

GENERAL

- A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY STRUCTURAL DRAWINGS OR SPECIFICATIONS.
- B. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.
- C. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION W/ GEORGIA AMENDMENTS. ALL REFERENCED STANDARDS SHALL BE OF THE EFFECTIVE DATE NOTED IN THE CONTROLLING BUILDING CODE.
- D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL, OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONSTRUCTION DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONSTRUCTION DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS.
- E. CONSTRUCTION DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE GENERAL CONTRACTOR.
- F. CONSTRUCTION DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISI, SJI OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONSTRUCTION DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
- G. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
- H. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.
- I. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
- J. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC EXCEPT AS SHOWN ON THE DRAWINGS.
- K. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF, AND WALL PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD UNLESS NOTED OTHERWISE.
- L. THE GENERAL CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, FURNITURE, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
- M. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS UNLESS NOTED OTHERWISE.
- N. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS.
- O. THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.
- P. THE STRUCTURAL ENGINEER OF RECORD HAS DELEGATED THE DESIGN OF PRECAST CONCRETE, GLAZING SYSTEMS, COLD FORMED METAL FRAMING, RAILING, SKYLIGHTS, AND STAIRS, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS.
- Q. ALL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

SHOP DRAWINGS

- A. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
- B. THE GENERAL CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OR ELECTRONIC COPIES, AS DIRECTED, OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ARCHITECT FOR REVIEW.
- C. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE GENERAL CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.
- D. SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN ITEMS AS DICTATED BY THE CONSTRUCTION DOCUMENTS SHALL BE SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
- E. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO PRECAST CONCRETE, GLAZING SYSTEMS, COLD FORMED METAL FRAMING, RAILING, SKYLIGHTS, AND STAIRS SHALL BE SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
- F. REPRODUCTION/DUPPLICATION OF THE STRUCTURAL DRAWINGS FOR USE IN THE PRODUCTION OF SHOP DRAWINGS IS PROHIBITED, UNLESS NOTED OTHERWISE, IN THE EVENT THAT THE GENERAL CONTRACTOR OR SUBCONTRACTOR ELECTS TO PRODUCE SHOP DRAWINGS BY COPYING ELECTRONIC OR PAPER COPIES OF THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REQUEST FROM THE STRUCTURAL ENGINEER OF RECORD A SHOP DRAWING WAIVER ALONG WITH THE SPECIFIC SHEETS REQUIRED. SIGNATURE OF THE WAIVER BY THE GENERAL CONTRACTOR, ALONG WITH PAYMENT OF A FEE TO THE STRUCTURAL ENGINEER OF RECORD WILL BE REQUIRED. THE GENERAL CONTRACTOR SHALL CONINUE TO ASSUME RESPONSIBILITY FOR ERRORS, OMISSIONS AND COORDINATION REQUIRED FOR SHOP DRAWING PRODUCTION, REGARDLESS OF THE USE OF COPIES OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING PRODUCTION.

SPECIAL INSPECTIONS

- A. SPECIAL INSPECTIONS ARE REQUIRED IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE BUILDING CODE.
- B. ALL SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH DIVISION 01 SPECIFICATIONS.

DESIGN LOADS

- A. DESIGN ROOF DEAD LOAD:
- 35 PSF
- B. DESIGN ROOF LIVE LOAD:
- 20 PSF
 - REDUCTIONS APPLIED PER TRIBUTARY AREA AS PERMITTED BY CODE
- C. DESIGN ROOF RAIN LOAD
- DESIGN RAINFALL: 3.75" HR (100-YEAR, 1-HOUR RAINFALL)
 - MAXIMUM DEPTH OF RAINWATER AT LOWEST POINT OF ROOF SHALL NOT EXCEED 4" DURING DESIGN RAINFALL
- D. DESIGN WIND LOAD:
- 125 PSF SLAB-ON-GRADE
 - REDUCTIONS APPLIED PER TRIBUTARY AREA AS PERMITTED BY CODE
- E. DESIGN SNOW LOAD:
- GROUND SNOW LOAD, $P_g = 5$ PSF
 - FLAT ROOF SNOW LOAD, $P_f = 5$ PSF
 - SNOW EXPOSURE FACTOR, $C_e = 1$
 - SNOW IMPORTANCE FACTOR, $I_s = 1.10$
 - SNOW THERMAL FACTOR, $C_t = 1$
- F. DESIGN WIND LOAD:
- ULTIMATE DESIGN WIND SPEED, $V_{ult} = 113$ MPH
 - NOMINAL DESIGN WIND SPEED $V_{nld} = 90$ MPH
 - RISK CATEGORY: III
 - WIND EXPOSURE CATEGORY: C
 - COMPONENTS AND CLADDING WIND PRESSURE: (SEE SCHEDULE)
 - INTERNAL PRESSURE COEFFICIENT (C_{pi}) = -0.18
 - DESIGN SEISMIC INFORMATION:
 - RISK CATEGORY: III
 - MAPPED SPECTRAL RESPONSE COEFFICIENT, $S_s = 0.185$
 - MAPPED SPECTRAL RESPONSE COEFFICIENT, $S_1 = 0.085$
 - SPECTRAL RESPONSE COEFFICIENT, $S_{ds} = 0.197$
 - SPECTRAL RESPONSE COEFFICIENT, $S_{d1} = 0.135$
 - SITE CLASS: D - BASE SEISMIC-FORCE RESISTING SYSTEM: EXISTING ORDINARY REINFORCED MASONRY SHEAR WALLS
 - DESIGN BASE SHEAR: EXISTING - NOT REQUIRED PER IBC, CHAPTER 34
 - ANALYSIS PROCEDURE: NOT REQUIRED PER IBC, CHAPTER 34
 - RESPONSE MODIFICATION FACTOR, $R = 2$
 - SEISMIC DESIGN CATEGORY: C
 - SEISMIC IMPORTANCE FACTOR, $I_e = 1.25$
 - SEISMIC RESPONSE COEFFICIENT, $C_s = 0.123$
- H. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.
- I. THE STRUCTURE, WITH PROPOSED REINFORCING NOTED ON PLANS AND SECTIONS, HAS BEEN ANALYZED FOR GRAVITY AND LATERAL LOADS AND FOUND TO BE IN COMPLIANCE WITH IBC SECTION 404 FOR ALTERATIONS TO THE EXISTING STRUCTURE.

SUSPENDED LOADS AT STRUCTURE

- A. ATTACHMENT TO ROOF DECK FOR ANY SUSPENDED LOADS IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
- B. PIPE HANGERS SHALL BE ATTACHED TO BOTTOM FLANGES OF JOISTS OR BEAMS WITH APPROVED CLAMPS/CONNECTIONS.
- C. ALL MULTIPLE TIER CABLE TRAYS, PIPE RACKS OR GROUPS OF PIPES OR DUCTS SHALL BE SUPPORTED FROM EACH ROOF FRAMING MEMBER WHERE THE GROUP CROSSES THE MEMBER OR AT 8'-0" O.C. MAX, WHERE GROUP IS ORIENTED PARALLEL TO THE MEMBER, UNLESS NOTED OTHERWISE ON DRAWINGS.
- D. HANGERS SHALL BE ADDED AT ALL PIPE VALVE AND FITTING LOCATIONS.
- E. CONTRACTORS AND SUBCONTRACTORS SUSPENDING LOADS FROM STRUCTURE SHALL ACCOUNT FOR AND PROVIDE ALL CONNECTIONS, STRUTS, TIES AND RIGGING REQUIRED FOR LOADS. LOADS SHALL BE IDENTIFIED ON SHOP DRAWINGS AND SHOWN WITH SUPPORT, SUPPORT LOADS AND ALL REQUIRED SUPPLEMENTAL BRACING, PROVIDE SUPPORTS AND HANGERS AS REQUIRED FOR PIPING AND EQUIPMENT SO THAT ALL COMBINED LOADING SHALL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE AS SHOWN ON STRUCTURAL DRAWINGS. SUPPORT LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES AND SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS OF THE ITEMS SUPPORTED.
- F. EXPENSE RESULTING FROM IMPROPER COORDINATION OR LOCATION OF ANCHOR BOLTS, OPENINGS, BRACKETS, INSERTS, HANGERS OR OTHER SUPPORTS REQUIRED FOR PIPING AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EXISTING CONDITIONS

- A. THE GENERAL CONTRACTOR SHALL SURVEY THE EXISTING STRUCTURE TO DETERMINE THAT ALL MODIFICATIONS AS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE FEASIBLE AND PRACTICAL AND SHALL REPORT ANY DISCREPANCIES OR UNUSUAL CONDITIONS TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
- B. WHEN EXISTING FRAMING IS SHOWN ON THE STRUCTURAL DRAWINGS IT IS FOR REFERENCE ONLY AS IT RELATES TO THE STRUCTURAL SCOPE OF WORK. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE A COMPREHENSIVE REPRESENTATION OF THE AS-BUILT EXISTING STRUCTURE.
- C. WHERE PORTIONS OF THE NEW CONSTRUCTION ARE INDICATED TO FIT TO EXISTING CONSTRUCTION, THE GENERAL SHALL VERIFY DIMENSIONS OF EXISTING CONSTRUCTION BY FIELD MEASUREMENTS BEFORE SUBMISSION OF SHOP DRAWINGS AND FABRICATION.
- D. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY OR OTHERWISE INTERFERE WITH INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATION OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD TO DAMAGE TO THE NEW WORK (SUCH AS DIFFERENTIAL SETTLEMENT, ETC.).

WIND DESIGN OF NON-STRUCTURAL COMPONENTS

- A. REFER TO THE WIND COMPONENTS AND CLADDING SCHEDULE ON SHEET 5003 FOR WIND PRESSURES TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS NOT SPECIFICALLY DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD.

SEISMIC DESIGN OF NON-STRUCTURAL COMPONENTS

- A. ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS, INCLUDING THEIR SUPPORT AND ATTACHMENTS, SHALL BE DESIGNED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC CHAPTER 16, ASCE7 CHAPTER 13, AND ANY ADDITIONAL REQUIREMENTS OF THE STATE OR LOCAL JURISDICTION. THESE REQUIREMENTS SHALL BE SATISFIED BY:
- PROJECT-SPECIFIC DESIGN AND DOCUMENTATION PREPARED AND SUBMITTED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED.
 - SUBMITTAL OF MANUFACTURERS CERTIFICATION THAT THE COMPONENT IS SEISMICALLY QUALIFIED BY ANALYSIS, TESTING IN ACCORDANCE WITH SECTION 13.2.6, OR EXPERIENCE DATA IN ACCORDANCE WITH SECTION 13.2.6.
- B. SEISMIC BRACING OF ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS NOT SPECIFICALLY SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- C. ARCHITECTURAL COMPONENTS REQUIRING SEISMIC DESIGN AND DETAILING INCLUDE, BUT ARE NOT LIMITED TO, ACCESS FLOORS, CLADDING, GLAZING, PARTIAL HEIGHT INTERIOR WALLS, HANGING PARTITIONS, SUSPENDED CEILINGS, AND INTERIOR/EXTERIOR VENEER.
- D. MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS REQUIRING SEISMIC DESIGN AND DETAILING INCLUDE, BUT ARE NOT LIMITED TO, DUCTS, LIGHT FIXTURES, PIPING SYSTEMS, ROOF TOP UNITS, AND OTHER EQUIPMENT SUPPORTED BY OR SUSPENDED FROM FLOORS OR ROOFS.
- E. ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS CROSSING BUILDING EXPANSION JOINTS SHALL BE DETAILLED IN ORDER TO ACCOMMODATE THE ANTICIPATED SEISMIC RELATIVE DISPLACEMENTS ACROSS THE JOINT.

CONCRETE

- A. ALL CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH ACI 318 AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 301-16.
- B. PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, ACCORDING TO ACI 301 AND ACI 318 CHAPTER 5. DESIGN MIXTURES SHALL MEET THE MINIMUM REQUIREMENTS TABULATED IN THE SCHEDULE ON S03.
- C. THE GENERAL CONTRACTOR SHALL SUBMIT TO STRUCTURAL ENGINEER OF RECORD PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS. WHERE NEW CONCRETE IS TO BE POURED ONTO EXISTING CONCRETE, BONDING IS REQUIRED AS NOTED IN ACI 301.
- D. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN CONCRETE SHALL BE ADHERED TO (SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC.). THIS CRITERIA WILL BE STRICTLY ENFORCED.
- CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
 - CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
 - CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB, WALL, OR BEAM SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION.
 - CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED.
 - CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. CONCRETE COVER FOR PIPES, CONDUITS AND FITTINGS SHALL NOT BE LESS THAN 1 1/2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER, NOR 3/4" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND.
 - CONDUITS AND PIPES SHALL BE PLACED BETWEEN TOP AND BOTTOM SLAB REINFORCEMENT. CONDUITS AND PIPES SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS NOTED OTHERWISE.
 - CONDUITS AND PIPES SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
 - CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF CROSS SECTION NOTED ON DRAWINGS OR AS REQUIRED BY FIRE PROTECTION.
 - PIPES AND FITTINGS SHALL BE DESIGNED TO RESIST EFFECTS OF MATERIAL, PRESSURE AND TEMPERATURE TO WHICH THEY WILL BE SUBJECTED.
 - REINFORCEMENT WITH AN AREA NOT LESS THAN 0.002 TIMES THE AREA OF CONCRETE SECTION SHALL BE PROVIDED NORMAL TO PIPING. THIS REINFORCEMENT SHALL BE IN ADDITION TO REINFORCEMENT NOTED ON DRAWINGS.
 - REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS FOR CONDUITS AND PIPES EMBEDDED IN CONCRETE.
- E. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, RUSTICATIONS, INSERTS AND ANCHORS AND OTHER EMBEDDED ITEMS NOT NOTED ON STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PLACING ALL EMBEDDED ITEMS SHOWN ON DRAWINGS & ADDITIONAL ITEMS NOTED IN THIS NOTE, AS REQUIRED BY OTHER TRADES, UNLESS SHOWN ON STRUCTURAL DRAWINGS. NO OPENINGS LARGER THAN 12"x12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OF THE SLAB AND PLACEMENT OF CONCRETE. SHOW ALL OPENINGS AND SLEEVES ON THE SHOP DRAWINGS.
- F. CORING OF SLABS AND USE OF DRILLED ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
- G. ANCHORS FOR TENDONS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS NOTED OTHERWISE.
- H. WHERE POLYSTYRENE RIGID INSULATION IS INDICATED AS A FILL MATERIAL BELOW CONCRETE SLABS, INSULATION SHALL CONFORM TO ASTM C-578 WITH MINIMUM COMPRESSIVE RESISTANCE OF 40 PSI AND MINIMUM DENSITY OF 1.8 PCF. INSULATION SHALL ALSO COMPLY WITH ADDITIONAL DIVISION OF SPECIFICATION REQUIREMENTS WHERE IT IS INTENDED TO PERFORM AS AN INSULATION MATERIAL.
- I. CEMENT SHALL BE TYPE I OR II CONFORMING TO ASTM C-150.
- J. THE USE OF OTHER CEMENTITIOUS MATERIALS MEETING THE REQUIREMENTS OF ACI 301 IS PERMITTED.
- K. SUBMIT DESIGN MIXTURES FOR EACH CONCRETE MIX TO BE USED ON THE PROJECT. INDICATE AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE IF APPLICABLE.
- L. ADMIXTURES: USE ADMIXTURES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. USE WATER-REDUCING, HIGH-RANGE WATER-REDUCING, PLASTICIZING, OR RETARDING ADMIXTURES IN CONCRETE, AS REQUIRED, FOR PLACEMENT AND WORKABILITY, AND PROJECT SPECIFIC CONDITIONS.
- M. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF CONCRETE PLACED IN THE AMOUNT ACCORDING TO THE LESSER OF THE FOLLOWING:
- 75 CUBIC YARDS
 - 24 HOUR PERIOD
 - CHANGE IN CONCRETE STRENGTH
 - CAST AND CURE A MINIMUM OF FOUR 6"x12" OR FIVE 4"x8" CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. ADDITIONAL CYLINDERS TO BE CAST FOR HIGH-EARLY STRENGTH AND AS REQUIRED FOR CONTRACTORS MEANS AND METHOD COST.
- N. COMPRESSIVE-STRENGTH TESTS: ASTM C 39. TEST ONE SPECIMEN AT 7 DAYS AND ONE SET OF TWO(6"x12")THREE(4"x8") SPECIMENS AT 28 DAYS. SHOULD 28 DAY STRENGTH NOT BE MET, TEST REMAINING CYLINDER AT 56 DAYS. SHOULD 28 DAY STRENGTH BE MET, REMAINING CYLINDER MAY BE DISCARDED. CONDUCT ADDITIONAL TESTS FOR HIGH-EARLY STRENGTH CONCRETE AND AS REQUIRED FOR GENERAL CONTRACTOR'S MEANS AND METHODS.
- O. TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
- P. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WATERSTOP REQUIREMENTS.
- Q. PROVIDE SHEET VAPOR RETARDER MEETING ASTM E 1745, MINIMUM 10 MIL THICKNESS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS OR INCREASED THICKNESS. SEE CONSTRUCTION DRAWINGS FOR LOCATIONS REQUIRED.
- R. INSTALL PER QUALIFIED GEOTECHNICAL ENGINEER'S RECOMMENDATION AND ACI 302.1 REQUIREMENTS.
- S. WHEN AIR TEMPERATURE IS BETWEEN 85 AND 90 DEG F, REDUCE MIXING AND DELIVERY TIME FROM 1-1/2 HOURS TO 75 MINUTES. WHEN AIR TEMPERATURE IS ABOVE 90 DEG F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
- T. DO NOT ADD WATER TO CONCRETE DURING DELIVERY OR PLACEMENT. ADD WATER AT PROJECT SITE ONLY AS NOTED ON DELIVERY TICKET, AND PRIOR TO BEGINNING PLACEMENT.
- U. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 301, ACI 305, ACI 306, AND ACI 306.1 AS APPLICABLE.
- V. CURE CONCRETE ACCORDING TO ACI 308.1, BY ONE OR A COMBINATION OF THE METHODS ALLOWED IN ACI 301.
- W. BAR SUPPORTS SHALL BE MANUFACTURED FROM PLASTIC, OR PRECAST CONCRETE ACCORDING TO CRSIS' MANUAL OF STANDARD PRACTICE, OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE FOR USE IN FOUNDATIONS AND SLABS ON GRADE ONLY.
- X. EARTH FORMS MAY BE USED FOR FOOTING FORMS WHERE SIDES OF THE EXCAVATION ARE CUT TRUE, IN FIRM SOIL. IF EARTH IS NOT SUITABLE TO BE USED AS "EARTH FORM," NO CONSIDERATION WILL BE GIVEN TO ANY CLAIM FOR ADDITIONAL COST OF FORMWORK. GENERAL CONTRACTOR SHALL PROVIDE MATERIAL AND LABOR TO PROVIDE FORMWORK WITHOUT ADDITIONAL COST TO OWNER.
- Y. FORMWORK LIMIT CONCRETE SURFACE IRREGULARITIES, DESIGNATED BY ACI 347 AS ABRUPT OR GRADUAL, AS FOLLOWS:
- CLASS A, 1/8 INCH FOR EXPOSED SMOOTH-FORMED FINISHED SURFACES.
 - CLASS B, 1/4 INCH FOR EXPOSED ROUGH-FORMED FINISHED SURFACES.
- Z. FIELD BENDING OR STRAIGHTENING OF REINFORCING BARS PARTIALLY EMBEDDED IN CONCRETE IS PROHIBITED UNLESS SPECIFICALLY PERMITTED BY STRUCTURAL ENGINEER OF RECORD. COMPLY WITH ACI 301 PROCEDURES FOR FIELD BENDING AND STRAIGHTENING.

1. FINISHING FLOORS AND SLABS
- A. GENERAL. COMPLY ADDITIONALLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES
2. FLOAT FINISH
- APPLY FLOAT FINISH TO SURFACES TO RECEIVE TROWEL FINISH AND TO BE COVERED WITH FLUID-APPLIED OR SHEET WATERPROOFING, BUILT-UP OR MEMBRANE ROOFING, OR SAND-BED TERRAZZO
 - TROWEL FINISH (AFTER APPLYING FLOAT FINISH):
 - APPLY A TROWEL FINISH TO SURFACES EXPOSED TO VIEW OR TO BE COVERED WITH RESILIENT FLOORING, CARPET, CERAMIC OR QUARRY TILE SET OVER A CLEAVAGE MEMBRANE, PAINT, OR ANOTHER THIN-FILM-FINISH COATING SYSTEM.
 - FINISH SURFACES TO THE FOLLOWING TOLERANCES, ACCORDING TO ASTM E 1155, FOR A RANDOMLY TRAFFICKED FLOOR SURFACE:
 - SPECIFIED OVERALL VALUES OF FLATNESS, F(1) 35; AND OF LEVELNESS, F(1) 25; WITH MINIMUM LOCAL VALUES OF FLATNESS, F(1) 24; AND OF LEVELNESS, F(1) 17; FOR SLABS-ON-GRADE.
 - SPECIFIED OVERALL VALUES OF FLATNESS, F(1) 30; AND OF LEVELNESS, F(1) 20; WITH MINIMUM LOCAL VALUES OF FLATNESS, F(1) 24; AND OF LEVELNESS, F(1) 15; FOR SUSPENDED SLABS.
 - FINISH AND MEASURE SURFACE SO GAP AT ANY POINT BETWEEN CONCRETE SURFACE AND AN UNLEVELLED, FREE-STANDING, 10-FT LONG STRAIGHTEDGE RESTING ON TWO HIGH SPOTS AND PLACED ANYWHERE ON THE SURFACE DOES NOT EXCEED 1/4 INCH.
 - TROWEL AND FINE-BROOM FINISH:
 - APPLY A TROWEL FINISH TO SURFACES WHERE CERAMIC OR QUARRY TILE IS TO BE INSTALLED BY EITHER THICKSET OR THIN-SET METHOD.
 - COMPLY WITH FLATNESS AND LEVELNESS TOLERANCES FOR TROWEL-FINISHED FLOOR SURFACES.
 - BROOM FINISH: APPLY A BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, RAMPS, AND ELSEWHERE AS INDICATED.
 - COORDINATE REQUIRED FINAL FINISH WITH ARCHITECT BEFORE APPLICATION.
- AA. MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E 1155 WITHIN 8 HOURS OF FINISHING
- BB. CONCRETE SURFACE REPAIRS
- DEFECTIVE CONCRETE: REPAIR AND PATCH DEFECTIVE AREAS WHEN APPROVED BY ARCHITECT/STRUCTURAL ENGINEER OF RECORD. REMOVE AND REPLACE CONCRETE THAT CANNOT BE REPAIRED AND PATCHED TO THE SATISFACTION OF ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
 - REPAIRING FORMED SURFACES: SURFACE DEFECTS INCLUDE COLOR AND TEXTURE IRREGULARITIES, CRACKS, SPALLS, AIR BUBBLES, HONEYCOMBS, ROCK POCKETS, FINS AND OTHER PROJECTIONS ON THE SURFACE, AND STAINS AND OTHER DISCOLORATIONS THAT CANNOT BE REMOVED BY CLEANING PER ACI 301, TO THE SATISFACTION OF THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
 - REPAIRING UNFORMED SURFACES: TEST UNFORMED SURFACES, SUCH AS FLOORS AND SLABS, FOR FINISH AND VERIFY SURFACE TOLERANCES SPECIFIED FOR EACH SURFACE FOR AREAS OUT OF TOLERANCE OR SPECIFICATION. THE GENERAL CONTRACTOR SHALL PROPOSE CORRECTION METHOD TO ARCHITECT/STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- CC. HEADED CONCRETE ANCHORS: CONFORM TO AWS D1.1 AND ASTM A 108 SPECIFICATIONS FOR 1010 THROUGH 1020 MILD STEELS, TYPE B. MINIMUM YIELD STRENGTH = 51,000 PSI (0.2% OFFSET).

SLAB-ON-GRADE

- A. CONCRETE SLAB CONTROL JOINTS SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/3 TIMES THE THICKNESS OF THE SLAB FOR FIBER REINFORCED SLABS, 1/4 TIMES THE THICKNESS OF THE SLAB FOR ALL OTHER SLABS USING CONVENTIONAL WET-CUT SAW, AND 1/5 TIMES THE THICKNESS OF THE SLAB FOR ALL OTHER SLABS USING EARLY-ENTRY DRY-CUT SAW. SLAB SHALL BE SAWCUT WITHIN 4 HOURS OF CONCRETE PLACEMENT USING EARLY-ENTRY DRY-CUT SAW OR WITHIN 12 HOURS USING WET-CUT SAW. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE 12'-0" (MAX.) IN EACH DIRECTION. CONSTRUCTION OF CONTROL JOINTS SHALL BE SUCH THAT THE AREA CONTAINED HAS A MAXIMUM RATIO OF LONG SIDE TO SHORT SIDE OF 1.5 TO 1, OR AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- B. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR.
- C. PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1 1/2" FROM TOP SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE.
- D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.
- E. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.
- F. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE.

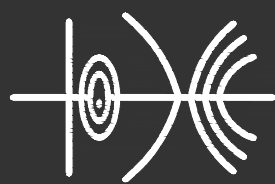
SOILS, SHALLOW FOUNDATIONS, & RETAINING WALLS

- A. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS AND THE CIVIL DRAWINGS ALONG WITH THE ASSUMPTIONS NOTED. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORT TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD ANY VARIATIONS.
- B. ASSUMED DESIGN SOIL BEARING CAPACITY IS 2000 PSF.
- C. ASSUMED DESIGN SOIL LATERAL PRESSURES ON STRUCTURE ARE DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:
- AT REST CONDITION: 40 PCF
 - ACTIVE CONDITION: 60 PCF
 - PASSIVE CONDITION: 180 PCF
- D. ALL EXCAVATIONS AND GRADES PREPARED FOR BEARING SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT NONCONFORMING CONDITIONS.
- E. WHERE ALL IS REQUIRED, IT SHALL BE SELECTED AND PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.
- F. FROST DEPTH FOR THIS PROJECT IS 18" BELOW GRADE. FINISHED GRADE SHALL BE MAINTAINED A MINIMUM OF 18" ABOVE BOTTOM OF FOUNDATIONS.
- G. TOP OF FOOTING ELEVATIONS PROVIDED ON CONSTRUCTION DRAWINGS ARE FOR PURPOSES OF DESIGN. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF TOP OF FOOTING ELEVATIONS NEED TO BE ADJUSTED BASED ON CONTRACTOR'S FIELD COORDINATION.
- GENERAL CONTRACTOR SHALL COORDINATE REQUIRED ADJUSTMENT OF FOOTING ELEVATIONS TO AVOID INFLUENCE BETWEEN FOUNDATIONS AND BURIED UTILITIES. ALL REQUIRED ADJUSTMENTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. SEE "TYPICAL FOOTING ADJACENT TO TRENCH" DETAIL.
- H. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH FOUNDATIONS WITHOUT REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. PIPING MAY PASS BELOW CONTINUOUS FOOTINGS WHERE INSTALLED IN ACCORDANCE WITH "TYPICAL PIPE UNDER FOOTING" DETAIL.
- I. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
- J. THE DESIGN OF WALLS RETAINING EARTH ASSUMES DRAINAGE SYSTEM IS IN PLACE, AND DOES NOT INCLUDE HYDROSTATIC PRESSURE LOADS UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL PROVIDE DRAINAGE SYSTEM IN ALL BACKFILL CONDITIONS (SEE CIVIL/ARCHITECTURAL DRAWINGS FOR DRAINAGE SPECIFICATIONS).
- K. THE DESIGN OF WALLS RETAINING EARTH DOES NOT INCLUDE SURCHARGE LOADS THAT MAY BE INDUCED FROM CONSTRUCTION ACTIVITIES. SEE GENERAL NOTES SECTION REGARDING GENERAL CONTRACTOR'S RESPONSIBILITIES FOR TEMPORARY ERECTION BRACING AND SHORING.
- L. BACKFILL SHALL NOT BE PLACED AGAINST WALLS UNTIL THE WALLS HAVE ACHIEVED SPECIFIED DESIGN STRENGTH. BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY IN 12" TO 18" LIFTS AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED.
- UNLESS SPECIFICALLY NOTED AS "CANTILEVERED" ON STRUCTURAL DRAWINGS, WALLS RETAINING EARTH SHALL NOT BE BACKFILLED AGAINST UNTIL STRUTS ARE INSTALLED PROVIDING LATERAL RESTRAINT FOR THE WALLS HAVE BEEN INSTALLED AND HAVE REACHED SPECIFIED DESIGN STRENGTH. WHERE THIS CANNOT BE ACCOMMODATED THE WALL SHALL BE SHORED CONTINUALLY.

REINFORCING STEEL

- A. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MANUAL OF STANDARD PRACTICE.
- B. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS. EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY THE GENERAL CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
- C. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.
- D. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).
- E. PROVIDE DOWELS FROM FOUNDATIONS, THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
- F. REINFORCING BARS: ASTM A 615, GRADE 60 DEFORMED.
- G. LOW-ALLOY-STEEL REINFORCING BARS: ASTM A 706 GRADE 60 DEFORMED (FOR USE WHERE WELDABLE REINFORCING IS CALLED OUT IN CONSTRUCTION DOCUMENTS).
- H. PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 108A, PLAIN, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS. WELDED WIRE REINFORCEMENT SHALL BE LAPPED TWO FULL PANELS (MIN).
- I. REINFORCING BARS RESISTING EARTHQUAKE-INDUCED FLEXURE AND/OR AXIAL FORCES SHALL BE ASTM A 706 GRADE 60 DEFORMED. (SEE DRAWINGS FOR LOCATIONS). ASTM A615, GRADE 60 IS PERMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE SATISFIED:
- THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED F_y BY MORE THAN 18,000 PSI
 - THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
 - MINIMUM ELONGATION IN 8" SHALL BE AT LEAST 14% FOR BAR SIZES #3-#6, AT LEAST 12% FOR BAR SIZES #7-#11, AND AT LEAST 10% FOR BAR SIZES #14-#18.
- J. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS AND DETAILS IS NOT ACCEPTABLE.

DRAWING ISSUE RECORD		
DATE:	REVISIONS:	NO.
23/12/20	ISSUED FOR BID	



KITCHEN / CAFETERIA RENOVATIONS TO:
SOUTH GWINNETT HIGH SCHOOL
2288 EAST MAIN STREET SNELLVILLE, GEORGIA 30078-9333

FOR
GWINNETT COUNTY BOARD OF EDUCATION
GWINNETT COUNTY, GEORGIA

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