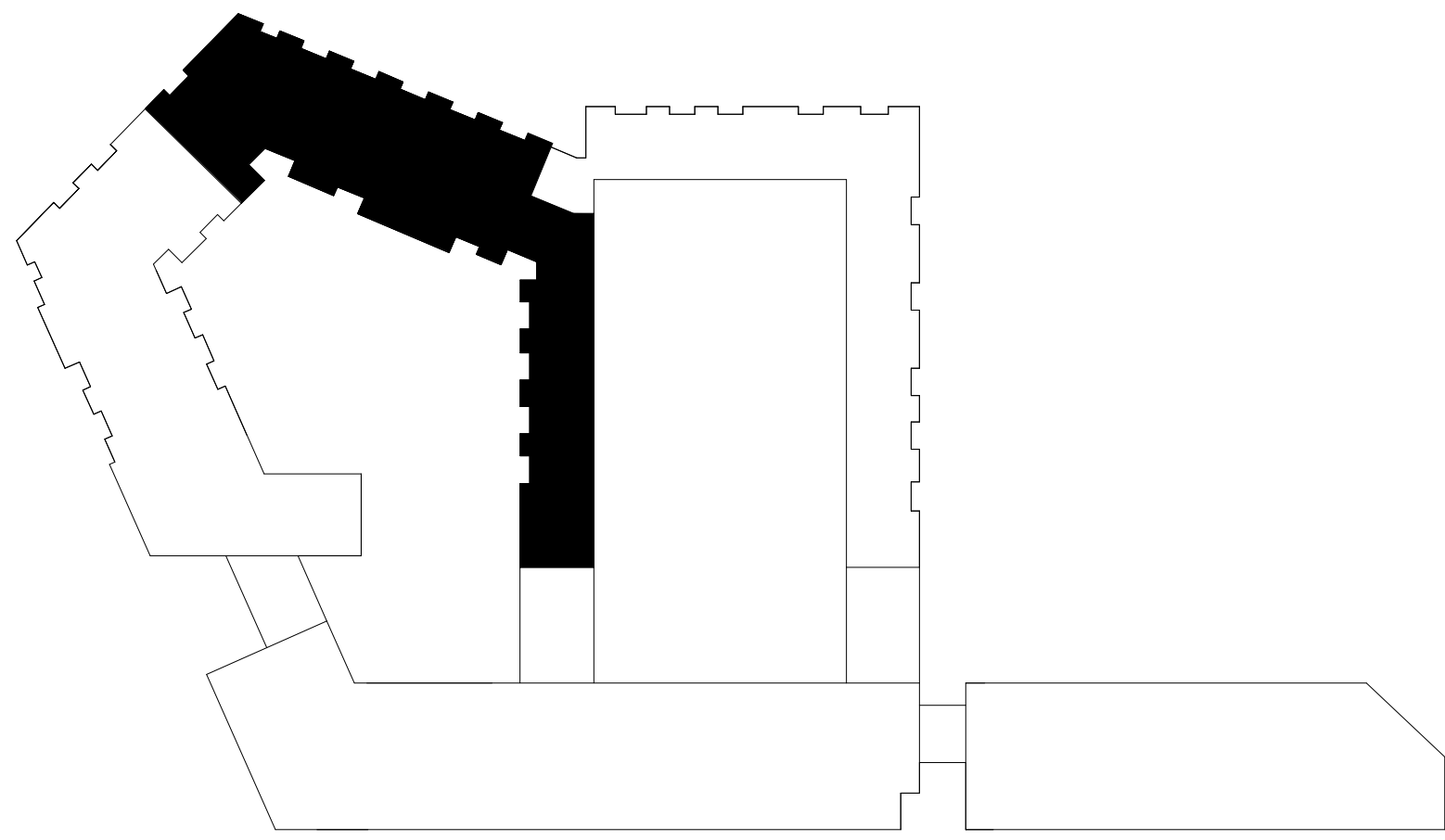


GENERAL NOTES - STRUCTURAL		STRUCTURAL SHEET LIST																															
1. General Information	A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding. B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to commencing. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding. C. All design and construction work for this project shall conform to the requirements of the following governing design codes: - International Building Code (IBC 2018) as amended by the city of Lee's Summit, Missouri - Minimum Design Loads for Buildings and Other Structures (ASCE7-16) - Specification for Structural Steel Buildings (AISC 360-16) - Member Design Basis is Allowable Stress Design (ASD) - Connection Design Basis is Allowable Stress Design (ASD) - Structural Welding Code (AWS D1.4-17) - Building Code Requirements for Structural Concrete (ACI 318-14) - Building Code Requirements for Masonry Structures (TMS 602-16) - North American Specification for the Design of Cold-Formed Steel Structural Members (AIS1500-16) - National Design Specification (NDS) for Wood Construction with 2018 Supplements (ANSI/AWC NSC-2018) - Special Design Provisions for Wind and Seismic (AWI SDPW5-2015) D. These drawings are for this specific project and no other use is authorized.	Current Revision Current Revision Date																															
2. Structural Load Design Criteria	A. Dead Load: <table> <tr> <td>Floor, Apartment</td><td>= 35 psf</td></tr> <tr> <td>Floor, Balcony</td><td>= 15 psf</td></tr> <tr> <td>Floor, Corridor (Above Podium)</td><td>= 25 psf</td></tr> <tr> <td>Garage Collateral</td><td>= 5 psf</td></tr> <tr> <td>Stair, Metal Pan</td><td>= 25 psf</td></tr> <tr> <td>Stair, Wood</td><td>= 25 psf</td></tr> </table> B. Live Load: <table> <tr> <td>Floor, Apartment</td><td>= 40 psf</td></tr> <tr> <td>Floor, Balcony</td><td>= 60 psf</td></tr> <tr> <td>Floor, Corridor (Serving Apartment)</td><td>= 40 psf</td></tr> <tr> <td>Floor, Corridor (Serving Public)</td><td>= 100 psf</td></tr> <tr> <td>Floor, Public (Clubhouse)</td><td>= 100 psf</td></tr> <tr> <td>Floor, Storage</td><td>= 125 psf</td></tr> <tr> <td>Garage</td><td>= 40 psf</td></tr> <tr> <td>Roof, MEP Equipment Zone</td><td>= 45 psf</td></tr> <tr> <td>Stair</td><td>= 100 psf</td></tr> </table> C. Snow: $P_s = 20psf, C_e = 1.0$ $P_f = 14 psf (Apf) \& 16.8 psf (Garage), P_m = 20 psf$ $S = 1.0, C_s = 1.0, C_t = 1.0 (Apf) \& 1.2 (Garage)$ Drift & unbalanced snow loads per ASCE/SEI 7-16 D. Lateral Loads: - Wind (V_{ult}) = 109 mph, exposure C, $I_w = 1.0$ $G_{Cp1} = +0.8$ Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7-16. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable - Seismic: $S_s = 0.099, S_1 = 0.068, I_e = 1.0$ Site Classification: D Seismic Design Category: B Basic Seismic Force-resisting System: A1 Podium: A.2 - Ordinary Reinforced Concrete Shear Walls $R = 4, \Omega_{max} = 2.12, C_d = 2.12, V = 0.053W$ A1 Apartments Above Podium: A.17 - Light-Framed Walls with Shear Panels of All Other Materials $R = 2, \Omega_{max} = 2.12, C_d = 2.12, V = 0.053W$ A1 Precast Garage: A.6 - Ordinary Precast Shear Walls (NS Direction) $R = 3, \Omega_{max} = 2.12, C_d = 3.3, V = 0.033W$ B.9 - Ordinary Precast Shear Walls (EW Direction) $R = 4, \Omega_{max} = 2.12, C_d = 4.4, V = 0.026W$ E. This project is designed to resist the most adverse effects resulting from the load combinations of section 1605.3 of the International Building Code.	Floor, Apartment	= 35 psf	Floor, Balcony	= 15 psf	Floor, Corridor (Above Podium)	= 25 psf	Garage Collateral	= 5 psf	Stair, Metal Pan	= 25 psf	Stair, Wood	= 25 psf	Floor, Apartment	= 40 psf	Floor, Balcony	= 60 psf	Floor, Corridor (Serving Apartment)	= 40 psf	Floor, Corridor (Serving Public)	= 100 psf	Floor, Public (Clubhouse)	= 100 psf	Floor, Storage	= 125 psf	Garage	= 40 psf	Roof, MEP Equipment Zone	= 45 psf	Stair	= 100 psf		
Floor, Apartment	= 35 psf																																
Floor, Balcony	= 15 psf																																
Floor, Corridor (Above Podium)	= 25 psf																																
Garage Collateral	= 5 psf																																
Stair, Metal Pan	= 25 psf																																
Stair, Wood	= 25 psf																																
Floor, Apartment	= 40 psf																																
Floor, Balcony	= 60 psf																																
Floor, Corridor (Serving Apartment)	= 40 psf																																
Floor, Corridor (Serving Public)	= 100 psf																																
Floor, Public (Clubhouse)	= 100 psf																																
Floor, Storage	= 125 psf																																
Garage	= 40 psf																																
Roof, MEP Equipment Zone	= 45 psf																																
Stair	= 100 psf																																
3. Concrete	A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. B. All concrete for interior floorwork (without floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawings shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). C. All concrete for interior floorwork (with floor covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). D. All concrete for exterior floorwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5.40 gallons of water per 100 pounds of cement, with 0% +/- 1% air entrainment, and a maximum of 4 inches of slump. E. All concrete for columns shall develop a minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump. F. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability. G. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced. H. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this grading data with the concrete mix design shop drawings. I. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be labeled and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendations prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior corners, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over and draining granular material as prescribed by the project soils report. J. Basement foundation walls shall be braced at the base and top of wall by the contractor until the slab on grade at the base and the floor framing/slab at the top of wall is complete and the concrete has achieved 75% of the design strength. The contractor is responsible for engineering and design of the wall bracing, if required. K. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions. L. Control joints in dirt formed slab shall be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel size ratio shall not exceed 1 1/2 to 1. M. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement. N. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2- #5 x 4" horizontal keys at construction joints for shear transfer. O. No aluminum items shall be embedded in any concrete.																																
4. Reinforcing Steel	A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185. B. Clear minimum coverage of concrete over reinforcing steel shall be as follows: - Concrete placed against earth: 3" - Formed concrete against earth: 2" - Slabs: 2" - Beams or Columns: 1-1/2" - Other: 2" C. All coverage shall be nominal bar diameter minimum. D. All dowels shall be the same size and spacing as adjoining main bars (splice tab 48 bar diameters or 24" minimum unless noted otherwise). E. At corners of all walls, beams, and grade beams supply corner bars (minimum 2-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3- #4 vertical support bars for corner bars. F. Bars are marked continuous and all vertical steel shall be lapped 48 bar diameters (2-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless detailed otherwise. G. At all corners in concrete walls and slabs, add 2- #6 bars (opening dimension plus 96 diameters long) at each of four sides and add 2- #5 x 4" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1- #5 instead of 2- #5, respectively. H. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base wall stoplap at joints: 72" (by Greenstick Inc. or approved equal) on drift face side of wall at all walls below grade.																																
5. Structural Steel	A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A501, grade C. Fabrication shall be in accordance with AISC 305-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual. B. All welding shall conform to the recommendations of the AWS. C. All exterior steel and connections, and brack relief angles shall be hot-dip galvanized. D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, $V_u/\Omega_{tension}$, shown in the maximum total uniform load tables, whichever is greater, and shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, stiffener/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of the contractor. At braced frames washers shall be welded all around the column base plate with 3/16" fillet weld. E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor. At braced frames washers shall be welded all around the column base plate with 3/16" fillet weld. F. Allow 2 tons structural steel to be used as directed in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous galvanized angle and plate.																																
6. Post Installed Anchors	A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specific products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements. B. Mechanical anchors used in cracked and/or uncracked concrete shall have been tested and qualified for use in accordance with ACI 308.2 and ICC-ES AC108. All anchors shall be installed per the anchor manufacturer's written instructions. C. Adhesive anchors used in cracked and/or uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC508 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.																																
7. Foundations	A. The soil investigation was prepared by Terracon, the report number is 02215169 and the telephone number is 913-492-7777. B. Structural foundations consist of a network of straight shaft auger pressure grouted piles established on moderately weathered shale capable of safely supporting 40sf and spread. Each pile shall penetrate 5'-0" minimum into the moderately weathered shale. Bearing footing and shallow foundations for ancillary structures are designed to bear on engineered fill or undisturbed soil capable of safely supporting 1,500 psf. C. Retaining walls are designed for an active lateral load of 60 pcq equivalent fluid pressure. D. Basement walls are designed for an at rest lateral load of 70 pcq equivalent fluid pressure. See General Note 3.1 for wall bracing requirement. E. Contractor shall provide for dewatering at excavations from either surface water or seepage. F. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense. G. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled. H. All concrete in soils beneath building locations should not be allowed to change after grading excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.																																
8. Drilled Auger Pressure-Grouted Piers	A. Piers not otherwise indicated shall be 30" diameter. B. All piers shall have (4) #7@4'-0" hooked dowels unless otherwise indicated. C. Pier dowels shall extend 40 diameters above top of pier. Drilling dowels into concrete after initial set is not allowed. D. Refer to the specifications (sections for excavation and concrete) for other detailed requirements. E. Pier concrete to have 6" slump.																																
9. Concrete Masonry Units	A. Concrete block used in exterior walls and load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2600 psi and laid up using type N mortar such that f_m equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, all using type "S" mortar and grouted solid. B. The contractor shall provide adequate temporary bracing for all masonry walls during construction. C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing). D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss type per specification and continuous between brick and block, as prescribed by the architectural drawings. E. Concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls: - Vertical reinforcing shall be a minimum of 1- #4 bar in 6" and 8" walls and 2- #4 bars in 10" and 12" walls at 4'-0" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters or 24" minimum. - Horizontal reinforcing: A. Horizontal joint reinforcing as noted above. B. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2-0" or 40 bar diameters in each direction). - For grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size. - Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the walls and with 1" air space or compressible material and support per architectural detail. - Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joint shall be placed at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints. - Lintels over all openings up to 8'-0" wide in new and existing masonry walls that are otherwise covered shall be one 6x3 1/2x16" angle for each 4" width of masonry. All exterior lintels to be galvanized. - Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing (unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.																																
10. Light Gauge Metal Structural Framing	A. All load bearing, light gauge structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum. B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi. C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Steel Structural Members." D. All framing components shall be cut and formed at 90 degree angles to fit squarely against adjoining members. Splicing of axially loaded members is not permitted. All members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted. E. Tracks shall be securely anchored from floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown by the plans. F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.																																
11. Timber and Wood Framing	A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2018 International Building Code. B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 800 psi minimum and an elastic modulus of 1,600,000psi unless noted otherwise. All joist, truss members, and headers to be No. 2 grade (min) unless otherwise specified. All exterior decks and balconies shall be treated Southern Yellow Pine No. 2 grade. C. Bridging of stud bearing walls and shear walls shall be solid, matching sheathing joints. D. Joist blocking and/or bridging shall be solid bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0". E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2504.9.1 of the 2018 International Building Code. Floor sheathing shall be APA rated tongue and groove Stud-Joist-Floor, exposure 1, glued and nailed with 10d nails or 10 screws at 12" on center. Sheathing of shear walls or roof diaphragms shall be edge nailed with 5d common nails at 12" on center and nailed to intermediate framing or other blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings. F. All plates shall be bolted to concrete slabs with 1/2" diameter bolts at 32" on center (LNU, re: shearwall schedule.) Provide plate washers at all plate anchors for shearwalls per shearwall schedule. Plates in direct contact with concrete or masonry shall be preservative-treated. G. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design, provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to LUS for wood application and "LB" for steel weld-on application. Roof truss ties shall be equal to "H2C5A" and tie the truss to the top plate (provide (2) "H2C5A" diagonally across from each other when uplift load shown in truss shop submittal exceeds 600lbs). Roof girder ties shall be equal to "LGT2", "LGT3" or "LGT4" (as dependent on number of plies) and tie the truss girder to the top plate. Provide "H2C5A" at the top of each stud to top track when the top track has roof truss attached. H. Service condition - dry with moisture content at or below 19% in service. I. Laminated strand lumber (LSL) shall have an allowable flexural stress (F_b) of 1,700 psi (reduced by size factor) and an elastic modulus (E) of 1,300,000 psi. J. Laminated veneer lumber (LVL) shall have an allowable flexural stress (F_b) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. K. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (F_b) of 2,900 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. ($E = 2,200,000$ psi for members > 18"). L. Glulams shall be 24F-V8 or better with an allowable flexural stress (F_b) of 2,400 psi and an elastic modulus (E) of 1,800,000 psi. Glulam members shall be preservative-treated. M. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-1 latest edition). Trusses shall be designed by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code. N. Truss shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect/engineer for review prior to fabrication and/or erection. Calculations and layout shall bear the seal of a professional engineer, registered in the state of the project location. Layout plan shall include truss locations, spacing and all hanger designations used to support trusses to beams or other trusses. Calculations shall indicate max reactions in all directions, number of plies for the truss and dead, live and total load deflections along with a list of key of all standard and non-standard utilized load combination. Shop drawings shall also be submitted to the local governing authority where requested by that agency. O. All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for bracing of wood trusses. P. The truss manufacturer shall supply all hardware and fasteners for joining trusses together and fastening truss members to the supporting structure. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gage minimum. Connector plates shall meet or exceed ASTM A663, grade 33, with ASTM A563 coating designation. Q. Provide truss space directly above and centered over HVAC conduits. Refer to Architectural and MEP drawings for exact locations. R. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted. S. Pre-Engineered Floor Trusses: <table> <tr> <td>Top Chord Dead Load</td><td>= 30 psf</td></tr> <tr> <td>Top Chord Live Load</td><td>= 1 Per General Note 5B</td></tr> <tr> <td>Bottom Chord Dead Load</td><td>= 10 psf</td></tr> <tr> <td>Live Load Deflection</td><td>= L/800; (1/2" max)</td></tr> <tr> <td>Total Load Deflection</td><td>= L/500</td></tr> </table> T. Roof Truss Design Criteria: <table> <tr> <td>Top Chord Dead Load</td><td>= 15 psf (Top Roof)</td></tr> <tr> <td>Top Chord Live Load</td><td>= 20 psf (Plus Roofing Equipment)</td></tr> <tr> <td>Top Chord Snow Load</td><td>= 20 psf or 14 psf plus drift</td></tr> <tr> <td>Bottom Chord Dead Load</td><td>= 10 psf</td></tr> <tr> <td>Bottom Chord Live Load</td><td>= 10 psf</td></tr> <tr> <td>Live Load Deflection</td><td>= L/800</td></tr> </table> U. Roof trusses shall be designed per IRC 2018 for net uplift resulting from wind loading as calculated using components and cladding loading. Top and bottom chord dead load used in combination with wind uplift shall be 5psf for each chord. V. Connection bracing shall be provided by the contractor as required to keep the building and studs plumb. W. Structural members shall not be cut for pipes, etc., unless specifically detailed. Nothing and nothing of studs and top of plates shall conform to the provisions of section 2308.9.10 and 2308.9.11 of the IBC. Where top plates or plate slates are cut for pipes, a metal tension tie with minimum 0.058 inches thick and 1 1/2" inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 16d nails, in accordance with section 2308.9.8 of the IBC. X. All fasteners for wood to wood connections and wood connections shall be as indicated in structural drawings or manufacturer literature or approved full capacity of connector. Alternate fasteners may be submitted as a substitution request. Submittal must show that alternative fasteners will not reduce the capacity of the connection.	Top Chord Dead Load	= 30 psf	Top Chord Live Load	= 1 Per General Note 5B	Bottom Chord Dead Load	= 10 psf	Live Load Deflection	= L/800; (1/2" max)	Total Load Deflection	= L/500	Top Chord Dead Load	= 15 psf (Top Roof)	Top Chord Live Load	= 20 psf (Plus Roofing Equipment)	Top Chord Snow Load	= 20 psf or 14 psf plus drift	Bottom Chord Dead Load	= 10 psf	Bottom Chord Live Load	= 10 psf	Live Load Deflection	= L/800										
Top Chord Dead Load	= 30 psf																																
Top Chord Live Load	= 1 Per General Note 5B																																
Bottom Chord Dead Load	= 10 psf																																
Live Load Deflection	= L/800; (1/2" max)																																
Total Load Deflection	= L/500																																
Top Chord Dead Load	= 15 psf (Top Roof)																																
Top Chord Live Load	= 20 psf (Plus Roofing Equipment)																																
Top Chord Snow Load	= 20 psf or 14 psf plus drift																																
Bottom Chord Dead Load	= 10 psf																																
Bottom Chord Live Load	= 10 psf																																
Live Load Deflection	= L/800																																
12. Precast Concrete Members	A. The contractor/supplier is responsible for the design of all the precast members and connection between them and other structural members. Submit design calculations, sealed by an engineer licensed in the state of the project location, for review by the architect/engineer of record, who shall be the sole responsibility of the agency. B. All precast members are to be designed in accordance with ACI 318-11, 2012 IBC and other applicable codes, standards (see specs) and design criteria shown on design documents. C. Precast concrete members shall conform to the 2012 IBC for the required fire ratings (refer to architects documents). D. All wall panels should be designed for building wind loads, seismic loads, gravity loads, and transmit these loads to the foundation through properly designed connections. E. Provide blockouts and openings for mechanical/electrical equipment. Refer to mechanical/electrical drawings. F. Shop drawings shall be complete and shall include a layout plan, fabrication details, estimated camber, connection and anchorage details and member identification marks. Identification marks shall appear on manufactured units to facilitate correct field placement.																																
13. Deferred Submittal and Shop Drawing	A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc. B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred submittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official. C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall: - Review each submittal for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC. - Stamp each submittal as approved. D. Bob D. Campbell and Company, Inc. shall assume that no submittal comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation. E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submittal has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submittals without GC approval. F. Shop drawings and related material (if any) required are indicated below: Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC. - Concrete mix designs and material certificates including admixtures and test reports applied to the concrete. - Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities. - Elevation of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing. - Groat mix designs (for CMU). - Construction detail of joint plans and/or elevations. - Structural steel shop drawings including erection drawings and piece details. Include joint, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review. - Deferred Submittal: Railings and guardrails with sealed calculations - Deferred Submittal: Metal stair framing with sealed calculations - Deferred Submittal: Exterior cold-formed metal framing - Deferred Submittal: Exterior curtain wall - Deferred Submittal: All other items requiring connection design calculations submitted concurrently with structural steel shop drawings. - Miscellaneous anchors shown on the structural drawings. - Deferred Submittal: Welded truss design calculations and detailed erection and fabrication drawings. Standard steel framing shop drawings need not be submitted. - Standard details and bridging information for light gauge metal framing. - Erection plans and details for light gauge metal framing shall be as shown by the spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted. - Deferred Submittal: Augered pile foundation plans and details. - Deferred Submittal: Precast concrete shop drawings including erection drawings and connection details. - Deferred Submittal: Cold concrete connection design calculations. - Deferred Submittal: Cold-Formed metal framing for exterior walls.																																
14. Statement of Structural Special Inspections	A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections. B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person. C. All inspection reports shall be brought to the immediate attention of the building official for correction, then, if uncorrected, to the proper design authority, contractor and structural engineer. D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code. E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide the inspector with all information when items requiring inspection are ready to be inspected and provide access for those inspections. - Shop Fabrication - structural steel per Section 1704.2.5 unless AISC certified - Shop Fabrication - pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop - Shop Fabrication - precast concrete per Section 1704.2.5 unless PC certified shop - Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360) - Concrete Construction per Section 1705.3 and Table 1705.3 - Reinforcing Steel Placement - Reinforcing Steel Welding - Cast in Place Anchors - Post Installed Anchors - Design Mix Verification - Concrete Sampling and Testing - Concrete Placement - Concrete Curing - Prestressed Concrete Stressing and Grouting - Erection of Precast - Verification of In-Situ Concrete Strength Prior to Stressing Post-Tensioned Concrete - Formwork Shape, Location and Dimensions - Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI308/ASCE5 and TMS602/AS301/ASCE5 Level B - Verification of Soils per Table 1705.6 - Inspection and Tests of Cation-Pile Deep Foundation per Table 1705.8 - Wood Lateral System (periodic) - Wood sheathings (include sheathing, rim board and bottom plate attachments) - Portal frames - Shear wall and portal frame holdowns - Shear wall tension rod system - Wood Gravity Framing and Placement (adjust frequency of random sampling where indicated as required) - Heavy timber/SC/Lglulam beams and supports (periodic) - Headers and jamps (random sampling) - Bearing walls (random sampling) - Connector/hardware installation (random sampling) - Floor and roof trusses (random sampling)																																
15. Copyright and Disclaimer	A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and Company, Inc. These drawings may not be photographed, traced, or copied in any manner without the written permission of Bob D. Campbell and Company, Inc. Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose in any manner. B. I, Christopher A. Beverlin, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of the state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose names and signed statements may appear elsewhere in the construction document package.																																
STRUCTURAL ABBREVIATIONS																																	
@	AT	FLR	FLOOR	PERP	PERPENDICULAR																												
&	AND	FS	FAR SIDE	PLATE																													
ROUND	ROUND, DIAMETER	FTG	FOOTING	P/LF	POUNDS PER LINEAR FOOT																												
ADTL	ADDITIONAL	FV	FIELD VERIFY	PJF	PORTAL JOINT PENETRATION																												
ADT	ADDITIONAL	GEN	GENERAL	P/SP	POUNDS PER SQUARE INCH																												
AL	ALTERNATE	GRM	GRADE BEAM	PSI	POUNDS PER SQUARE INCH																												
ARCH	ARCHITECTURAL	HORIZ	HORIZONTAL	QTY	QUANTITY																												
BLOG	BOTTOM OF	INT	INTERIOR	RAD	RADIUS																												
BM	BOTTOM OF	REIN	REINFORCEMENT	RD-#	ROOF DECK TYPE																												
BT	BOTTOM	REF	REFERENCE	REF	REFERENCE																												
BRG	BEARING	REV	REVISION	RL	ROOF LIVE LOAD																												
CD-#	CAMBER	RTU	ROOF TOP UNIT	SC	SCHEDULED																												
CJ	CONSTRUCTION/CONTROL JOINT	SC	SCHEDULED	SECT	SECTION																												
CJP	CENTER JOINT PENETRATION	SI	SIMILAR	SEM	SEMI																												
CMU	CONCRETE MASONRY UNIT	SS	SUPPORT	SL	SLAB																												
CONC	CONCRETE	STD	STANDARD	SLAB-ON-GRADE																													
CONN	CONNECTION	SV	SEVERE	SLAB-ON-GRADE TYPE																													
COORD	COORDINATE	SOG	SLAB-ON-GRADE	SOG-#	SLAB-ON-GRADE TYPE																												
COV	COVER	SPC	SPECIFICATION	SPR	SPRINKLER																												
DET	DETAIL	ST	STEEL	STIRR	STIRRUP																												
DIA	DIAMETER	STR	STRUCTURE, STRUCTURAL	STR	STRUCTURE																												
DM	DIMENSION	TOP	TOP OF	THRU	THROUGH																												
DEAD	DEAD LOAD	TOS	TOP OF STEEL, TOP OF SLAB	TRANS	TRANSVERSE </td																												
DWG	DRAWING	TRANS	TRANSVERSE </td <td>UNO</td> <td>UNLESS NOTED OTHERWISE</td>	UNO	UNLESS NOTED OTHERWISE																												
EACH	EACH FACE	W	W/	W	W/																												
EF	EACH FACE	W/	W/	W/	W/																												
EXP	EXPANSION JOINT	W/	W/	W/	W/																												
ELEV	ELEVATION	W/	W/	W/	W/																												
EMB	EMBEDMENT, EMBEDDED	W/	W/	W/	W/																												
ENGR	ENGINEER	W/	W/	W/	W/																												
EDGE	EDGE OF DECK	W/	W/	W/	W/																												
EOR	ENGINEER OF RECORD	W/	W/	W/	W/																												
EOS	EDGE OF SLAB	W/	W/	W/	W/																												
EQUA	EQUAL	W/	W/	W/	W/																												
EQUIP	EQUIPMENT	W/	W/	W/	W/																												
EXT	EACH WAY	W/	W/	W/	W/																												
EXT	EXPANSION	W/	W/																														

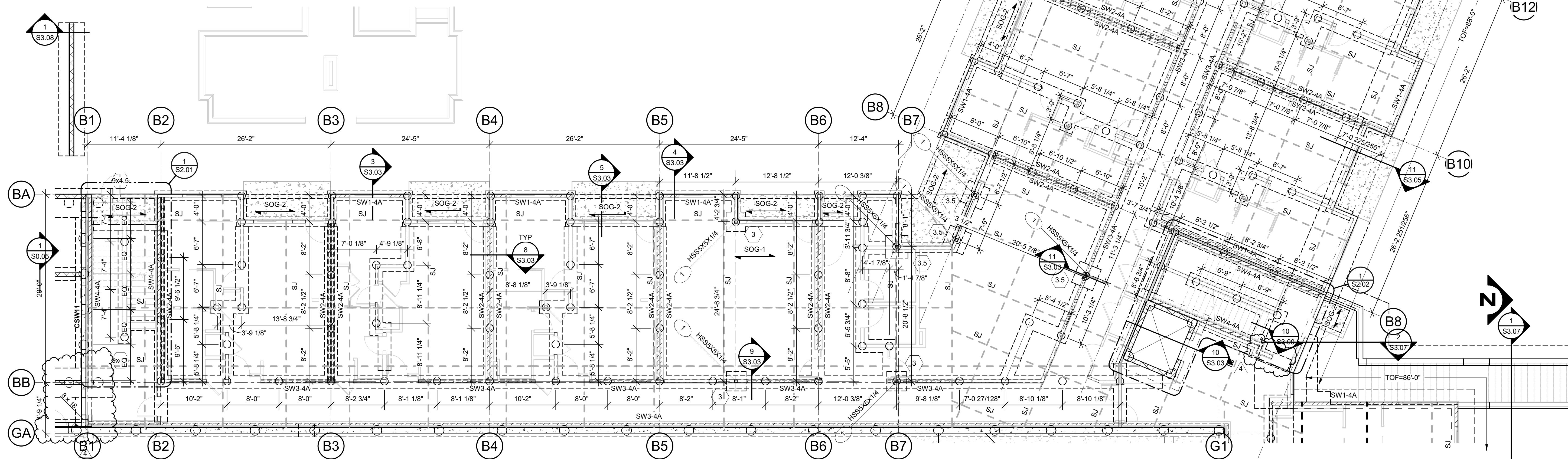


1 BUILDING B FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02.
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0" UNO
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.



PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08

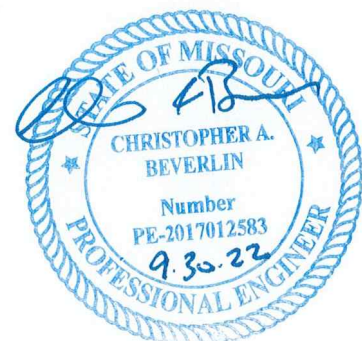
Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE-WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

PLUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR BRINKMANN
CONSTRUCTORS

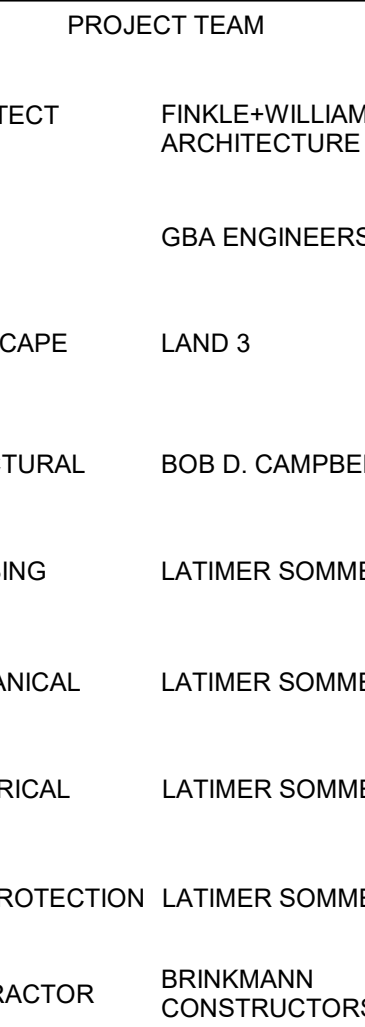
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

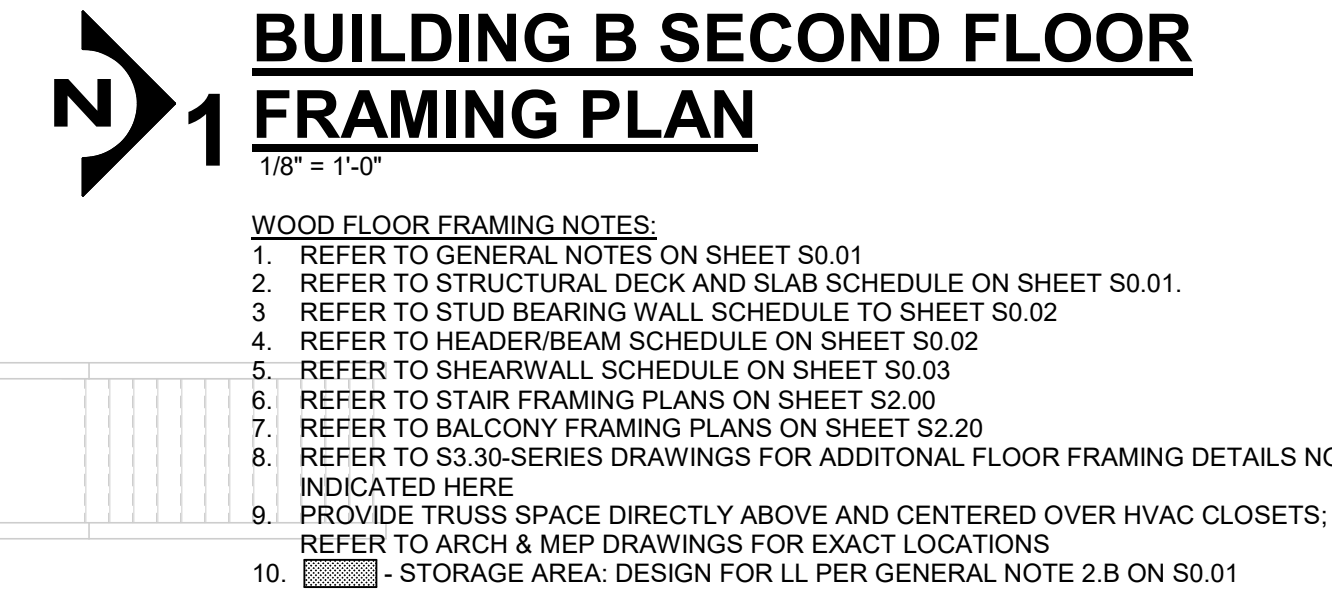
**BUILDING B
FOUNDATION
PLAN**

SHEET NUMBER

S1.21B



S1.22B





3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08

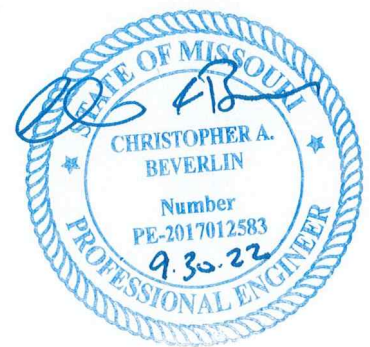
Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

PLUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR
CONSTRUCTORS

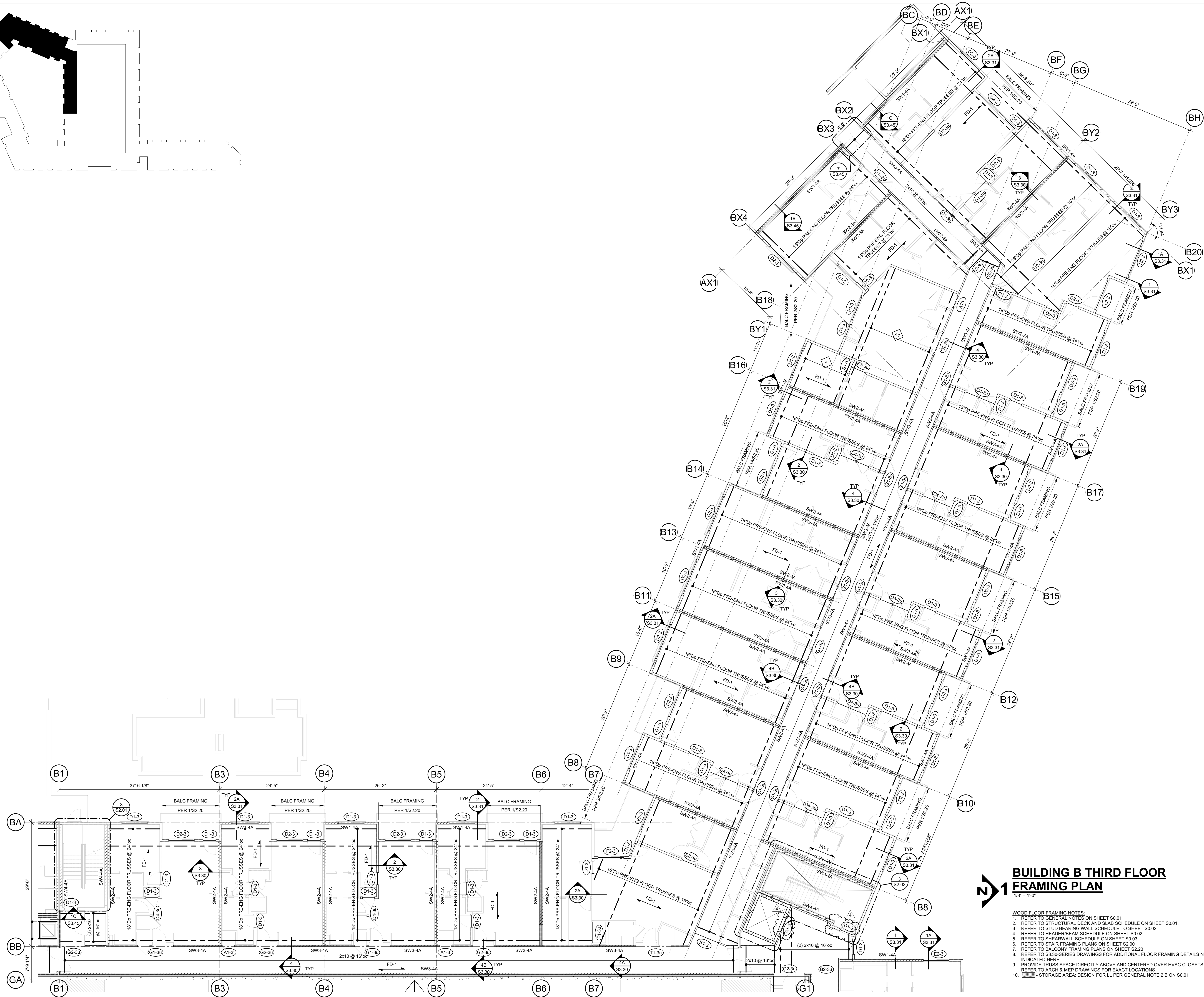
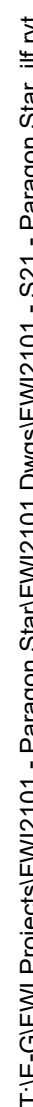
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

BUILDING B THIRD
FLOOR FRAMING
PLAN

SHEET NUMBER

S1.23B





3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08

Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D.

PLUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR
CONSTRUCTORS

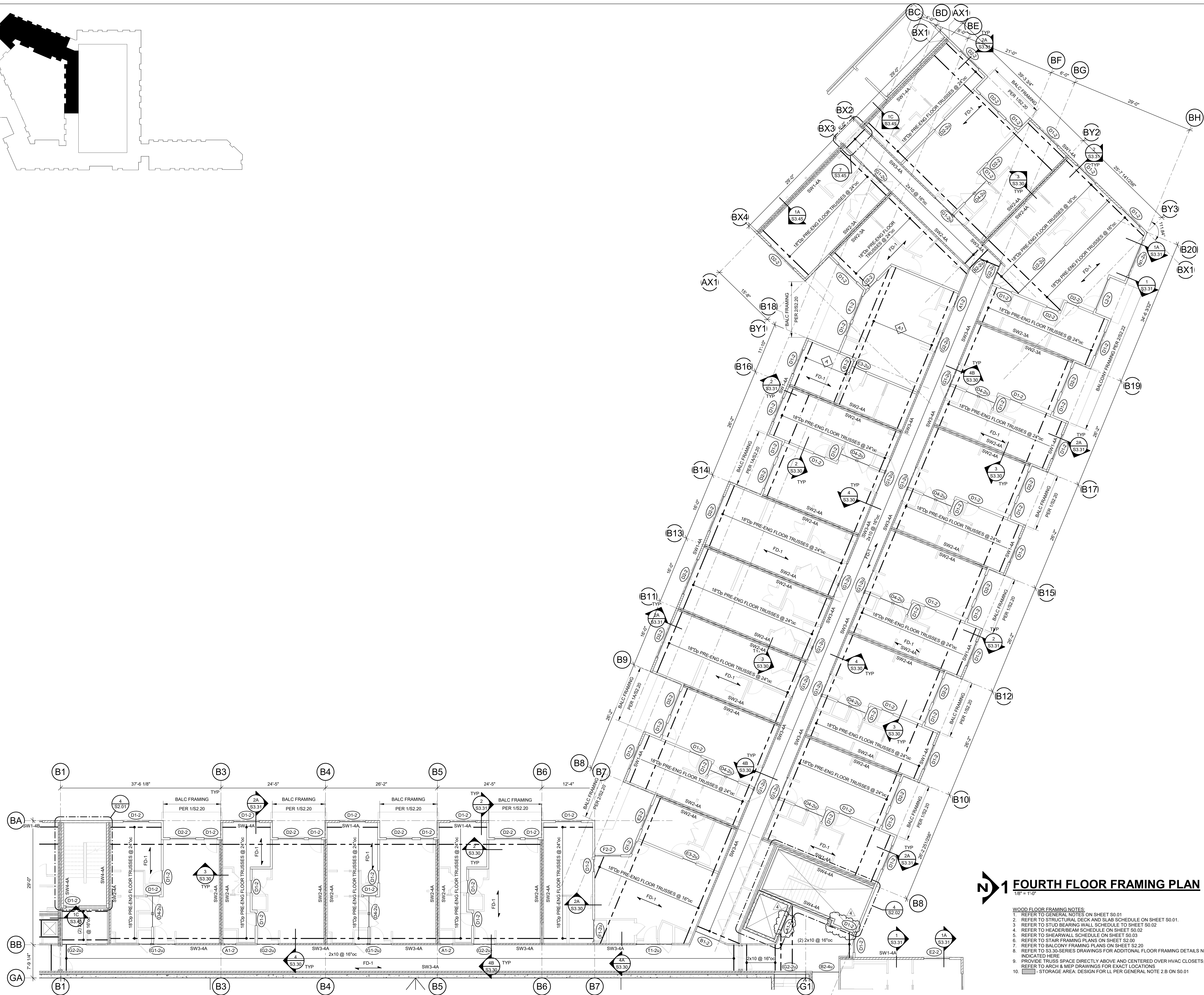
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

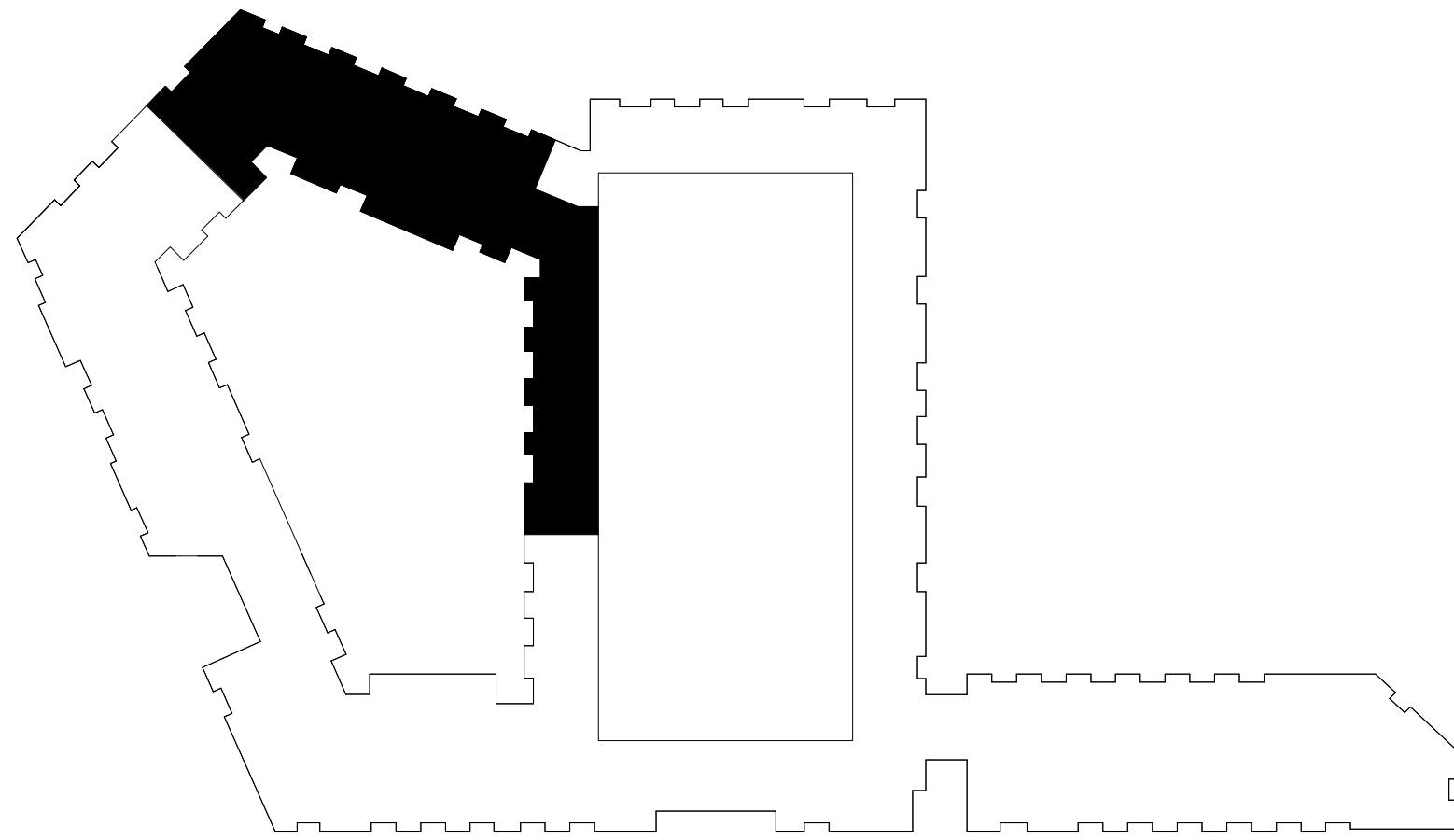
BUILDING B
FOURTH FLOOR
FRAMING PLAN

SHEET NUMBER

S1.24B



T:\E-G\FW Projects\FW\2101 - Paragon Star\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star.dwg



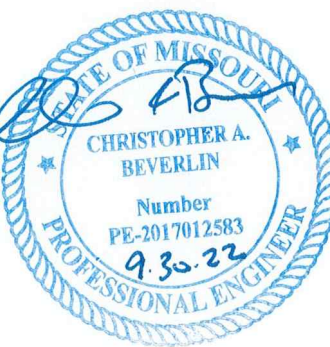
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

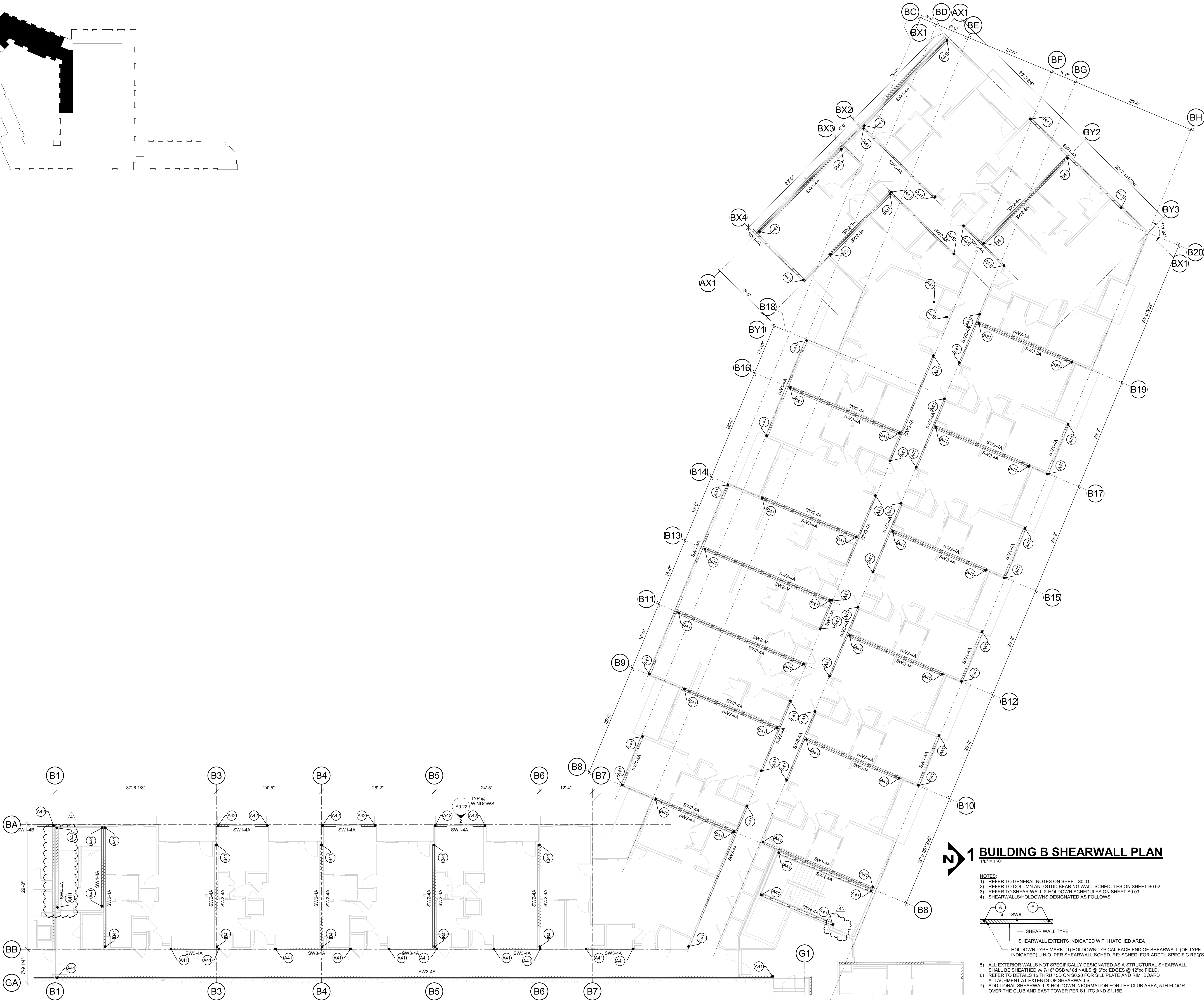
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

BUILDING B
SHEARWALL PLAN

SHEET NUMBER

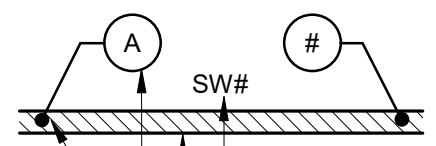
S1.26B



1 BUILDING B SHEARWALL PLAN
1/8" = 1'-0"

NOTES:

- 1) REFER TO GENERAL NOTES ON SHEET S0.01.
- 2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
- 3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
- 4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:

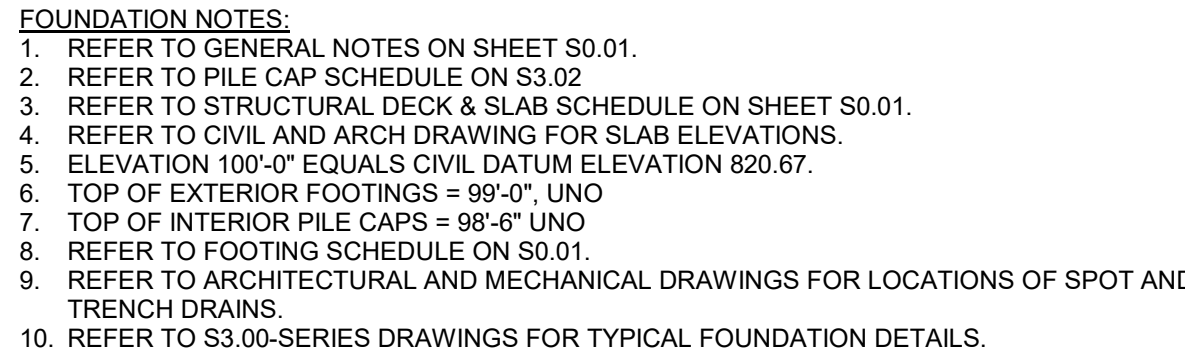
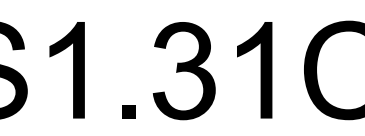


SHEARWALL TYPE

SHEARWALL EXTENTS INDICATED WITH HATCHED AREA

HOLDOWN TYPE MARK: (1) HOLDOWN TYPICAL EACH END OF SHEARWALL (OF TYPE INDICATED UNLESS OTHERWISE SCHEDULED FOR ADDITIONAL SPECIFIC REQ'S)

- 5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED W/ 7/16" OSB W/ 8d NAILS @ 6" ON EDGES @ 12" IN FIELD.
- 6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
- 7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E.





00 NW PARAGON PKWY
E'S SUMMIT, MO 64081

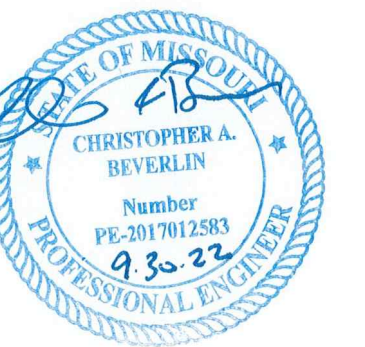
No.: 18017,19050.07,19050.0

06.28.2022

For: FOR CONSTRUCTION

[illegible]

REGISTRATION



PROJECT TEAM

TECT	FINKLE-WILLIAM ARCHITECTURE	GBA ENGINEERS
CAPE	LAND 3	
TURAL	BOB D. CAMPBELL	
ING	LATIMER SOMMER	
MINICAL	LATIMER SOMMER	
IRICAL	LATIMER SOMMER	
PROTECTION	LATIMER SOMMER	
FACTOR	BRINKMANN CONSTRUCTORS	

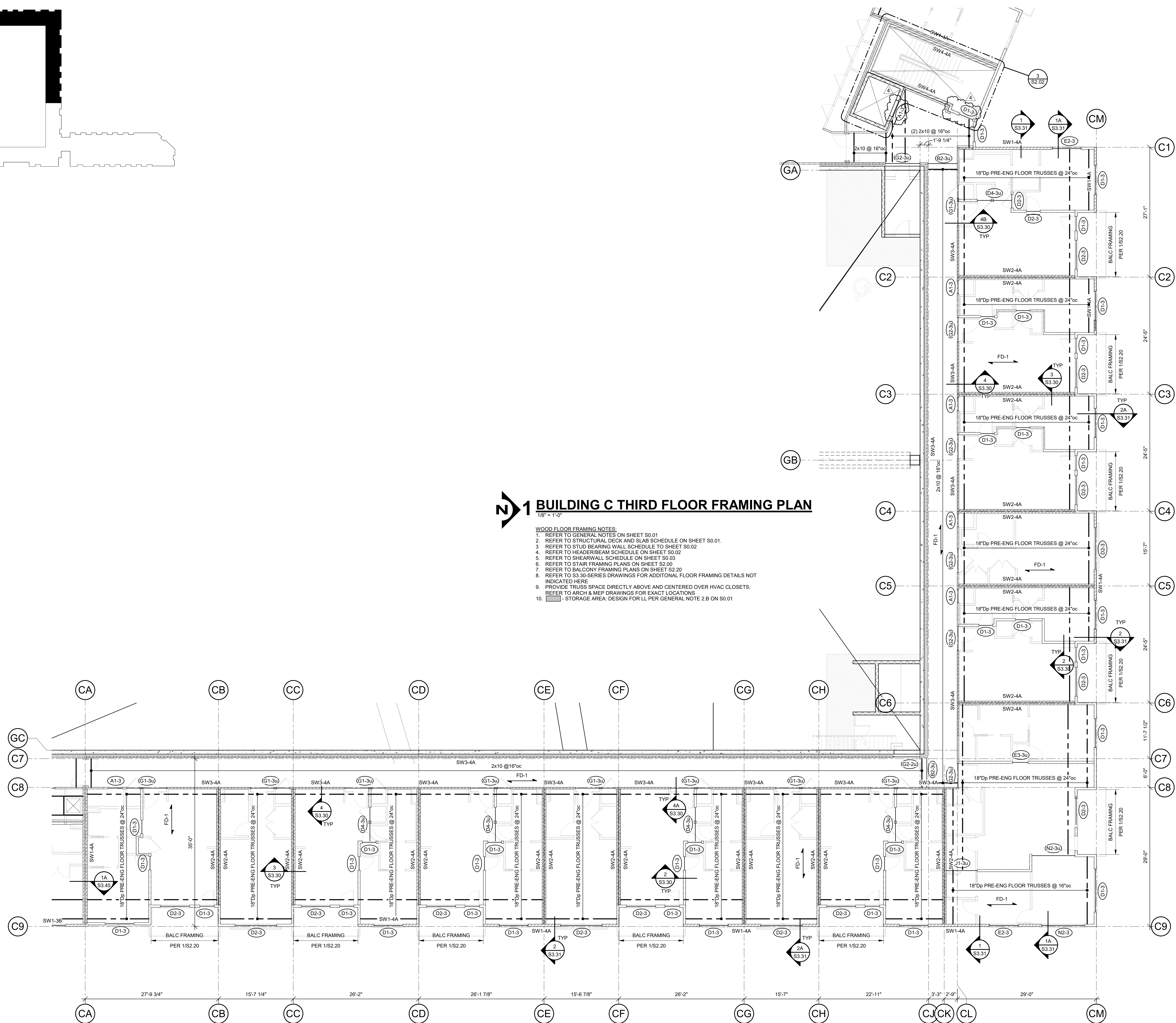
BOB D. CAMPBELL & CO. Since 1957
Structural Engineers
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

MEET TITLE

BUILDING C THIRD FLOOR FRAMING PLAN

ET NUMBER

S1.33C



T:\E-G\FW Projects\FW\2101 - Paragon Star\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star.dwg



3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08

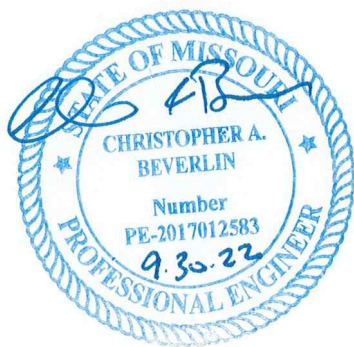
Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. ...

PLUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR BRINKMANN
CONSTRUCTORS

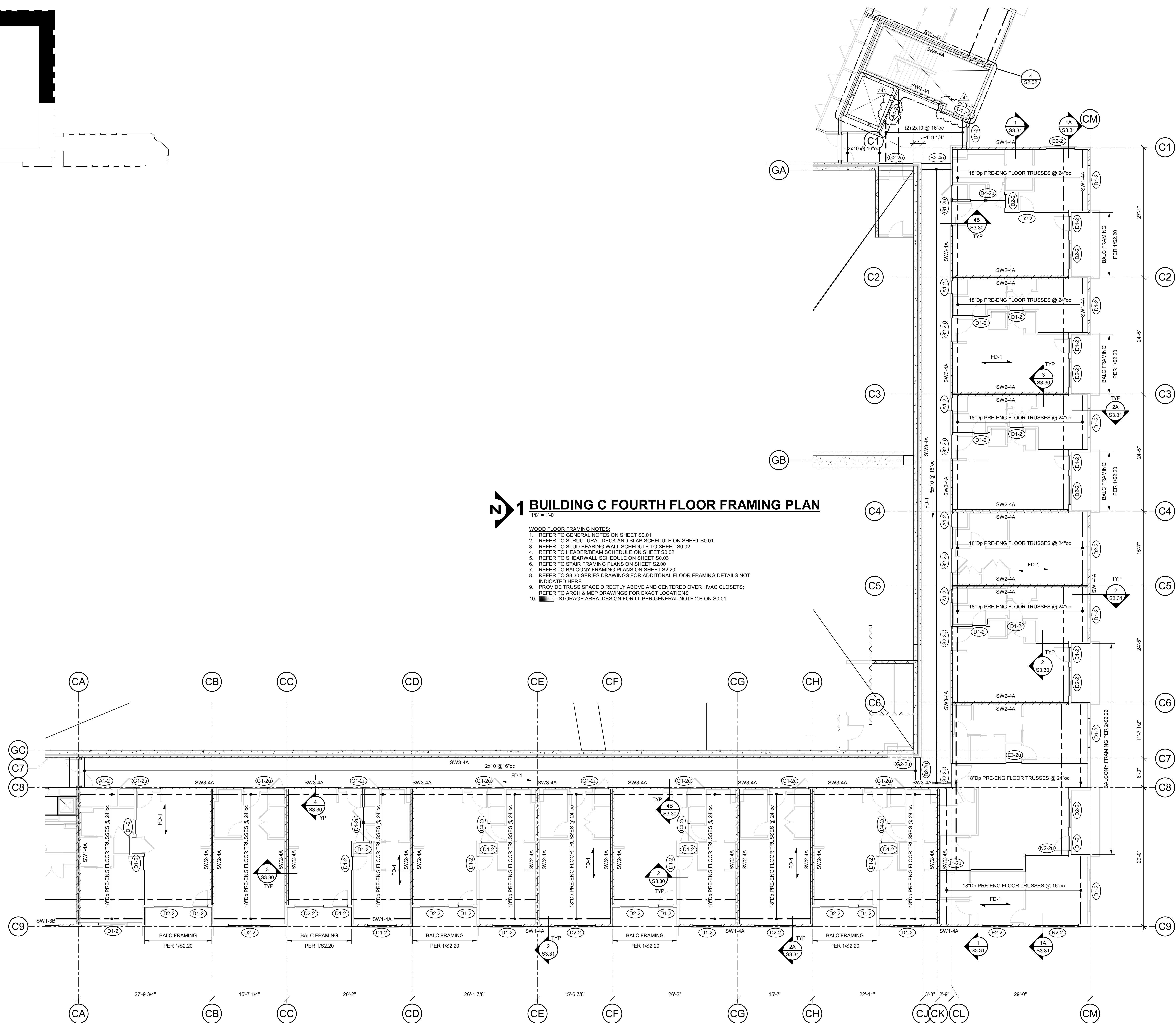
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

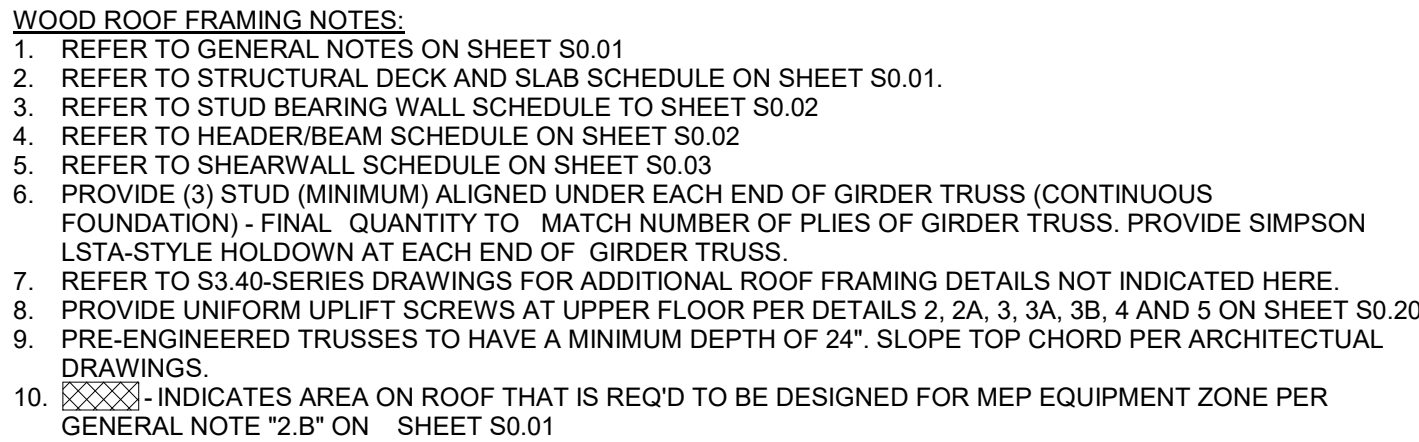
BUILDING C
FOURTH FLOOR
FRAMING PLAN

SHEET NUMBER

S1.34C



T:\E-G\FW Projects\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star.tif,rvt





3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08

Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
	7.20.22	ADDENDUM 2
	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

LUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR CONSTRUCTORS

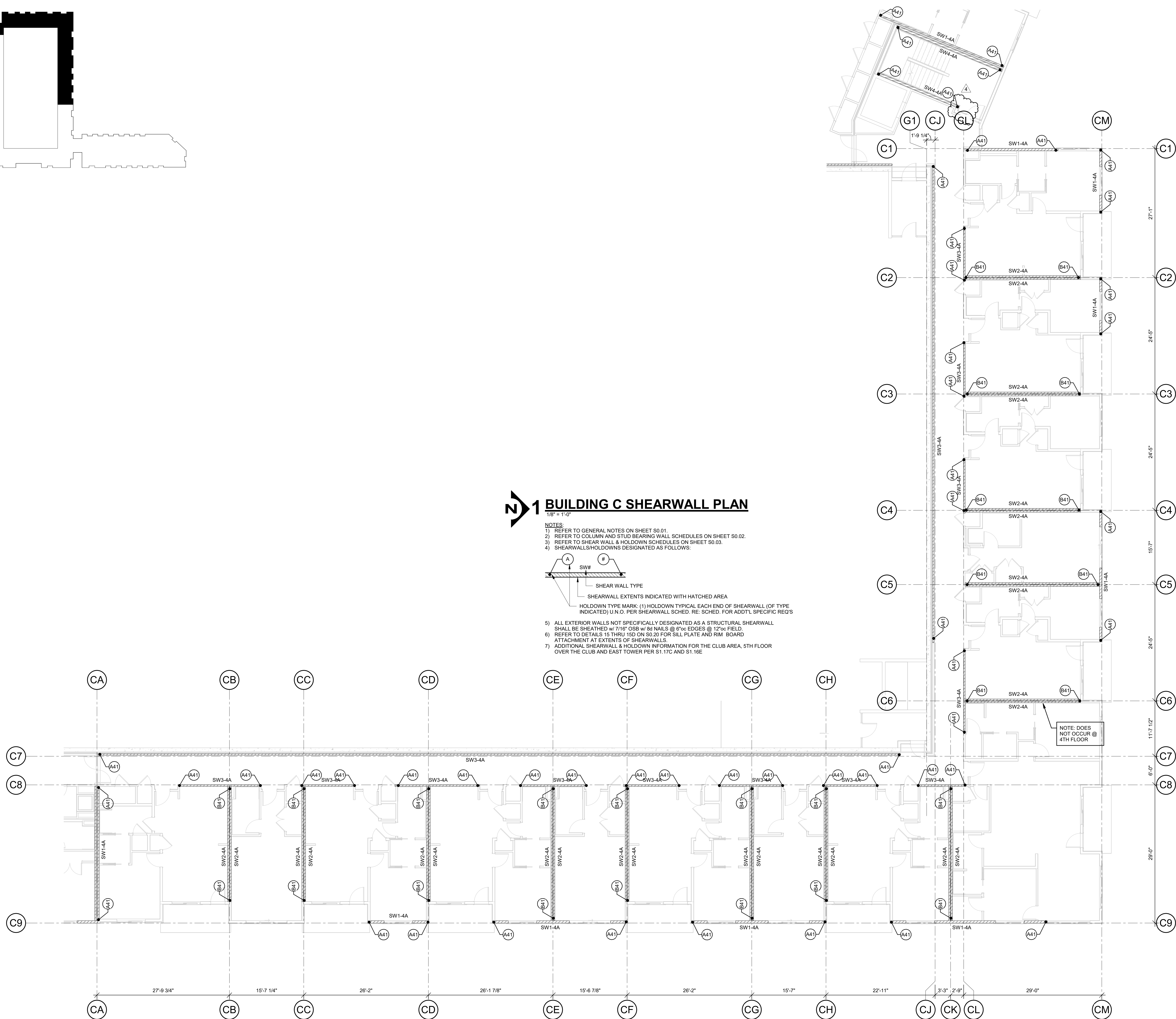
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

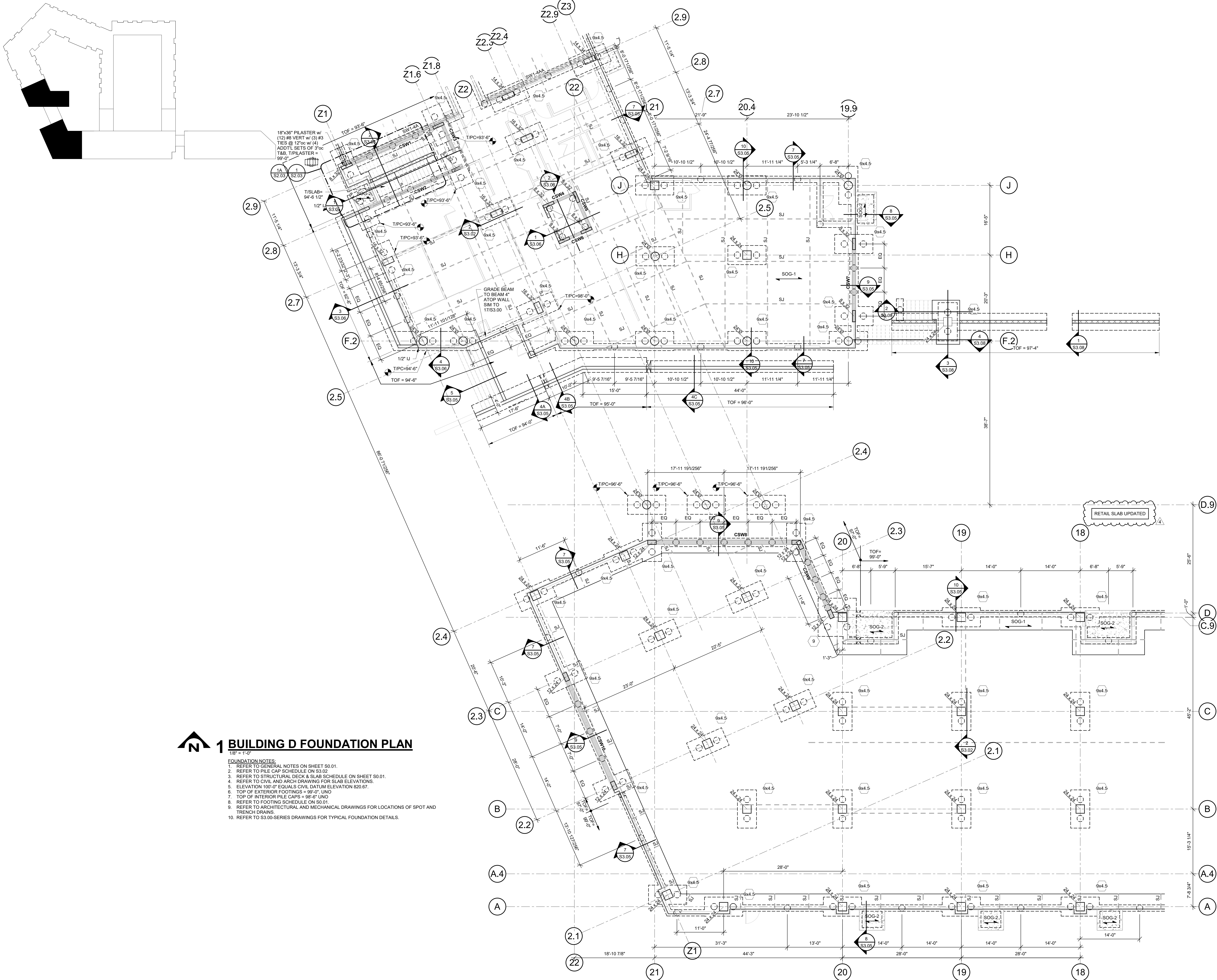
BUILDING C
SHEARWALL PLAN

SHEET NUMBER

S1.36C



T:\E-G\FWI Projects\FWI2101 Dwgs\FWI2101 - S21 - Paragon Star_jlf.rvt



1 BUILDING D FOUNDATION PLAN

- FOUNDATION NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01.
 2. REFER TO PILE CAP SCHEDULE ON S3.02.
 3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
 4. REFER TO CIVIL AND ARCH. DRAWING FOR SLAB ELEVATIONS.
 5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
 6. TOP OF EXTERIOR FOOTINGS = 99'-0" UNO
 7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
 8. REFER TO FOOTING SCHEDULE ON S0.01.
 9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
 10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.



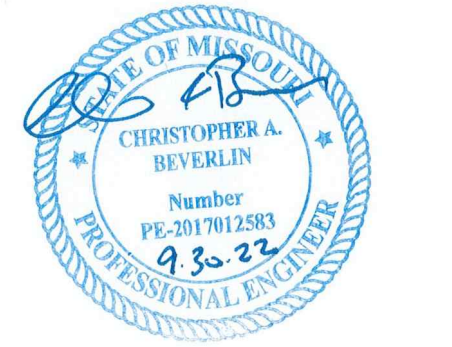
**PARAGON STAR
NORTH VILLAGE**

3200 NW PARAGON PKWY.
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM	
ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Bellevue Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE
**BUILDING D
FOUNDATION
PLAN**

SHEET NUMBER
S1.41D



00 NW PARAGON PKWY
E'S SUMMIT, MO 64081

No.: 18017,19050.07,19050.0

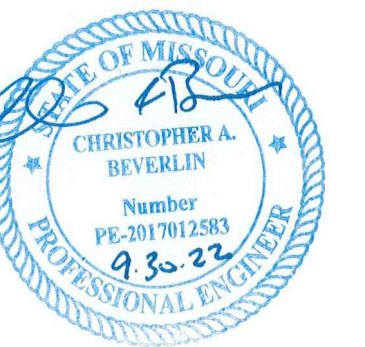
06.28.2022

For: **FOR CONSTRUCTION**

REVISIONS

Date	Description
11.22	ADDENDUM 1
20.22	ADDENDUM 2
28.22	ASI 1

REGISTRATION



PROJECT TEAM

TECT FINKLE+WILLIAM
ARCHITECTURE

GBA ENGINEERS

CAPE LAND 3

TURAL BOB D. CAMPBE

ING LATIMER SOMME

ANICAL LATIMER SOMME

LATIMER SOMMER

PROTECTION LATIMER SOMMI

CONSTRUCTOR:

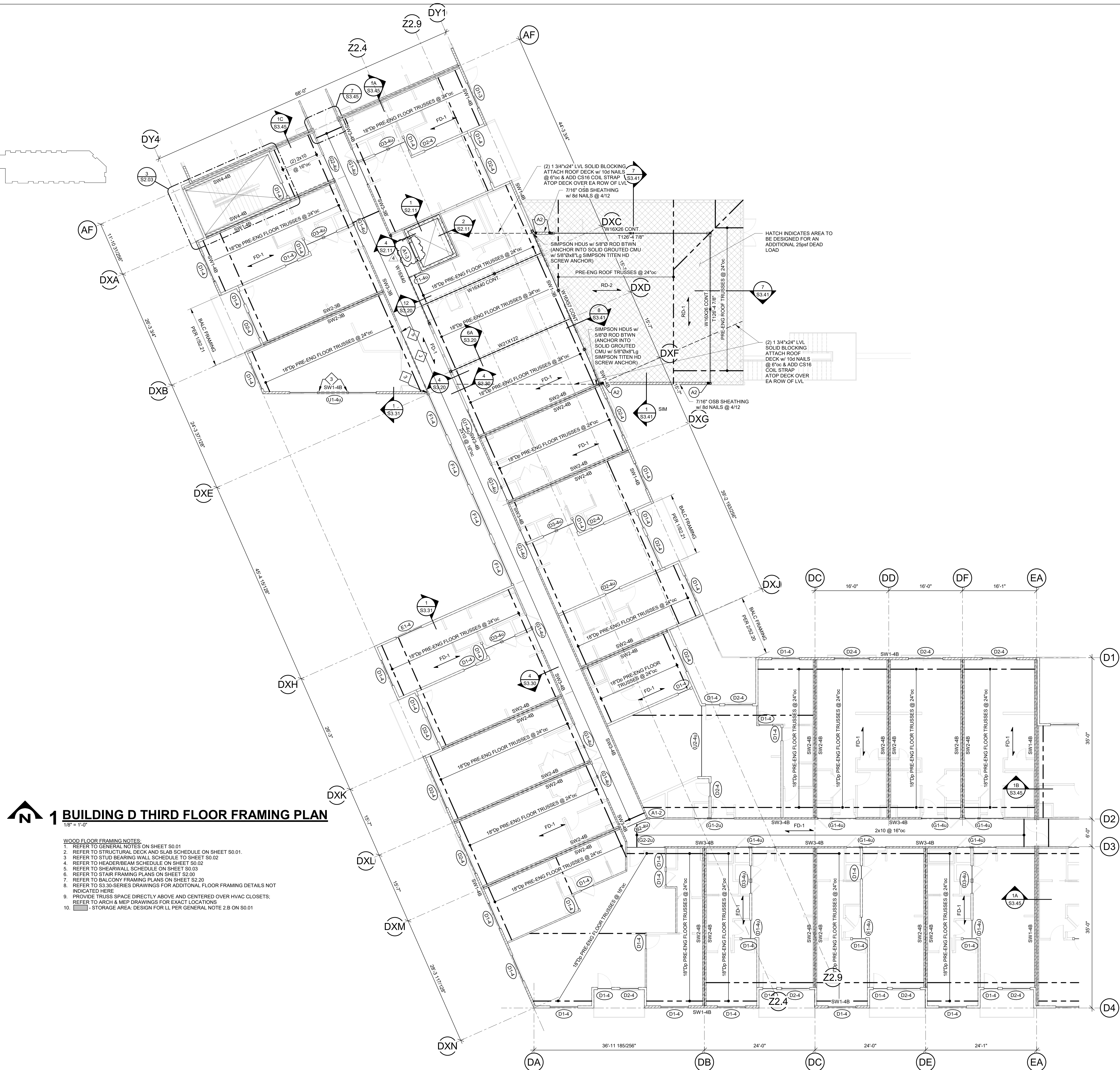
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

BUILDING D THIRD FLOOR FRAMING PLAN

SHEET NUMBER

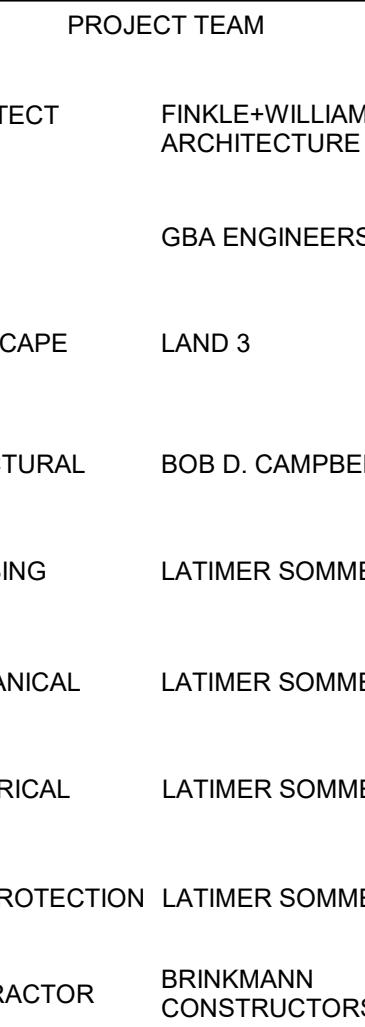
S1.43D



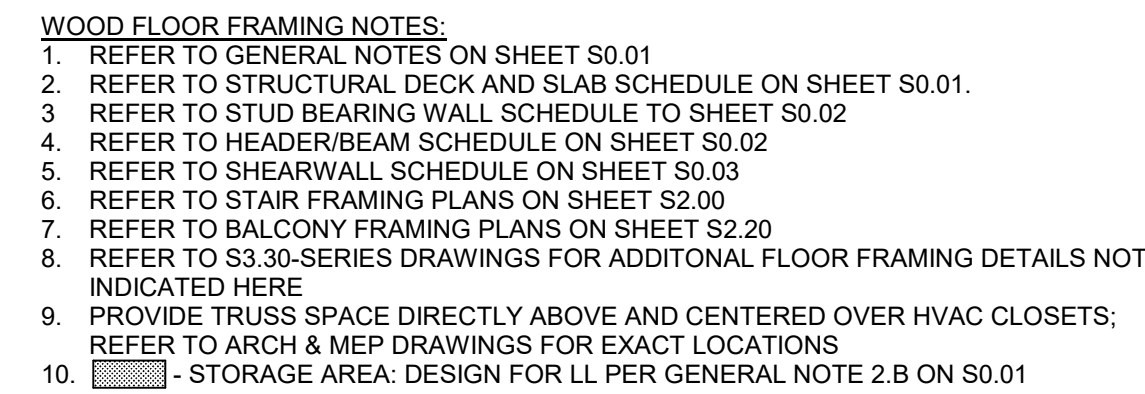
WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10.  STORAGE AREA DESIGN FOR LL PER GENERAL NOTE 2.8 ON S0.01

T:\E-G\FW Projects\FW\2101 - Paragon Star\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star.iff.Mt



S1.44D





3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

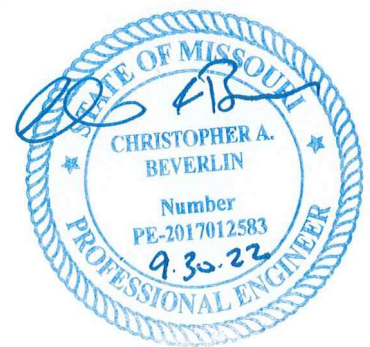
Project No.: 18017,19050.07,19050.0

Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

PLUMBING LATIMER SOMME

MECHANICAL LATIMER SOMME

ELECTRICAL LATIMER SOMME

FIRE PROTECTION LATIMER SOMME

CONTRACTOR BRINKMANN
CONSTRUCTORS

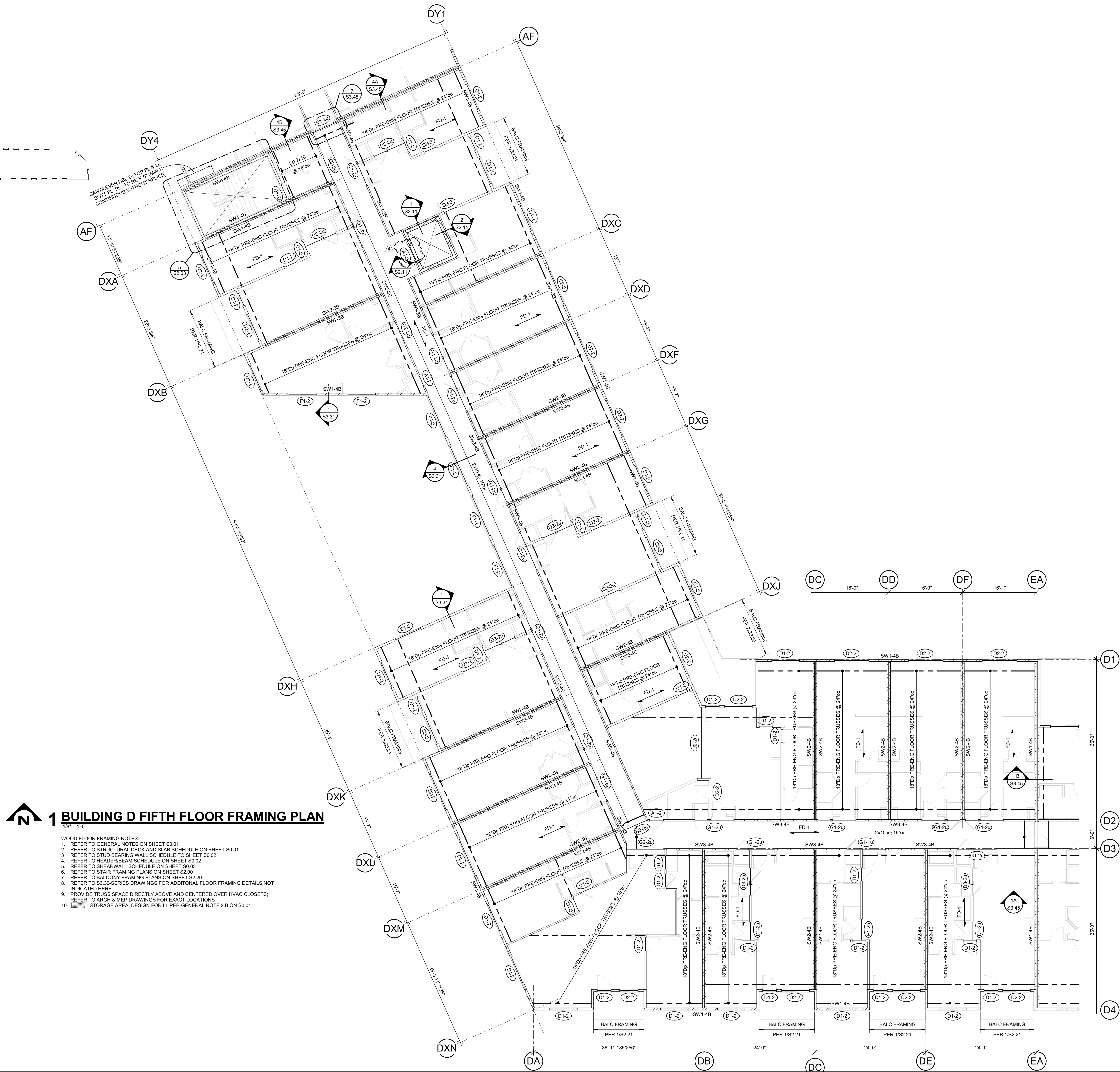
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

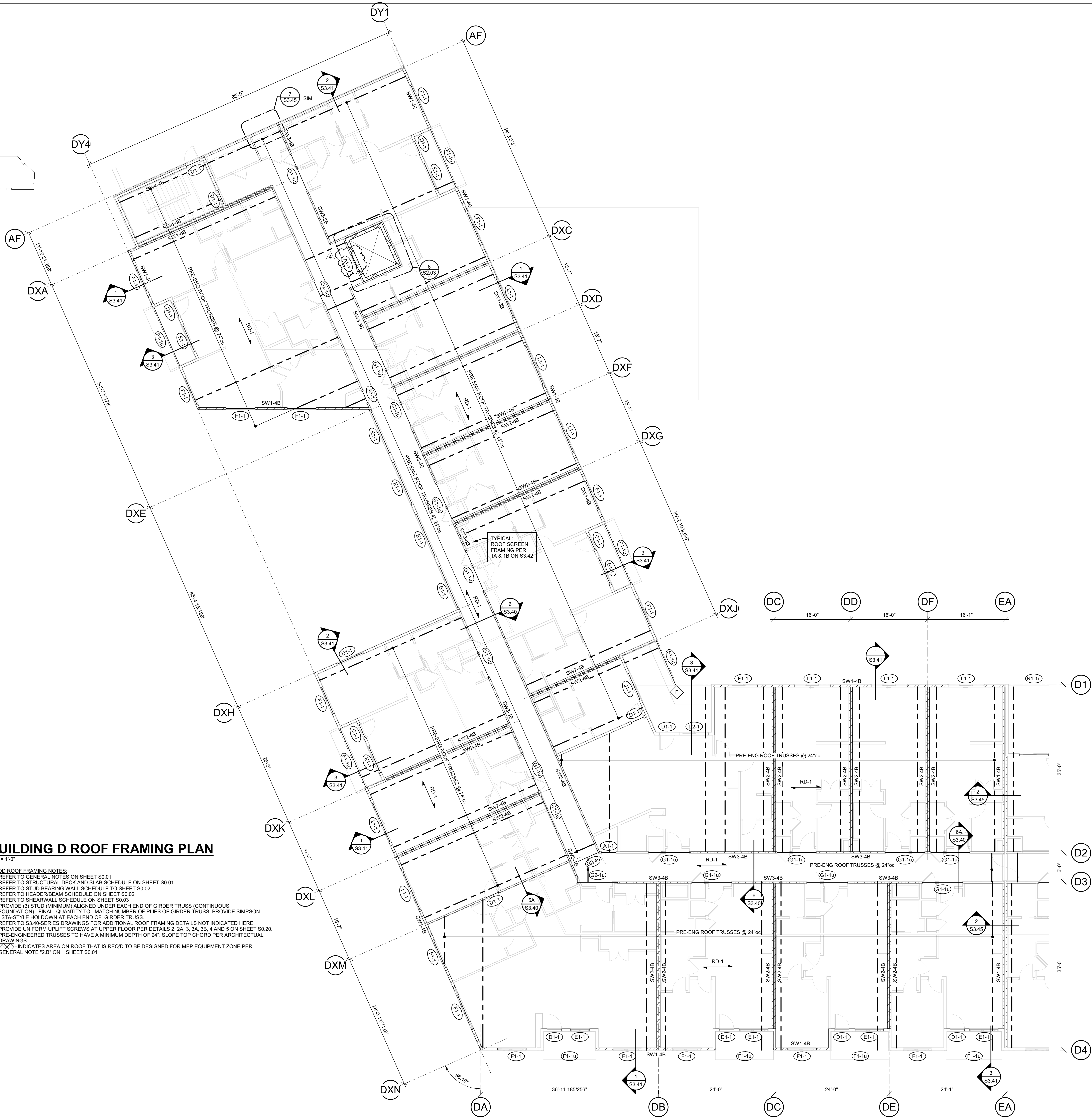
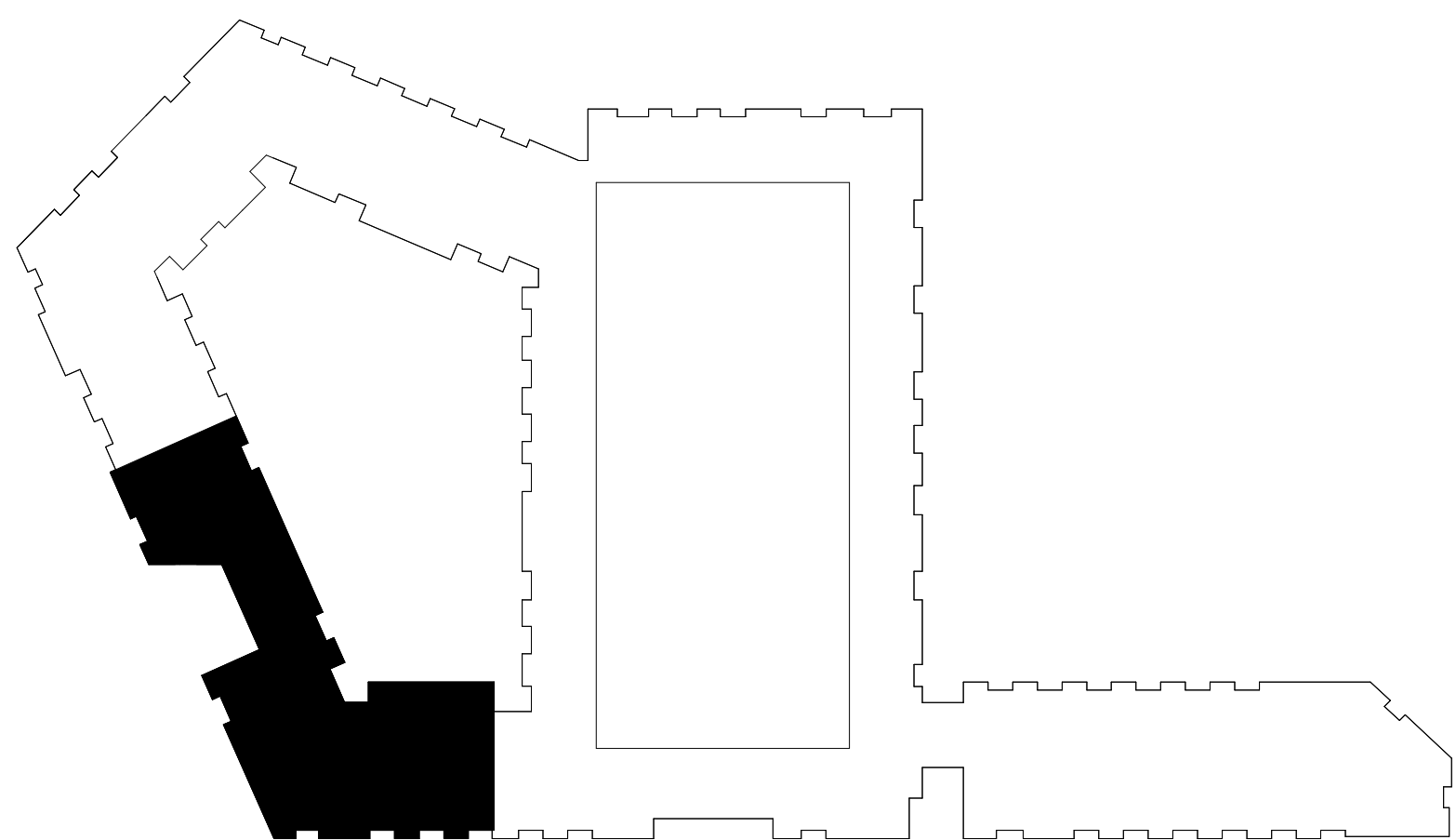
BUILDING D FIFTH
FLOOR FRAMING
PLAN

SHEET NUMBER

S1.45D



T:\E-G\FW Projects\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star ilf.rvt



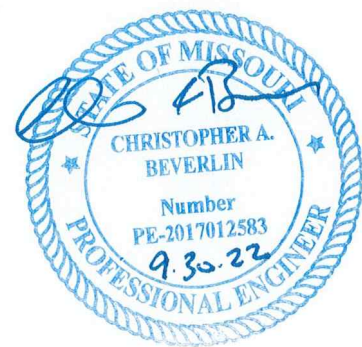
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
4338 Belleview Ave.
Kansas City, MO 64111
www.bdc-engr.com

SHEET TITLE

BUILDING D ROOF
FRAMING PLAN

SHEET NUMBER

S1.46D



3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08

Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

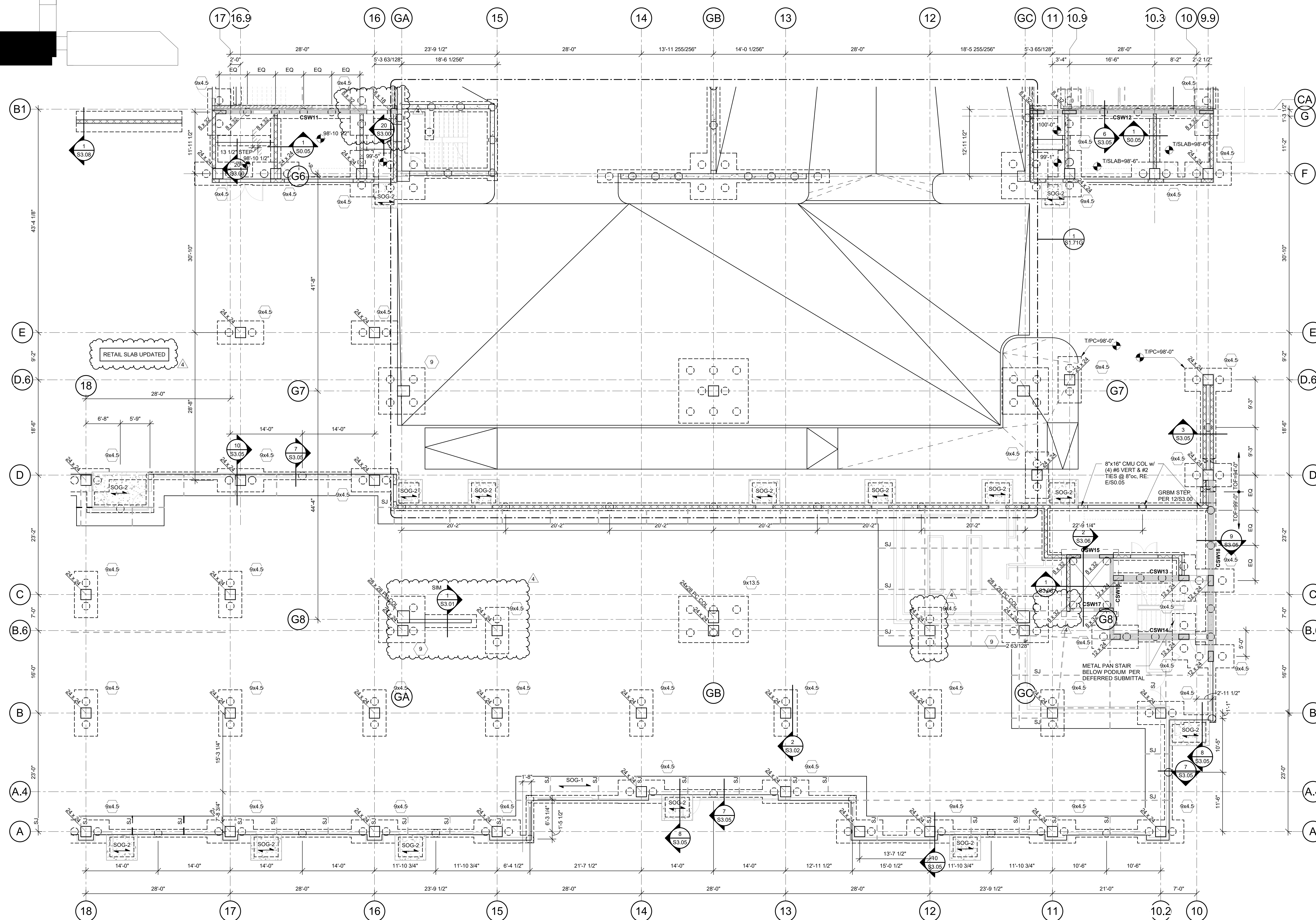
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

BUILDING E
FOUNDATION
PLAN

SHEET NUMBER

S1.51E

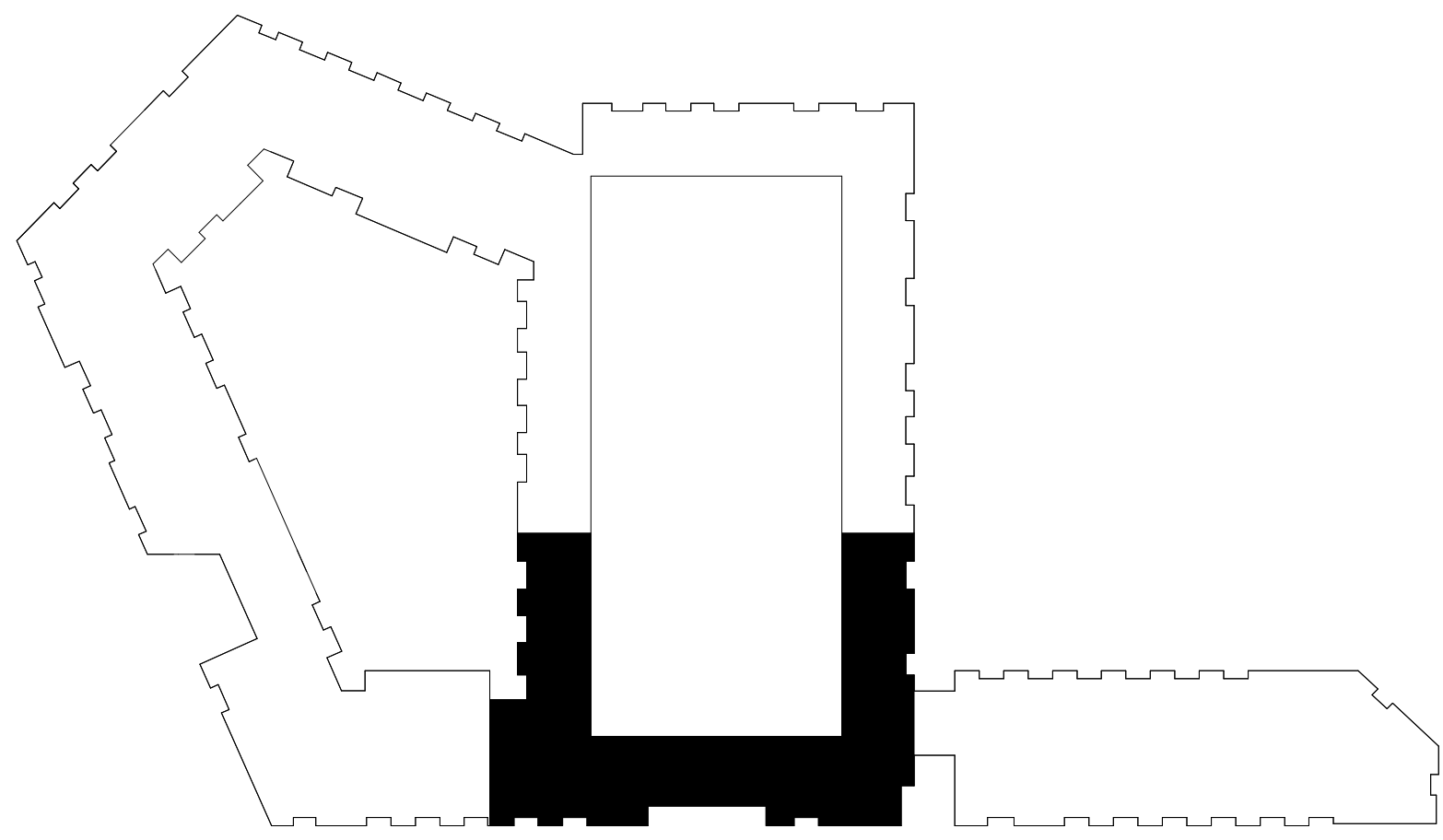


1 BUILDING E FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S0.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS C&G DATE ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
7. TOP OF INTERIOR PILE CAPS = 98'-0", UNO
8. REFER TO FOOTING SCHEDULE ON S0.01
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DETAILS OF SPOT AND TRENCH DRAINS
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION LOCATIONS.



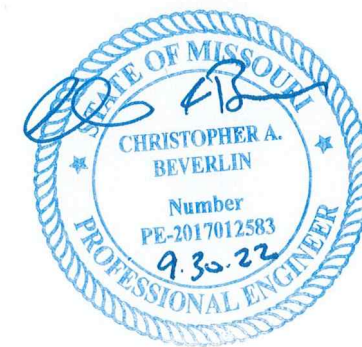
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

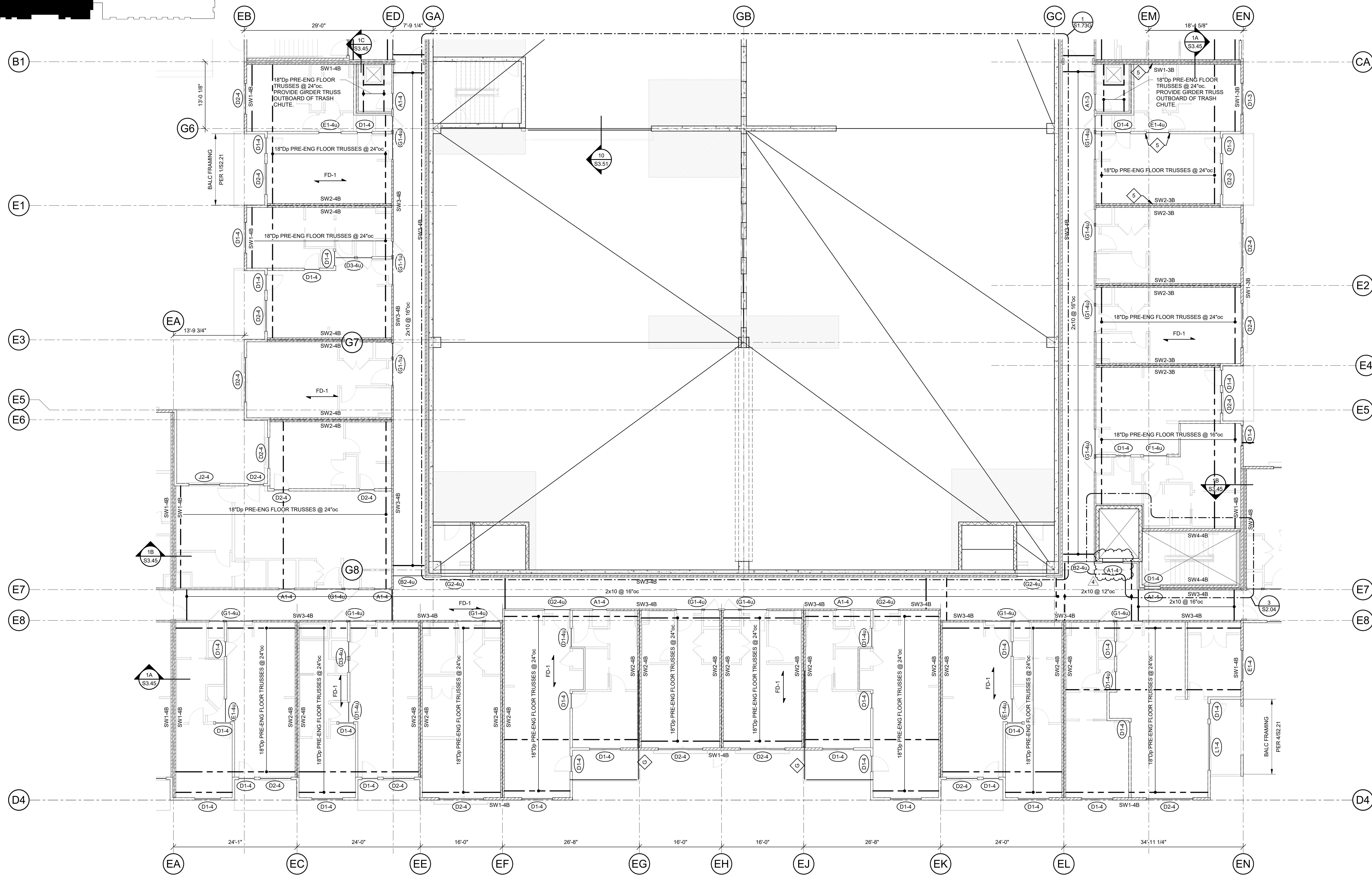
BOB D. CAMPBELL & CO.
Structural Engineers
4338 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

BUILDING E THIRD
FLOOR FRAMING
PLAN

SHEET NUMBER

S1.53E



1 BUILDING E THIRD FLOOR FRAMING PLAN
1/8" = 1'-0"

- WOOD FLOOR FRAMING NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
 2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
 3. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
 4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
 5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
 6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
 7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
 8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
 9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
 10. - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01



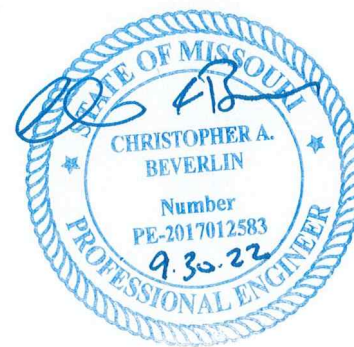
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

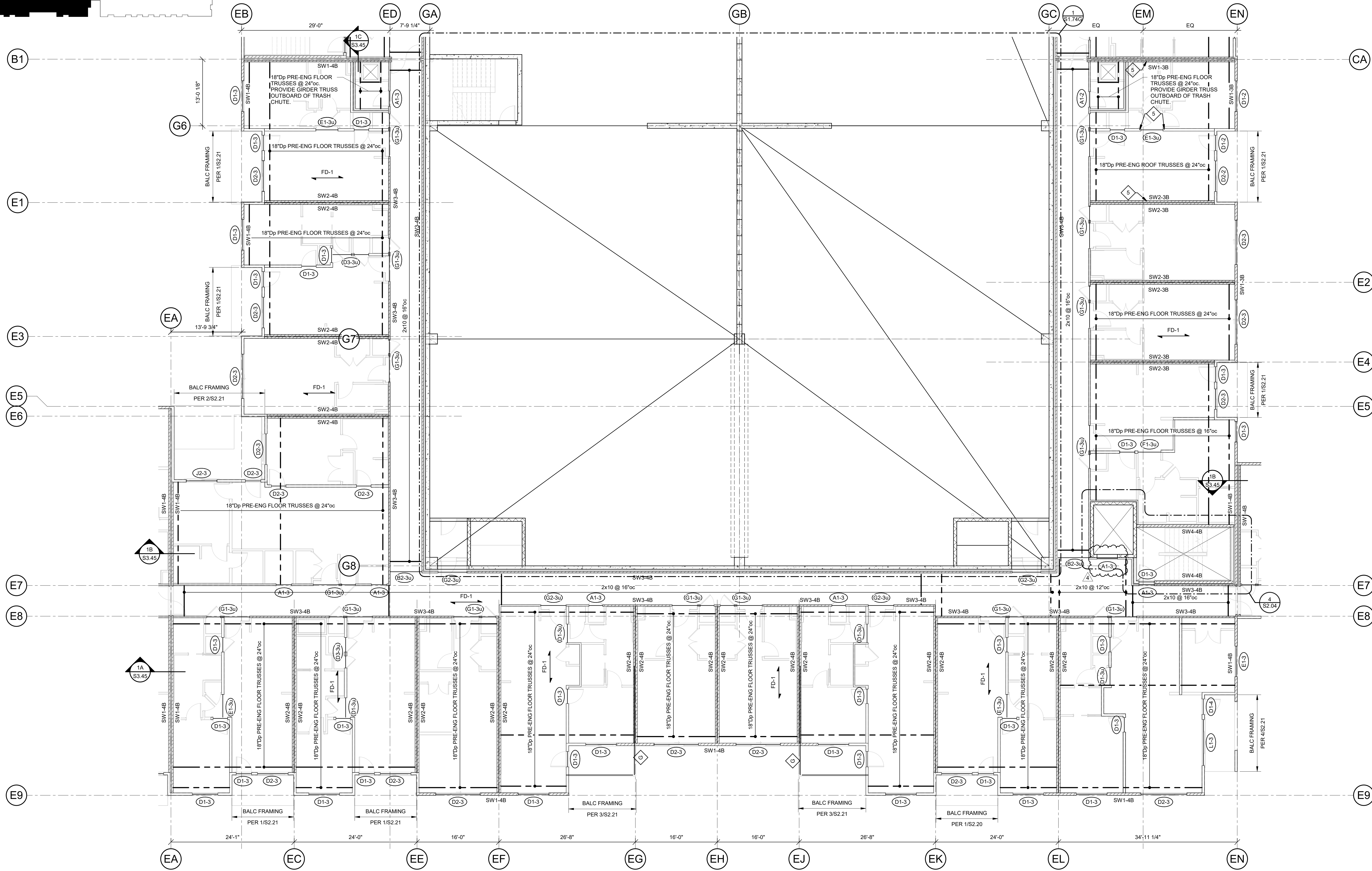
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4398 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

BUILDING E
FOURTH FLOOR
FRAMING PLAN

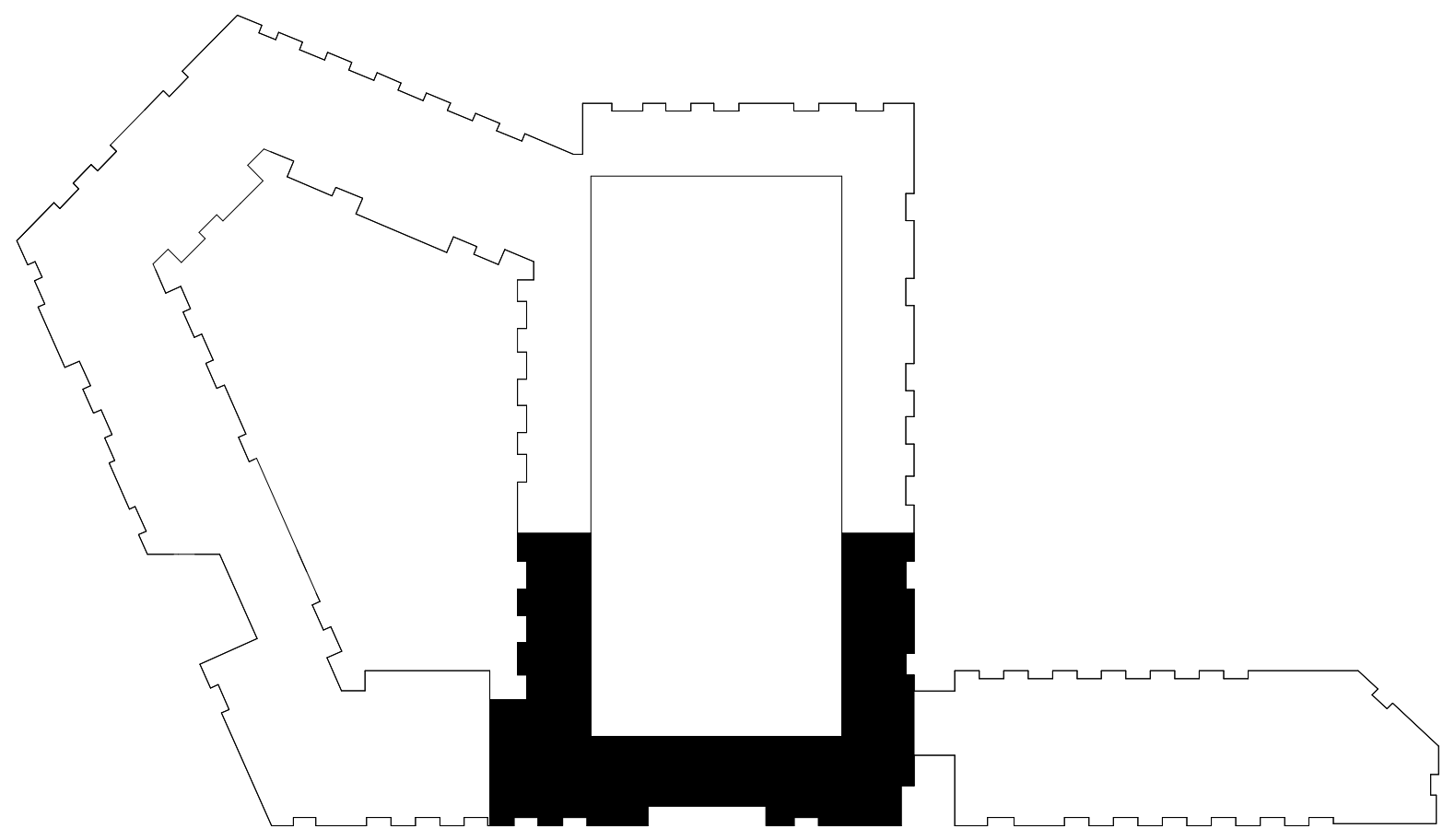
SHEET NUMBER

S1.54E



1 BUILDING E FOURTH FLOOR FRAMING PLAN
1/8" = 1'-0"

- WOOD FLOOR FRAMING NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
 2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
 3. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
 4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
 5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
 6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
 7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
 8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
 9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
 10. STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01



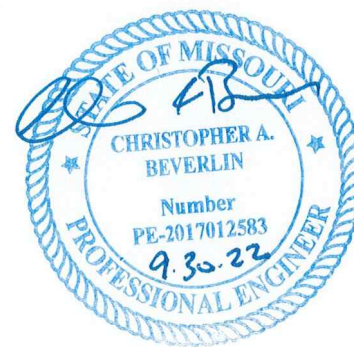
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

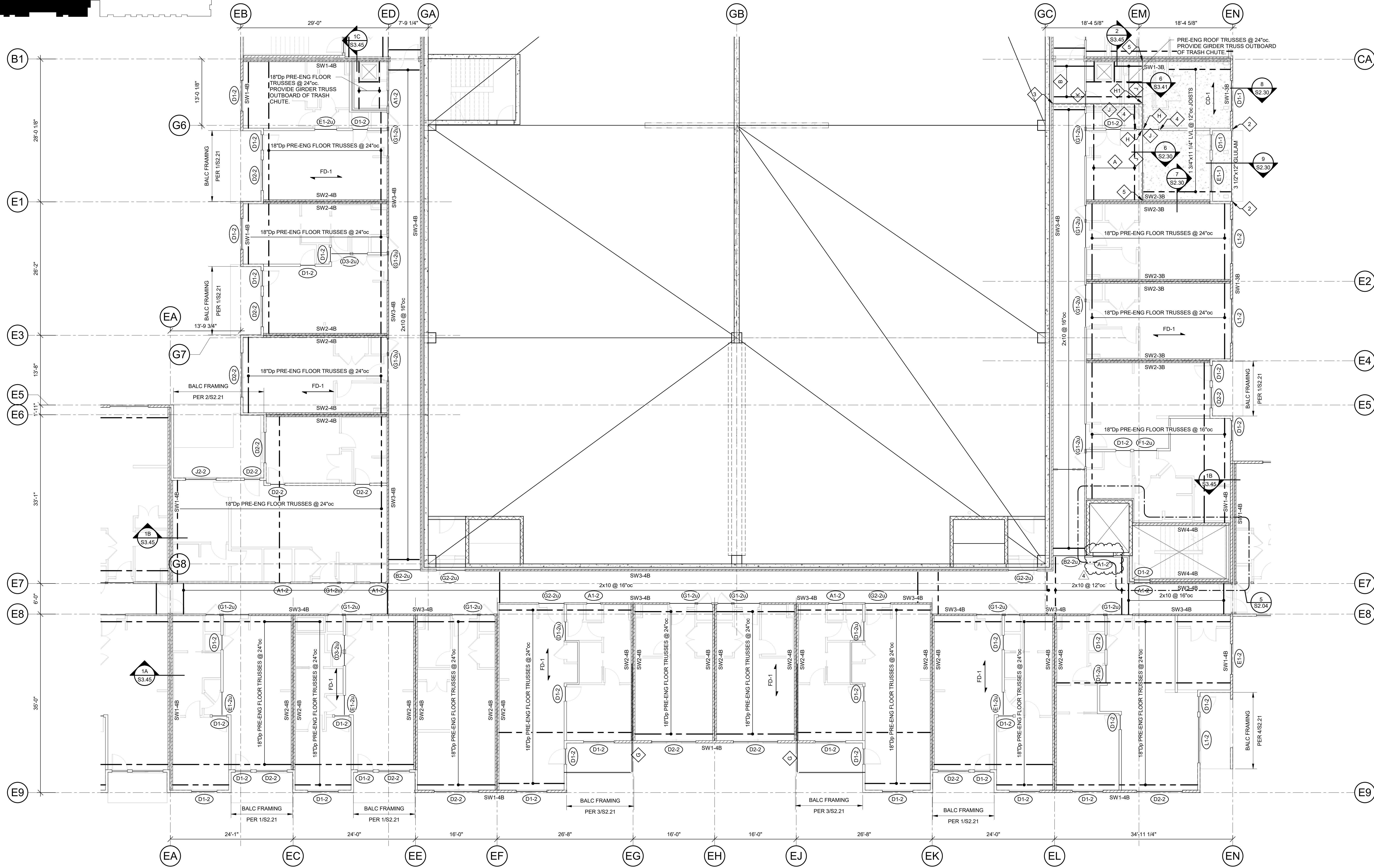
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4398 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engr.com

SHEET TITLE

BUILDING E FIFTH
FLOOR FRAMING
PLAN

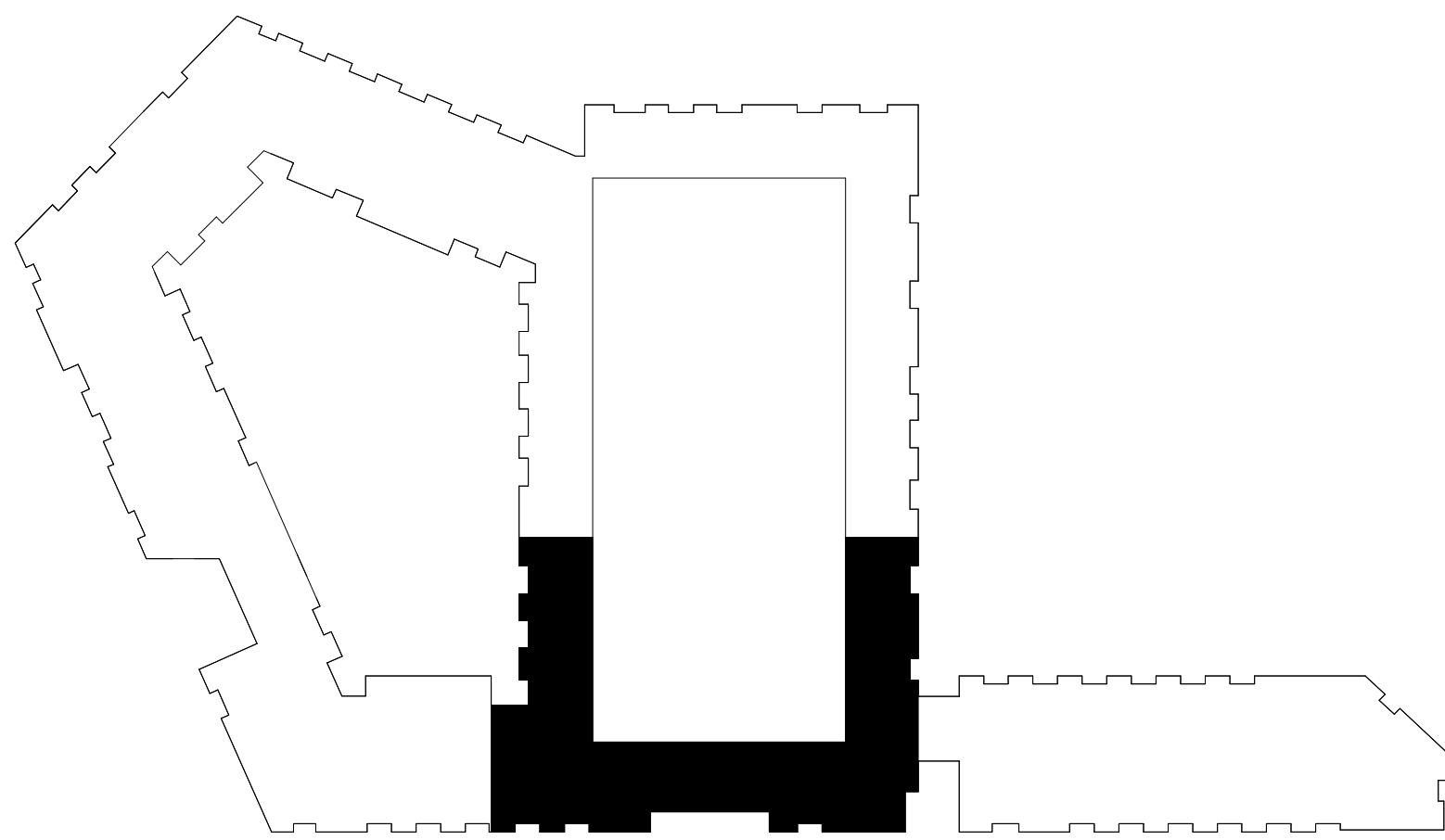
SHEET NUMBER

S1.55E



1 BUILDING E FIFTH FLOOR FRAMING PLAN
1/8" = 1'-0"

- WOOD FLOOR FRAMING NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
 2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01
 3. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
 4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
 5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
 6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
 7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
 8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
 9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
 10. - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01



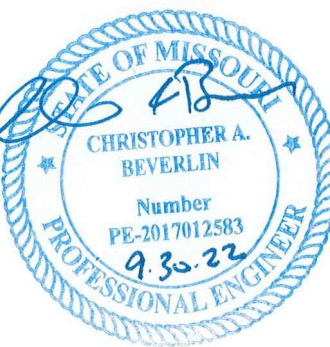
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

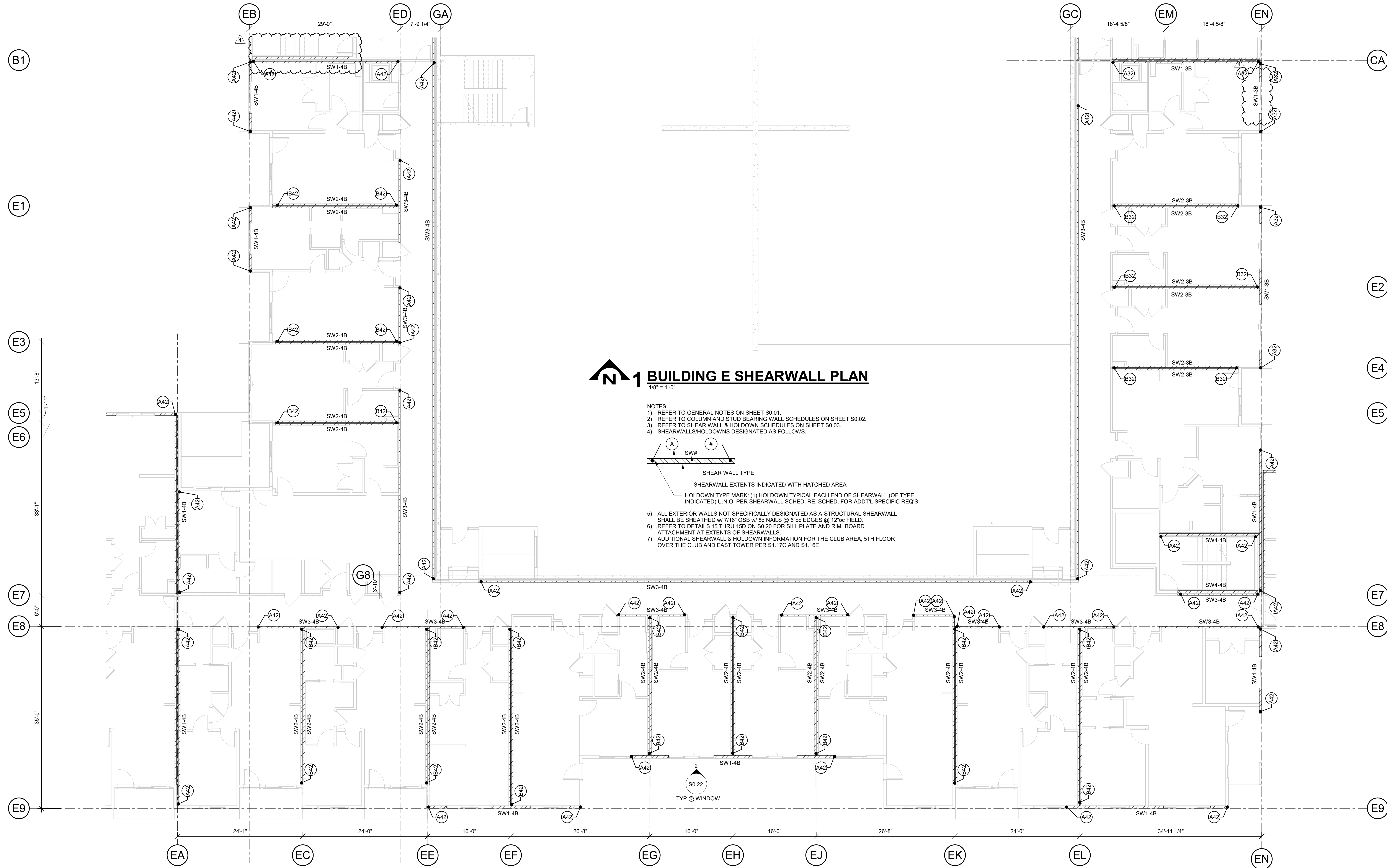
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4398 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

BUILDING E
SHEARWALL PLAN

SHEET NUMBER

S1.57E



1 BUILDING E SHEARWALL PLAN
1/8" = 1'-0"

- NOTES:
- 1) REFER TO GENERAL NOTES ON SHEET S0.01.
 - 2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
 - 3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
 - 4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:
- 1) REFER TO GENERAL NOTES ON SHEET S0.01.
- 2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
- 3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
- 4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:
- 5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
- 6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
- 7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.18E.



3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08

Date: 06.28.2022

Issued For: FOR CONSTRUCTION

REVISIONS

[illegible]

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

PLUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR BRINKMANN
CONSTRUCTORS

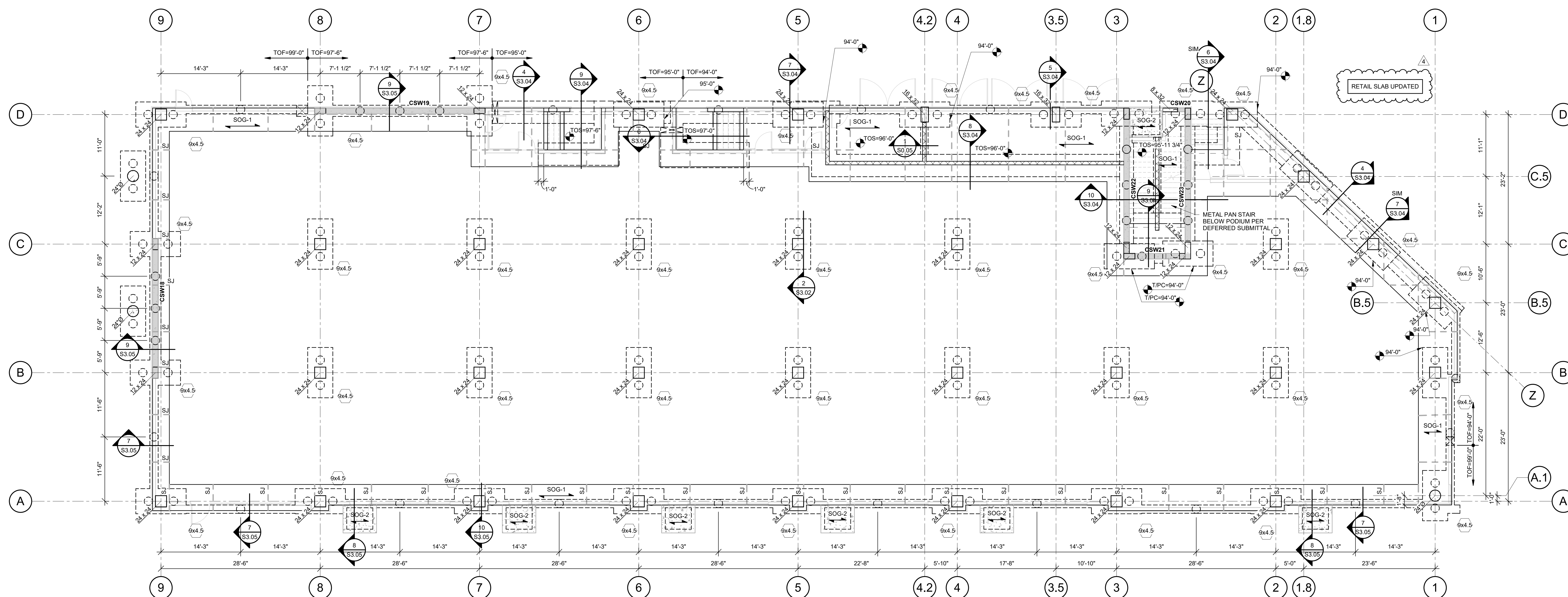
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Belleview Ave.
Kansas City, MO 64111 816.531.4144
www.bdc-engrs.com

SHEET TITLE

BUILDING F
FOUNDATION
PLAN

SHEET NUMBER

S1.61F



1 BUILDING F FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02.
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 95'-0" UNO
7. TOP OF INTERIOR PILE CAPS = 98'-0" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.



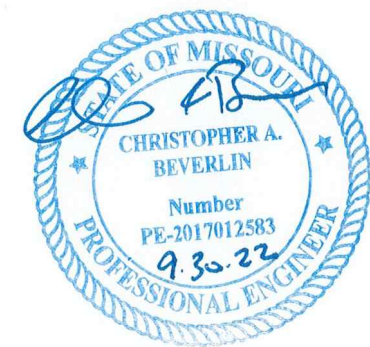
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
1	5.08.22	Permit Response
2	7.11.22	ADDENDUM 1
4	9.28.22	ASI 1

REGISTRATION



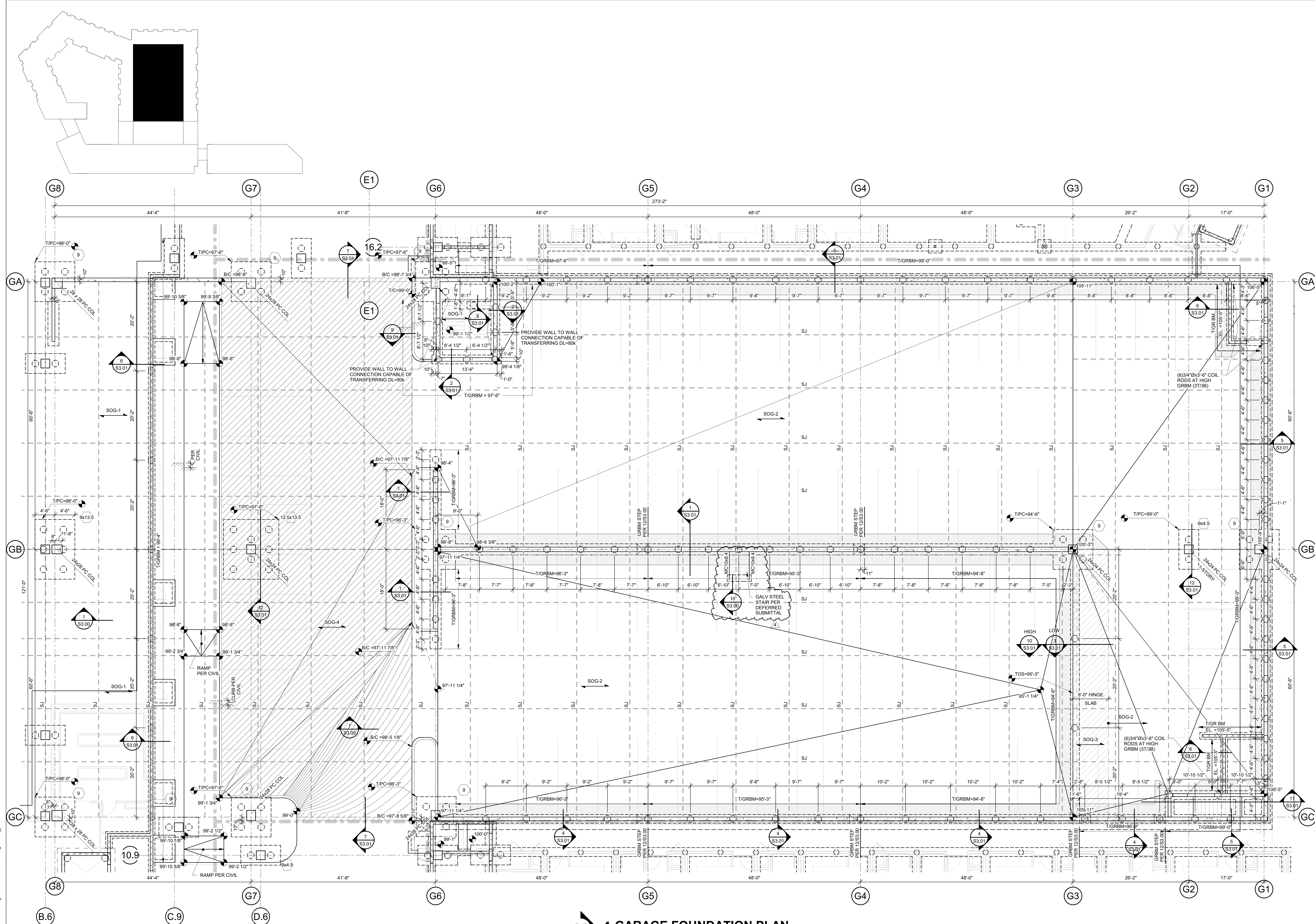
PROJECT TEAM	
ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE
GARAGE FOUNDATION
PLAN

SHEET NUMBER

S1.71G



1 GARAGE FOUNDATION PLAN
1/8" = 1'-0"

- FOUNDATION NOTES - GARAGE:
1. REFER TO GENERAL NOTES ON SHEET S0.01.
 2. REFER TO PILE CAP SCHEDULE ON S3.02.
 3. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
 4. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
 5. TOP OF EXTERIOR FOOTINGS = 99'-0" UNO
 6. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
 7. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
 8. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

PILES AND PILE
DIMENSION ADDED

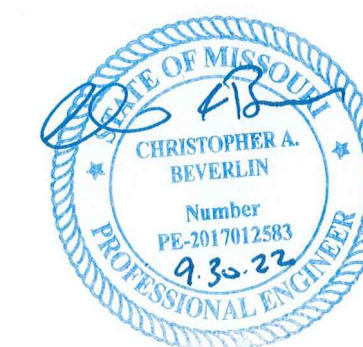


3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

[illegible]

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

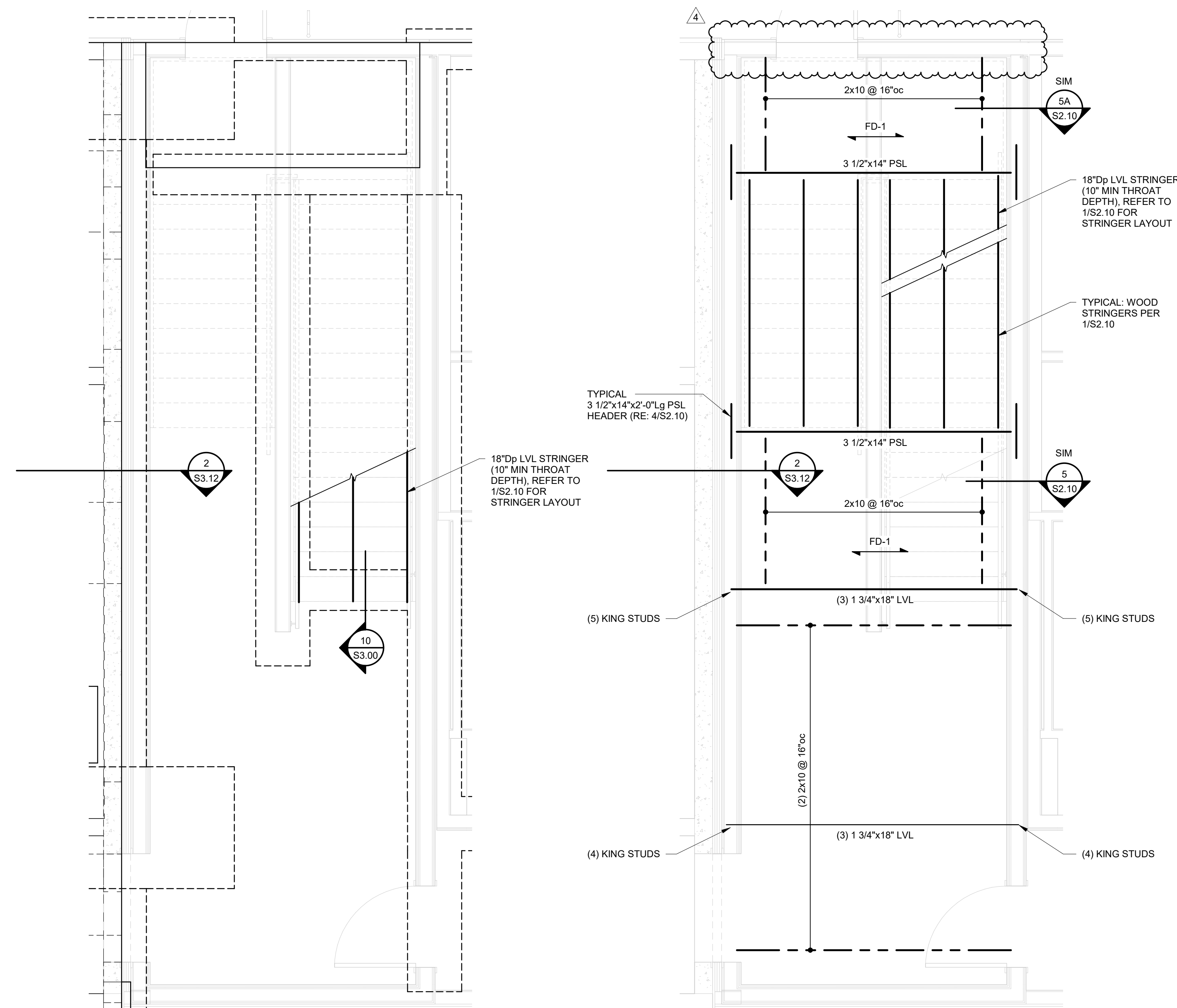
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144

SHEET TITLE

STAIR FRAMING - BUILDING B

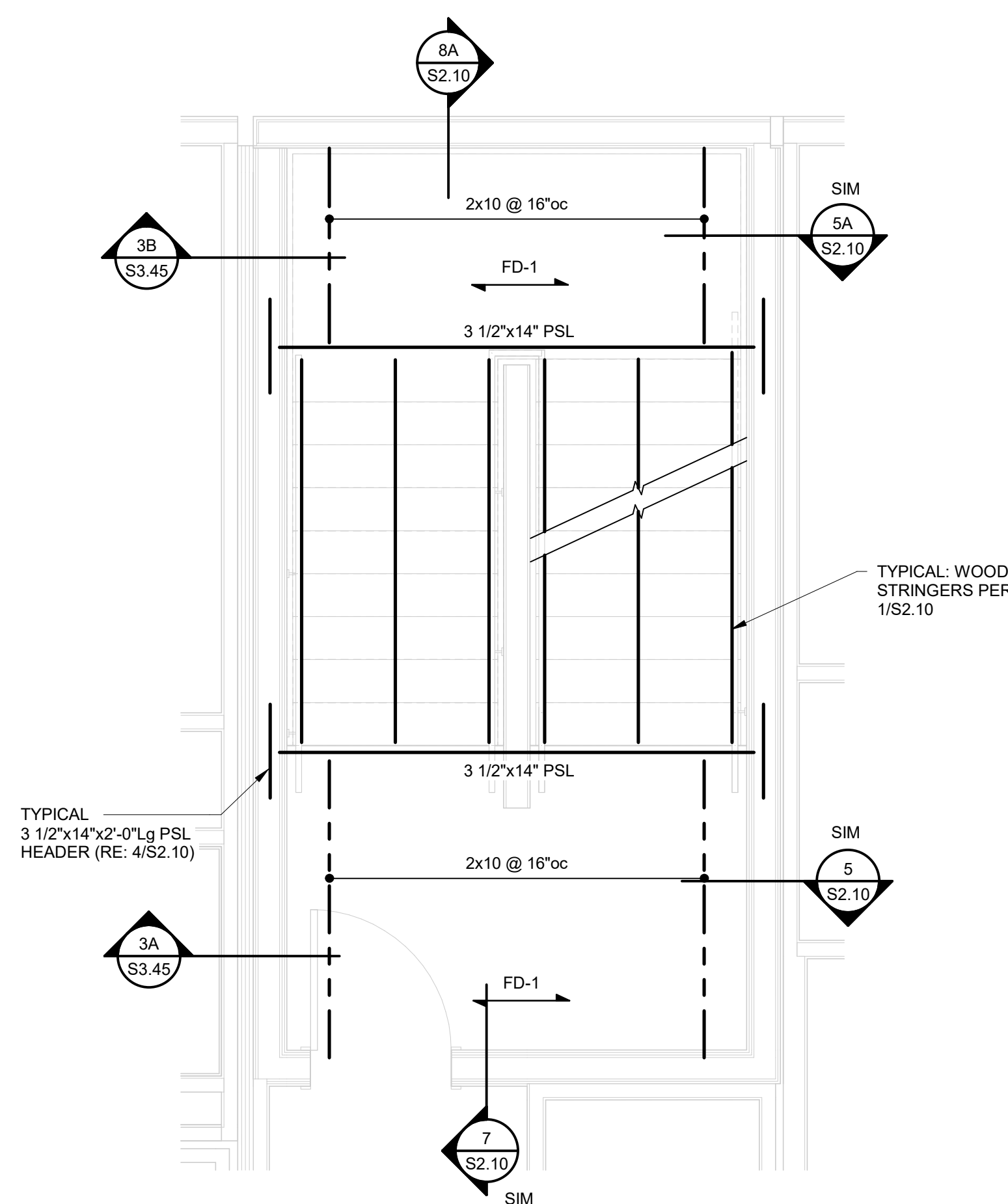
SHEET NUMBER

S2.01

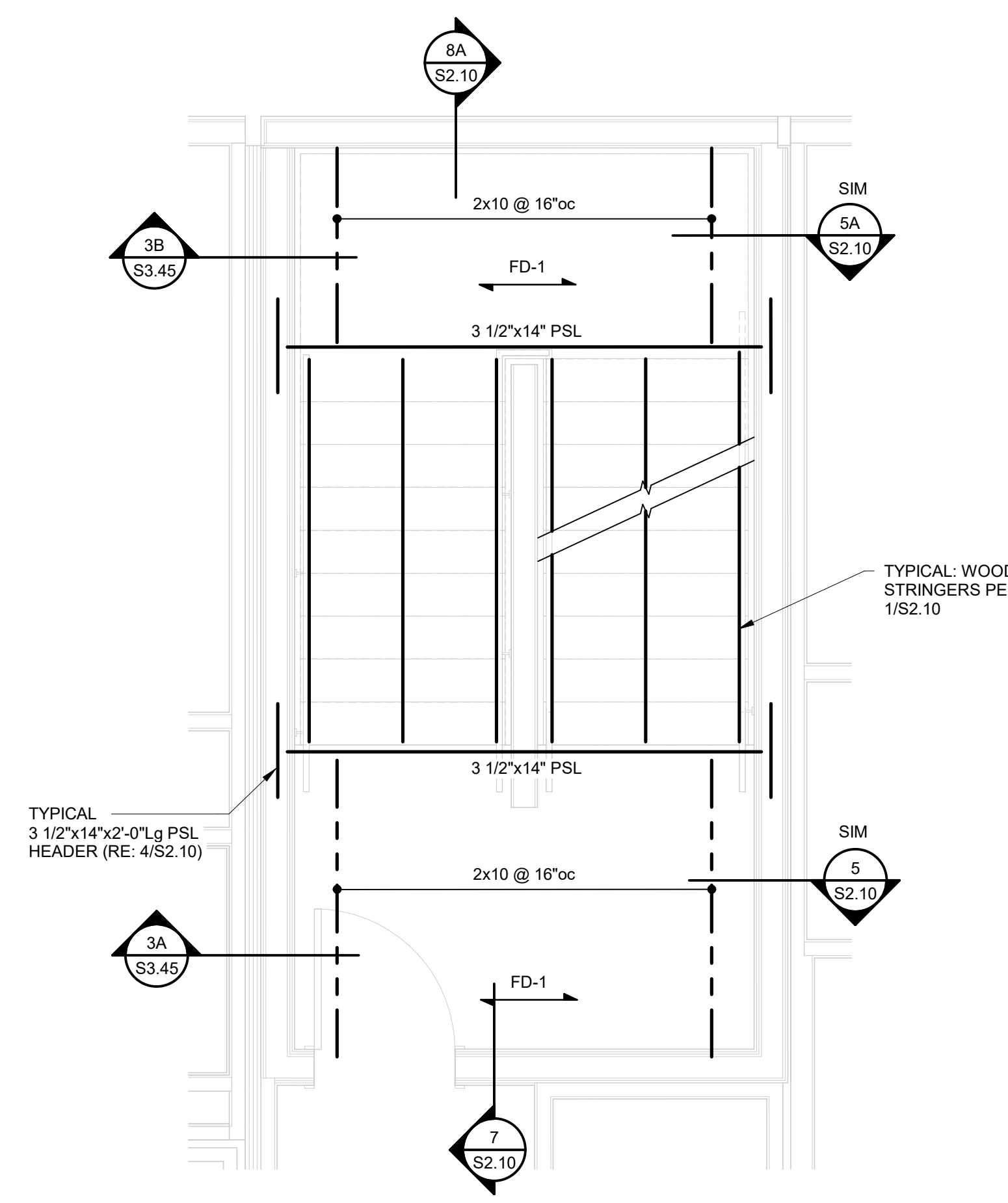


1 BUILDING B - FOUNDATION STAIR PLAN

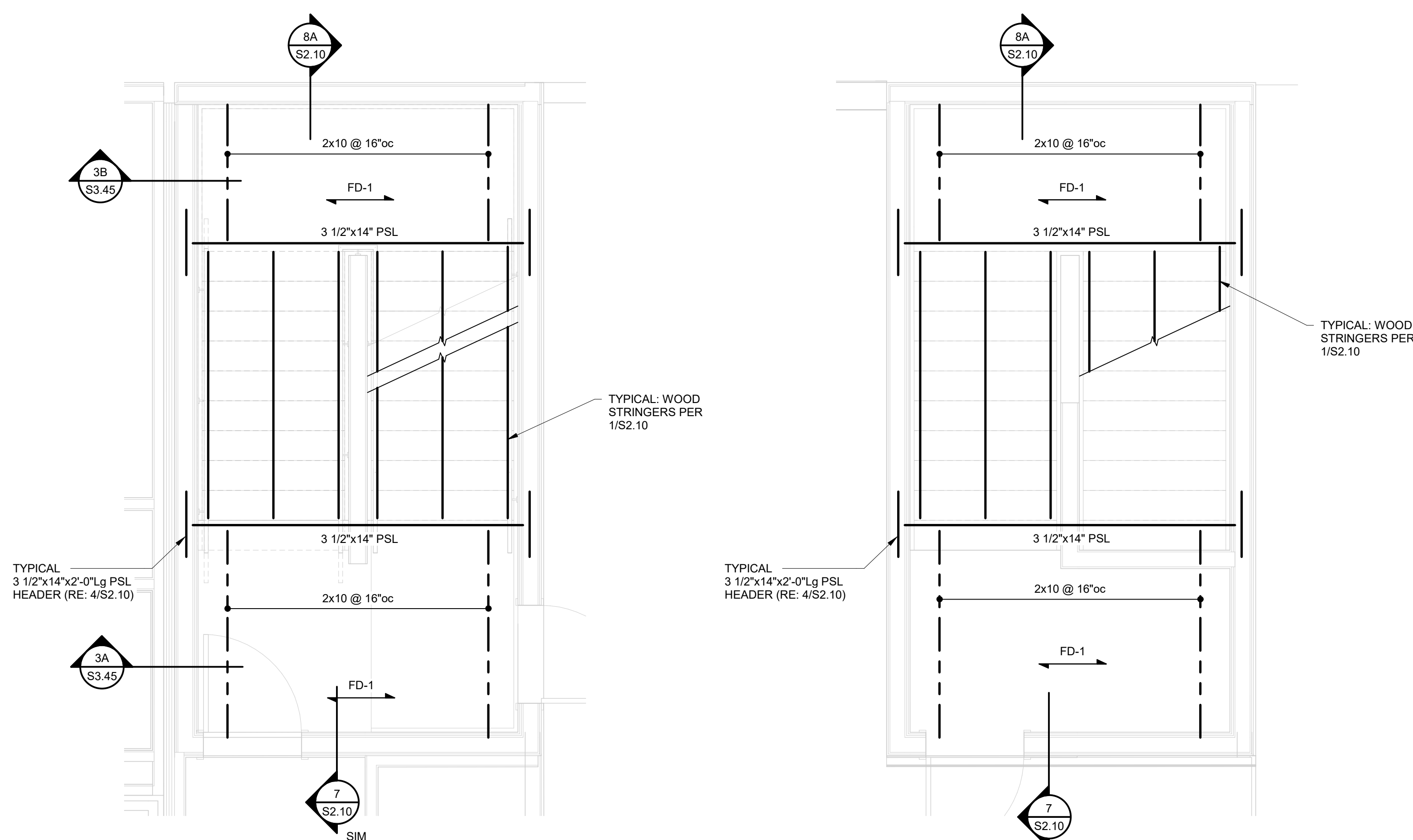
2 BUILDING B - SECOND FLOOR FRAMING STAIR PLAN



3 BUILDING B - THIRD FLOOR FRAMING STAIR PLAN



4 BUILDING B - FOURTH FLOOR FRAMING STAIR PLAN



5 BUILDING B - FIFTH FLOOR FRAMING PLAN

6 BUILDING B - ROOF FRAMING STAIR PLAN

BUILDING B STAIR - JAMB SCHEDULE						
MEMBER	JAMB LEVEL					NOTES
	1ST FLOOR	2ND FLOOR	3RD FLOOR	4TH FLOOR	5TH FLOOR	
2"0"Lg PSL HEADER	1 JACK / 3 KING	1JACK / 3 KING	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 14"Øx4 1/2"Lg SCREWS INTO HEADER

WOOD STAIR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
3. REFER TO BUILDING PLANS FOR HEADER AND BEAM
CALLOUTS NOT SHOWN IN ENLARGED PLANS. HEADER
AND BEAM SCHEDULE ON SHEET S0.02
4. REFER TO STAIR FRAMING DETAILS ON SHEET S2.10

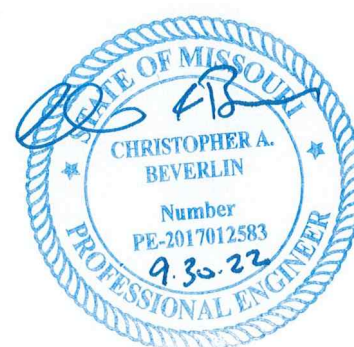


3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
	7.11.22	ADDENDUM 1
	7.20.22	ADDENDUM 2
	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

PLUMBING LATIMER SOMMER:

MECHANICAL LATIMER SOMMER

ELECTRICAL LATIMER SOMMER®

FIRE PROTECTION LATIMER SOMMER

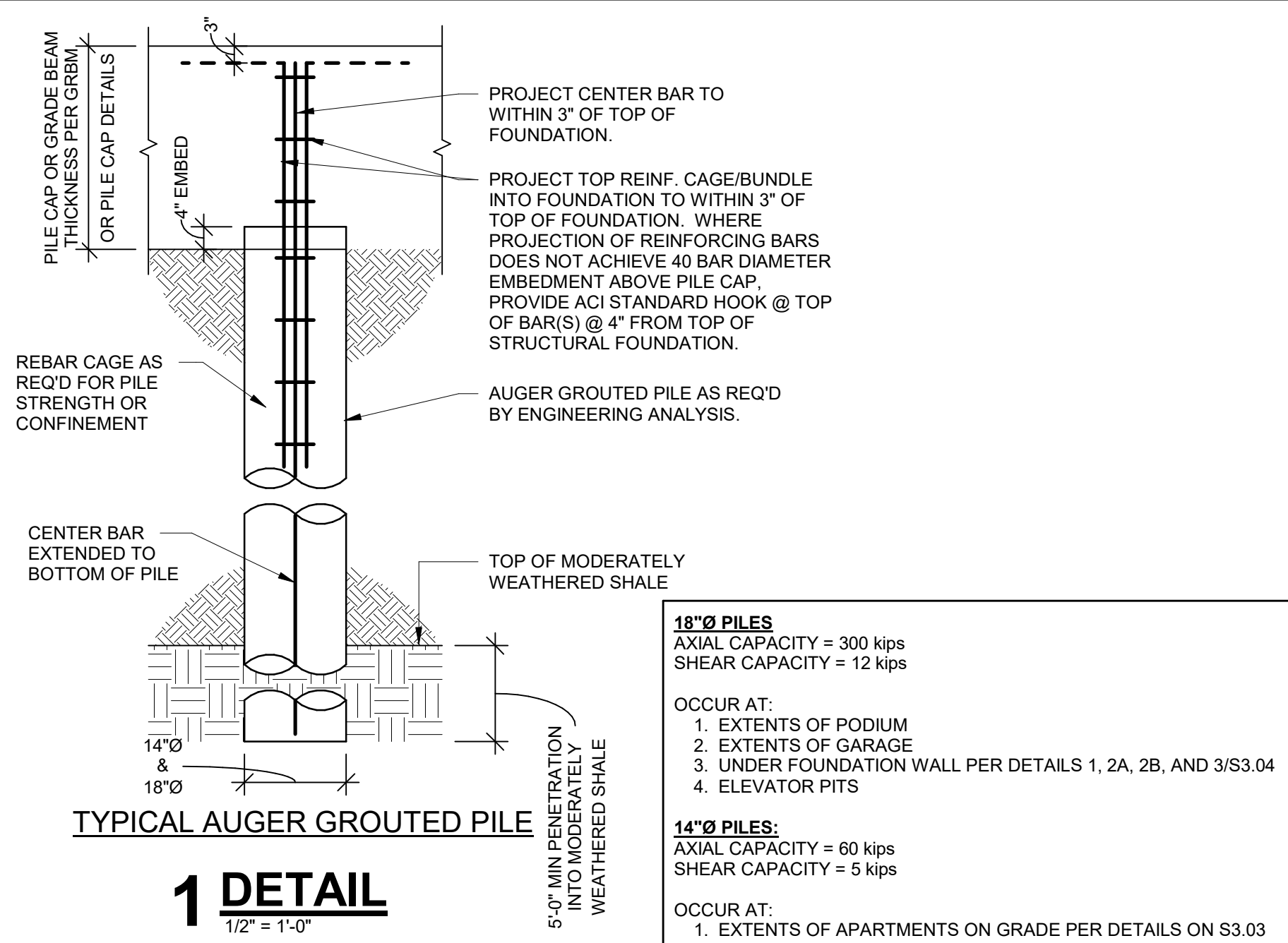
CONTRACTOR
BRINKMANN
CONSTRUCTORS

SHEET TITLE

PILE & PODIUM FOUNDATION DETAILS

SHEET NUMBER

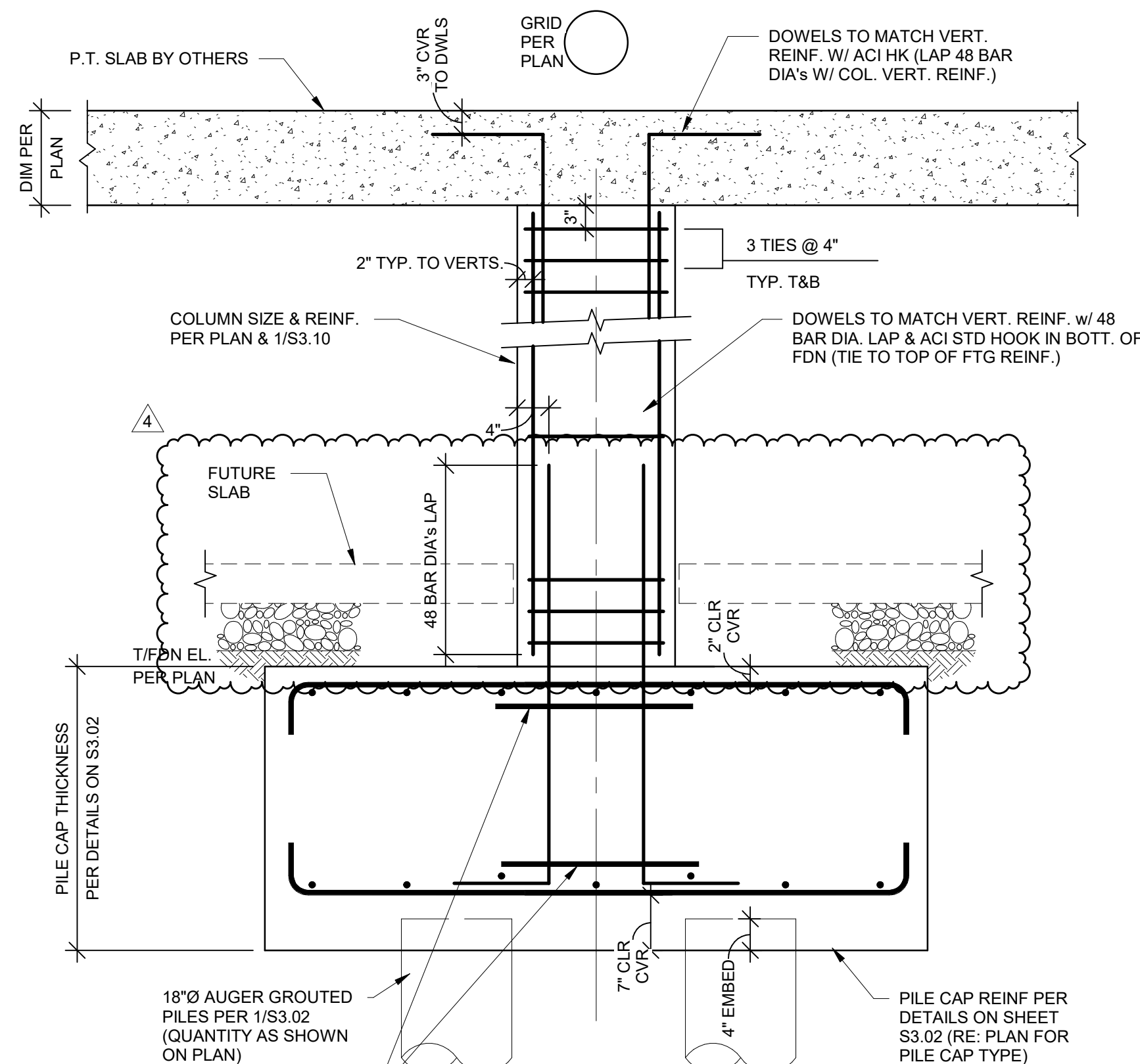
S3.02



PILE CAP SCHEDULE			
PILE CAPACITY (KIPS) 300 @ 16" PILE / 600 @ 14" PILE		CONCRETE (PSI) 3500	REBAR (KSI) 60
TYPE	FOOTING SIZE (FT.) THICKNESS (IN)	QTY/SIZE OF BARS EACH WAY	
	3'-6" x 3'-6" x 30" w/ 14" PILE	#5 @ 8"oc BOTTOM / #5 @ 12"oc TOP	
	9'-0" x 4'-6" x 36"	#6 @ 8"oc BOTTOM / #6 @ 12"oc TOP	
	9'-0" x 9'-0" x 38"	#7 @ 8"oc BOTTOM / #7 @ 12"oc TOP	
	9'-0" x 13'-6" x 60"	#7 @ 8"oc BOTTOM / #7 @ 12"oc TOP	
	12'-6" x 13'-6" x 54"	#7 @ 8"oc BOTTOM / #7 @ 12"oc TOP	

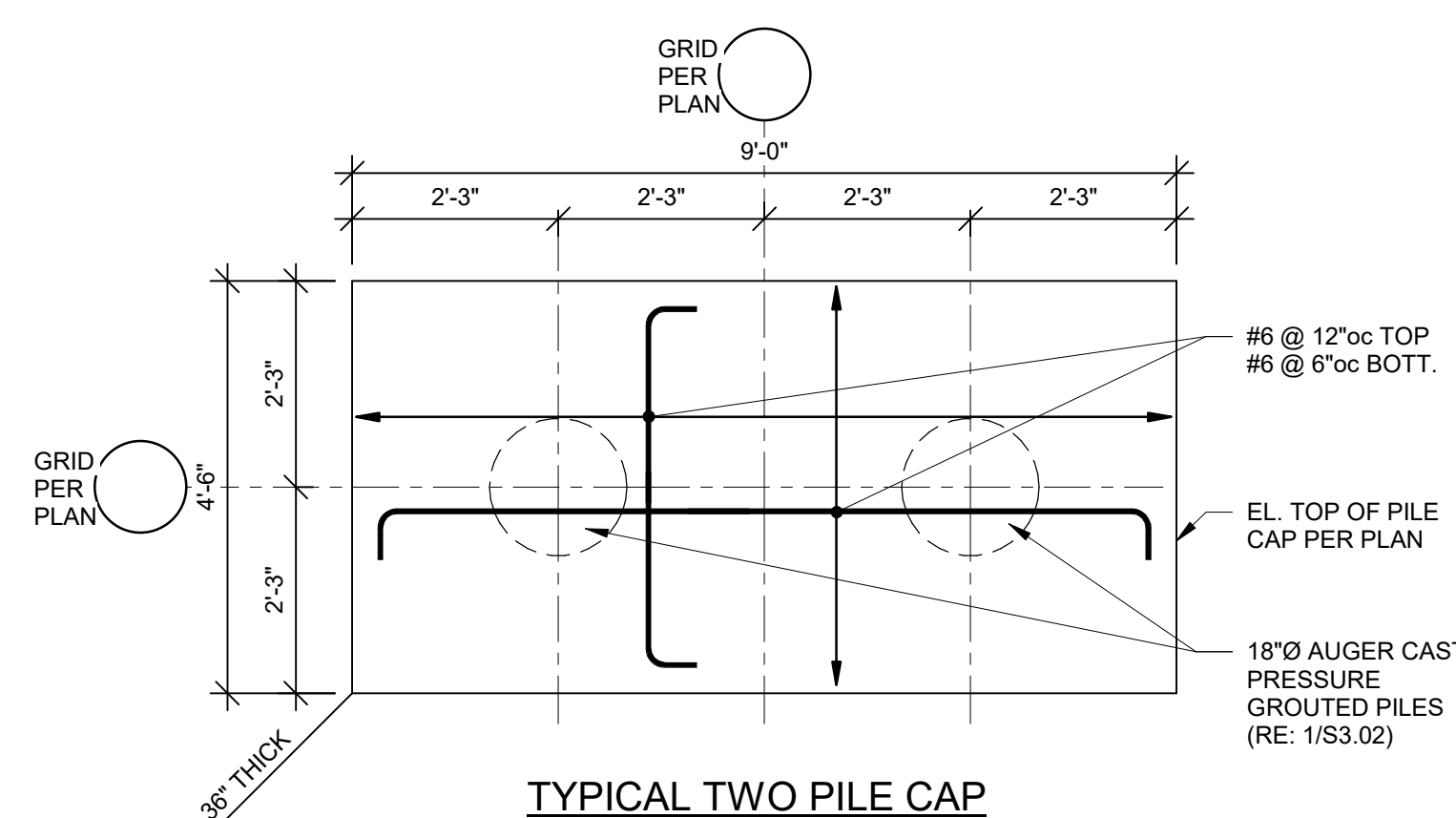
NOTE:

- 1.) EXTERIOR PILE CAPS SHALL BE POURED MONOLITHIC WITH GRADE BEAMS AND EXTERIOR.
- 2.) PROVIDE #4 @ 12"o.c. EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAMES AND AT BRACE BAY COLUMNS.
- 3.) CENTER PILE CAPS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN, UNLESS OTHERWISE NOTED.
- 4.) PROVIDE ACI STANDARD HOOK AT EACH END OF BARS.



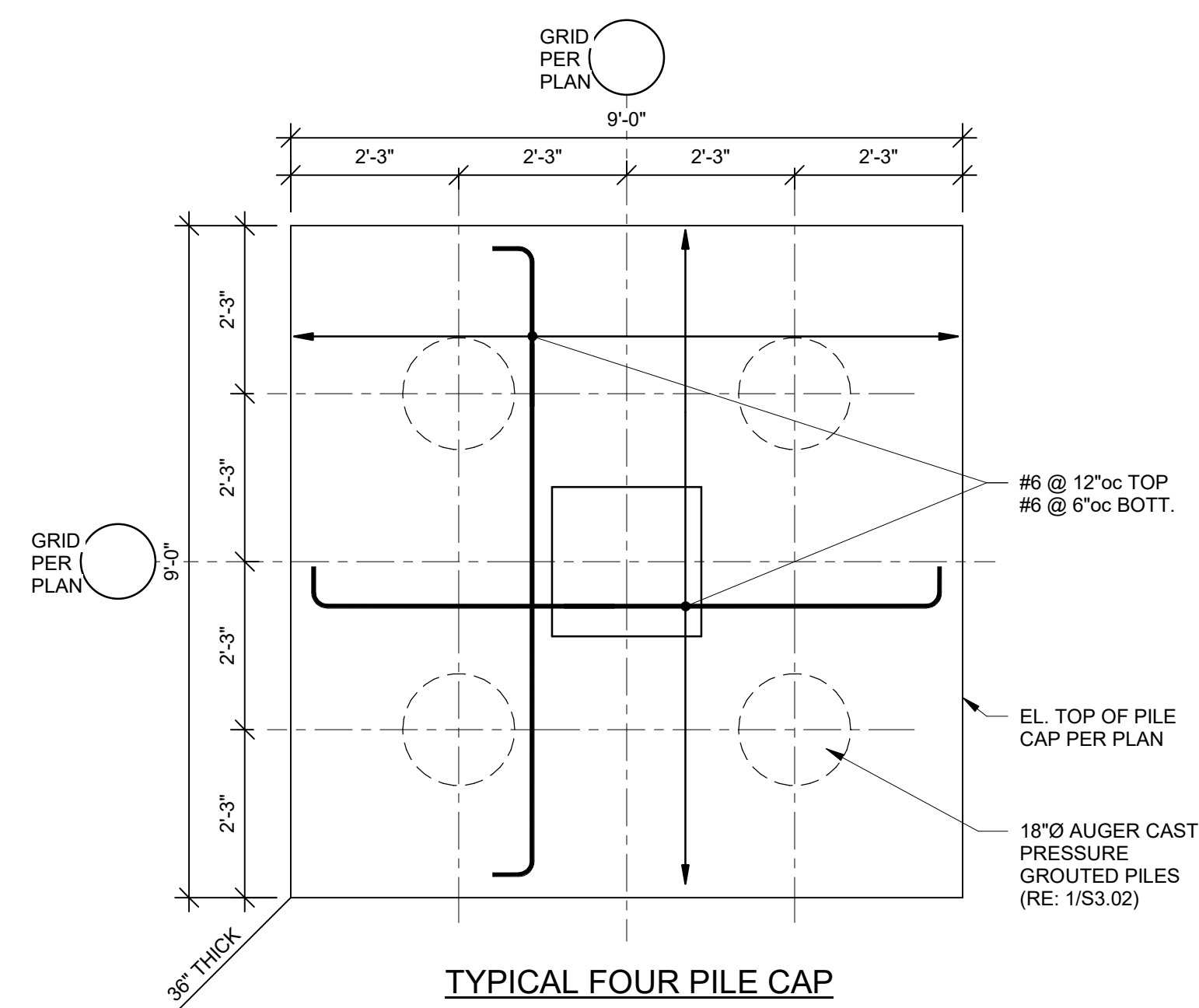
TYPICAL COLUMN DETAIL

2 SECTION



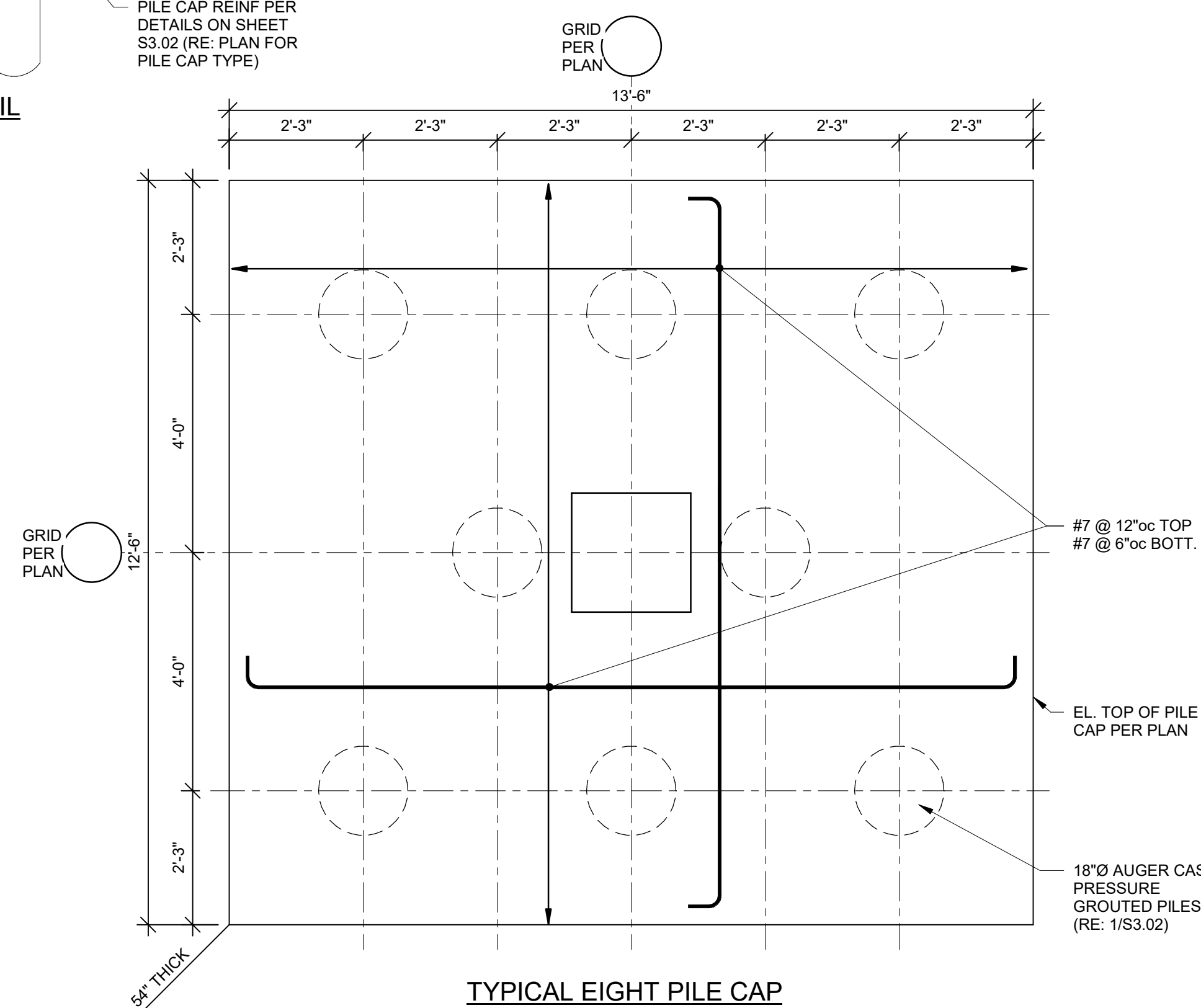
TYPICAL TWO PILE CAP

3 DETAIL



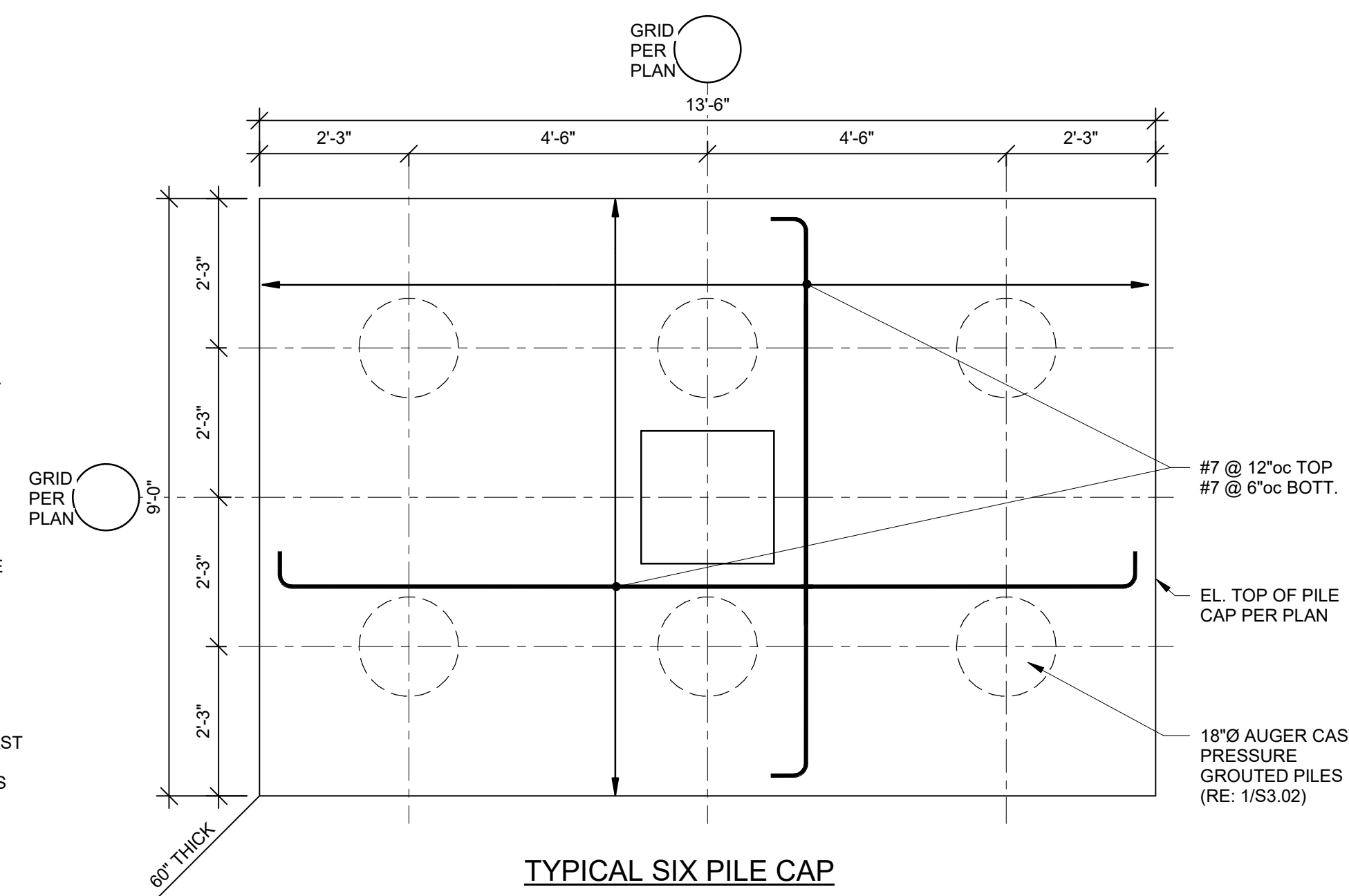
TYPICAL FOUR PILE CAP

4 DETAIL



TYPICAL EIGHT PILE CAP

5 DETAIL



TYPICAL SIX PILE CAP

6 DETAIL

T:\E-G\FW Projects\FW\2101 - Paragon Star\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star.iff.Mt

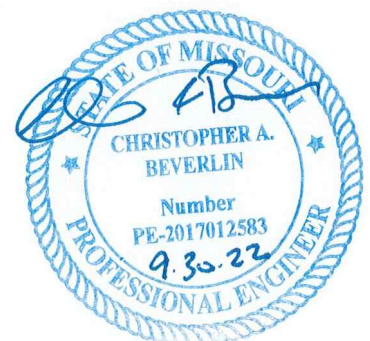


3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

[illegible]

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS
ARCHITECTURE

CIVIL GBA ENGINEERS

LANDSCAPE LAND 3

STRUCTURAL BOB D. CAMPBELL

LUMBING LATIMER SOMMERS

MECHANICAL LATIMER SOMMERS

ELECTRICAL LATIMER SOMMERS

FIRE PROTECTION LATIMER SOMMERS

CONTRACTOR
BRINKMANN
CONSTRUCTORS

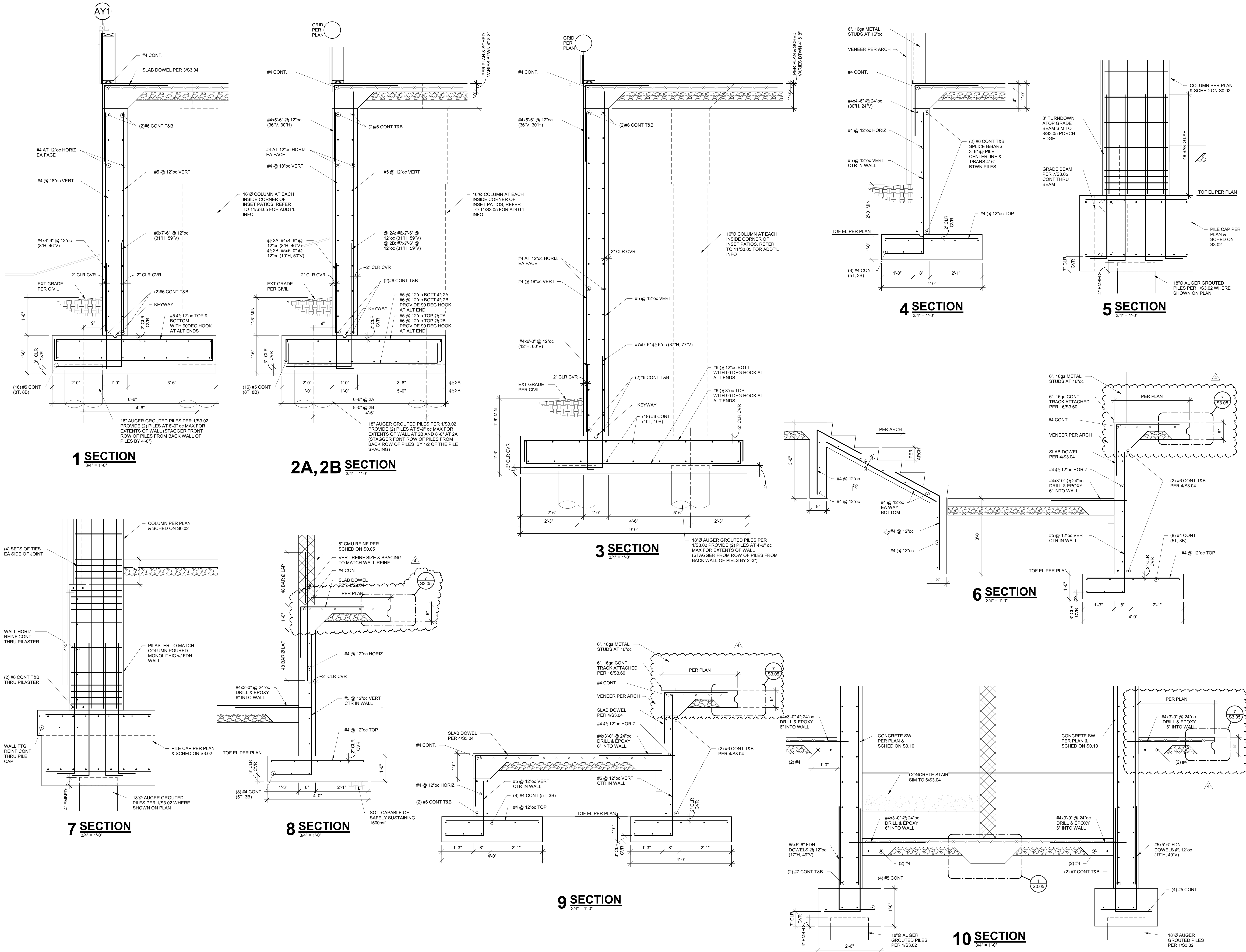
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

FOUNDATION DETAILS

SHEET NUMBER

S3.04



T:\E-G\FW Projects\FW\2101 Dwgs\FW\2101 - S21 - Paragon Star.tif,rvt



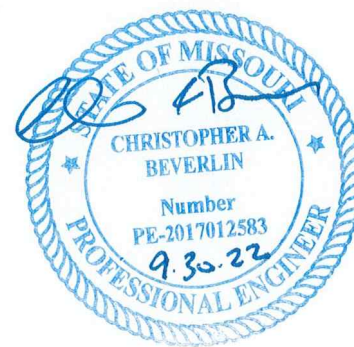
PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2
4	9.28.22	ASI 1

REGISTRATION



PROJECT TEAM	
ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

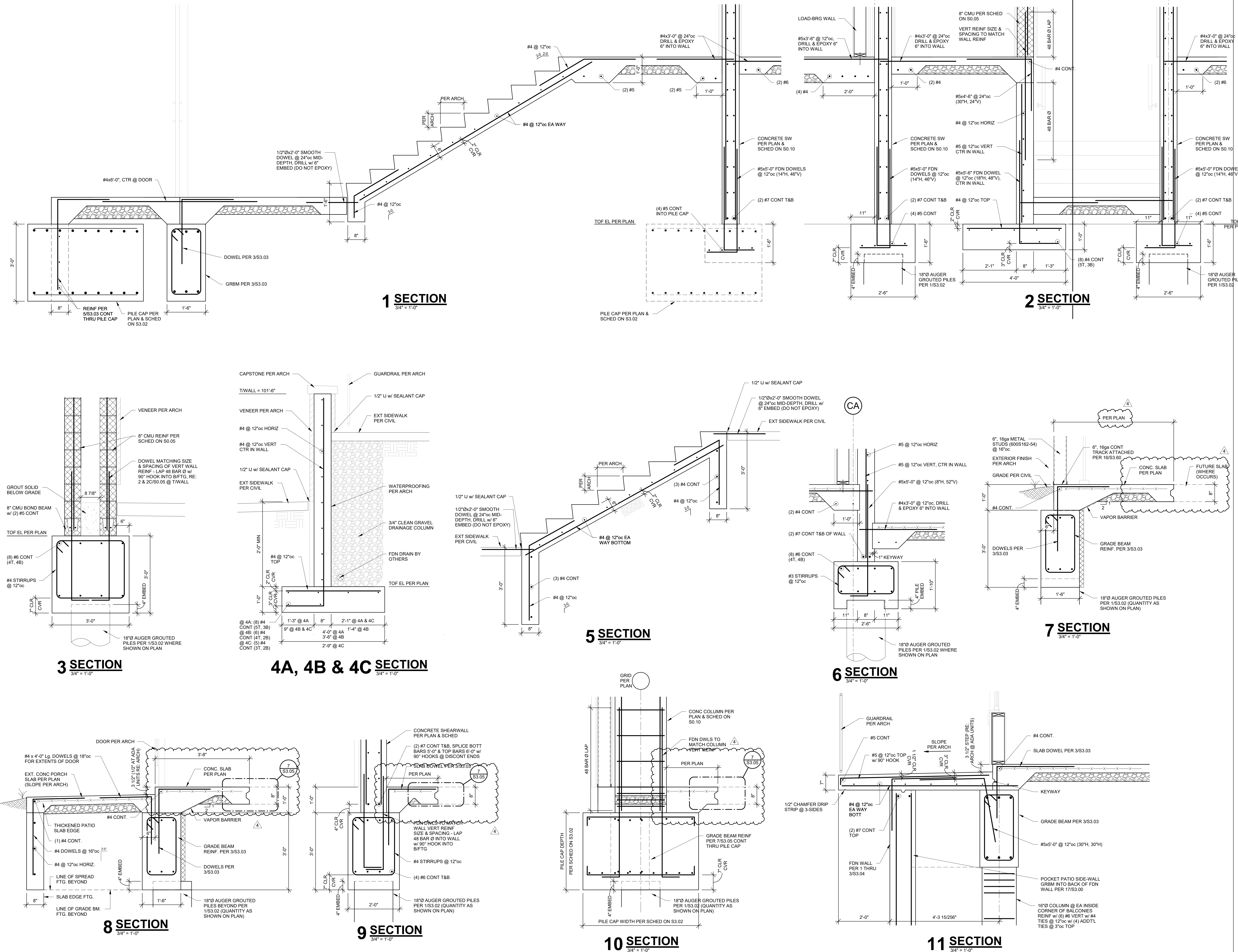
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

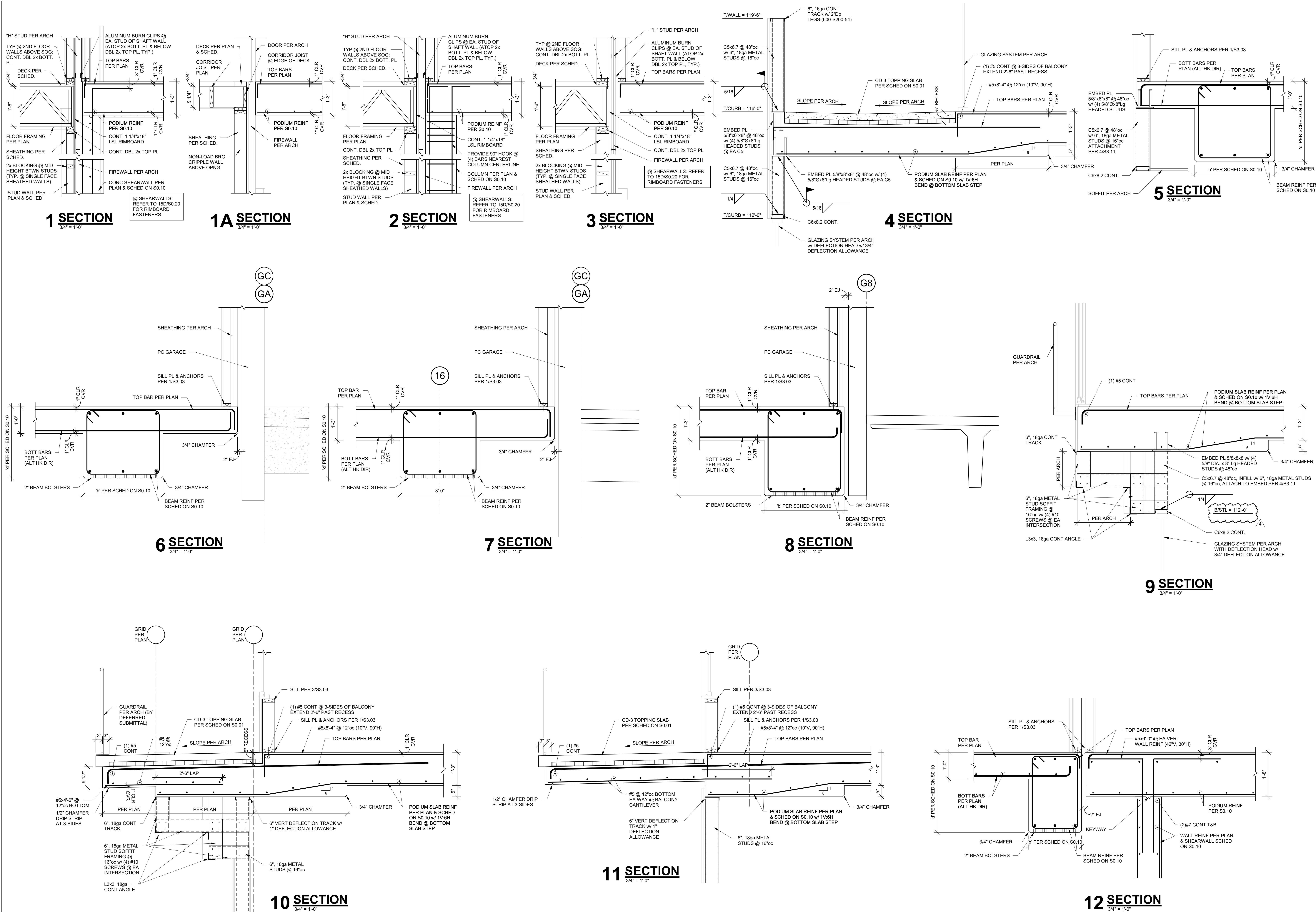
FOUNDATION
DETAILS

SHEET NUMBER

S3.05



T:\E-GP\W1\Project\FW2101 - Paragon Star\FW2101 - S3.11 - Paragon Star.dwg



PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY,
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07.19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS		
No.	Date	Description
1	7.11.22	ADDENDUM 1
2	7.20.22	ADDENDUM 2
3	9.28.22	ASI 1
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE-WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Bellevue Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

CONCRETE
FRAMING DETAILS

SHEET NUMBER

S3.11

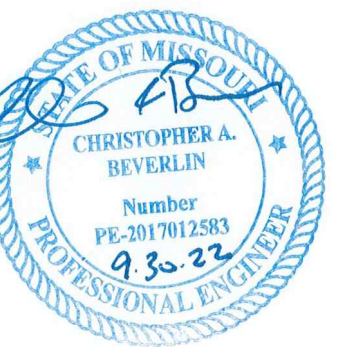


00 NW PARAGON PKWY
E'S SUMMIT, MO 64081

No.:	18017,19050.07,19050.08
	06.28.2022
For:	FOR CONSTRUCTION

[illegible]

REGISTRATION



PROJECT TEAM	
PROJECT	FINKLE+WILLIAMS ARCHITECTURE
ENGINEER	GBA ENGINEERS
SCAPE	LAND 3
CULTURAL	BOB D. CAMPBELL
PLANNING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
PROTECTION	LATIMER SOMMERS
FACTORY	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Bellevue Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

PRECAST RAGE FRAMING DETAILS

SHEET NUMBER

S3.51

