•	POUND(S), NUMBER	HSS	HOLLOW STEEL SECTION
<b>k</b>	AND	INT	INTERIOR
E)	EXISTING	J/B	JOIST BEARING
@	AT	JG	JOIST GIRDER
<b>NB</b>	ANCHOR BOLT	JST	JOIST
ADDL	ADDITIONAL	JT	JOINT
ALT	ALTERNATE	kip	1,000 POUNDS
APPROX	APPROXIMATE(LY)	ksi	kips PER SQUARE INCH
ARCH	ARCHITECTURAL	LB	POUND
3/FTG	BOTTOM OF FOOTING	LLH	LONG LEG HORIZONTAL
3LDG	BUILDING	MAX	MAXIMUM
3LKG	BLOCKING	MECH	MECHANICAL
3M	BEAM	MEZZ	MEZZANINE
3MD	BOTTOM OF METAL DECK	MFR	MANUFACTURER
BOT	ВОТТОМ	MIN	MINIMUM
3RG	BEARING	MISC	MISCELLANEOUS
BTWN	BETWEEN	MTL	METAL
CANT	CANTILEVER	NTS	NOT TO SCALE
CFS	COLD-FORMED STEEL	OC CONC	ON CENTER
CJ	CONTROL OR CONST JOINT	OPNG	OPENING
CL No	CENTER LINE	PAR	PARAPET
OLR OMU	CLEAR CONCRETE MASONRY UNIT	PEMB	PRE-ENGINEERED METAL BUILDING MANUFACTURER
COL	COLUMN	PIL	PILASTER
CONC	CONCRETE	PL	PLATE
CONN	CONNECTION		PLYWOOD
CONST	CONSTRUCTION	psf PTDF	POUNDS PER SQUARE FOO PRESSURE TREATED
CONT	CONTINUOUS	FIUF	DOUGLAS FIR
OTR DBL	DOUBLE	PTSPF	PRESSURE TREATED SPRUCE PINE FIR
deg OF	DEGREE DOUGLAS FIR	PTSYP	PRESSURE TREATED SOUTHERN YELLOW PINE
dia	DIAMETER	REINF	REINFORCED, REINFORCIN
MIC	DIMENSION	REQD	REQUIRED
DWG	DRAWING	SCHED	SCHEDULE
JWL	DOWEL	SHTG	SHEATHING
ΞA	EACH	SIM	SIMILAR
=F	EACH FACE	SPF	SPRUCE PINE FIR
	ELEVATION	STD	STANDARD
ELEV	the time to be a second to	STL	
EMB	EMBEDMENT	STRUC	STRUCTURAL
EQ	EQUAL	SYP	SOUTHERN YELLOW PINE
ETC		T&B	TOP AND BOTTOM
ΞW		T&G	TONGUE AND GROOVE
EXP	EXPANSION	T/B	TRUSS BEARING
EXT		T/CONC	TOP OF CONCRETE
F.G.	FINISHED GRADE	T/FTG	TOP OF FOOTING
FDN 	FOUNDATION	T/PAN	TOP OF PANEL
	FINISH FLOOR	T/PAR	TOP OF PARAPET
FIN	FINISH	T/PIL	TOP OF PILASTER
FLR	FLOOR	T/S	TOP OF SLAB
FRMG	FRAMING	T/STL	TOP OF STEEL
FTG	FOOTING	TYP	TYPICAL
=V	FIELD VERIFY	UNO	UNLESS NOTED OTHERWIS
ga Satu	GAUGE	USGS	US GEOLOGICAL SURVEY
GALV	GALVANIZE(D)	VAR	VARIES
GLB	GLUE-LAMINATED BEAM	VERT	VERTICAL
	HANGER	w/	WITH
HGR			
НК	HOOK	WHS	WELDED HEADED STUD(S)
	HORIZONTAL	WHS WP	WELDED HEADED STUD(S) WORK POINT

# **SHOP DRAWING NOTES**

- SHOP DRAWINGS, UNLESS OTHERWISE NOTED, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 2. PRIOR TO SUBMITTAL. THE CONTRACTOR AND ARCHITECT SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR AND ARCHITECT SHALL STAMP AND SIGN THE DRAWINGS, INDICATING THAT THEY HAVE REVIEWED THEM, PRIOR TO SUBMITTAL TO ENGINEER.
- 3. SHOP DRAWINGS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS.
- 4. STRUCTURAL DRAWINGS ARE THE SOLE PROPERTY OF ÆDIFICA CASE ENGINEERING. REPRODUCTION OF STRUCTURAL DRAWINGS FOR USE IN SHOP DRAWING SUBMITTALS IS NOT ACCEPTABLE WITHOUT OUR WRITTEN AGREEMENT.
- 5. SCHEDULE SHALL ALLOW A MINIMUM OF 2 WEEKS FROM RECEIPT OF SHOP DRAWINGS FOR ÆDIFICA CASE ENGINEERING TO PROVIDE RESPONSE.

MISSOURI DEPARTMENT OF TRANSPORTATION STANDARDS **DESIGN LOADS** 

1. DESIGN LOADS

SOIL DENSITY: **ACTIVE EARTH PRESSURE** 

PASSIVE EARTH PRESSURE

120 psf 30 PCF (FREE-DRAINING GRANULAR BACKFILL) 250 PCF

## **GENERAL STRUCTURAL NOTES**

- THIS DRAWING SET IS TO BE VIEWED AS A WHOLE AND COORDINATED WITH ALL OTHER DISCIPLINES. ALL WORK PERTAINING TO A SPECIFIC CONTRACTOR MAY OR MAY NOT BE SHOWN ON SPECIFIC DRAWING SECTIONS. IT IS EACH SUBCONTRACTOR'S RESPONSIBILITY TO PREPARE HIS BID FROM A COMPLETE SET OF PLANS.
- THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. DIMENSIONS NOT SHOWN ON PLAN TO BE COORDINATED WITH GRADING PLANS.
- 3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ANY SIMILAR SITUATION ELSEWHERE ON THE JOB. EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
- 4. THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "IN-PLACE" LOADS ONLY.
- BRACE ALL BELOW GRADE WALLS UNTIL FLOOR STRUCTURE IS IN PLACE & CONCRETE OR PLYWOOD FLOOR DIAPHRAGM IS IN PLACE.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENING SIZES. PAD SIZES. AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- 8. THE VARIOUS SUBCONTRACTORS ARE RESPONSIBLE FOR PLACING SLEEVES. OUTLET BOXES, ANCHORS, VENT OPENINGS, ETC. THAT MAY BE REQUIRED IN FOUNDATION WALLS. CONSTRUCTION MANAGER SHALL COORDINATE ALL PLACEMENT OF ITEMS IN FOUNDATION WALLS.
- 9. SEE GRADING PLANS FOR ADDITIONAL DETAILS AND INFORMATION.
- 10. ALL ELEVATIONS GIVEN ARE REFERENCED TO FINISHED FLOOR ELEVATIONS AT 100'-0", UNLESS SHOWN AS USGS ELEVATIONS.
- 11. WHERE GENERAL NOTES OR TYPICAL DETAILS CONTRADICT INFORMATION PROVIDED IN BUILDING SECTIONS, THE BUILDING SECTIONS TAKE PRECEDENCE.
- 12. ALL HOLES THROUGH CONSTRUCTION SHALL BE CORE DRILLED OR SAWCUT.
- 13. ALL STAIR STRINGERS, LANDINGS, AND HANDRAILS TO BE DESIGNED AND FABRICATED BY STAIR FABRICATOR.
- 14. WHERE INFORMATION PROVIDED IN THESE STRUCTURAL DRAWINGS CONTRADICTS INFORMATION PROVIDED IN BUILDING SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE.

#### SPECIAL INSPECTIONS

REINFORCING STEEL NOTES

- REFER TO THE "STATEMENT OF SPECIAL INSPECTIONS" FOR THE LIST OF ELEMENTS OF CONSTRUCTION THAT SHALL REQUIRE SPECIAL INSPECTION. THIS SHALL BE CONSIDERED A GUIDE, AND THE CONTRACTOR AND INSPECTOR SHALL REFER TO THE IBC FOR COMPLETE REQUIREMENTS, QUALIFICATIONS, EXCEPTIONS, AND SUBMITTALS. REFER TO IBC SECTION 1704 FOR 2003-2009 CODES, AND SECTION 1705 FOR 2012-2015 CODES. THE OWNER SHALL EMPLOY A SPECIAL INSPECTION AGENCY APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE START OF WORK.
- 2. COPIES OF ALL INSPECTION REPORTS THAT REPORT COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD. AND BUILDING INSPECTOR WITHIN 7 CALENDAR DAYS OF COMPLETION OF THAT PORTION OF WORK. A MINIMUM OF ONE (1) PROGRESS REPORT PER MONTH FOR EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD.
- SPECIAL INSPECTOR SHALL INFORM ENGINEER OF RECORD IMMEDIATELY OF NON-COMPLIANCE WITH CONSTRUCTION DOCUMENTS OR APPROVED SUBMITTALS. CONTACT ENGINEER OF RECORD THE SAME DAY NON-COMPLIANCE IS DISCOVERED AND FOLLOW UP WITH AN OFFICIAL REPORT WITHIN 2 BUSINESS DAYS.
- 4. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO. AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR.
- 5. SPECIAL INSPECTIONS ARE NOTED AS EITHER "CONTINUOUS" OR "PERIODIC" A "CONTINUOUS" INSPECTION REQUIRES THE PRESENCE OF A QUALIFIED INSPECTOR IN THE VICINITY OF THE WORK BEING PERFORMED FOR 100% OF THAT WORK. A "PERIODIC" INSPECTION REQUIRES PART-TIME OBSERVATION OF THE WORK BEING PERFORMED. THE INSPECTOR SHALL ALSO OBSERVE THE FINAL CONDITION OF THE WORK BEFORE IT IS CLOSED FROM VIEW
- 6. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

BAR REINFORCING SHALL CONFORM TO ASTM A706.

CONCRETE CAST AGAINST EARTH = 3"

CONCRETE EXPOSED TO WEATHER:

- #6 BAR AND LARGER = 2"

- #5 BAR AND SMALLER = 1 1/2"

- #14 BARS AND LARGER = 1 1/2"

- #11 BARS AND SMALLER = 3/4"

1. NON-WELDED STEEL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WELDED STEEL

2. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY A.W.S. QUALIFIED WELDERS IN CONFORMANCE WITH A.W.S. D1.1 USING E90 ELECTRODES FOR ASTM A615 REBAR, AND E80

3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL IN CAST-IN-PLACE (NON-PRESTRESSED)

4. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE

5. LAP SPLICE LENGTHS FOR BARS INSTALLED IN CONCRETE SHALL BE IN ACCORDANCE WITH THE

LATEST EDITION OF ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT

ELECTRODES FOR ASTM A706 REBAR UNLESS OTHERWISE NOTED ON THE DRAWINGS.

CONCRETE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:

CONCRETE NOT EXPOSED TO EARTH OR WEATHER (SLABS, WALLS, & JOISTS):

CONCRETE NOT EXPOSED TO EARTH OR WEATHER (BEAMS & COLUMNS):

- PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS = 1 1/2"

#### WATER LEVELS INDICATED ON THE BORING LOGS MAY BE SUBJECT TO SEASONAL AND/OR ANNUAL VARIATIONS. A DEWATERING SYSTEM OF SUFFICIENT CAPACITY SHALL BE INSTALLED AND OPERATED TO MAINTAIN THE CONSTRUCTION AREA FREE OF WATER AT ALL TIMES.

- THE BEARING VALUE OF THE SOILS IS PER REPORT BY: SCI ENGINEERING INC., DATED NOVEMBER 2016. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING NET ALLOWABLE BEARING PRESSURES:
- CONT. WALL FOOTINGS
- ALL FOOTING EXCAVATIONS SHALL BE INSPECTED, PRIOR TO CONCRETE PLACEMENT, BY A SOILS ENGINEER TO VERIFY SUITABLE BEARING MATERIAL OF CAPACITY AS SPECIFIED
- 4. NOTIFY THE OWNER'S REPRESENTATIVE WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL
- 5. THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT ALL FOUNDATIONS WERE PLACED ON SOIL WITH THE BEARING VALUE AS SPECIFIED.
- 6. WITHIN THE EXCAVATION AREA OF FOUNDATIONS, ALL VEGETATION, TOPSOIL PREVIOUSLY PLACED FILL AND UNSUITABLE SOILS SHALL BE REMOVED. ALL FOOTINGS TO BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
- 7. FOUNDATION DESIGN DOES NOT ACCOUNT FOR WINTER CONSTRUCTION. ANY UNENCLOSED / UNHEATED SPACES SHALL BE ADEQUATELY PROTECTED AGAINST FROST DURING WINTER CONSTRUCTION BY THE CONTRACTOR
- 8. IF ANY SOFT SPOTS OR AREAS QUESTIONABLE FOR ANY REASON ARE ENCOUNTERED BY THE CONTRACTOR, ARCHITECT / ENGINEER SHALL BE NOTIFIED IMMEDIAETLY SO THAT ANY REQUIRED ACTION MAY BE TAKEN PRIOR TO CONTINUATION OF CONSTRUCTION IN THAT AREA.

### **CONCRETE NOTES**

- ALL CONCRETE WORK INCLUDING FORMING, REINFORCING, MIXING, PLACING AND CURING SHALL BE DONE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE INCLUDING "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301 LATEST EDITIONS
- 2 IT SHALL BE THE RESPONSIBILITY OF THE MIX DESIGN SUPPLIER TO PROPORTION MIXES APPROPRIATELY TO REACH THE REQUIRED DESIGN STRENGTH NOTED, AND SHALL BE APPROPRIATE FOR THEIR INTENDED USE ADMIXTURES ARE OPTIONAL, HOWEVER, AIR-ENTRAINING ADMIXTURES SHALL BE USED FOR CONCRETE EXPOSED TO THE EXTERIOR OR FREEZE-THAW CYCLES.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR EACH INTENDED USE ON THE PROJECT FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD. CONTENTS OF THE MIX DESIGN SHALL COMPLY WITH, AND INCLUDE ALL INFORMATION REQUIRED BY, ACI 318, CHAPTER 5. THIS INCLUDES, BUT IS NOT LIMITED TO NUMBER OF TESTS AND AGE OF TESTS INCLUDED IN THE MIX **DESIGN REPORT**
- 4 ALL CONCRETE DENSITY SHALL BE NORMAL WEIGHT (145 pcf +/- 5) UNLESS OTHERWISE INDICATED. LIGHT WEIGHT CONCRETE SHALL BE 110 pcf +/- 5, UNO.
- 5 FLY ASH ALLOWANCES:
- 20% MAXIMUM BY WEIGHT IN FOOTINGS
- 15% MAXIMUM BY WEIGHT IN SLABS
- 0% (NONE) ALLOWED IN TILT-UP PANELS
- 6. COORDINATE CONCRETE WORK WITH THAT OF OTHER TRADES TO ALLOW FOR SETTING OF SLEEVES, ACCESSORIES, ETC.
- 7. ALL REINFORCING STEEL, ANCHOR RODS, DOWELS, AND INSERTS SHALL BE WELL-SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- TEST CYLINDERS WILL BE REQUIRED (4 MINIMUM), AND RECORDS OF RESULTS SHALL BE SUBMITTED TO ENGINEER OF RECORD (1 AT 7 DAYS, AND 2 AT 28 DAYS). SLUMP TESTS ARE RECOMMENDED.
- 9. CONSTRUCTION JOINTS IN CONCRETE INDICATED WITH A ROUGH, CLEAN SURFACE SHALL HAVE A 1/4" AVERAGE AMPLITUDE
- 10. ALL COLD JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO PLACING CONCRETE. 11. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH IN
- ACCORDANCE WITH THE FOLLOWING: - (A) TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%, "N" IN COLUMN INDICATES THE ADDITION OF ENTRAINED AIR IS NOT REQUIRED, BUT IS PERMITTED.

	CONCRETE T	ABLE	
INTENDED USE	MINIMUM 28 DAY STRENGTH fc	MAX WATER-CEMENT RATIO	TOTAL AIR LIMITS (MAX % RATIO) (A)
ETAINING WALLS	4 ksi	0.48	6 (WHERE EXPOSED TO EXT.)

FOR REFERENCE ONLY APPROVED WITH GARDING/SWPPP PLANS, PERMIT NO. GR17-00003

FOR HORIZONTAL BARS, VALUES IN THE TABLE SHALL BE MULTIPLIED BY 1.3 WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE BAR.

- 2. LAP SPLICES IN TENSION ARE NOT PERMITTED FOR BAR LARGER THAN #11. A FULL MECHANICAL OR FULL WELDED SPLICE SHALL DEVELOP AT LEAST 1.25fv OF THE BAR.
- 3. WHERE CLEAR SPACING OF BARS BEING SPLICED IS AT LEAST 2 BAR DIAMETERS AND CLEAR COVER AT LEAST 1 BAR DIAMETER, USE CASE 1. FOR ALL OTHER BAR ARRANGEMENTS, USE CASE 2.
- 4. VALUES IN THE TABLE ARE BASED ON 60 ksi REBAR. FOR OTHER REBAR YIELD STRENGTHS, MULTIPLY VALUES IN THE TABLE BY THE SPECIFIED YIELD STRENGTH DIVIDED BY 60.
- 5. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, PROVIDE THE LAP LENGTH OF THE LARGER BAR.
- 6. WELDED WIRE REINFORCEMENT (DEFORMED OR PLAIN WIRE) SHALL BE LAPPED ONE FULL MESH SQUARE PLUS 2 INCHES MINIMUM, BUT NOT LESS THAN 8 INCHES.
- REBAR IN ALL CONCRETE MEMBERS SHALL BE SPLICED IN ACCORDANCE WITH "TENSION LAP SPLICE LENGTH" TABLE. UNLESS SPECIFICALLY NOTED. OTHERWISE ON THE DRAWINGS.

TE	NSION L	AP SPLIC	E LENGT	TH (INCHE	ES) - 60 K	SI REBAI	RTABLE	
f'c =	3,000psi	3,000psi	3,500psi	3,500psi	4,000psi	4,000psi	5,000psi	5,000psi
BAR SIZE	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	22	33	20	30	19	28	17	25
#4	29	43	27	40	25	37	23	34
#5	36	54	33	50	31	47	28	42
#6	43	65	40	60	37	56	34	50
#7	63	94	58	87	54	81	49	73
#8	72	107	66	99	62	93	56	83
#9	81	121	75	112	70	105	63	94
#10	91	136	84	126	79	118	71	106
#11	101	151	93	140	87	131	78	117

# DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION NOTES

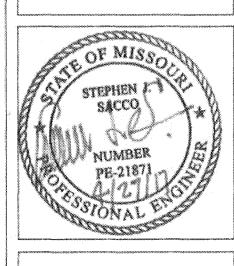
- 1. VALUES IN TABLE ARE BASED ON 60 ksi REBAR. FOR OTHER REBAR YIELD STRENGTHS, MULTIPLY VALUES IN THE TABLE BY THE SPECIFIED YIELD STRENGTH DIVIDED BY 60.
- 2. SEE ACI 318 SECTION 12.5 FOR ALLOWABLE REDUCTIONS IN DEVELOPMENT LENGTH. IT SHALL NOT BE LESS THAN 8 BAR DIAMETERS OR 6 INCHES.
- 3. HOOKED BARS ARE NOT CONSIDERED EFFECTIVE IN DEVELOPING BARS IN COMPRESSION

BAR SIZE	f'c = 3.000  psi	f'c = 3,500 psi	f'c = 4.000  psi	f'c = 5.000 c
#3	9	8	8	7
#4	11	11	10	9
#5	14	13	12	11
#6	17	16	15	13
#7	20	18	17	15
#8	22	21	19	17
#9	25	23	22	20
#10	28	26	25	22
#11	31	29	27	24

	SPECIAL INSPEC	CTIONS - CONCRETE TABLE
ITEM	INSPECTION	SCOPE
REINFORCEMENT	PERIODIC	INSPECT REINFORCEMENT AND PLACEMENT; VERIFY CONFORMANCE WITH CONSTRUCTION DOCUMENTS, AND THAT BARS ARE FREE FROM MATERIALS THAT COULD PREVENT BOND, ARE ADEQUATELY LAPPED, SPLICED, TIED, AND SUPPORTED
MIX DESIGN	PERIODIC	VERIFY USE OF APPROVED MIX DESIGN
SAMPLING AND TESTING	CONTINUOUS	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTING; PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE CONCRETE
CONCRETE PLACEMENT	PERIODIC	VERIFY MAINTENANCE OF CURING TEMPERATURE AND TECHNIQUES
CONCRETE PLACEMENT	CONTINUOUS	CONCRETE PLACEMENT

SPECIA	AL INSPECTIONS	- SOILS AND FOUNDATIONS TABLE
ITEM	INSPECTION FREQUENCY	SCOPE
SOILS	PERIODIC	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY; VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL; PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS; PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY
SOILS	CONTINUOUS	VERIFY USE OF PROPER MATERIALS, DENSITIES, LIFT THICKNESSES, AND COMPACTION OF FILL; VERIFY MATERIALS AND PROCEDURES COMPLY WITH THE GEOTECHNICAL REPORT

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MCBRIDE HYLAN GREEN LLC

DRAINAGE HEADWALL

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**GENERAL NOTES** 

Project # MBCC-07-01-2017 4/28/17 Issue Date Drawn by DMS

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Checked by