNER OF FOUNDATION OR SLAB OPINING, LINA. CHARLES AND CORNER OF FOUNDATION OR SLAB OPINING, LINA. CHARLES AND THE SLABS ON THE LESS THAN : AT CONSTRUCTION JOINTS, LIDA WWE AT MID DEPTH OF SLAB. COVERAGE FOR REINFORCEMENT: CARLE CONCRETE CAST AGAINST AND PERMARENTLY EXPOSED TO EARTH. TO SLABS, MALLS, JOIETS MEDICINE CONSTRUCTION SCIENCES AND SLABS ON READST. LIDA WITH GROUND: SLABS, WALLS, JOIETS MEDICINE CONCRETE AND SMALLER. 11/2" MEDICINE CONCRETE AND SMALLER. 11/2" CONCRETE CAST AGAINST AND PERMARENTLY EXPOSED TO VEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOIETS MEDICINES, SUBJECTINE, SHALLS MEDICINES, SLABS, ON GRADE MEDICINES, SUBJECTINE SHALL SCIENCES AND SMALLER MEDICINES. SUBJECTINE SHALL SCIENCES AND SMALLER MEDICINES. SCIENCES AND SMALLER AND SMALLER AND AND AND SLABS, ON GRADE MEDICINES. SCIENCES AND SMALLER EXCENTED STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE VERIFED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE VERIFED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE VERIFED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE VERIFED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE VERIFED BY STANDARD 28-DAY CYLINDER STANDARD	CN5.2	CONFORM TO ACI-315. ALL REINFORCEMENT TO BE ASTM A615 GRADE 60 U.N.O. WELDED WIR FABRIC TO BE ASTM A185 WITH WIRE CONFORMING TO ASTM A82. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE USING #16 ANNEALED IRON WIRE. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS. U.N.O.
 CNS.4. BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURE CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED CRSIMAAULA OF STANDARD PRACTICE, MSP-1. CNS.5. CONTINUETING CONTROL AND DERSENTING FOUNDATIONS. REFER TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SM WALL SECTIONS. SLAB BARS SHALL BE HOCKED INTO WALLS OF HOCKED DOWELS FRAIL BE PROVIDED TO MATCH SLAB REINFORCING, PRO HOCKED DOWELS FOR MOTOOT OS TO MATCH CHARGE AND BARS IN SM WALL SECTIONS. SLAB BARS SHALL BE HOCKED INTO WALLS OF HOCKED DOWELS FOR POOTONS TO MATCH SLAB REINFORCING, PRO HOCKED FOR DOWING TO OR SLAB. SO PREING, UN O. CNS.7 UNO, INSTALL WWF 112? FROM TOP OF ALL SLABS ON GRADE, TI SLABS ON DECK, OT OPPING SLAB. COVERAGE FOR REINFORCEMENT: CR6.1 CONCRETE CAST AGAINST AND FERMANENTLY EXPOSED TO EARTH AND WEATHER. 2" COVERAGE FOR REINFORCEMENT: MIT HOURT BE SMALLER 2" COVERE CAST AGONDING SLABS, WALLS, JOISTS: ## AND SMALLER 3" THRU #18 BARS. CONCRETE CAST AGONDING SLABS, WALLS, JOISTS: ## AND FILL BE SMALLER 3" FILL STATE STANDARD SHALLER VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER TESTS PER ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER THE TOT DE ASTM C39 AND SHALL BE STANDARD 2" DAY OF UNDER THE TOT DE ASTM C39 AND SHALL BE STANDARD 2" DAY OF UNDER THE TOT DE ASTM C39 AND SHALL BE TAST FOLLOWS: NOT ALL DONG THE TOT DE ASTM C39 AND SHALL BE VERTIFIED BY STANDARD 2" DAY OF UNDER THE TOT DE ASTM C39 AND SHALL BE TAST TOT DE ADDONES 2" DAY OF UNDER THE TOT DE ASTM C39 AND SHALL DE TAST TOT DE A	CN5.3	ALL CONTINUOUS REINFORCING SHALL BE SPLICED USING CLASS B TENSION SPLICES, U.N.O.
CNS.5 CONTINUE = DOPOCINTAL WALL BARS THEOLOGY = LASTERS. COLUM NITERSECTING WALLS AND NITERSECTING FOUNDATIONS. REFER TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SM. WALL SECTIONS. SLAB BARS SHALL BE HOXED DITO WALLS OR HOXELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING, PRO HOXELS SHALL WE THAT THE STATAM S'. AT CONSTRUCTION JOINTS, LOCA WIF AT MID DEPTH OF SLAB. COVERAGE FOR REINFORCEMENT: SLABS. ON DECK, OR TOPPING SLABS ON PREAST. LAP JOINTS TH MESHES BUT NOT LESS THAN S'. AT CONSTRUCTION JOINTS, LOCA WIFT AT MID DEPTH OF SLAB. COVERAGE FOR REINFORCEMENT: SLABS, WALLS, JOISTS: # 11 HAU #18 BARS. ME THRU #18 BARS. ME DIRUM STATUS SLABS, WALLS, JOISTS: # 11 AND THE STATE AND SHALL ER SCHEINED BY STANDARD BEAMS, COLUMNS: SLABS, WALLS, JOISTS: # 11 AND THE SIT SHALL BE VERIFIED BY STANDARD BEAMS, COLUMNS: SLABS, WALLS, JOISTS: # 11 AND THE SIT SHALL BE VERIFIED BY STANDARD BEAMS, COLUMNS: SLABS, MALLS, JOISTS: # 11 AND THE STATE STATUS SHALL BE VERIFIED BY STANDARD BEAMS COLUMPRESSIVE STRENGTHS SHALL BE VERIFIED BY STANDARD BEAMS ON GRADE: ME TALLOWED STRICT, TO FLACEMENT OF CONCRETE: FORMER ELEMANS, SLABS, TO FLAGGE SHALL BE NOTHED FOR MEWLES. MENTAL DURING TO PLACEMENT OF CONCRETE: FORMER ELEMANS, STRENGTHS SHALL BE VERIFIED BY STANDARD BEAMS ON GRADE: ME TALLS AND SCHELEY SUPPORT REINFORCEMENT, THE SOLS ENGINEER PROR TO FLACEMENT OF CONCRETE: FORMER ELEMANS, STRENGTHS SHALL BE VERIFIED BY STANDARD BEAMS ON GRADE SHALL BE NOTHED FLAMY WATER IS TO BE ADDED IN F MANUFACTURERS REGULAR SHALL BO NOTHED TO A	CN5.4	BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED BY T
 HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING. CMS. ADD TWO DUGGONAL #5 BARS, FOUR FEET LONG, CENTERED, AT EF ADD TWO DUGGONAL #5 BARS, FOUR FEET LONG, CENTERED, AT EF SLABS ON DECK, OR TOPPING SLABS ON PRECAST. LAP JOINTS IN MESHES BUT NOT LESS THAN 8'. AT CONSTRUCTION JOINTS, LOGA WWF AT MID DEPTH OF SLAB. COVERAGE FOR REINFORCEMENT: CMS.1 CONCRETE CAST AGAINST AND MESHES BUT NOT LESS THAN 8'. AT CONSTRUCTION JOINTS, LOGA WWF AT MID DEPTH OF SLAB. CONCRETE CAST AGAINST AND MESHES UNIT NOT LESS THAN 8'. AT CONSTRUCTION JOINTS, LOGA WWF AT MID DEPTH OF SLAB. CONCRETE CAST AGAINST AND MESHES AGAINST AND MIT HORONE. CONCRETE CAST AGAINST AND MIT HORONE. SLABS, WHI AND WE BARS. MIT BAR AND 918 HIT BAR AND SMALLER J112" HIT BAR AND SMALLER J14" BEANS, COLUMNS: PRIMARY REINFORCEMENT, TESS, STIRRUPS, SPIRALS TERS, STIRRUPS, SPIRALS TERS, STIRRUPS, SPIRALS CONCRETE COUNTS: SLABS, ON GRADE CONCRETE FOR SHALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN F CONCRETE FOUNDATIONS: CMS 1 CALL CUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROV THE SOLS ENGINEER PRIOR TO PLACEMENT OF CONCRETE WEIT SPIN GLABS. CONCRETE FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROV THE SOLS ENGINEER PRIOR TO PLACEMENT OF CONCRETE WEIT SPIN GLABS. CONCRETE FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROV THE SOLS ENGINEER PRIOR TO PLACEMENT OF CONCRETE. CONCRETE FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROV THE SOLS ENGINEER PRIOR TO PLACEMENT OF CONCRETE. CONCRETE FOUNDATION COLD JOINTS, INSERTS, SLEEVES, DOWELS, ANACHORS, ETC. AS SHOWN TEMS SHALLE UNTROPORT BEHRFORCING, DOWELS, ANACHORS, STALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN F OR APPROVED EQUINAL AND ACCORD TO ADACCHORT AND AP	CN5.5	CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS, INTERSECTING WALLS AND INTERSECTING FOUNDATIONS. REFER TO TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS OR HOOF DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVID
 CASE ADD TWO DIAGONAL #5 BARS, FOUR FEET LONG, CENTERED, AT EF CORREPG FF FOUNDATION OR SLAB OPENING, UNA OR CADE, TO SLABS ON DECK, OR TOPPING SLABS ON RECAST. LAP JOINTS TWO MEDISON DECK, OR TOPPING SLABS ON RECAST. LAP JOINTS TWO WWF AT MID DEPTH OF SLAB. COVERAGE FOR REINFORCEMENT: CARE CANCERE CAST AGAINST AND PERMANERTLY EXPOSED TO EARTH AND WEATHER: 3" CARE CANCERE CAST AGAINST AND PERMANERTLY EXPOSED TO EARTH AND WEATHER: 3" CARE CANCERE EXPOSED TO EARTH AND WEATHER: 3" CARE CANCERE EXPOSED TO EARTH AND WEATHER: 3" CARE CONCRETE CAST AGAINST AND PERMANERTLY EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: #11 BAR AND SMALLER SLABS, WALLS, JOISTS: #11 BAR AND SMALLER SLABS, WALLS, JOISTS: #11 AND 3" THE INTERMENT AND WEATHER: 3." CONCRETE CONCREMENT; THES, STIRRUPS, SPIRALS THE, STIRRUPS, SPIRALS CONCRETE COMPRESSIVE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLLDROTTESTS PER STIM C39 AND SHALL BE AS POLICOWS: CONTRES CONCRETE FOUNDATIONS CONCRETE FOUNDATIONS CONCRETE COMPRESSIVE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLLDROTTESTS PER STIM C39 AND SHALL BE AS POLICOWS: CONCRETE FOUNDATIONS: CARE BEAMSPILECAPS CONCRETE FOUNDATIONS WAS BE REVEWED AND APPROV TO FINGS SLABS. CONCRETE FOUNDATION EXCAVATIONS MUST BE REVEWED AND APPROV THE OUNDATION SCAVATIONS MUST BE REVEWED AND ANCHOR RO AND ANCHOR BOLTS PROR TO PLACEMENT OF CONCRETE. WEIT- STICKING OR FLOATING OF REINFORCING, DOWELS AND ANCHOR RO MONTALLOWED. CH93 PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, AND ANCHOR BOLTS PROR TO PLACEMENT OF CONCRETE. WEIT- STICKING OR FLOATING OF THE ROPOR CONCREDE WEIT- STICKING OR FLOATING OF THE ROPOR CONCREDE TO STIM F153 AF S STANDARDS OF THE TRADE, ANCHOR RODS PER ASTIM F153 AF S STANDARDS OF THE TRADE, AND ACCORDING TO USUAL ACC AND ANCHOR BOLTS PROVED DE AND ACCORD TO USUAL ACC AND ANCHOR BOLTS PROR TO PLACEMENT OF C		HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING.
 CNG. 7 UND, INSTALL WWF 11/27 FROM TOP OF ALL SLABS ON GRADE, TT SLABS ON DECK. OR TOPPING SLAB. COVERAGE FOR REINFORCEMENT: COVERAGE FOR REINFORCEMENT: CR6.1 CONCRETE CAST AGAINST AND CONCRETE CAST AGAINST AND CR6.2 CONCRETE CAST AGAINST AND CART AND DEPTH OF SLAB. CR6.2 CONCRETE CAST AGAINST AND CR6.3 CONCRETE CAST AGAINST AND CONCRETE CAST AGAINST AND CART AGAINST AND STALLER STABL, WILLS, JOISTS. WITH GROUND: SLABS, WALLS, JOISTS. WITH GROUND: SLABS, WALLS, JOISTS. WITH GROUND: SLABS, WALLS, JOISTS. WITH GROUND: THES, STRENGTHS SHALL EE VERFIED BY STANDARD BEAM, COLUMNS. COCORTET COMPRESSIVE STRENGTHS SHALL EE VERFIED BY STANDARD SEADAY CYLINDER TESTS PER ASTIN C39 AND PALL BE AS DICLOWS: FOR 4.000 PSI WALLSPIERS/COLUMNS. CF 6 4.000 PSI CONCRETE FOUNDATION EXCAVATIONS MUST BE REVEWED AND APPROV TOPPING SLABS COLUMNS. CF 6 4.000 PSI 	CN5.6	ADD TWO DIAGONAL #5 BARS, FOUR FEET LONG, CENTERED, AT EACH CORNER OF FOUNDATION OR SLAB OPENING, U.N.O.
COVERAGE FOR REINFORCEMENT: CN6.1 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH #6 DR7. WIGH GRAPS	CN5.7	U.N.O., INSTALL WWF 1 1/2" FROM TOP OF ALL SLABS ON GRADE, TOPP SLABS ON DECK, OR TOPPING SLABS ON PRECAST. LAP JOINTS TWO F MESHES BUT NOT LESS THAN 8". AT CONSTRUCTION JOINTS, LOCATE WWF AT MID DEPTH OF SLAB.
PERMANENTLY EXPOSED TO EARTH	COVERA CN6.1	GE FOR REINFORCEMENT: CONCRETE CAST AGAINST AND
#6 BAR, W31 OR D31 WIRE AND SMALLER AND SMALLER In 1/2" SLABS, WALLS, JOISTS: #14 AND B #18 #15 AND B #18 #14 AND SMALLER JA4" BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS TIES, STIRLES, STIRRUPS, SPIRALS TIES, STIRLES, STANDARD, STALLES,	CN6.2	PERMANENTLY EXPOSED TO EARTH
 WITH GROUND: SLABS, WALLS, JOISTS: #14 BAR AND SMALLER J.1/2" #14 BAR AND SMALLER J.4" BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS 1 1/2" CONCRETE COMPRESSIVE STRENGTHS SHALL BE VERIFIED BY STANDARD ZADAY CYLINDER TESTS PER ASTM C39 AND SHALL BE AS FOLLOWS: FOOTINGS. TOPPING SLABS TC = 4,000 PSI SLABS ON GRADE TC = 4,000 PSI SLABS ON GRADE TC = 4,000 PSI SLABS ON GRADE TC = 4,000 PSI SPECAL INSPECTOR SHALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN F CONCRETE FOUNDATIONS: CONCRETE FOUNDATIONS: CONCRETE FOUNDATIONS: CALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROV THE SOLIS ENGINEER PRIOR TO FLACEMENT OF CONCRETE. WALLS PRIOR TO PRINT CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, AND ANCHOR BOLS ENGINEER PRIOR TO LACCEMENT OF CONCRETE. WANDARDOR FLOATING OF REINFORCING, DOWELS AND ANCHOR RONG REIS AND ANCHOR ROS SHOWN. TMENTORICKING, SHOWN ON DETAILS INSTRUCTIONS AND ACCORDING TO USUAL ACC STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS SI CALCHATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MAST CONTRECTIONS SHOLL JOINTS AT EXPANSION JOINTS IN MAST CONTRECTIONS OFTION AND EXPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIBLE. CONTRUCTION SOUND ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRECTION SOUND ON DETAILS IS THE REQUIRED MINIMUM. AND CONTRECTION SOUND ON DETAILS IS THE RECOUNTED MINIMUM. VENEER WHEN POSSIBLE. CALCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MAST CONTRECTION SOUND ON DETAILS IS THE READ DATIONS IN MAST VEREER WHEN POSSIBLE. CONTRECTION SOUND ON DETAILS IS THE READ	CN6.3	#5 BAR, W31 OR D31 WIRE AND SMALLER 1 1/2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT
#11 BAR AND SMALLER		WITH GROUND: SLABS, WALLS, JOISTS: #14 AND # 18
TTES, STIRRUPS, SPIRALS		#11 BAR AND SMALLER
CONCRETE COMPRESSIVE STRENGTHS SHALL BE VERIPIED BY STANDARD 20-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE AS FOLLOWS: FOOTINGS		TIES, STIRRUPS, SPIRALS 1 1/2"
 FOOTINGS	CONCRE 28-DAY C	TE COMPRESSIVE STRENGTHS SHALL BE VERIFIED BY STANDARD
 WALLSPIERS(COLUMNS	FOOTING GRADE E	iS f'c = 3,000 PSI BEAMS/PILECAPS f'c = 4,000 PSI
 TOPPING SLABS	WALLS/P SLABS O	IERS/COLUMNS f'c = 4,000 PSI N GRADE f'c = 4,000 PSI
 SPECIAL INSPECTOR SHALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN F CONCRETE FOUNDATION: CONCRETE FOUNDATION: CONCRETE FOUNDATION: CONCRETE FOUNDATION: CONCRETE SUBJECT PRIOR TO PLACEMENT OF CONCRETE. COLURATELY SET AND SECURELY SUPPORT REINFORCING, DOWELS AND ANCHOR BOLTS PRIOR TO PLACEMENT OF CONCRETE. WET- STICKING OR FLOATING OF REINFORCING, DOWELS AND ANCHOR ROLLOWED. CN9.3 PROVIDE CONSTRUCTION JOINTS, INSERTS. SLEEVES, DOWELS, ANCHORS, ETC., AS SHOWN. ITEMS SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTION AND ACCODING TO USUAL ACC STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS SI CN9.4 ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS REINFORCING SHALL EXTEND ONE DEVELOPMENT LENGTH FLUS 6 LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASK VENCER WHEN POSSIBLE. CN5.7 REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND E SZPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWIL PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COL BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE GROUTED BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS. SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: •SLAB CN12.2 WOLUES LAB CONTROL JOINT SON GRID LINE WHERE PRACTICAL CN12.3 MAINTAIN A SLAB CONTROL JOINT SON GRID LINE WHERE PRACTICAL CN12.4 NULLS TALLER THAN 12'	TOPPING	i SLABS f'c = 4,000 PSI
 CONCRETE FOUNDATIONS CONST. LF OUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROV THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE. COLVARTELY SET AND SECURELY SUPPORT REINFORCING, DOWELS AND ANCHOR BOLTS PRIOR TO PLACEMENT OF CONCRETE. WET- STICKING OR FLOATING OF REINFORCING, DOWELS AND ANCHOR R NOT ALLOWED. CN9.3 PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, ANCHORS, ETC., AS SHOWN, ITEMS SHALL BE INSTALLED PER MANUFACTURERS' INSTRUCTIONS AND ACCORDING TO USUAL ACC STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS SI CN9.4 ALL FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASK VENCER WHEN POSSIBLE. CN9.5 REINFORCING SHOW NON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWIN PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COL BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE GROUTED BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS. SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.:	SPECIAL	INSPECTOR SHALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN FIELD
 THE SOILS ENGINEER PHOR TO PLACEMENT OF CONCRETE. CONCRATELY SET AND SECURELY SUPPORT REINFORCING, DOWE AND ANCHOR BOLTS PRIOR TO PLACEMENT OF CONCRETE. WETSTICKING OF RELATING OF REINFORCING, DOWELS AND ANCHOR SET. AS SHOWN. ITEMS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, ANCHORS, ETC., AS SHOWN. ITEMS SHALL BE KEYED. CONTINUOUS STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS SI CN9.4 ALL FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASS VENDER WHEN POSSIBLE. CNS.5 REINFORCING SHALL EXTEND ONE DEVELOPMENT LINGTH PLUS 6 LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASS VENDER WHEN POSSIBLE. CNS.5 REINFORCING SHOWN ON DETALS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE. ADDITIONAL REINFORCING BE FERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING MOST BE SUBMITTED FOR REVIEW ON SHOP DRAWIN CONTRACTOR'S OPTION AND EXPENSE. ADDITIONAL REINFORCING BE FERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING MOST PER UNDER COLDINAL REINFORCING MOST PER VIDE SUBMITTED FOR REVIEW ON SHOP DRAWIN (NO.1: + SLAB CONTRACTOR'S OPTION AND EXPENSE. ADDITIONAL REINFORCING NO STEEL FORMS. SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O: + SLAB CONTROL JOINTS ON GRID LINE WHERE PRACTICAL CN12.3 MAINTAIN A SLAB CONTROL JOINTS AS FOLLOWS, UN.O: + SLAB CONTROL JOINTS AS FOLLOWS, UN.O: + SLAB CONTRET THAN 12' H LA CORNERS AND IN LINE WIT EDGES OF ALL WALL OPENINGS. CN13.1 WALLS SHORTER THAN 12' H LA LCORNERS AND IN LINE WIT EDGES OF ALL WALL JOINT SPACING SHALL NOT EXCEED 25 FEET. CONCRETE ACCESSORIES: CN14.1 U.N.O. HEADED SHAR STUDS TO BE NELSON HEADED ANCHORS 1 AND SHALL SE ATO DAR DAVIDACTURER'S STANDARD EDUIPMENT. CNIA.2 WALLS SHORTER THAN 12' CHALL CORNERS AND IN LINE WIT EDGES OF ALL WALL JOINT SPACING SHALL DE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDAR	CONCRE CN9.1	TE FOUNDATIONS: ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED
 CN9.3 PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, ANCHORS, ETC., AS SHOWN, ITEMS SHALL BE INSTRULED PER MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO USULA ACC STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F15364 AS SI CN9.4 ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS REINFORCING SHALL EXTEND ONE DEVELOPMENT LENGTH PLUS 6 LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASK VENEER WHEN POSSIBLE. CN9.5 REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABLITY ADDITIO REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWIL PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COL BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE GROUTED BEFORE PLACELMONT OF CONCRETE TOPPING ON STEEL FORMS. SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: • SLAB. CN12.2 PROVIDE SLAB CONTROL JOINTS NO RID LINE WHERE PRACTICAL CN12.3 MAINTAIN A SLAB CONTROL JOINTS SO RID LINE WHERE PRACTICAL CN13.1 WALLS STALLER THAN 12. H (H = WALL HEIGHT) CN13.1 WALLS STALLER THAN 12. H (H = WALL HEIGHT) CN13.4 PROVIDE WALL JOINT SA FOLLOWS, U.N.O.: CN13.5 MAXIMUM WALL JOINT SPACING SHALL NOT EXCEED 25 FEET. CONCRETE ACCESSORIES: CN13.5 MAXIMUM WALL JOINT SPACING SHALL NOT EXCEED 25 FEET. CONCRETE ACCESSORIES: CN14.1 U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS 1 FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CN14.2 U.N.O., EPORY ANCHORS TO BE HILTI KWIK BOLT TZ OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPA ANCHORS SHALL BE INSTALLED IN STRICT A	CN9.2	THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE. ACCURATELY SET AND SECURELY SUPPORT REINFORCING, DOWELS AND ANCHOR BOLTS PRIOR TO PLACEMENT OF CONCRETE. WET- STICKING OR FLOATING OF REINFORCING, DOWELS AND ANCHOR RODS NOT ALLOWED.
 STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS 31 CN9.4 ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS REINFORCING SHALL EXTEND ONE DEVELOPMENT LENGTH PLUS 6 LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASG VENEER WHEN POSSIBLE. CN9.5 REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTORS OPTION AND EXPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWII PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COL BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE GROUTED BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS. SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: • SLAB • SLAB CONTOL JOINTS AS TOLLOWS, U.N.O.: • SLAB CONTROL JOINTS AS FOLLOWS, U.N.O.: • SLAB CONTROL JOINTS AS FOLLOWS, U.N.O.: CN13.1 WALLS TALLER THAN 12'	CN9.3	PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, ANCHORS, ETC., AS SHOWN. ITEMS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO USUAL ACCEP
 CN9.5 REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE, ADDITIONAL REINFORCING BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIO REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWIN PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COL BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE GROUTED BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS. SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: • SLAB CN12.2 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: • SLAB CN12.4 PROVIDE SLAB CONTROL JOINTS ON GRID LINE WHERE PRACTICAL CN12.3 MAINTAIN A SLAB CONTROL JOINT ASPECT RATIO OF APPROXIMATE PROVIDE VERTICAL WALL JOINTS AS FOLLOWS, U.N.O.: CN13.1 WALLS SHALLER THAN 12'	CN9.4	STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS SHOW ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS REINFORCING SHALL EXTEND ONE DEVELOPMENT LENGTH PLUS 6". LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASONR VENEER WHEN POSSIBLE.
 PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COL BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE GROUTED BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS. SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: •SLAB	CN9.5	REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE, ADDITIONAL REINFORCING MA BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIONAL REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWINGS
 SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: SLAB 10' ± 2' CN12.2 PROVIDE SLAB CONTROL JOINTS ON GRID LINE WHERE PRACTICAL CN12.3 MAINTAIN A SLAB CONTROL JOINT ASPECT RATIO OF APPROXIMATE PROVIDE VERTICAL WALL JOINTS AS FOLLOWS, U.N.O.: CN13.1 WALLS TALLER THAN 12'	PROVIDE BASE PL GROUTE	MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COLUM ATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE D BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS.
 SLAB	SLAB CO CN12.1	NTROL JOINTS: PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.:
 PROVIDE VERTICAL WALL JOINTS AS FOLLOWS, U.N.O.: CN13.1 WALLS TALLER THAN 12'	CN12.2 CN12.3	• SLAB
 CN13.2 WALLS SHORTER THAN 8	PROVIDE CN13.1	WALLS NULL JOINTS AS FOLLOWS, U.N.O.: WALLS TALLER THAN 12' H (H = WALL HEIGHT) WALLS 8'.
 EDGES OF ALL WALL OPENINGS. CN13.5 MAXIMUM WALL JOINT SPACING SHALL NOT EXCEED 25 FEET. CONCRETE ACCESSORIES: CN14.1 U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS I FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER' STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER' RECOMMENDATIONS. CN14.2 U.N.O., DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CN14.3 U.N.O., EXPANSION BOLTS TO BE HILTI KWIK BOLT TZ OR APPROVE EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPA ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT.RE 500 V3 OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOX ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT.RE 500 V3 OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOX ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE 5,000 PSI; MINIMUM TENSILE STRENGT SHALL BE 4,000 PSI. HOLE SIZES AND INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE APPROVED ICC REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING PLACEMENT. COLD WEATHER	CN13.3 CN13.4	WALLS SHORTER THAN 8'
 CONCRETE ACCESSORIES: CN14.1 U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS IN FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. CN14.2 U.N.O., DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CN14.3 U.N.O., EXPANSION BOLTS TO BE HILTI KWIK BOLT TZ OR APPROVE EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPA ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT-RE 500 V3 OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOX ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI FUNCHORY ON PSI. HOLE SIZES AND INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE APPROVED ICC REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING PLACEMENT. C	CN13.5	EDGES OF ALL WALL OPENINGS. MAXIMUM WALL JOINT SPACING SHALL NOT EXCEED 25 FEET.
 CN14.1 U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS I FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER' STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER' RECOMMENDATIONS. CN14.2 U.N.O., DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CN14.3 U.N.O., EXPANSION BOLTS TO BE HILTI KWIK BOLT TZ OR APPROVE EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPA ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT-RE 500 V3 OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOX ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT-RE 500 V3 OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOX ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A ' COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI COMPLIANCE WITH THE APPROVED ICC REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING PLACEMENT. COLD WEATHER PROTECTION CN16.1 DURING COLD WEATHER CONSTRUCTION, CONTRACTOR IS RESPOD FOR PROTECTING FOUNDATIONS THAT DO NOT EXTEND	CONCRE	TE ACCESSORIES:
 CN14.2 U.N.O., DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S STANDARD EQUIPME ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CN14.3 U.N.O., EXPANSION BOLTS TO BE HILTI KWIK BOLT TZ OR APPROVE EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPA ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT-RE 500 V3 OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOX ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCIN NEW OR EXISTING CONCRETE DURING INSTALLATION. EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT THE EPOXY ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDI MINIMUM SHEAR STRENGTH SHALL BE SUITABLE FOR USE IN DRY OR CONT COMPLIANCE WITH THE APPROVED ICC REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING PLACEMENT. COLD WEATHER CONSTRUCTION, CONTRACTOR IS RESPO FOR PROTECTING CURING CONCRETE PER THE R	CN14.1	U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS WITH FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
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	CN16.2	FOR PROTECTING CURING CONCRETE PER THE RQMTS. OF ACI 306. DURING COLD WEATHER CONSTRUCTION, CONTRACTOR IS RESPONSI FOR PROTECTING FOUNDATIONS THAT DO NOT EXTEND TO FROST DE
FROM HEAVING. AT CONTRACTOR'S OPTION, BOTTOM OF FOOTING BE EXTENDED BEYOND THE FROST ZONE, IN LIEU OF SURFACE PROTECTION METHODS. NO ADD'L REINFORCING WILL BE REQ'D AT EXTENDED FOUNDATION MATICATION WORK OUT AND FOR		FROM HEAVING. AT CONTRACTOR'S OPTION, BOTTOM OF FOOTINGS M/ BE EXTENDED BEYOND THE FROST ZONE, IN LIEU OF SURFACE PROTECTION METHODS. NO ADD'L REINFORCING WILL BE REQ'D AT

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<u>SPECIAL INSPECTION</u> SPECIAL INSPECTION PROGRAM SHALL CONFORM TO CHAPTER 17 OF THE IBC. <u>SP</u> SP1

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM THE REQUIRED TESTS AND SPECIAL INSPECTIONS WITH QUALIFICATIONS DESCRIBED PER IBC SP2 CHAPTER 17 AND THE PROJECT SPECIFICATIONS.

- SP3 SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR.
- SP4 SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE
- STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

VERIFICATION AND INSPECTION	FREQUENCY
CONCRETE	
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, & VERIFY PLACEMENT.	PERIODIC
2. INSPECT REINFORCING BAR WELDING:	
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	PERIODIC
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC
C. INSPECT ALL OTHER WELDS.	CONT.
3. INSPECT ANCHORS CAST IN CONCRETE.	PERIODIC
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:	
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONT.
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	PERIODIC
5. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC
 PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS AND DETERMINE CONCRETE TEMPERATURE. 	CONT.
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONT.
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC
9. INSPECT PRECAST CONCRETE FOR:	
A. APPLICATION OF PRESTRESSING FORCES.	CONT.
B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONT.
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC
11. VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE & PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS.	PERIODIC
12. INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE	PERIODIC

- PROGRAM FOOTNOTES 1. THE ITEMS INDICATED ABOVE SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS SERVICE AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS MATERIAL SAMPLING AND TESTING REQUIREMENTS, REPER TO THE PROJECT SPECIFICATIONS & THE SPECIFIC STRUCTURAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING & INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, & BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER
- DESIGNED COMPONENTS. 2. CONT. - CONTINUOUS SPECIAL INSPECTION. SPECIAL INSPECTOR IS PRESENT CONTINUOUSLY
- WHEN & WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. (IBC SECTION 202).
 3. PERIODIC PERIODIC SPECIAL INSPECTION. SPECIAL INSPECTOR IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. (IBC SECTION 202) SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR (IBC SECTION 1704.2.5).

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Owner

406 NORTH HIGH STREET ANAMOSA, IA 52205

Project

9392.00 ASP - IA DOC -ADMINISTRATION BUILDING ENTRY PORCH REPAIRS

Construction Manager McGough

217 E 2nd Street, Suite 120 Des Moines, IA 50309 P: 515.954.6888

Structural Engineer

Raker Rhodes Engineering 112 E. Washington Street, Suite B lowa City , IA 52240

OPN Project No. 24817000

Sheet Issue Date **REBID SET**

Revision Description

12/03/2024

Sheet Name STRUCTURAL NOTES

Sheet Number

S001





1 2 3 4 5 6 7 8 9

FOUNDATION PLAN 3/16" = 1'-0"

NORTH

PLAN NOTES: 1. CONTRACTOR TO FIELD VERIFY ALL RELEVANT EXISTING INFORMATION, INCLUDING EXISTING DIMENSIONS, CONDITIONS AND FRAMING. 2. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND/OR UNDERPINNING OF EXISTING STRUCTURE NEEDED TO ACCOMMODATE NEW CONSTRUCTION.

3. SEE SHEET S201 FOR FOUNDATION DETAILS. 4. SEE ARCH. DRAWINGS FOR ALL ELEVATIONS NOT SHOWN ON PLAN. ALL T/ FTG ELEVATIONS SHOWN ON PLAN ARE BASED OFF OF AVAILABLE EXISTING INFORMATION (T/ EXISTING BASEMENT FLOOR = [0' - 0"]). CONTRACTOR TO VERIFY AS BUILT ELEVATIONS AND COORDINATE w/ THE DESIGN TEAM IF IT DIFFERS THAN WHAT IS SHOWN ON THE DRAWINGS PRIOR TO

CONSTRUCTION. 5. REFER TO ARCH. DRAWINGS FOR EXISTING LIMESTONE REPAIRS.





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FRAMING PLAN 3/16" = 1'-0"

PLAN NOTES: 1. CONTRACTOR TO FIELD VERIFY ALL RELEVANT EXISTING INFORMATION, INCLUDING EXISTING DIMENSIONS, CONDITIONS AND FRAMING. 2. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND/OR UNDERPINNING OF EXISTING STRUCTURE NEEDED TO ACCOMMODATE NEW CONSTRUCTION. 3. SEE SHEET S201 FOR FRAMING DETAILS. SEE SHEET SECTION THANKING DETAILS.
 SEE ARCH. DRAWINGS FOR ALL ELEVATIONS NOT SHOWN ON PLAN. ALL T/ FTG ELEVATIONS SHOWN ON PLAN ARE BASED OFF OF AVAILABLE EXISTING INFORMATION (T/ EXISTING BASEMENT FLOOR = [0' - 0"]). CONTRACTOR TO VERIFY AS BUILT ELEVATIONS AND COORDINATE w/ THE DESIGN TEAM IF IT DIFFERS THAN WHAT IS SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTION. CONSTRUCTION. 5. REFER TO ARCH. DRAWINGS FOR EXISTING LIMESTONE REPAIRS.

WALL SCHEDULE MARK MATERIAL WALL SIZE REINFORCEMENT NOTES CAST-IN-PLACE VERTICAL REINFORCEMENT: #5 @ 12" O.C. REINFORCEMENT TO BE CENTERED IN (W1) HORIZONTAL REINFORCEMENT: #5 @ 18" O.C. CAST-IN-PLACE CONCRETE WALL CONCRETE

NOTES: 1. CAST-IN-PLACE CONCRETE WALL TO FOOTING DOWELS SHALL MATCH THE VERTICAL REINFORCMENT IN WALLS w/ STD. HOOKS.

COLUMN SCHEDULE								
MARK MATERIAL	ΜΑΤΕΡΙΑΙ	SIZE	REINFO	RCEMENT	NOTES			
		WIDTH X DEPTH	VERTICAL STEEL	TIES	Noils			
C1	CAST-IN-PLACE CONCRETE	8" X 10"	4 - #5 BARS	#3 @ 12" O.C.	SEE PLAN FOR ELEVATIONS. COORD. w/ ARCH. & VERIFY w/ EXISTING CONDITIONS			
C2	CAST-IN-PLACE CONCRETE	6" X 6"	4 - #4 BARS	#3 @ 12" O.C.	SEE PLAN FOR ELEVATIONS. COORD. w/ ARCH. & VERIFY w/ EXISTING CONDITIONS			

MARK S1

FLOOR BEAM SCHEDULE								
MARK MATERIAL	SIZE	REINFORCING BARS	STIRRUPS			NOTES		
		WIDTH X DEPTH		NO.	SIZE	SPACING EA. END	NOTED	
B1	CAST-IN-PLACE CONCRETE	8" X 12"	(2) - #5 TOP (2) - #5 BOT	24	#3	4" O.C. (12) EA. END	SEE DETAIL 5/S201 FOR EXTENT OF TOP AND BOTTOM REINF.	
B2	CAST-IN-PLACE CONCRETE	6" X 12"	(2) - #4 TOP (2) - #4 BOT			NONE	SEE DETAIL 5/S201 FOR EXTENT OF TOP AND BOTTOM REINF.	
NOTES								

1. SEE DETAIL 3/S201 FOR TYPICAL CONCRETE SECTION

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	FLOOR SLAB SCHEDULE							
		RE	INFORCEMENT	NOTES				
MATERIAL	DEFIN	MAIN STEEL	TEMP. & SHRINKAGE STEEL	NOTES				
CAST-IN-PLACE CONCRETE	4 1/2"	#3 @ 9" O.C.	#3 @ 12" O.C.	BOTTOM PROFILE OF SLAB TO BE ARCHED. SEE ARCH. DWGS, VERIFY w/ EXISTING CONDITIONS				

NOTES: 1. SEE DETAIL 6/S201 FOR GENERAL LAYOUT OF REINFORCING AND ADD'L INFORMATION

STIRRUPS TO START AT INSIDE FACE OF COLUMN AND WORK TOWARDS THE CENTER OF THE BEAM
 SEE DETAIL 8/S201 FOR TYPICAL CONCRETE SECTION

17	18	19	20	21



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FOUNDATION & FRAMING PLANS

S101

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STRUCTURAL DETAILS

Sheet Number

19 20 21

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S201



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c N C1

DEMOLITION PLAN - BASEMENT LEVEL 3/16" = 1'-0"

N C12 FLOOR PLAN - BASEMENT LEVEL 3/16" = 1'-0"

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N D2 DE 3/1	MOLITION PLAN - FIRST LEVEL 6" = 1'-0"	
<u>GI</u> 1. 2. NG AF	ENERAL NOTES: THE LIMESTONE RAILING SHALL REMAIN IN PLACE DURING CONSTRUCTION AT THIS LEVEL. THE LEADING EDGE OF THE FLOOR SLAB OF LIMESTONE SHALL REMAIN IN PLACE DURING CONSTRUCTION UNLESS NOTED OTHERWISE. SEE SHEET A801 FOR MARBLE LAYOUT. DTE DIMENSIONS ARE FROM A PILLOW CUT FACE OF STONE AND ARE PROXIMATE DIMENSIONS FOR ESTIMATING	

A301

A1 A301

A9 A301

H12

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PROTECT EXISTING OPENINGS

DEMOLITION THE STEEL BEAMS, BRICK ARCHES, AND SLAB

STRUCTURE

DEMOLITION EXISTING MARBLE TILES, TYPICAL

PROTECT EXISTING OPENINGS

EXISTING CONCRETE STAIRS TO REMAIN, TYPICAL

SIGNAGE IN THE BUILDING THAT THIS DOOR WILL BE CLOSED DUE TO CONSTRUCTION BY OTHERS

- SALVAGE EXISTING LIMESTONE ARCH TO REINSTALL IN THIS BAY, TYPICAL

- PROTECT EXISTING OPENINGS

A301 200 DOC H12 \A501 A1 A301 H2 A501 A9 A301 H16 A501 200 200 J14 (A201)

N D12 FLOOR PLAN - FIRST LEVEL 3/16" = 1'-0"



GENERAL NOTES

- 1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS
- NOTED OTHERWISE TYPICAL FOR ALL DRAWINGS. 2. FIELD VERIFY ALL DIMENSIONS AND **EXISTING CONDITIONS - TYPICAL FOR**
- ALL DRAWINGS. 3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS. 4. SEE SHEET A801 FOR FLOOR FINISH
- PLAN 5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.

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FIRST LEVEL

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INSTALL NEW LIMESTONE DUTCHMAN TO FILL THE GAP FABRICATED TO MATCH THE ADJACENT TEXTURE ON THE EXISTING STONE

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(M1) PHOTOGRAPH OF SOUTH DUTCHMAN



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406 NORTH HIGH STREET

ANAMOSA, IA 52205

Project

9392.00 ASP - IA DOC -ADMINISTRATION BUILDING ENTRY PORCH REPAIRS

Construction Manager

McGough 217 E 2nd Street, Suite 120 Des Moines, IA 50309 P: 515.954.6888

Structural Engineer

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OPN Project No. 24817000

Sheet Issue Date **REBID SET**

Revision Description

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Sheet Issue Date

12/03/2024

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ALTERNATE #1 - RETAINING WALL

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VAULT DETAILS

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MARBLE FINISH PLAN

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