

GENERAL REQUIREMENTS

- 1. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) 2018, INCLUDING SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17.
2. SPECIAL INSPECTIONS REPORTS AND A FINAL REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
3. WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR CONDITIONS.
4. COORDINATE ALL LIMITS AND DEPTHS OF DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS AND SCHEDULES. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEDULES.
5. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLANS.
7. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE AND SHALL NOTIFY ARCHITECT OR ENGINEER IN WRITING OF DISCREPANCIES. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
8. DIMENSIONS INDICATED RELATIVE TO EXISTING STRUCTURE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OR MATERIALS PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT OR ENGINEER IN WRITING OF DISCREPANCIES.
9. SPECIFIED ANCHOR SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SPECIAL ATTENTION SHALL BE GIVEN TO THE DRILLING, CLEANING, AND PREPARATION OF HOLES. WHERE ADHESIVE ANCHORS ARE SHOWN, SPECIAL ATTENTION SHALL BE GIVEN TO THE REQUIRED MIXING, APPLICATION, AND CURING TIME OF ADHESIVE TYPE SPECIFIED.

SUBGRADE PREPARATION

- 1. CONTRACTOR SHALL STRIP AND REMOVE ALL VEGETATION, TOPSOIL, ROOTS, AND ORGANIC SOILS FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 10' BEYOND THE EXTENT OF BUILDING FOUNDATION LIMITS. THE DEPTH OF STRIPPING SHALL BE THAT REQUIRED TO REMOVE SIGNIFICANT ROOT ZONES, SMALL TREE STUMPS, AND OTHER UNACCEPTABLE MATERIALS, BUT IN NO CASE SHALL IT BE LESS THAN 12".
2. AFTER TOPSOILS, ETC. WITHIN AND TO A POINT 10' OUTSIDE THE BUILDING CONSTRUCTION AREA HAVE BEEN REMOVED FROM THE SITE, THE UPPER 24" OF EXPOSED SOILS SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) BY PROOFROLLING WITH A FULLY LOADED PNEUMATIC TIRE TANDER AXLE DUMP TRUCK CAPABLE OF TRANSFERRING A LOAD OF 10 TO 20 TONS BY OVERLAPPING PASSES. A MINIMUM OF 8 COMPLETE PASSES SHALL BE MADE WITHIN THE BUILDING AREA. PROOFROLLING SHALL BE COMPLETED UNDER THE OBSERVATION OF AN APPROVED TESTING LABORATORY SUPERVISED BY A GEOTECHNICAL ENGINEER. UNDERCUT, BACKFILL, AND COMPACT AREAS WHICH PUMP, DEFLECT, OR RUT EXCESSIVELY OR WHICH DO NOT STABILIZE AFTER SUCCESSIVE PASSES OF PROOFROLLING EQUIPMENT.
4. AFTER COMPLETION OF DENSIFICATION OF EXISTING SOILS, PLACE STRUCTURAL FILL FOR BUILDING AREA IN THIN (8" TO 10") LIFTS COMPACTED TO A MINIMUM DENSITY AS SPECIFIED FOR FOUNDATIONS. MATERIAL USED AS STRUCTURAL FILL SHALL BE NON-PLASTIC GRANULAR MATERIAL CONTAINING LESS THAN 15% FINES PASSING THROUGH THE NO. 200 SIEVE AND FREE OF ORGANICS, BOULDERS, OR OTHER DELETERIOUS MATERIALS.

FOUNDATIONS

- 1. FOUNDATION DESIGNED FOR 2000 PSF MAXIMUM ALLOWABLE SOIL BEARING PRESSURE BASED ON GEOTECHNICAL REPORT #B-073.20 PREPARED BY CSRA AND DATED AUGUST 27, 2020.
2. ALL FOUNDATION FILL SUBGRADE SOILS SHALL BE COMPACTED AS FOLLOWS. (REF. ASTM D-698)
A. 95% STANDARD PROCTOR FOR GREATER THAN 18" BELOW FINAL FILL.
B. 98% STANDARD PROCTOR FOR THE UPPER 18" BENEATH BUILDINGS AND PAVEMENTS.
3. SOILS TESTING LABORATORY SHALL CONDUCT COMPACTION TESTS IN ACCORDANCE WITH ASTM D-698. RATE OF COMPACTION SHALL BE AS FOLLOWS:
A. ONE TEST FOR EACH SPREAD FOOTING.
B. ONE TEST FOR EACH 50 LINEAR FEET OF CONTINUOUS FOOTING.
C. ONE TEST FOR EACH 1000 S.F. OF SLAB.
4. REMOVE ALL WATER SOFTENED SOILS FROM FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE. FILL REMAINING VOIDS WITH ADDITIONAL CONCRETE.
5. SUPPORT ALL BOTTOM REINFORCEMENT IN FOUNDATION WITH WHOLE CONCRETE BRICKS AT 48" O.C. MAX.
6. ALL FOOTING, PIER, AND OTHER FOUNDATION REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
7. WHERE FINISHED GRADES DIFFER ON OPPOSITE SIDES OF FOUNDATION WALLS, PROVIDE TEMPORARY BRACING. PREVENT LATERAL MOVEMENT UNTIL ALL ADJACENT FILLING, COMPACTION, FLOOR SLABS, AND FRAMING AT NEXT LEVEL OVER HAS BEEN COMPLETED.
8. UNLESS INDICATED ON FOUNDATION PLAN, VERTICAL STEPS IN FOOTINGS TO BE MAXIMUM 2'-0" VERTICAL SPACED NO LESS THAN 4'-0" O.C. HORIZONTALLY TO MAINTAIN MINIMUM 12" COVER BELOW FINISHED EARTH GRADE.
9. WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTING, STEP FOOTING DOWN TO PROVIDE CLEARANCES INDICATED ON DETAIL "WALL FOOTING DETAILS - INTERFERENCE OFFSET AT GRAVITY SEWER" UNLESS OTHERWISE SPECIFIED. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS, SIZES, AND INVERTS.
10. CONSTRUCTION JOINTS IN CONTINUOUS FOOTINGS TO BE FORMED VERTICALLY WITH MIN. 1'-6" LAPS IN HORIZONTAL REINFORCING.
11. PROVIDE 1/2" P.E.J. FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.
12. CONSTRUCTION JOINTS IN CONTINUOUS FOOTINGS TO BE FORMED VERTICALLY IN ACCORDANCE WITH FOUNDATION DETAILS IN PLANS.
13. PROVIDE 1/2" EXPANSION JOINT FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.

SLAB ON GRADE

- 1. APPLY AN APPROVED CURING COMPOUND CONFORMING TO ASTM D-109 AFTER FINISHING THE SLAB.
2. ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A1064. ADJOINING PIECES AT LEAST ONE FULL MESH OR 8" MINIMUM UNLESS OTHERWISE APPROVED, ALL WELDED WIRE FABRIC SHALL BE BLOCKED INTO POSITIONS INDICATED WITH PRECAST CONCRETE BLOCKS HAVING A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB.
3. THE USE OF POLYPROPYLENE FIBERS (INSTEAD OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
4. THE MAXIMUM SPACING OF JOINTS SHALL BE 15' OR AS SHOWN ON PLANS.
5. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL WITH 100% PASSING 1-1/2" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D-698.
6. SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS, THEN FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
8. THE FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 301, TYPE A.
9. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS.
10. CONTROL JOINT SEALANT SHALL BE SIKADUR 51 NS/SL OR APPROVED EQUAL. EXPANSION AND ISOLATION JOINT SEALANT SHALL BE SIKAFLEX 1a OR APPROVED EQUAL.

CAST-IN-PLACE REINFORCED CONCRETE

- 1. THE FOLLOWING ACI STANDARDS (LATEST EDITION) APPLY:
A. ACI 318 - CODE
B. ACI 315 - DETAILING
C. ACI 301 - SPECIFICATIONS
D. ACI 304 - PLACING
E. ACI 347 - FORMWORK
F. ACI 211.1 - MIX PROPORTIONING
G. ACI 305 - HOT WEATHER CONCRETING
H. ACI 306 - COLD WEATHER CONCRETING
2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (145 PCF) WITH MIXES DESIGN THE FOLLOWING CRITERIA:
STRUCTURAL ELEMENT 28 DAY COMPRESSIVE STRENGTH
FOOTINGS, GRADE BEAMS & FOUNDATION WALLS 3,000 PSI
SLAB ON GRADE 4,000 PSI
ELEVATED SLABS & BEAMS 4,000 PSI
COLUMNS 4,000 PSI

REINFORCING STEEL

- 1. ALL REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60, UNLESS NOTED OTHERWISE.
2. ALL WELDED WIRE FABRIC SHALL BE ASTM A1064, 70 KSI MINIMUM YIELD STRENGTH. UNLESS NOTED OTHERWISE, WELDED WIRE FABRIC SHALL BE AS FOLLOWS:
A. SLAB ON GRADE.....6X6-W2.0XW2.0
B. ELEVATED SLAB.....6X6-W2.0XW2.0
4. ADDITIONAL REINFORCING AND THAT QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENINGS AS DETAILED.
5. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTH SHOWN.
6. REINFORCING IS TO BE SUPPORTED IN FORMS AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS" UNLESS NOTED OTHERWISE.
7. WHERE REINFORCING BARS ARE NOTED AS CONTINUOUS, THE FOLLOWING REQUIREMENTS APPLY:
A. THE TERMINATION OF ALL CONTINUOUS REINFORCING BAR RUNS SHALL BE A STANDARD HOOK UNLESS NOTED OTHERWISE.
B. SPLICES IN CONTINUOUS TOP BARS SHALL OCCUR OVER PARALLEL CMU WALLS OR AT THE CENTER OF THE CLEAR SPAN.
C. SPLICES IN CONTINUOUS BOTTOM BARS SHALL OCCUR OVER PERPENDICULAR CMU WALLS OR CENTERED OVER COLUMNS.
8. MINIMUM REINFORCING STEEL CLEAR COVERS ARE AS FOLLOWS:
A. CONCRETE CAST DIRECTLY AGAINST EARTH.....3"
B. INTERIOR SLABS.....1"
C. INTERIOR BEAMS AND COLUMNS.....1 1/2"
D. EXTERIOR BEAMS AND COLUMNS.....2"
E. EXTERIOR SLABS.....1 1/2"
9. ALL REINFORCING LAP SPLICES SHALL FOLLOW THE TABLES PROVIDED BELOW:

Table with 3 columns: BAR SIZE, 8" CMU, 12" CMU. Rows for #4, #5, #6.

Table with 2 columns: BAR SIZE, LAP LENGTH. Rows for #4 through #11.

PLYWOOD / GYPBOARD SHEATHING

- 1. ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS.
2. ALL ROOF PANEL SHEATHING SHALL BE PER PLAN. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY THE USE OF PANEL CLIP OR BLOCKING BETWEEN FRAMING.
3. ALL FLOOR SHEATHING SHALL BE SINGLE & G-DOVE PER PLAN. FIELD-GLUE USING ADHESIVES MEETING APA SPECIFICATIONS AFG-11, APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. ALL WALL PANEL SHEATHING SHALL BE PER PLAN.
5. INSTALL ALL PLYWOOD SHEATHING AT FLOOR AND ROOF WITH THE LONG DIMENSIONS OF THE PANEL CROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.
6. ALL WALLS SHALL NOT BE OVERDRIVEN.
7. ALL EXTERIOR WALLS SHALL BE SHEATHED PER PLAN.
8. PROVIDE BLOCKING AT UNSUPPORTED PANEL EDGES AS FOLLOWS:
A. WALLS - FULLY BLOCKED
B. WALLS - FULLY BLOCKED
9. WHERE EITHER 2" OR 2 1/2" FASTENER SPACINGS ARE USED FOR WOOD STRUCTURAL PANELS USED AT ROOF OR FLOOR, THE FRAMING MEMBER AT THE ADJOINING PANEL SHALL BE 3" NOMINAL WIDTH AND THE NAILS AT PANEL EDGES SHALL BE STAGGERED IN TWO LINES.
10. ALL PLYWOOD AND SHEATHING SHALL BE APA RATED, BEAR THE STAMP OF AN APPROVED TESTING AGENCY, AND SHALL BE FABRICATED WITH EXTERIOR GLUE. NAILS AT ABUTTING PLYWOOD EDGES MUST PENETRATE THE SAME PIECE OF FRAMING OR BLOCKING. OPENINGS IN SHEATHING (DIAPHRAGMS):
A. PERIMETER OF ANY OPENINGS SHALL BE FASTENED AS BOUNDARY NAILING.
B. OPENINGS WITH A DIMENSION PERPENDICULAR TO THE JOISTS GREATER THAN 4'-0" SHALL BE BLOCKED BEYOND THE HEADERS, AND METAL TIES NOT LESS THAN 1/6 GAGE BY 1-1/2" WIDE WITH 8-16d COMMON NAILS ON EACH SIDE OF THE HEADER-JOIST INTERSECTION SHALL BE PROVIDED.
C. AT SHEAR WALLS OR DRAG STRUTS, THE PLYWOOD DIAPHRAGM MUST BE NAILED TO TOP PLATES, MEMBERS, BLOCKING, ETC. AS FOLLOWS:
EXTERIOR WALLS / DIAPHRAGM EDGES: 1x BOUNDARY NAILING
INTERIOR WALL LINES: 2x BOUNDARY NAILING

CONCRETE MASONRY

- 1. APPLICABLE MASONRY CODES:
A. ACI 530-13/ASCE 5-13/TMS 402-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
B. ACI 530.1-13/ASCE 6-13/TMS 602-13 SPECIFICATIONS FOR MASONRY STRUCTURES.
2. CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI.
3. ALL CELLS BELOW GRADE SHALL BE FILLED SOLID WITH GROUT OR CONCRETE.
4. MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.
5. REINFORCED WALLS, STIFFENERS, PIERS, ETC. SHALL BE FILLED IN MAXIMUM OF 4'-0" LIFTS. FILL SHALL BE MECHANICALLY MIXED (ASTM C476 COURSE) GROUT OR REGULAR WEIGHT CONCRETE (ASTM C94) WITH MAX 1/2" COARSE AGGREGATE HAVING NOT LESS THAN 3,000 PSI (MIN.) 28 DAY STRENGTH. SEE SPECIFICATIONS.
6. PLAIN END TWO CELL UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED OR FILLED. WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDDED IN MORTAR.
7. FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT CONFORMING TO ASTM C-476 SPECIFICALLY DESIGNED FOR FILLING CELLS.
8. VERTICAL REINFORCING TO BE LAPPED AS NOTED IN SCHEDULE AT DOWELS AND SPLICES (U.N.O.).
9. HORIZONTAL JOINT REINFORCING TO BE CONTINUOUS THROUGH REINFORCED CELLS.
10. PROVIDE 9 GA GALVANIZED WIRE TRUSS OR LADDER TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A82 AT 16" O.C. OR AS INDICATED ON DRAWINGS.
11. SEE ARCHITECTURAL DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.
12. WALL CONTROL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING:
A. WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY WALLS AT LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS BUT AT A SPACING NOT GREATER THAN 24'-0" O.C.
B. HORIZONTAL JOINT REINFORCING SHALL BE INTERRUPTED AT EACH SIDE OF WALL CONTROL JOINTS.
C. WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN JAMB WIDTH.
13. BLOCK LINTELS SHALL BE SPECIALLY FORMED U-BLOCK LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCEMENT AS SHOWN OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND ALL OTHER APPLIED LOADS.
14. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 8" DEEP INTERMEDIATE BOND BEAMS AT MAXIMUM 8'-0" O.C. VERTICALLY. REINFORCE WITH (2) #5 CONTINUOUS BARS OR AS NOTED ON THE PLANS. INTERRUPT AT VERTICAL CONTROL JOINTS. PROVIDE BOND BEAM AT TOP OF ALL CMU WALLS.
15. PROVIDE (2) #5x24"x24" HORIZONTAL CORNER BARS AT CHANGES AND DIRECTLY TO END OF BEAM. WHERE BOND BEAMS INTERRUPTED BY OPENINGS, HOLD 12" INTO REINFORCED JAMB.
16. UNLESS NOTED OTHERWISE, REINFORCED PIERS AT JAMBS OF OPENINGS SHALL BE DISCONTINUOUS ABOVE LINTEL BEARING EXCEPT AS FOLLOWS:
A. OPENING 4'-0" TO 8'-0": CONTINUE JAMB REINFORCING 24" ABOVE OPENING.
B. OPENING OVER 8'-0": CONTINUE JAMB REINFORCING TO TOP OF WALL.
17. ALL MASONRY WALLS SHOWN ON THESE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED VERTICAL AND LATERAL FORCES IN THE FINAL CONFIGURATION ONLY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF LATERAL SUPPORT BY CONNECTIONS AT FLOOR OR ROOF FRAMING LOCATIONS.
18. UNLESS SHOWN OTHERWISE IN WALL DETAILS, PLACE ONE VERTICAL #5 BAR IN FULLY GROUTED CELLS @ 48" O.C. MINIMUM. PROVIDE THE LENGTH OF WALLS. VERTICAL BARS TO EXTEND FROM FOOTING DOWN TO BAR SPICE TO TOP OF WALL AND SHALL PENETRATE INTO THE BOTTOM OF BOND BEAMS AT TOP OF WALL OR PARAPET 4" MINIMUM.
19. UNLESS SHOWN OTHERWISE, ONE VERTICAL #5 BAR IN A FULLY GROUTED CELL SHALL BE PLACED AT ALL CORNERS, AT THE ENDS OF WALLS, ON EACH SIDE OF DOORS AND WINDOW JAMBS, AND ON EACH SIDE OF MASONRY CONTROL JOINTS. VERTICAL BARS TO EXTEND FROM FOOTING DOWN TO BAR SPICE TO THE TOP OF WALL AND SHALL PENETRATE INTO THE BOTTOM OF BOND BEAMS AT TOP OF WALL OR PARAPET 4" MINIMUM.

SUBMITTAL AND NOTIFICATION REQUIREMENTS

- 1. SUBMITTALS:
A. SUBMITTALS REQUIRED FOR BORROW MATERIALS, CONCRETE MIX DESIGNS, SHOP DRAWINGS FOR CONCRETE REINFORCING, SHOP DRAWINGS FOR CMU REINFORCING, EMBEDDED ITEMS, ACCESSORIES, AND PRODUCT DATA, ETC. AS OUTLINED IN THE SPECIFICATIONS.
B. ALL DATA AND DRAWINGS SHALL BE SUBMITTED "CONTRACTOR APPROVED".
2. NOTIFICATIONS:
THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER:
A. WHEN EXCAVATION TO REQUIRED SUBGRADE ELEVATIONS HAVE BEEN REACHED,
B. 24 HOURS PRIOR TO SCHEDULED FILL OR BACKFILL OPERATIONS,
C. 24 HOURS PRIOR TO ANY SCHEDULED CONCRETE PLACEMENT FOR INSPECTION OF FORMWORK, REINFORCING, AND EMBEDDED ITEMS.

DIMENSIONAL LUMBER FRAMING

- 1. ALL STRUCTURAL LUMBER DESIGN SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS-2018).
2. LOCATION, NUMBER, AND DIMENSIONS OF FRAMING MEMBERS SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC. SHALL BE DETERMINED FROM ARCHITECTURAL DETAILS.
3. SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE SECTIONS, HEADER AND LINTEL LOCATIONS, AND ALL NON-STRUCTURAL FRAMING AND TRIM.
4. ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESS REQUIREMENTS OF ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE "SCHEDULE OF REQUIRED STRESS VALUES".
5. ALL STUD AND WALL FRAMING SHALL BE NO. 2 GRADE SOUTHERN YELLOW PINE (SYP). "STUD" GRADE MATERIAL IS STRICTLY PROHIBITED FROM USE.
6. ALL JOIST, RAFTER & MISC. FRAMING SHALL BE NO. 2 GRADE, SOUTHERN YELLOW PINE. PROVIDE FULL-DEPTH BLOCKING AT ENDS. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN.
7. ALL LUMBER EXPOSED TO EXTERIOR ENVIRONMENT OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 25 lbs. OF ACO PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "ABOVE GRADE USE". ALL LUMBER IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.40 lbs. OF ACO PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "GROUND CONTACT USE". REFERENCE STANDARD AWWA U1 AND ASTM D-1760 FOR PRESSURE TREATMENT OF TIMBER PRODUCTS.
8. WHERE POSSIBLE ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPB STD. 41).
9. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOAD BEARING APPLICATIONS. THE END GRAIN OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOAD BEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/4 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/4 OF THE WIDE FACE DIMENSIONS.
10. ALL WOOD JOISTS AND HEADERS WHICH FRAME INTO BEAMS SHALL BE SUPPORTED BY SIMILAR PLUS HANGERS WITH THE SAME WIDTH AND DEPTH OF THE MEMBER. U.N.O. USE HANGERS WITH CONCEALED FLANGES WHERE THE CONNECTOR CANNOT BE HIDDEN BY WOOD TRIM OR THE SUPPORT MEMBER IS WIDER THAN THE STANDARD FLANGE.
11. PROVIDE NAILING PATTERN IN COMPLIANCE WITH IBC RECOMMENDED FASTENING SCHEDULE.
12. LOAD BEARING STUD WALLS SHALL BE CONTINUOUSLY BRIDGED AT MID-HEIGHT AND UNSUPPORTED PLYWOOD WALL SHEATHING JOINTS WITH SOLID WOOD BLOCKING, U.N.O.
13. NO CUTS, HOLES, OR COPES IN STRUCTURAL WOOD FRAMING SHALL BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER AND ARCHITECT.
14. PROVIDE FULL-DEPTH BLOCKING AT ENDS OF RAFTERS AND JOISTS. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O.C. IN BETWEEN.
15. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A 36 SPECIFICATIONS AND BE 1/2" THICK UNLESS OTHERWISE INDICATED. BOLTS CONNECTING WOOD MEMBERS SHALL BE PER ASTM A 307 AND BE 3/4" DIAMETER UNLESS OTHERWISE INDICATED. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
16. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGLED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
17. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF IBC, SECTION 23.
18. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.
19. ADEQUATE BRACING SHALL BE PROVIDED UNTIL PERMANENT BRACING AND/OR DIAPHRAGMS ARE INSTALLED.
20. OVERLAP ALL TOP PLATES AT CORNERS.
21. JOINTS IN THE DOUBLE TOP PLATES OF WALLS SHALL BE OFFSET A MINIMUM LAP LENGTH OF 4'-0" & NAILED WITH NOT LESS THAN (15) 16d FACE NAILS ON EACH SIDE OF THE JOINT.
22. ALL BEAMS SHALL HAVE LATERAL SUPPORT AT THE COMPRESSION EDGE AT A MAXIMUM OF 24' O.C. AND AT BEARING POINTS, WITH A MINIMUM BEARING LENGTH OF 3 1/2'.
23. PROVIDE DOUBLE JOISTS OR SOLID BLOCKING AT 24" O.C. UNDER ALL PARTITIONS AND TO SUPPORT CONCENTRATED LOADS FROM FRAMING ABOVE, UNLESS NOTED OTHERWISE.
24. PROVIDE DOUBLE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN PLYWOOD DECK UNLESS OTHERWISE INDICATED.
25. PROVIDE DOUBLE LAYER PLYWOOD UNDER ALL CERAMIC OR STONE TILE FLOORS.
26. PROVIDE HEADERS, BRIDGING, CONNECTORS, BLOCKING, TRIMMERS, ETC. AS REQUIRED AND RECOMMENDED BY ATC TIMBER CONSTRUCTION STANDARDS AND IBC 2018 U.N.O.
27. WOOD FRAMING MATERIALS:
A. ALL DIMENSIONAL LUMBER SHALL BE #2 SYP KD OR BETTER AND PROVIDE NOT LESS THAN THE DESIGN VALUES LISTED IN TABLE 1 OF THE SOUTHERN PINE REFERENCE DESIGN VALUES BY THE SOUTHERN FORESTRY PRODUCTS ASSOCIATION DATED JUNE 1, 2013. PREFABRICATED "MICRO-LAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUSS JOIST WEYERHAEUSER" OR APPROVED EQUAL. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT THE MANUFACTURER'S APPROVAL. PRE-ENGINEERED MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES:
LVL: F/b = 2600 psi Fv = 285 psi E = 2.0 mpsi F/c = 750 psi
PSL: F/b = 2900 psi Fv = 300 psi E = 2.0 mpsi F/c = 750 psi
B. SHEATHING:
WALLS.....APA RATED SHEATHING, EXPOSURE 1 OR EXTERIOR
ROOF.....APA RATED SHEATHING, EXPOSURE 1, 2, OR EXTERIOR
FLOOR.....APA RATED STURD-I-FLOOR
C. ALL BOLTS SHALL BE ASTM A307 WITH WASHERS, GALVANIZED
D. NAILS IN ACCORDANCE WITH MINIMUM NAILING REQUIREMENTS OF IBC EXCEPT WHERE NOTED IN DETAILS OR SPECIFICATIONS. ALL NAILS TO BE GALVANIZED.

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PROJECT TITLE: SRP BRANCH BANK

Table with 4 columns: REV #, DATE, APRVD BY, REVISION. Row 1: 1, 03-19-21, ISSUED FOR PERMIT

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